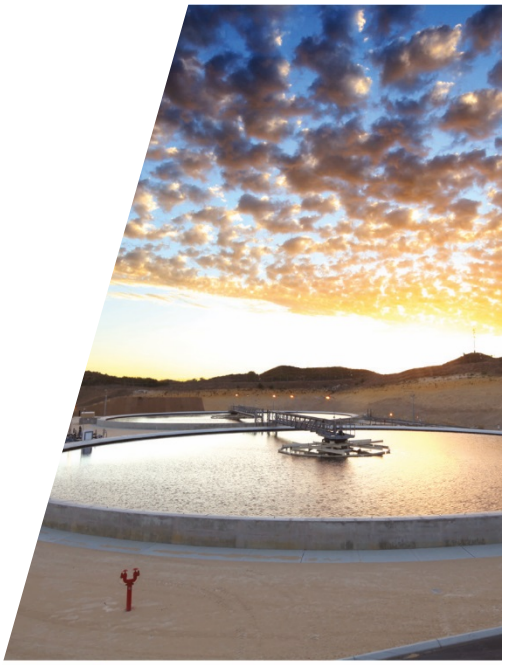
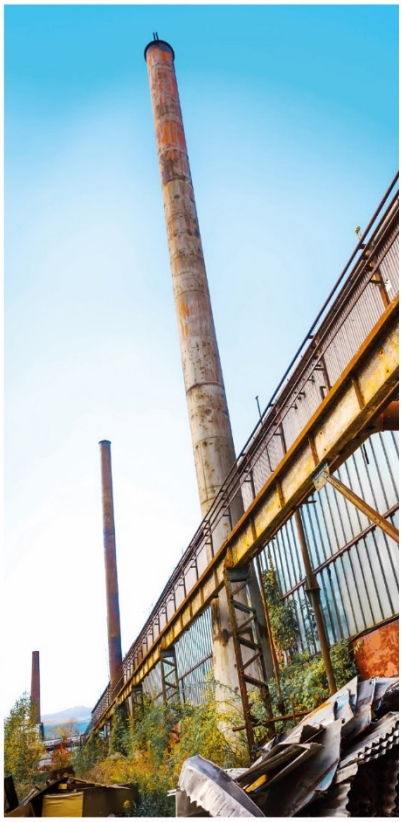


Excavation Summary Report

1215 Second Avenue North and
1208 Fourth Avenue North
Kent, Washington

Protective Coatings Facility



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1. Introduction

GHD Services Inc. (GHD) has prepared this Excavation Summary Report on behalf of PCC Aerostructures, Inc. (PCC) for the Protective Coatings Facility located at 1215 2nd Avenue North and 1208 4th Avenue North, Kent, King County, Washington (Site or Property). This report was prepared to document the soil remedial activities that took place at Site from April 16, 2018 through May 4, 2018. The purpose of the excavation was to remediate residual contamination present in the soil within the vicinity of MW-3/Bunker 2 and to apply an in-situ treatment.

1.1 Site Description

The Property is located in the north central portion of Kent, Washington, northwest of Highway 167 (Figure 1). The Property covers an area of approximately 4.3 acres of level land and is used for industrial purposes. Currently, the Property is used as a metals plating facility. Land use and zoning in the vicinity of the Property is industrial.

The layout of the Property is shown on Figure 2. Facilities consist of two large production floors, one packaging/shipping warehouse, one general use warehouse, and an outdoor wastewater treatment and chemical storage area.

The Property is located within the Green River Valley at approximately 40 feet above mean sea level. The local topography is relatively flat within the vicinity of the Property with hills located toward the east and west. The nearest surface water bodies are a group of small lakes and ponds located approximately 1.2 miles southwest followed by Green River located approximately 1.4 miles southwest. The Property is located approximately 4.2 miles east of Puget Sound.

The Model Toxics Control Act (MTCA) Site (Site) is defined as all areas that are currently or were historically impacted by the release at the Property. The Site boundary is presented on Figure 2.

1.2 Site Background

Based on investigation data, volatile organic compounds (VOCs) were released to the subsurface sometime prior to 2004. It is not certain when or how the release occurred but based on environmental investigations, there was likely a release of trichloroethylene (TCE) in the chemical bunker area. The TCE likely naturally degraded over time resulting in the presence of daughter products (cis) 1,2-Dichloroethylene ((cis) 1,2-DCE) and vinyl chloride at the Site.

A chemical release, impacting soil and groundwater, was reported to Ecology on March 28, 2014, and the site was listed with Washington State Department of Ecology's (Ecology) Toxics Cleanup Program (Cleanup Site ID #12337). The Property was entered into Ecology's Voluntary Cleanup Program (VCP) on March 28, 2014 and issued site number NW2843. The current status of the site with Ecology is "Cleanup Started" as of March 2014.

As presented in GHD's *Feasibility Study* (FS) dated July 25, 2016, MTCA Method C cleanup levels were selected for the Site. In a letter dated July 6, 2017, Ecology concurred with the selected cleanup action and MTCA Method C cleanup levels for soil; however, Ecology disapproved the use of MTCA Method C cleanup levels for groundwater and requested a combination of MTCA Method B

cleanup levels and federal Maximum Contaminant Levels (MCL) be utilized. Trichloroethene (TCE) is the only constituent of concern (COC) in soil which exceeds the MTCA Method C cleanup level. The MTCA Method C soil cleanup level for TCE is equivalent to the MTCA Method B soil cleanup level and is designated to protect potable groundwater from impacts caused by soil leaching. During the 2015 remedial investigation, groundwater impacted with VOCs was present in the vicinity of Bunker 1 and Bunker 2 in monitoring well MW-3 only.

A chronological summary of the environmental work completed at the Property is included as Appendix A. Historical sampling locations are provided on Figure 3.

1.3 Site Geology

The Property is situated within the Green River Valley. Subsurface geology is mapped as Quaternary Alluvium consisting of dune sand, loess, and artificial fill.

GHD interpreted Golder's field boring and well logs and drafted revised logs to better understand soil horizon thicknesses and boundaries. Soils were logged using the Unified Soil Classification System. Based on these interpretations, soil appears to consist of artificial fill and/or alluvium consisting of poorly graded sand and silty sand in the upper approximately 5 to 10 feet below ground surface (bgs); followed by interbedded sand and silt to the maximum explored depth of 30 feet bgs. Previous consultants logged much of the soil as clay; however, based on GHD's 2015 soil investigation, the intervals previously logged as clay are, in fact, silt. GHD's field interpretation was confirmed by a sieve analysis.

Soils identified during the excavation were consistent with historical observations.

1.4 Groundwater

The Property is located in the Green River Watershed. Water is supplied to the City of Kent primarily from wells located in the southeast portion of the city. In addition, the City of Kent is partnered with Tacoma Water, Covington Water District, and Lakehaven Water District, which all obtain water from the Green River.

A total of eight water supply wells are located within 0.5 mile of the Property. King County documents indicate that three of the wells are located up-gradient of the Site to the northeast, and were completed to depths between 68 and 135 feet bgs. Three wells are located cross-gradient of the Site to the northwest, and were completed to depths between 60 and 87 feet bgs. One well is located down-gradient of the Site to the southwest, and was completed to 650 feet bgs. One additional well was identified by Ecology in an area cross-gradient of the Site. This well was completed to a depth of 68 feet bgs and may be the same well documented in this area by King County. The well owner, exact well location, and current use of these wells, if they presently exist, were not available to GHD.

Based on the results of previous investigations and groundwater monitoring conducted at the Site, shallow groundwater is present between approximately 6.5 and 10 feet bgs, with the average depth to groundwater being approximately 9 feet bgs. Shallow groundwater appears to flow toward the southwest.

Groundwater was encountered at a depth of approximately 11 feet bgs within the excavation.

2. Remedial Excavation

2.1 Monitoring Well Decommissioning

Monitoring well MW-3 was located within the proposed excavation footprint. The total completed well depth was 16 feet bgs, which was below the proposed excavation depth. Therefore, MW-3 was decommissioned prior to the excavation activities. Bentonite chips were placed within the well casing from the base of the monitoring well to the ground surface. Approximately 10.5 feet of the well casing was removed during the excavation.

2.2 Remedial Soil Excavation

Prior to initiating excavation activates, GHD conducted a public utility locate. During previous site visits, GHD had not identified any utilities that were in conflict with the proposed excavation area, with the exception of the floor drain within the bunker. The public locate was completed prior to beginning groundbreaking work.

On April 16 through May 4, 2018, GHD oversaw the soil excavation and restoration activities conducted by Clearcreek Contractors (Clearcreek). The excavation footprint is shown in detail on Figure 4.

The excavation consisted of an irregular shaped area approximately 23-feet by 23-feet, located in the central portion of the Property, within Bunker 2, in the vicinity of MW-3. The northern and western edges of the excavation were advanced to the furthest points possible without undermining the integrity of the bunker. The total excavation depth was between 9 and 13 feet bgs based on field screening.

A cumulative total of approximately 307 tons of impacted soil was removed from the excavation. Excavated soil was directly loaded into trucks and disposed of off-Site at the Cowlitz County Landfill in Kelso, Washington. Soil disposal documentation is provided in Appendix B. The excavation was dewatered as needed by pumping accumulated groundwater into a container on-Site for transportation to Burlington Environmental, LLC. in Kent, Washington for disposal. A total of approximately 1,330 gallons of water was removed. Disposal Documentation if provided as Appendix C.

2.3 Confirmatory Soil Sampling

GHD conducted soil screening during the excavation activities using a photoionization detector (PID). Soil samples were collected by GHD based on visual observation and PID readings and submitted for laboratory analysis. A total of fourteen soil samples were collected from the sidewalls and base of the excavation. Soil sample locations are presented on Figure 4. Soil samples were collected directly from the bucket of the excavator and preserved in the field following EPA Method 5035. Samples were preserved on ice, and transported under chain of custody protocol to Test America Laboratory of Tacoma, Washington.

Soil sample results were compared to MTCA Method C cleanup levels for industrial land use. TCE concentrations measured in samples collected from sidewall samples SSW-2 [0.052 milligram per kilogram (mg/kg)], and WSW-2 (0.048 mg/kg) at 5 feet bgs exceeded the applicable MTCA Method

C (industrial) Cleanup level of 0.03 mg/kg. In addition, NSW-2 contained a TCE concentration of 0.032 mg/kg, which is approximately equivalent to the cleanup level. Sample locations NSW-2 and SSW-2 were collected at the furthest possible sampling locations without undermining the integrity of the bunker.

The MTCA Method C cleanup level is based on protection of leaching to groundwater where the maximum beneficial use of groundwater is drinking water. The MTCA Method C cleanup level for protection of soil ingestion is 1,800 mg/kg, while the MTCA Method B cleanup level is 11 mg/kg. The Site is capped with asphalt and/or concrete, and the soil within Bunker 2 is also under cover of overhead canopy; therefore, the leaching potential is extremely low. Groundwater from downgradient well MW-3R will be monitored to determine whether leaching is occurring. Once groundwater meets the applicable cleanup level for TCE, the MTCA Method C cleanup level for protection of soil ingestion (1,800 mg/kg) will be elected.

No other soil concentrations exceeded the Site-specific cleanup levels.

Soil analytical results are summarized in Table 1. The laboratory analytical results are provided in Appendix D.

2.4 In-Situ Treatment

After collecting confirmation soil samples but prior to backfilling the excavation area, GHD applied 800 pounds (lbs) of 3-D Microemulsion (3DMe) to the base of the excavation. 3DMe was evenly dispersed on the base of the excavation within the groundwater table, which was encountered between 6.5 and 10 feet bgs. Once evenly dispersed, Clearcreak used the excavator to mix in the 3DMe into the upper 3 to 4 feet. A specification sheet for 3DMe is included in Appendix E.

2.5 Excavation Backfill

Following the 3DMe application, the excavation was backfilled with clean fill material and compacted to surface grade. The sump and floor drain were reinstalled in its original location and the surface was completed with concrete within Bunker 2 and with hot asphalt outside of Bunker 2.

2.6 Monitoring Well Reinstallation

Following the completion of the excavation, monitoring well MW-3 was replaced by MW-3R adjacent to the excavation extent. The monitoring well location is presented on Figure 4. The well was installed using air-vacuum excavation to 5-feet bgs and hollow stem auger drilling to 15 feet bgs. The well was screened from 5 to 15 feet bgs with 2-inch Schedule 40 polyvinyl chloride (PVC) screen with 0.01-inch slots, threaded with 2-inch PVC blank well casing from 5 feet to ground surface. The well annulus was backfilled with a 10-20 size washed sand pack to 1 foot above the top of the screen and sealed with bentonite chips and asphalt to the surface. The surface of the well was completed with a lockable steel housing embedded in concrete and installed flush with ground surface with a traffic-rated monument.

2.7 Monitoring Well Development

On May 31, 2018, Blaine Tech Services (Blaine) used surging and purging techniques to develop monitoring well MW-3R in accordance with Blaine's standard operating procedures. In addition, because a significant period of time had elapsed since the last groundwater sampling event, Blaine redeveloped wells MW-1, MW-6, MW-7, and MW-9. The wells were surged for a minimum of 10 minutes and purged until at least ten casing volumes were removed. Blaine measured temperature, pH, conductivity, and turbidity during purging. Well development was ceased once field parameters stabilized across at least three readings with turbidity below 1,000 NTU. Well development field sheets are provided in Appendix F.

2.8 Groundwater Monitoring and Sampling

On June 4, 2018, Blaine returned to Site to conduct groundwater monitoring and sampling activities. Groundwater samples were collected from monitoring wells MW-1, MW-3R, MW-6, MW-7, and MW-9 and submitted for chemical analysis of VOCs and dissolved arsenic. Field data sheets from the well sampling event are provided in Appendix F.

GHD compared the COCs (1,1-dichloroethene [1,1-DCE], 1,1-dichloroethane [1,1-DCA], (cis) 1,2-dichloroethene [(cis) 1,2-DCE], vinyl chloride, and arsenic) to the Site specific guidelines outlined in GHD's *Cleanup Action Work Plan* dated August 2017. Further discussion with Ecology regarding the appropriate groundwater cleanup levels is warranted.

The following Site specific guidelines were used to compare to the groundwater analytical results:

COC	Method B (µg/L)	Method C (µg/L)	MCL (µg/L)	June 2018 Analytical Results
1,1-DCE	400 (non-cancer)	875 (non-cancer)	7	ND (all wells)
1,1-DCA	1,600 (non-cancer) 7.68 (cancer)	3,500 (cancer) 76.8 (cancer)	N/A	ND (all wells)
(cis) 1,2-DCE	16 (non-cancer)*	35 (non-cancer)	70	2.7 (MW-1) 1.1 (MW-3R) ND (MW-6, MW-7, MW-9)
Vinyl Chloride	0.029 (cancer)	0.29 (cancer)	2	0.50 (MW-3R) 0.44 (MW-9) ND (MW-1, MW-6, MW-7)

No TCE was detected above the laboratory reporting limit in groundwater. Groundwater analytical results are summarized in Tables 2 and 3. The laboratory analytical results are provided in Appendix D.

3. Post-Remedial Groundwater Monitoring Plan

GHD recommends sampling monitoring wells MW-1, MW-3R, MW-6, MW-7, and MW-9 on a quarterly basis to establish seasonal concentration trends and evaluate the effectiveness of the 3DMe application. Following the completion of four quarters of groundwater monitoring, additional monitoring and frequency will be assessed. Groundwater will be analyzed for VOCs by EPA Method 8260 and dissolved arsenic by EPA Method 6010.

4. Conclusions

The remedial excavation removed the majority of the residual mass in soil, as indicated by confirmatory soil sampling. Minimal residual TCE impacts remain in place in the southwest corner and northeast corner; however, no TCE was detected in groundwater indicating that leaching is not occurring. Concentrations of vinyl chloride which slightly exceed the MTCA Method B and C cleanup levels, but do not exceed the maximum contaminant level (MCL), remain in groundwater in wells MW-3R and MW-9. GHD recommends continuing groundwater monitoring at a quarterly frequency to establish post-remedial groundwater trends. Results of the groundwater monitoring will be provided to Ecology in an annual report following the completion of four quarters.

All of Which is Respectfully Submitted,

GHD

Christina McClelland, LG

Rebecca Pavlik

about GHD

GHD is one of the world's leading professional services companies operating in the global markets of water, energy and resources, environment, property and buildings, and transportation. We provide engineering, environmental, and construction services to private and public sector clients.

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Figures

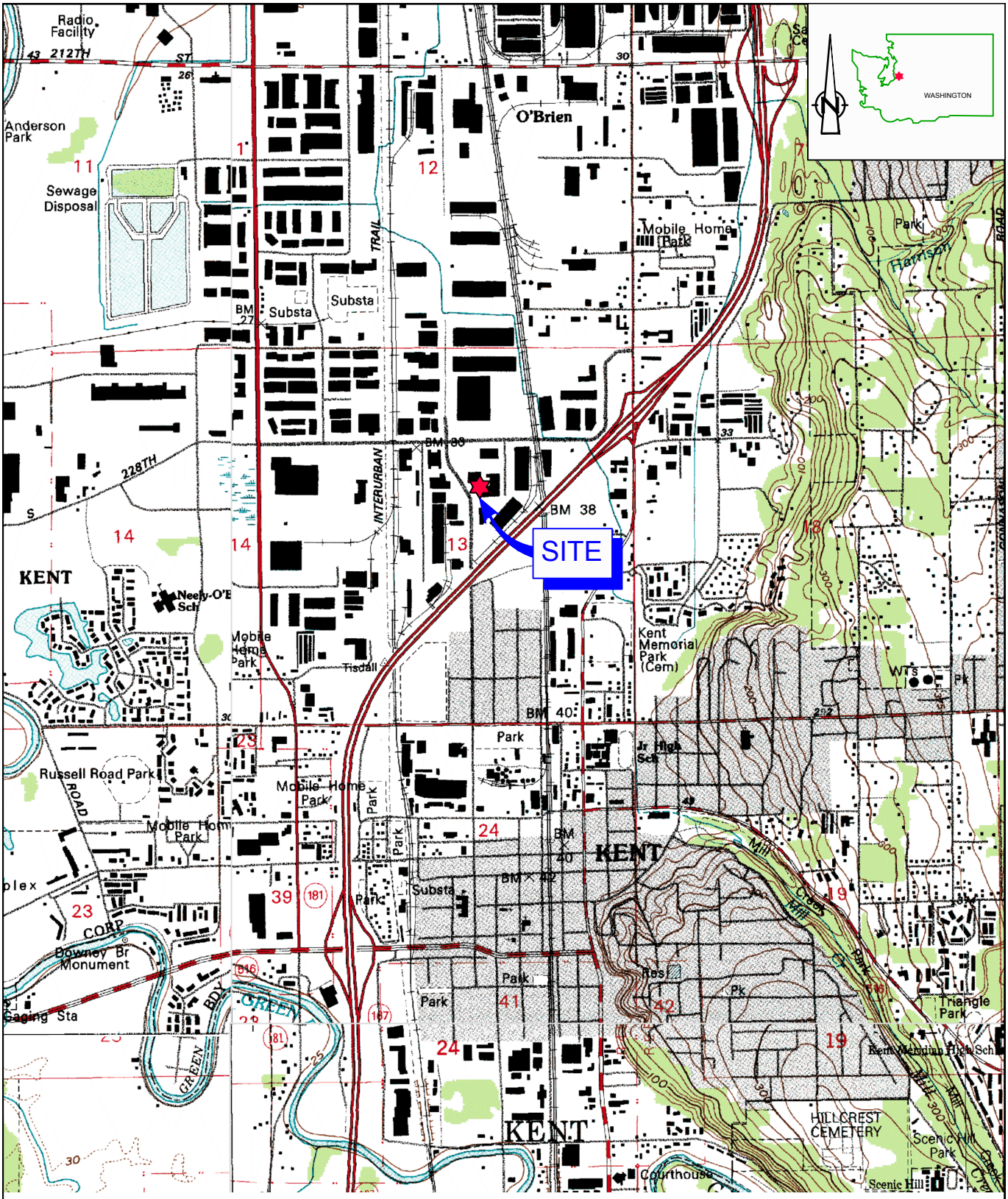
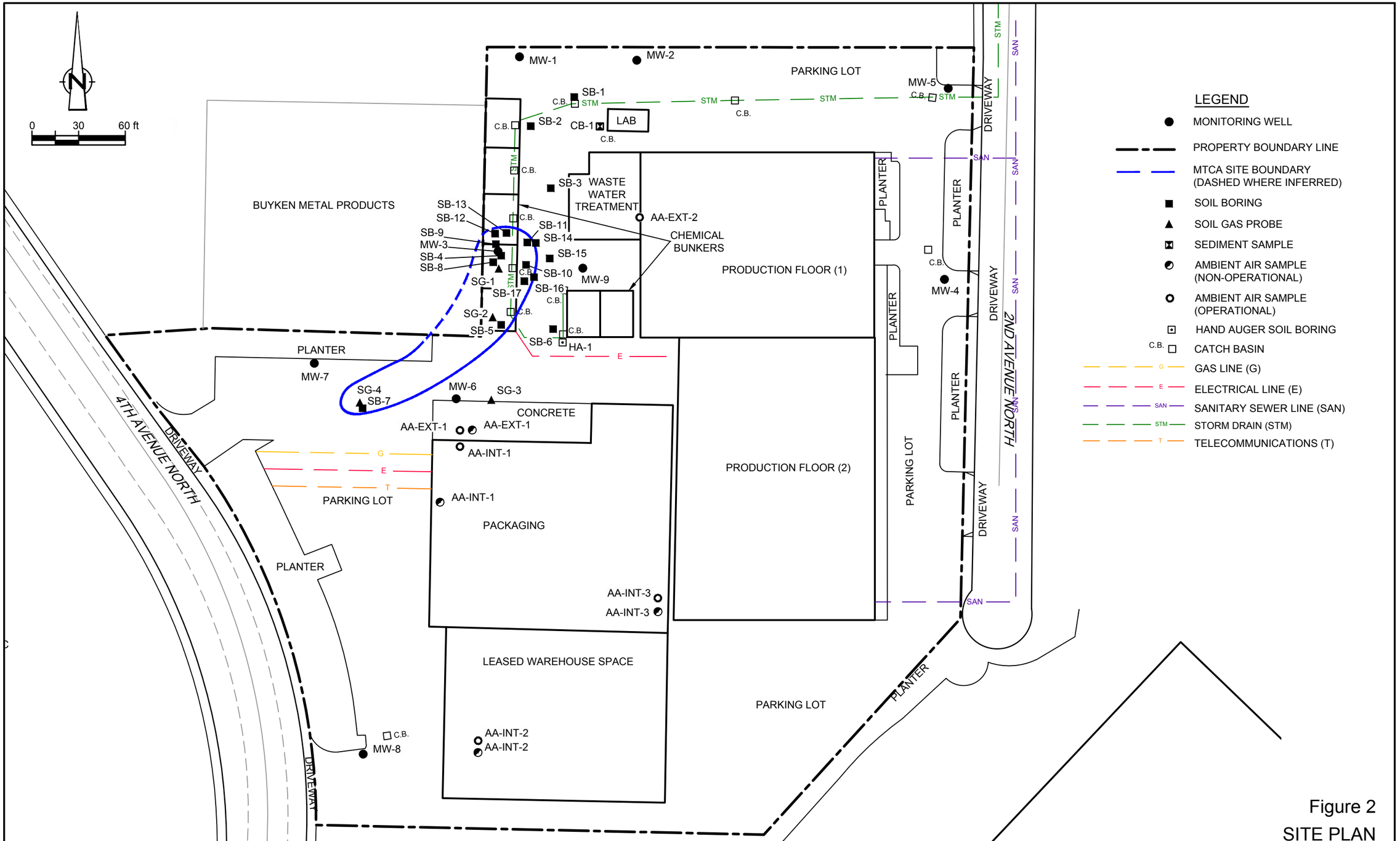


Figure 1

VICINITY MAP
PROTECTIVE COATINGS FACILITY
1215 2ND AVENUE NORTH AND 1208 4TH AVENUE NORTH
Kent, WA

SOURCE: USGS TOPOGRAHIC MAPFINDER.

62175-05A(010)GN-WA001 MAY 17, 2018

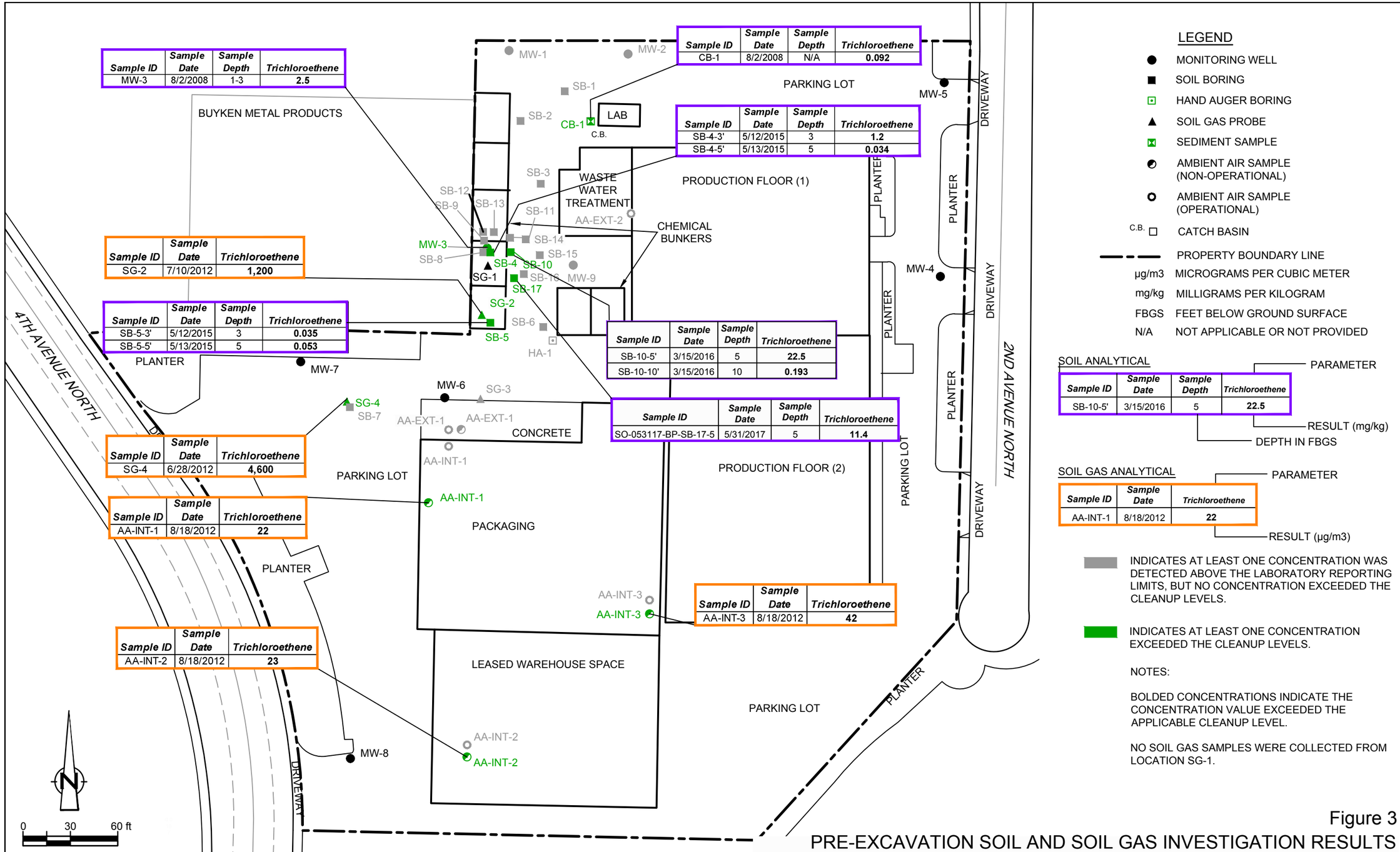


SOURCE: USGS NATIONAL MAP VIEWER AERIAL IMAGERY. STATEWIDE LAND SURVEYING INC. REPORT DATED 7/17/15, WA STATE PLANE COORDINATED SYSTEMS NAD 83/2011 EPCOH 2010.000 NORTH ZONE 4601, IN U.S. SURVEY FEET.

Figure 2

SITE PLAN
PROTECTIVE COATINGS FACILITY
1215 2ND AVENUE NORTH AND 1208 4TH AVENUE NORTH
Kent, Washington

62175-05A(010)GN-WA002 MAY 17, 2018



Sample ID	Sample Date	Sample Depth	Trichloroethene
MW-3	8/2/2008	1-3	**2.5**

Sample ID	Sample Date	Sample Depth	Trichloroethene
CB-1	8/2/2008	N/A	**0.092**

Sample ID	Sample Date	Sample Depth	Trichloroethene
SB-4-3'	5/12/2015	3	**1.2**
SB-4-5'	5/13/2015	5	**0.034**

Sample ID	Sample Date	Trichloroethene
SG-2	7/10/2012	**1,200**

Sample ID	Sample Date	Sample Depth	Trichloroethene
SB-5-3'	5/12/2015	3	**0.035**
SB-5-5'	5/13/2015	5	**0.053**

Sample ID	Sample Date	Sample Depth	Trichloroethene
SB-10-5'	3/15/2016	5	**22.5**
SB-10-10'	3/15/2016	10	**0.193**

Sample ID	Sample Date	Sample Depth	Trichloroethene
SO-053117-BP-SB-17-5	5/31/2017	5	**11.4**

Sample ID	Sample Date	Trichloroethene
SG-4	6/28/2012	**4,600**

Sample ID	Sample Date	Trichloroethene
AA-INT-1	8/18/2012	**22**

Sample ID	Sample Date	Trichloroethene
AA-INT-3	8/18/2012	**42**

Sample ID	Sample Date	Trichloroethene
AA-INT-2	8/18/2012	**23**

LEGEND

- MONITORING WELL
- SOIL BORING
- HAND AUGER BORING
- SOIL GAS PROBE
- SEDIMENT SAMPLE
- AMBIENT AIR SAMPLE (NON-OPERATIONAL)
- AMBIENT AIR SAMPLE (OPERATIONAL)
- C.B. CATCH BASIN
- PROPERTY BOUNDARY LINE
- µg/m3 MICROGRAMS PER CUBIC METER
- mg/kg MILLIGRAMS PER KILOGRAM
- FBGS FEET BELOW GROUND SURFACE
- N/A NOT APPLICABLE OR NOT PROVIDED

SOIL ANALYTICAL

Sample ID	Sample Date	Sample Depth	Trichloroethene
SB-10-5'	3/15/2016	5	**22.5**

PARAMETER
RESULT (mg/kg)
DEPTH IN FBGS

SOIL GAS ANALYTICAL

Sample ID	Sample Date	Trichloroethene
AA-INT-1	8/18/2012	**22**

PARAMETER
RESULT (µg/m3)

INDICATES AT LEAST ONE CONCENTRATION WAS DETECTED ABOVE THE LABORATORY REPORTING LIMITS, BUT NO CONCENTRATION EXCEEDED THE CLEANUP LEVELS.

INDICATES AT LEAST ONE CONCENTRATION EXCEEDED THE CLEANUP LEVELS.

NOTES:

BOLDED CONCENTRATIONS INDICATE THE CONCENTRATION VALUE EXCEEDED THE APPLICABLE CLEANUP LEVEL.

NO SOIL GAS SAMPLES WERE COLLECTED FROM LOCATION SG-1.

SOURCE: USGS NATIONAL MAP VIEWER AERIAL IMAGERY. STATEWIDE LAND SURVEYING INC. REPORT DATED 7/17/15, WA STATE PLANE COORDINATED SYSTEMS NAD 83/2011 EPCOH 2010.000 NORTH ZONE 4601, IN U.S. SURVEY FEET.

Figure 3

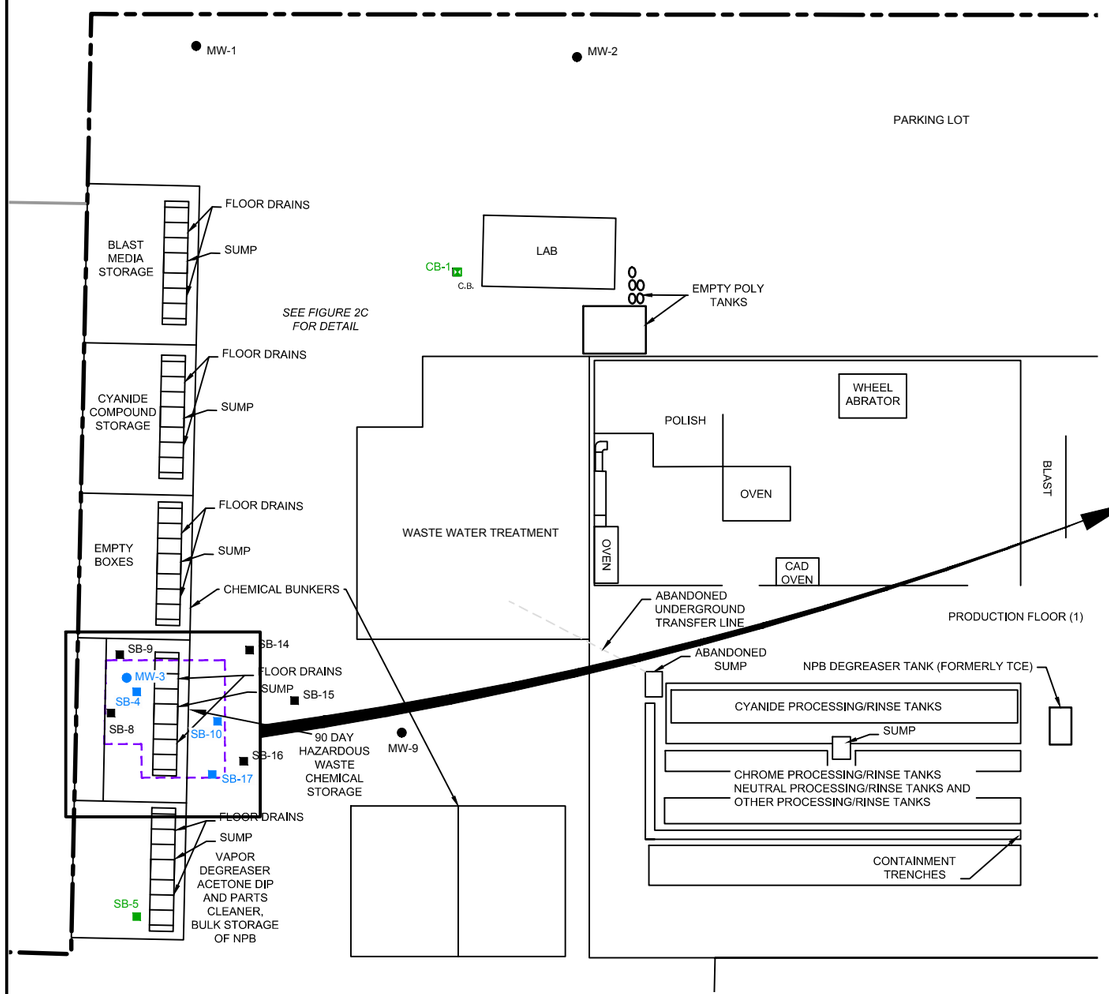
PRE-EXCAVATION SOIL AND SOIL GAS INVESTIGATION RESULTS
PROTECTIVE COATINGS FACILITY
1215 2ND AVEUNE NORTH AND 1208 4TH AVENUE NORTH
Kent, Washington

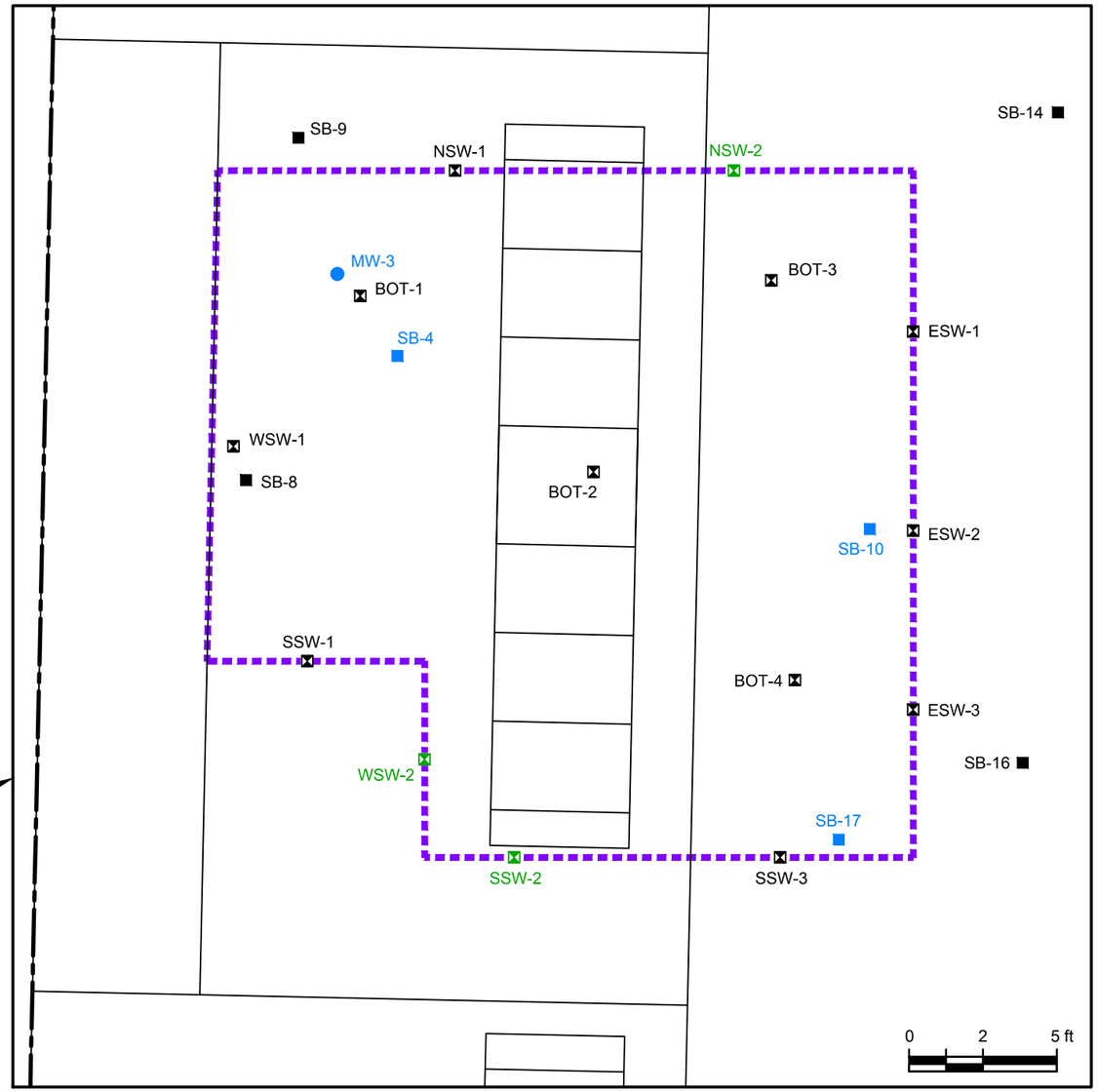
LEGEND

- MONITORING WELL
- PROPERTY BOUNDARY LINE
- C.B. CATCH BASIN
- LIMITS OF EXCAVATION
- NSW-1 SOIL SAMPLE LOCATION
- INDICATES AT LEAST ONE VOLATILE ORGANIC COMPOUND EXCEEDED THE CLEANUP LEVELS
- SOIL EXCEEDANCE WHICH WAS SUBSEQUENTLY REMOVED

0 15 30 ft

NOTES:
NPB = N-PROPYL BROMIDE
TCE = TRICHLOROETHENE





SOURCE: USGS NATIONAL MAP VIEWER AERIAL IMAGERY. STATEWIDE LAND SURVEYING INC. REPORT DATED 7/17/15, WA STATE PLANE COORDINATED SYSTEMS NAD 83/2011 EPCOH 2010.000 NORTH ZONE 4601, IN U.S. SURVEY FEET.

Figure 4

POST-EXCAVATION SOIL RESULTS
PROTECTIVE COATINGS FACILITY
1215 2ND AVENUE NORTH AND 1208 4TH AVENUE NORTH
Kent, Washington

Tables

Table 1

Summary of Soil Analytical Data
Protective Coatings Facility
1215 2nd Avenue North and 1208 4th Avenue North
Kent, Washington

Report Referenced	Sample ID	Sample Date	Sample Depth	VOCs									Metals											Other
				Acetone	1,1-Dichloroethene	1,1-Dichloroethane	(cis) 1,2-Dichloroethene	2-Butanone	1,1,1-Trichloroethane	Trichloroethene	1,1,2-Trichloroethane	Vinyl Chloride	Arsenic	Barium	Berylium	Cadmium	Chromium	Copper	Lead	Selenium	Silver	Mercury	Nickel	Zinc	Total Cyanide
MTCA Method C (industrial) Cleanup Levels				**3.15E+06**	**175000**	**700000**	**7000**	**NE**	**7.00E+06**	**0.03***	**2300**	**0.67**	**87.5**	**7.00E+05**	**7000**	**3500**	**1.05E+04**	**1.40E+05**	**NE**	**1.75E+04**	**1.75E+04**	**NE**	**NE**	**1.05E+06**	**2100**
				(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Golder 2012	MW1-2-080208	8/2/2008	2-4	0.028	<0.0011	<0.0011	<0.0011	<0.0054	<0.0011	<0.0011	<0.0011	<0.0011	<5	--	0.2	<0.2	26.6	21	5	--	--	<0.05	27	37	--
Golder 2012	MW2-2-080208	8/2/2008	1.5-3	0.016	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<6	--	0.2	<0.2	20.7	22.2	5	--	--	<0.05	19	37	--
Golder 2012	MW3-1-080208	8/2/2008	1-3	0.037	0.01	0.0026	0.001	<0.0047	0.18 B	**2.5 B**	0.0024	<0.0010	<6	--	0.2	<0.2	24.6	26.1	4	--	--	<0.05	23	41	--
Golder 2012	HA1-0.5-080208	8/2/2008	0.5	0.15	<0.0010	<0.0010	<0.0010	0.015	<0.0010	<0.0010	<0.0010	<0.0010	5	--	0.2	**3.6**	369	41.9	13	--	--	0.06	24	111	--
Golder 2012	CB-1-080208 A	8/2/2008	N/A	--	--	--	--	--	--	**0.092**	--	--	<20	--	0.6	**617**	722	397	52	--	--	0.07	286	959	11.5
CRA 2015	SO-062175-051415-JS-SB-1-5'	5/14/2015	5	<0.019	0.025	0.0062	<0.0038	<0.019	<0.0038	<0.0038	<0.0038	<0.0038	3.7	64.6	--	0.095	26.6	--	3.4	<0.55	<0.55	0.024	--	--	--
CRA 2015	SO-062175-051415-JS-SB-1-10'	5/14/2015	10	0.025	<0.0049	<0.0049	<0.0049	<0.024	<0.0049	<0.0049	<0.0049	<0.0049	4.2	62	--	<0.099	17.1	--	3.3	0.71	<0.62	0.055	--	--	--
CRA 2015	SO-062175-051415-JS-SB-1-20'	5/14/2015	20	0.030	<0.0046	<0.0046	<0.0046	<0.23	<0.0046	<0.0046	<0.0046	<0.0046	3.2	38.4	--	<0.095	10.4	--	2.2	<0.59	<0.59	<0.025	--	--	--
CRA 2015	SO-062175-051315-JS-SB-2-5'	5/13/2015	5	<0.022	<0.0045	<0.0045	<0.0045	<0.022	<0.0045	<0.0045	<0.0045	<0.0045	4.1	60.2	--	0.082	27.7	--	4.3	0.49	<0.46	0.039	--	--	--
CRA 2015	SO-062175-051315-JS-SB-2-10'	5/13/2015	10	0.023	<0.0044	<0.0044	0.0056	<0.022	<0.0044	<0.0044	<0.0044	<0.0044	3.3	45.8	--	<0.094	13.2	--	2.4	<0.59	<0.59	0.050	--	--	--
CRA 2015	SO-062175-051315-JS-SB-2-14'	5/13/2015	14	0.061	<0.0056	<0.0056	<0.0056	<0.028	<0.0056	<0.0056	<0.0056	<0.0056	5.1	60.3	--	<0.10	15.3	--	3.7	0.81	<0.64	0.091	--	--	--
CRA 2015	SO-062175-051215-JS-SB-3-3'	5/12/2015	3	<0.018	<0.0036	<0.0036	<0.0036	<0.018	<0.0036	<0.0036	<0.0036	<0.0036	2.5	131	--	<0.081	24.7	--	3.0	<0.51	<0.51	<0.021	--	--	--
CRA 2015	SO-062175-051315-JS-SB-3-5'	5/13/2015	5	0.054	<0.0043	<0.0043	<0.0043	<0.021	<0.0043	<0.0043	<0.0043	<0.0043	4.8	89.4	--	0.12	39.9	--	4.3	<0.52	<0.52	0.028	--	--	--
CRA 2015	SO-062175-051315-JS-SB-3-10'	5/13/2015	10	0.054	<0.0048	<0.0048	<0.0048	<0.024	<0.0048	<0.0048	<0.0048	<0.0048	4.9	54.5	--	<0.073	14.2	--	2.7	0.57	<0.45	<0.022	--	--	--
CRA 2015	SO-062175-051315-JS-SB-3-14'	5/13/2015	14	0.064	<0.0054	<0.0054	<0.0054	<0.027	<0.0054	<0.0054	<0.0054	<0.0054	6.8	88.8	--	0.11	20.9	--	5.2	0.97	<0.65	0.048	--	--	--
CRA 2015	SO-062175-051215-JS-SB-4-3'	5/12/2015	3	0.064	0.036	0.011	0.0070	<0.026	0.23	**1.2**	<0.0052	<0.0052	3.0	71.9	--	0.10	25.1	--	4.2	0.52	<0.45	0.023	--	--	--
CRA 2015	SO-062175-051315-JS-SB-4-5'	5/13/2015	5	<0.018	0.95	0.47	0.0068	<0.018	1.6	**0.034**	0.0098	<0.0037	3.8	62.0	--	0.11	30.5	--	3.6	0.56	<0.55	0.035	--	--	--
CRA 2015	SO-062175-051315-JS-SB-4-10'	5/13/2015	10	0.039	0.036	0.11	0.52	<0.023	<0.0046	<0.0046	<0.0046	<0.0046	3.7	52.3	--	<0.087	12.4	--	2.4	<0.54	<0.54	0.035	--	--	--
CRA 2015	SO-062175-051315-JS-SB-4-15'	5/13/2015	15	0.054	<0.0060	<0.0060	0.063	<0.030	<0.0060	<0.0060	<0.060	<0.0060	9.9	96.2	--	0.10	24.4	--	5.4	0.99	<0.61	0.059	--	--	--
CRA 2015	SO-062175-051215-JS-SB-5-3'	5/12/2015	3	0.83	0.0047	<0.0041	<0.0041	<0.021	0.014	**0.035**	<0.0041	<0.0041	2.8	63.2	--	0.79	24.5	--	4.9	<0.49	<0.49	0.027	--	--	--
CRA 2015	SO-062175-051315-JS-SB-5-5'	5/13/2015	5	0.6	0.038	0.017	0.012	<0.022	0.063	**0.053**	<0.0044	<0.0044	3.2	82.0	--	0.35	23.7	--	4.4	<0.52	<0.52	0.028	--	--	--
CRA 2015	SO-062175-051315-JS-SB-5-10'	5/13/2015	10	0.041	<0.0050	<0.0050	0.012	<0.025	<0.0050	<0.0050	<0.0050	<0.0050	4.3	62.7	--	<0.074	16.3	--	2.9	0.56	<0.46	<0.027	--	--	--
CRA 2015	SO-062175-051315-JS-SB-5-15'	5/13/2015	15	0.037	<0.0057	<0.0057	0.0071	<0.029	<0.0057	<0.0057	<0.0057	<0.0057	8.5	89.3	--	0.10	22.7	--	5.0	1.1	<0.51	0.069	--	--	--
CRA 2015	SO-062175-051215-JS-SB-6-0.5'	5/12/2015	0.5	0.028	<0.0044	<0.0044	<0.0044	<0.022	<0.0044	<0.0044	<0.0044	<0.0044	3.4	62.4	--	**3.0**	93.9	--	4.1	<0.44	<0.44	0.047	--	--	--
CRA 2015	SO-062175-051315-JS-SB-6-5'	5/13/2015	5	0.042	<0.0040	<0.0040	<0.0040	<0.020	<0.0040	<0.0040	<0.0040	<0.0040	4.6	78.5	--	0.13	37.8	--	4.4	0.69	<0.53	0.034	--	--	--
CRA 2015	SO-062175-051315-JS-SB-6-10'	5/13/2015	10	0.068	<0.0058	<0.0058	0.011	<0.029	<0.0058	<0.0058	<0.0058	<0.0058	4.4	58.8	--	<0.080	15.3	--	3.1	0.56	<0.50	0.043	--	--	--
CRA 2015	SO-062175-051215-JS-SB-6-13'	5/12/2015	13	0.11	<0.0060	<0.0060	0.055	<0.030	<0.0060	<0.0060	<0.0060	<0.0060	9.9	82.7	--	0.24	24.7	--	5.2	0.97	<0.56	0.042	--	--	--
CRA 2015	SO-062175-051215-JS-SB-7-2'	5/12/2015	2	0.037	<0.0039	<0.0039	<0.0039	<0.019	<0.0039	<0.0039	<0.0039	<0.0039	3.2	62.8	--	0.089	22.9	--	2.9	<0.56	<0.56	0.027	--	--	--
CRA 2015	SO-062175-051415-JS-SB-7-5'	5/14/2015	5	0.019	<0.0036	<0.0036	<0.0036	<0.018	<0.0036	<0.0036	<0.0036	<0.0036	4.9	69.6	--	0.10	34.0	--	3.8	0.69	<0.51	0.022	--	--	--
CRA 2015	SO-062175-051415-JS-SB-7-13'	5/14/2015	13	0.044	<0.0053	<0.0053	<0.0053	<0.026	<0.0053	<0.0053	<0.0053	<0.0053	6.9	76.4	--	0.12	22.8	--	4.6	0.88	<0.69	0.065	--	--	--
CRA 2015	SO-062175-051415-JS-SB-7-20'	5/14/2015	20	0.023	<0.0040	<0.0040	<0.0040	<0.020	<0.0040	<0.0040	<0.0040	<0.0040	2.1	39.6	--	<0.087	11.2	--	1.8	<0.55	<0.55	<0.022	--	--	--
CRA 2015	SO-062175-051415-JS-MW-9-5'	5/14/2015	5	0.072	<0.0040	<0.0040	<0.0040	<0.020	0.0061	<0.0040	<0.0040	<0.0040	4.4	462	--	**2.1**	132	--	9.6	0.59	<0.54	0.070	--	--	--
CRA 2015	SO-062175-051415-JS-MW-9-10'	5/14/2015	10	0.061	<0.0058	<0.0058	<0.0058	<0.029	<0.0058	<0.0058	<0.0058	<0.0058	10.6	88.8	--	0.29	23.7	--	6.1	1.2	<0.62	0.076	--	--	--
CRA 2015	SO-062175-051415-JS-MW-9-15'	5/14/2015	15	<0.024	<0.0048	<0.0048	<0.0048	<0.024	<0.48	<0.0048	<0.0048	<0.0048	2.4	46.3	--	<0.11	11.9	--	2.0	<0.67	<0.67	0.029	--	--	--
GHD 2016	***SO-062175-031516-SB-8-5'	3/15/2016	5	<1.15	4.10	3.90	0.364	<0.287	15.40	<0.0574	0.431	<0.0574	3.9	65.4	--	0.12	31.2	--	3.8	<0.55	<0.55	0.026	--	--	--
GHD 2016	***SO-062175-031516-SB-8-10'	3/15/2016	10	<1.29	<0.0645	0.161	0.922	<0.323	<0.0645	<0.0645	<0.0645	<0.0645	2.9	40.7	--	<0.076	10.6	--	2.1	<0.48	<0.48	<0.025	--	--	--
GHD 2016	SO-062175-031516-SB-8-15'	3/15/2016	15	<1.53	<0.0763	<0.0763	0.0927	<0.381	<0.0763	<0.0763	<0.0763	<0.0763	8.2	114	--	0.13	22.0	--	6.2	<0.72	<0.72	0.068	--	--	--
GHD 2016	***SO-062175-031516-SB-9-5'	3/15/2016	5	<1.120	0.363	1.520	0.434	<0.280	<0.0559	<0.0559	<0.0559	<0.0559	5.0	69.9	--	0.13	35.2	--	4.0	<0.45	<0.45	0.040	--	--	--
GHD 2016	***SO-062175-031516-SB-9-10'	3/15/2016	10	<1.330	<0.0667	<0.0667	0.241	<0.333	<0.0667	<0.0667	<0.0667	<0.0667	4.1	54.9	--	<0.096	13.3	--	2.8	<0.60	<0.60	0.026	--	--	--
GHD 2016	SO-062175-031516-SB-9-15'	3/15/2016	15	<1.420	<0.0710	<0.0710	0.136	<0.355	<0.0710	<0.0710	<0.0710	<0.0710	7.6	95.3	--	<0.10	20.1	--	5.5	<0.65	<0.65	0.056	--	--	--
GHD 2016	***SO-062175-031516-SB-10-5'	3/15/2016	5	<1.120	<0.0562	<0.0562	0.183	<0.281	<0.0562	**22.50**	<0.0562	<0.0562	3.7	56.5	--	0.10	26.8	--	3.6	<0.50	<0.50	<0.020	--	--	--
GHD 2016	***SO-062175-031516-SB-10-10'	3/15/2016	10	<1.370	<0.0685	<0.0685	0.247	<0.342	<0.0685	**0.193**	<0.0685	<0.0685	3.4	44.3	--	<0.088	17.4	--	2.4	<0.55	<0.55	<0.026	--	--	--
GHD 2016	SO-062175-031516-SB-10-15'	3/15/2016	15	<1.430	<0.0715	<0.0715	<0.0715	<0.357	<0.0715	<0.0715	<0.0715	<0.0715	6.2	76.4	--	<0.083	16.8	--	4.8	<0.52	<0.52	<0.025	--	--	--
GHD 2016	SO-062175-031516-SB-11-5'	3/15/2016	5	<1.120	<0.0561	<0.0561	<0.0561	<0.281	<0.0561	<0.0561	<0.0561	<0.0561	3.2	68.4	--	0.10	33.8	--	6.2	<0.47	<0.47	<0.020	--	--	--
GHD 2016	SO-062175-031516-SB-11-10'	3/15/2016	10	<1.400	<0.698	<0.698	<0.698	<0.349	<0.698	<0.698	<0.698	<0.698	3.6	37.2	--	<0.10	11.4	--	2.3	<0.65	<0.65	<0.027	--	--	--
GHD 2016	SO-062175-031516-SB-11-15'	3/15/2016	15	<1.490	<0.0743	<0.0743	<0.0743	<0.372	<0.0743	<0.0743	<0.0743	<0.0743	10.4	119	--	<0.11	24.2	--	7.1	<0.68	<0.68	0.054	--	--	--
GHD 2016	SO-062175-031516-SB-12-5'	3/15/2016	5	<1.150	<0.0574	<0.0574	<0.0574	<0.287	<0.0574	<0.0574	<0.0574	<0.0574	4.6	79.4	--	0.17	36.9	--	5.9	<0.52	<0.52	<0.021	--	--	--
GHD 2016	SO-062175-031516-SB-12-10'	3/15/2016	10	<1.290	<0.0644	<0.0644	<0.0644	<0.322	<0.0644	<0.0644	<0.0644	<0.0644	4.1	44.3	--	<0.073	14.8	--	2.5	<0.46	<0.46	<0.022	--	--	--
GHD 2016	SO-062175-031516-SB-12-15'	3/15/2016	15	<1.530	<0.0764	<0.0764	<0.0764	<0.382	<0.0764	<0.0764	<0.0764	<0.0764	8.6	107	--	0.12	21.7	--	6.4	<0.63	<0.63	0.065	--	--	--
GHD 2016	SO-062175-031516-SB-13-5'	3/15/2016	5	<1.120	<0.0561	<0.0561	<0.0561	<0.281	<0.0561	<0.0561	<0.0561	<0.0561	2.2	35.3	--	0.094	17.2	--	4.0	<0.45	<0.045	0.034	--	--	--
GHD 2016	SO-062175-031516-SB-13-10'	3/15/2016	10	<1.320	<0.0662	<0.0662	<0.0662	<0.331	<0.0662	<0.0662	<0.0662	<0.0662	6.8	65.4	--	0.20	15.1	--	11.5	<0.54	<0.54	0.054	--	--	--
GHD 2016	SO-062175-031516-SB-13-15'	3/15/2016	15	<1.460	<0.0732	<0.0732	<0.0732	<0.366	<0.0732	<0.0732	<0.0732	<0.0293	8.2	104	--	0.11	21.0	--	6.0	<0.60	<0.60	0.075	--	--	--
GHD 2017	SO-053117-BP-SB-14-5	5/31/2017	5	<0.0558	<0.0045	<0.0045	<0.0045	<0.0223	<0.0045	<0.0045	<0.0045	<0.0045	3.5	76.2	--	<0.17	37.3	--	3.8	<1.1	<0.57	0.042	--	--	--
GHD 2017	SO-053117-BP-SB-14-10	5/31/2017	10	0.0627	<0.0050	<0.0050	<0.0050	<0.0251	<0.0050	<0.0050	<0.0050	<0.0050	2.9	31.7	--	<0.19	12	--	1.8	<1.3	<0.64	0.025	--	--	--
GHD 2017	SO-053117-BP-SB-15-5	5/31/2017	5	<0.0553	<0.0044	<0.0044	<0.0044	<0.0221	<0.0044	<0.0044	<0.0044	<0.0044	3.6	62.1	--	<0.15	29.6	--	3.5	<1.0	<0.51	0.039	--	--	--
GHD 2017	SO-053117-BP-SB-15-10	5/31/2017	10	<0.0527	<0.0042	<0.0042	<0.0042	<0.0221	<0.0042	<0.0042	<0.0042	<0.0042	4.3	57.8	--	<0.21	14	--	3.2	<1.4	<0.69	0.048	--	--	--
GHD 2017	SO-053117-BP-SB-16-5	5/31/2017	5	<0.0446	<0.0036	<0.0036	<0.0036	<0.0178	<0.0036	<0.0036	<0.0036	<0.0036	2.8	50.5	--	<0.16	22.6	--	2.7	<1.1	<0.54	0.040	--	--	--
GHD 2017	SO-053117-BP-SB-16-10	5/31/2017	10	<0.0604	<0.0048	<0.0048	<0.0048	<0.0242	<0.0048	<0.0048	<0.0048	<0.0048	3.7	47.7	--	<0.19	13.5	--	2.1	<1.3	<0.64	<0.028	--	--	--
GHD 2017	SO-053117-BP-SB-17-5	5/31/2017	5	<0.0594	0.0582	0.0192	0.147	<0.0238	<0.0048	**11.4**	<0.0048	<0.0048	3.2	72.4	--	<0.16	24.6	--	3.3	<1.1	<0.53	0.034	--	--	--
GHD 2017	SO-053117-BP-SB-17-10	5/31/2017	10	<0.0635	<0.0051	<0.0051	<0.0051	<0.0254	<0.0051	<0.0051	<0.0051	<0.0051	3.3	50.5	--	<0.19	17	--	2.7	<1.3	<0.63	0.043	--	--	--
GHD 2018	062175-20180417-SO-BP-WSW-1	4/17/2018	5	--	3.7	0.0069	2.2	--	4.5	0.0041	0.0041	<0.0022	--	--	--	--	--	--	--	--	--	--	--	--	--
GHD 2018	062175-20180417-SO-BP-NSW-1	4/17/2018	5	--	0.011	0.052	0.0029	--	<0.0018	<0.0018	<0.0018	<0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--
GHD 2018	062175-20180418-SO-BP-SSW-1	4/18/2018	5	--	<0.0052	0.001	0.023	--	<0.0018	<0.0018	<0.0018	<0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1

Summary of Soil Analytical Data
Protective Coatings Facility
1215 2nd Avenue North and 1208 4th Avenue North
Kent, Washington

				VOCs									Metals											Other
Report Referenced	Sample ID	Sample Date	Sample Depth	Acetone	1,1-Dichloroethene	1,1-Dichloroethane	(cis) 1,2-Dichloroethene	2-Butanone	1,1,1-Trichloroethane	Trichloroethene	1,1,2-Trichloroethane	Vinyl Chloride	Arsenic	Barium	Berylium	Cadmium	Chromium	Copper	Lead	Selenium	Silver	Mercury	Nickel	Zinc	Total Cyanide
	MTCA Method C (industrial) Cleanup Levels			**3.15E+06**	**175000**	**700000**	**7000**	**NE**	**7.00E+06**	**0.03***	**2300**	**0.67**	**87.5**	**7.00E+05**	**7000**	**3500**	**1.05E+04**	**1.40E+05**	**NE**	**1.75E+04**	**1.75E+04**	**NE**	**NE**	**1.05E+06**	**2100**
				(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
GHD 2018	062175-20180418-SO-BP-BOT-1	4/18/2018	10	--	<0.0053	0.0026	0.15	--	<0.0021	<0.0021	<0.0021	<0.0021	--	--	--	--	--	--	--	--	--	--	--	--	--
GHD 2018	062175-20180419-SO-BP-BOT-2	4/19/2018	5	--	<0.0058	<0.0012	0.14	--	<0.0023	<0.0023	<0.0023	<0.0023	--	--	--	--	--	--	--	--	--	--	--	--	--
GHD 2018	062175-20180419-SO-BP-SSW-2	4/19/2018	5	--	0.88	0.068	0.044	--	<0.0017	**0.052**	<0.0017	<0.0017	--	--	--	--	--	--	--	--	--	--	--	--	--
GHD 2018	062175-20180419-SO-BP-ESW-1	4/19/2018	6	--	<0.0042	--	0.018	--	<0.0017	<0.0017	<0.0017	<0.0017	--	--	--	--	--	--	--	--	--	--	--	--	--
GHD 2018	062175-20180419-SO-BP-BOT-3	4/19/2018	10	--	<0.0057	<0.0011	<0.0034	--	<0.0023	<0.0023	<0.0023	<0.0023	--	--	--	--	--	--	--	--	--	--	--	--	--
GHD 2018	062175-20180420-SO-BP-ESW-2	4/20/2018	10	--	<0.0057	<0.0011	<0.0034	--	<0.0023	<0.0023	<0.0023	<0.0023	--	--	--	--	--	--	--	--	--	--	--	--	--
GHD 2018	062175-20180420-SO-BP-SSW-3	4/20/2018	5	--	<0.0047	0.001	<0.0028	--	<0.0019	<0.0019	<0.0019	<0.0019	--	--	--	--	--	--	--	--	--	--	--	--	--
GHD 2018	062175-20180420-SO-BP-BOT-4	4/20/2018	10.5	--	<0.0061	<0.0012	<0.0037	--	<0.0024	<0.0024	<0.0024	<0.0024	--	--	--	--	--	--	--	--	--	--	--	--	--
GHD 2018	062175-20180420-SO-BP-ESW-3	4/20/2018	5	--	<0.0050	<0.0010	<0.0030	--	<0.0020	<0.0020	<0.0020	<0.0020	--	--	--	--	--	--	--	--	--	--	--	--	--
GHD 2018	062175-20180420-SO-BP-NSW-2	4/20/2018	5	--	0.022	0.021	0.0088	--	<0.0019	**0.032**	<0.0019	<0.0019	--	--	--	--	--	--	--	--	--	--	--	--	--
GHD 2018	062175-20180420-SO-BP-WSW-2	4/20/2018	5	--	0.0097	0.027	0.014	--	<0.0018	**0.048**	<0.0018	<0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes
MTCA = Model Toxics Control Act
VOCs = Volatile organic compounds analyzed by EPA Method 8260B; see Analytical Resources Incorporated August 27, 2008 analytical report for full list of VOCs analyzed.
Metals analyzed by EPA Method 6010B, except for mercury which was analyzed by EPA Method 7471A; see Analytical Resources Incorporated August 27, 2008 analytical report for full list of metals analyzed.
Total cyanide analyzed by method SM4500CN-1
mg/kg = milligrams per kilogram
-- = Not analyzed
<x = Not detected above laboratory reporting limit x.
Bolded concentrations indicate the concentration value exceeded the Washington State Department of Ecology Model Toxics Control Act Method A cleanup levels.
NE = Not Established
N/A = Not Applicable or not provided
* Based on protection of drinking water for industrial land use
**MTCA Method A Cleanup Level for Industrial Properties
***Additional concentrations exceeded laboratory detection limits. For complete results, see analytical laboratory report.
A = CB-1 is a stormwater catch basin sediment sample
B = Concentration based on reanalysis of initial soil sample due to required dilution
All data prior to 2014 was obtained from Golder Associates *Phase II Environmental Site Assessment* report dated October 1, 2012.

Table 2

Summary of Groundwater Analytical Data
Hydrocarbons and Volatile Organic Compounds
Protective Coatings Facility
1215 2nd Avenue North and 1208 4th Avenue North
Kent, Washington

					Hydrocarbons			VOCs												
Sample ID	Date	TOC	DTW*	GWE	TPHg	TPHd	TPHo	Benzene	Toluene	Vinyl Chloride[1]	Chloroethane	Acetone	1,1-Dichloroethene	1,1-Dichloroethane	(trans) 1,2-Dichloroethene	(cis) 1,2-Dichloroethene	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	1,1,2-Trichloroethane
MTCA Method C Cleanup Level					**NA**	**NA**	**NA**	**70**	**17.5**	**2**	**NA**	**NA**	**875**	**76.8**	**350**	**35**	**NA**	**35,000**	**9.51**	**7.68**
Site-Specific Cleanup Level					**NA**	**NA**	**NA**	**NA**	**NA**	**2**	**NA**	**NA**	**400**	**76.8**	**100**	**35**	**NA**	**NA**	**NA**	**NA**
	Units	**ft**	**ft**	**ft**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
MW-1	8/12/2008	38.94	9.41	29.53	---	---	---	<0.2	<0.2	0.2	2	7.7	0.5	0.6	<0.2	1.6	<0.2	<0.2	<0.2	<0.2
MW-1	7/2/2012	38.94	8.48	30.46	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	7/17/2014	38.94	8.75	30.19	---	---	---	<0.50	<0.50	<0.20	1.2	<20.0	<0.50	<0.50	<0.50	1.4	<0.50	1.4	<0.40	<0.40
MW-1	10/7/2014	38.94	9.04	29.90	---	---	---	<0.50	<0.50	<0.20	<1.0	<20.0	<0.50	<0.50	<1.0	1.6	<0.50	<0.50	<0.40	<0.40
MW-1	1/13/2015	38.94	8.26	30.68	---	---	---	<0.50	<0.50	<0.20	<1.0	<20.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40
MW-1	6/1/2015	38.59	8.62	29.97	---	---	---	<0.50	<0.50	<0.20	1.1	<20.0	<0.50	<0.50	<0.50	1.5	<0.50	<0.50	<0.40	<0.40
MW-1	5/31/2018	38.59	8.57	30.02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	6/4/2018	38.59	8.70	29.89	---	---	---	---	---	<0.20	<1.0	<20.0	<1.0	<1.0	<1.0	2.7	<1.0	<1.0	<0.40	<1.0
MW-2	8/12/2008	38.71	8.82	29.89	---	---	---	<0.2	<0.2	<0.2	<0.2	<2.5	<0.2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MW-2 DUP	8/12/2008	38.71	8.82	29.89	---	---	---	<0.2	<0.2	<0.2	<0.2	3.7	<0.2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MW-2	7/2/2012	38.71	8.00	30.71	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	7/17/2014	38.71	8.20	30.51	---	---	---	<0.50	<0.50	<0.20	<1.0	<20.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40
MW-2	10/7/2014	38.71	8.53	30.18	---	---	---	<0.50	<0.50	<0.20	<1.0	<20.0	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.40	<0.40
MW-2	1/13/2015	38.71	7.71	31.00	---	---	---	<0.50	<0.50	<0.20	<1.0	<20.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40
MW-2 DUP	1/13/2015	38.71	7.71	31.00	---	---	---	<0.50	<0.50	<0.20	<1.0	<20.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40
MW-2	6/1/2015	38.27	7.11	31.16	---	---	---	<0.50	<0.50	<0.20	<1.0	<20.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40
MW-3	8/12/2008	38.68	9.41	29.27	---	---	---	0.3	4.1	**5.8**	87 c	7.3	120 c	**340 c**	34	**5,600 c**	1.0	4.9	3.9	0.8
MW-3	7/2/2012	38.68	8.48	30.20	<0.25	<0.50	<0.50	<0.2	0.37	1.8	17 a	5.5	20	**82 J**	12	**540 c**	0.7	0.58	0.27	0.75
MW-3	7/17/2014	38.68	8.94	29.74	---	---	---	<0.50	0.85	2.0	21.0	<20.0	36.5	**146**	17.7	**607**	1.6	<0.50	<0.40	<0.40
MW-3	10/7/2014	38.68	9.31	29.37	---	---	---	<5.0	<5.0	<2.0	27.8	<200	47.6	**174**	20.6	**879**	<5.0	<5.0	<4.0	<4.0
MW-3	1/13/2015	38.68	8.37	30.31	---	---	---	<2.5	<2.5	**2.9**	16.2	<100	32.6	**124**	18.6	**672**	<2.5	<2.5	<2.0	<2.0
MW-3	6/1/2015	38.61	8.89	29.72	---	---	---	<2.5	<2.5	2.0	15.0	<100	25.0	**98.4**	15.8	**488**	<2.5	<5.0	<2.0	<2.0
MW-3	Well MW-3 decomissioned																			
MW-3R	5/31/2018	NS	7.71	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-3R	6/4/2018	NS	8.20	---	---	---	---	---	---	0.50	<1.0	<20.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0		<1.0
MW-4	6/29/2012	36.63	6.41	30.22	<0.25	<0.50	<0.50	<0.2	<0.2	<0.2	<0.2	<5.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MW-4	7/17/2014	36.63	6.80	29.83	---	---	---	<0.50	<0.50	<0.40	<1.0	<20.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40
MW-4 DUP	7/17/2014	36.63	6.80	29.83	---	---	---	<0.50	<0.50	<0.40	<1.0	<20.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40
MW-4	10/7/2014	36.63	7.07	29.56	---	---	---	<0.50	<0.50	<0.20	<1.0	<20.0	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.40	<0.40
MW-4	1/13/2015	36.63	5.76	30.87	---	---	---	<0.50	<0.50	<0.20	<1.0	<20.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40
MW-4	6/1/2015	36.56	6.51	30.05	---	---	---	<0.50	<0.50	<0.20	<1.0	<20.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40
MW-5	6/29/2012	37.07	6.89	30.18	<0.25	<0.50	<0.50	<0.2	<0.2	0.32	<0.2	<5.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MW-5	7/17/2014	37.07	7.12	29.95	---	---	---	<0.50	<0.50	<0.40	<1.0	<20.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40
MW-5	10/7/2014	37.07	7.39	29.68	---	---	---	<0.50	<0.50	0.28	<1.0	<20.0	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.40	<0.40
MW-5	1/13/2015	37.07	6.35	30.72	---	---	---	<0.50	<0.50	0.39	<1.0	<20.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40
MW-5	6/1/2015	37.00	6.99	30.01	---	---	---	<0.50	<0.50	<0.20	<1.0	<20.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40
MW-6	6/29/2012	39.44	9.40	30.04	<0.25	<0.50	<0.50	<0.2	<0.2	<0.2	<0.2	6.7	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MW-6	7/17/2014	39.44	9.71	29.73	---	---	---	<0.50	<0.50	<0.40	<1.0	<20.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40
MW-6	10/7/2014	39.44	9.95	29.49	---	---	---	<0.50	<0.50	<0.20	<1.0	<20.0	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.40	<0.40
MW-6	1/13/2015	39.44	8.99	30.45	---	---	---	<0.50	<0.50	<0.20	<1.0	<20.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40
MW-6	6/1/2015	39.38	9.80	29.58	---	---	---	<0.50	<0.50	<0.40	<1.0	<20.0	<0.50	<0.50	<1.0	2.2	<0.50	<1.0	<0.40	<0.40
MW-6	5/31/2018	39.38	9.22	30.16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	6/4/2018	39.38	9.50	29.88	---	---	---	---	---	<0.20	<1.0	<20.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.40	<1.0
MW-7	6/29/2012	38.28	8.98	29.30	<0.25	<0.50	<0.50	<0.2	<0.2	<0.2	<0.2	<5.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MW-7	7/17/2014	38.28	9.14	29.14	---	---	---	<0.50	<0.50	<0.40	<1.0	<20.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40
MW-7	10/7/2014	38.28	9.15	29.13	---	---	---	<0.50	<0.50	<0.20	<1.0	<20.0	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.40	<0.40
MW-7	1/13/2015	38.28	8.35	29.93	---	---	---	<0.50	<0.50	<0.20	<1.0	<20.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40
MW-7	6/1/2015	38.21	8.99	29.22	---	---	---	<0.50	<0.50	<0.40	<1.0	<20.0	<0.50	<0.50	<1.0	0.72	<0.50	<1.0	<0.40	<0.40
MW-7	5/31/2018	38.21	8.81	29.40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	6/4/2018	38.21	9.02	29.19	---	---	---	---	---	<0.20	<1.0	<20.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.40	<1.0

Table 2

Summary of Groundwater Analytical Data
Hydrocarbons and Volatile Organic Compounds
Protective Coatings Facility
1215 2nd Avenue North and 1208 4th Avenue North
Kent, Washington

					Hydrocarbons			VOCs												
Sample ID	Date	TOC	DTW*	GWE	TPHg	TPHd	TPHo	Benzene	Toluene	Vinyl Chloride[1]	Chloroethane	Acetone	1,1-Dichloroethene	1,1-Dichloroethane	(trans) 1,2-Dichloroethene	(cis) 1,2-Dichloroethene	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene	1,1,2-Trichloroethane
MTCA Method C Cleanup Level					**NA**	**NA**	**NA**	**70**	**17.5**	**2**	**NA**	**NA**	**875**	**76.8**	**350**	**35**	**NA**	**35,000**	**9.51**	**7.68**
Site-Specific Cleanup Level					**NA**	**NA**	**NA**	**NA**	**NA**	**2**	**NA**	**NA**	**400**	**76.8**	**100**	**35**	**NA**	**NA**	**NA**	**NA**
	Units	**ft**	**ft**	**ft**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
MW-8	6/29/2012	39.06	9.80	29.26	<0.25	<0.50	<0.50	<0.2	<0.2	<0.2	<0.2	<5.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MW-8	7/17/2014	39.06	10.04	29.02	---	---	---	<0.50	<0.50	<0.40	<1.0	<20.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40
MW-8	10/7/2014	39.06	10.10	28.96	---	---	---	<0.50	<0.50	<0.20	<1.0	<20.0	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.40	<0.40
MW-8 DUP	10/7/2014	39.06	10.10	28.96	---	---	---	<0.50	<0.50	<0.20	<1.0	<20.0	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.40	<0.40
MW-8	1/13/2015	39.06	8.87	30.19	---	---	---	<0.50	<0.50	<0.20	<1.0	<20.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40
MW-8	6/1/2015	38.98	9.81	29.17	---	---	---	<0.50	<0.50	<0.40	<1.0	<20.0	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<0.40	<0.40
MW-9	5/28/2015	37.70	7.75	29.95	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9	6/1/2015	37.70	8.11	29.59	---	---	---	<0.50	<0.50	<0.20	<1.0	<20.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40
MW-9 DUP	6/1/2015	37.70	8.11	29.59	---	---	---	<0.50	<0.50	<0.20	<1.0	<20.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40
MW-9	5/31/2018	37.70	7.69	30.01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9	6/4/2018	37.70	8.00	29.70	---	---	---	---	---	0.44	<1.0	<20.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.40	<1.0

Abbreviations and Notes:
DTW = Depth to Water in feet
GWE = Groundwater Elevation
TOC = Top of Casing
TPHg = Total petroleum hydrocarbons as gasoline range organics analyzed by HCID Method
TPHd = Total petroleum hydrocarbons as diesel range organics analyzed by HCID Method
TPHo = Total petroleum hydrocarbons as heavy oil range organics analyzed by HCID Method
VOC = Volatile Organic Compounds analyzed by EPA Method 8260 (See analytical laboratory reports for a complete list of VOCs)
EDC=1,2-Dichloroethane
ug/L = Micrograms per liter
NE = Not established
NA = Not applicable
NS = Not Surveyed
---- = Not analyzed
<*n* = Below laboratory detection limit of *n* ug/L
MTCA = Model Toxics Control Act Cleanup Regulations [WAC 173-340-720(2)(a)(1), as amended February 2001]
[1] The MTCA Method C cleanup level is based on direct contact with groundwater and includes potential exposure to children via pregnant women. This scenario is highly unlikely given the current Property use and zoning. Therefore, the cleanup level shown is the Federal maximum contaminant level (MCL) established by the Environmental Protection Agency
*The DTW data from 2008 and 2012 was calculated by subtracting the given GWE from the calculated TOC data. DTW was not provided in the previous consultant's report.
All data prior to 2014 collected by Golder Associates, Inc. (Golder) and provided in Golder's *Phase II Environmental Site Assessment* report dated October 1, 2012.
Data values in **bold** indicate that the concentration exceeds the MTCA Method C cleanup level

a = Surrogate recovery is outside control limits
b = Detection based on dilution of initial sample
J = Estimated

Table 3

Summary of Groundwater Analytical Data
Metals and General Chemistry
Protective Coatings Facility
1215 2nd Avenue North and 1208 4th Avenue North
Kent, Washington

		Metals							General Chemistry		
Sample ID	**Date**	**Arsenic (total)**	**Arsenic (dissolved)**	**Cadmium (total)**	**Cadmium (dissolved)**	**Chromium III (total)**	**Chromium III (dissolved)**	**Chromium VI (hexavalent)**	**Cyanide**	**N-Nitrate**	**N-Nitrite**
Site-specific Cleanup Level [1]		**10**	**10**	**17.5**	**17.5**	**52,500**	**52,500**	**105**	**NA**	**NA**	**NA**
	Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug-N/L**	**ug-N/L**
MW-1	8/12/2008	**121**	---	---	---	5	---	<11	<5	<100	---
MW-1	7/2/2012	---	---	---	---	---	---	---	---	---	---
MW-1	7/17/2014	**159**	**46.9**	0.34	<0.080	8.1	5.1	<5,000	---	---	---
MW-1	10/7/2014	**137**	**90.8**	0.092	<0.080	7.1	6.4	<0.10	---	---	---
MW-1	1/13/2015	**37.3**	**17.6**	<0.080	<0.080	2.9	3.5	<50	---	---	---
MW-1	6/1/2015	---	**83.9**	---	<0.080	---	5.6	---	---	---	---
MW-1	6/4/2018	---	<20.0	---	---	---	---	---	---	---	---
MW-2	8/12/2008	**149**	---	---	---	5	---	<11	<5	<100	---
MW-2 DUP	8/12/2008	**154**	---	---	---	5	---	<11	<5	<100	---
MW-2	7/2/2012	--	---	---	---	---	---	---	---	---	---
MW-2	7/17/2014	**116**	**22.7**	<0.080	<0.080	3.4	1.6	<1,000	---	---	---
MW-2	10/7/2014	**143**	**67.9**	<0.080	<0.080	3.2	2.6	<0.10	---	---	---
MW-2	1/13/2015	**118**	**20.3**	0.11	<0.080	3.4	1.6	<50	---	---	---
MW-2 DUP	1/13/2015	**121**	**19.0**	0.091	<0.080	3.6	1.6	<50	---	---	---
MW-2	6/1/2015	---	**34.9**	---	<0.080	---	1.7	---	---	---	---
MW-3	8/12/2008	**138**	---	---	---	---	---	<11	<5	<100	---
MW-3	7/2/2012	**115**	**120**	---	<0.1	5.2	---	14	<5	<50	<50
MW-3	7/17/2014	**168**	**42.4**	0.086	<0.080	6.8	3.9	<500	---	---	---
MW-3	10/7/2014	**163**	**85.8**	0.091	<0.080	7.5	4.8	<0.10	---	---	---
MW-3	1/13/2015	**151**	**29.0**	0.23	<0.080	10.2	3.8	<50	---	---	---
MW-3	6/1/2015	---	**69.9**	---	<0.080	---	4.4	---	---	---	---
MW-3		Well MW-3 Decommissioned									
MW-3R	6/4/2018	---	**21.8**	---	---	---	---	---	---	---	---
MW-4	6/29/2012	**33.7**	**31**	---	<0.1	1.0	---	<10	<5	<50	<50
MW-4	7/17/2014	**74.7**	8.9	<0.080	<0.080	1.2	<0.50	<500	---	---	---
MW-4 DUP	7/17/2014	**78.5**	**23.6**	<0.080	<0.080	1.2	0.59	<100	---	---	---
MW-4	10/7/2014	**156**	**67.1**	<0.080	<0.080	1.8	0.69	<0.10	---	---	---
MW-4	1/13/2015	**103**	**20.2**	<0.080	<0.080	1.5	0.67	<50	---	---	---
MW-4	6/1/2015	---	**28.9**	---	<0.080	---	0.79	---	---	---	---
MW-5	6/29/2012	**27.5**	**28.9**	---	<0.1	1.6	---	<10	<5	52	<50
MW-5	7/17/2014	**32.8**	3.1	<0.080	<0.080	2.1	1.1	<500	---	---	---
MW-5	10/7/2014	**68.7**	**29.4**	<0.080	<0.080	2.1	1.5	<0.10	---	---	---
MW-5	1/13/2015	**59.1**	**11.7**	<0.080	<0.080	2.5	1.1	<50	---	---	---
MW-5	6/1/2015	---	**11.8**	---	<0.080	---	1.5	---	---	---	---
MW-6	6/29/2012	**179**	**178**	---	<0.1	4.3	---	<10	<5	<50	<50
MW-6	7/17/2014	**190**	**29.5**	<0.080	<0.080	5.4	2.9	<500	---	---	---
MW-6	10/7/2014	**189**	**136**	<0.080	<0.080	4.4	3.9	<0.10	---	---	---
MW-6	1/13/2015	**177**	**31.1**	<0.080	<0.080	5.8	3.3	<50	---	---	---

Table 3

Summary of Groundwater Analytical Data
Metals and General Chemistry
Protective Coatings Facility
1215 2nd Avenue North and 1208 4th Avenue North
Kent, Washington

		Metals							General Chemistry		
Sample ID	**Date**	**Arsenic (total)**	**Arsenic (dissolved)**	**Cadmium (total)**	**Cadmium (dissolved)**	**Chromium III (total)**	**Chromium III (dissolved)**	**Chromium VI (hexavalent)**	**Cyanide**	**N-Nitrate**	**N-Nitrite**
Site-specific Cleanup Level [1]		**10**	**10**	**17.5**	**17.5**	**52,500**	**52,500**	**105**	**NA**	**NA**	**NA**
	Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug-N/L**	**ug-N/L**
MW-6	6/1/2015	---	**89.6**	---	<0.080	---	4.0	---	---	---	---
MW-6	6/4/2018	---	**32.2**	---	---	---	---	---	---	---	---
MW-7	6/29/2012	**92.7**	**92**	---	<0.1	1.6	---	<10	<5	<50	<50
MW-7	7/17/2014	**134**	**13.5**	<0.080	<0.080	2.8	3.3	<500	---	---	---
MW-7	10/7/2014	**136**	**109**	<0.080	<0.080	2.1	1.8	<0.10	---	---	---
MW-7	1/13/2015	**121**	**31.2**	<0.080	<0.080	2.1	1.2	<50	---	---	---
MW-7	6/1/2015	---	**41.9**	---	<0.080	---	1.5	---	---	---	---
MW-7	6/4/2018	---	<20.0	---	---	---	---	---	---	---	---
MW-8	6/29/2012	**115**	**145**	---	<0.1	4.1	---	19	<5	<50	<50
MW-8	7/17/2014	**173**	**10.8**	<0.080	<0.080	5.9	2.5	<500	---	---	---
MW-8	10/7/2014	**212**	**185**	<0.080	<0.080	5.4	4.9	<0.10	---	---	---
MW-8 DUP	10/7/2014	**221**	**161**	<0.080	<0.080	5.6	4.9	<0.10	---	---	---
MW-8	1/13/2015	**182**	**23.3**	<0.080	<0.080	5.8	3.1	<50	---	---	---
MW-8	6/1/2015	---	**47.8**	---	<0.080	---	3.6	---	---	---	---
MW-9	5/28/2015	---	---	---	---	---	---	---	---	---	---
MW-9	6/1/2015	---	**59.2**	---	<0.080	---	3.4	---	---	---	---
MW-9 DUP	6/1/2015	---	**51.6**	---	<0.080	---	3.1	---	---	---	---
MW-9	6/4/2018	---	<20.0	---	---	---	---	---	---	---	---

Abbreviations and Notes:
ug/L = Micrograms per liter
ug-N/L = Micrograms of atomic Nitrogen per liter
NE = Not established
---- = Not analyzed
<*n* = Below laboratory detection limit of *n* ug/L
Arsenic, Cadmium, and chromium (total and dissolved) analyzed by method 200.8 prior to 2014 and by EPA Method 6020A after 2014; hexavalent chromium analyzed by method S
Cyanide analyzed by method SM4500CN-I; N-Nitrate and N-Nitrite analyzed by EPA Method 353.2.
MTCA = Model Toxics Control Act Cleanup Regulations [WAC 173-340-720(2)(a)(1), as amended February 2001]
[1] The cleanup levels in the table are from the following standards: Federal Maximum Contaminant Levels (MCLs) from US Environmental Protection Agency, and MTCA Method C c
All data prior to 2014 collected by Golder Associates, Inc. (Golder) and provided in Golder's *Phase II Environmental Site Assessment* report dated October 1, 2012.
Data values in **bold** indicate that the concentration exceeded the MTCA Method C cleanup level

a = Surrogate recovery is outside control limits

Appendices

Appendix A
Chronological Summary of Environmental Work

Appendix A Summary of Previous Investigations

2004 Investigation

In 2004, Krazan & Associates (Krazan) completed a subsurface investigation on the Property. The scope of work completed was unavailable to GHD. However, the results of the investigation, as reported by Golder and Associates (Golder) in 2012, indicate that cadmium exceeded the Model Toxics Control Act (MTCA) unrestricted land use cleanup levels in a soil sample collected northwest of the wastewater treatment plant. Arsenic was detected in all groundwater samples at concentrations ranging from 0.035 to 0.17 milligram per liter (mg/L), which exceeded the MTCA unrestricted land use cleanup level of 0.005 mg/L. Chromium was also detected above the MTCA unrestricted land use cleanup level in one groundwater sample.

2008 Investigation

In 2008, Golder conducted an initial Phase II Environmental Site Assessment (ESA). Three groundwater monitoring wells (MW-1, MW-2, and MW-3) were installed at the northwest corner of the Property. Soil samples were collected from each boring and submitted for laboratory analysis. Soil samples collected from boring MW-3 at depths ranging from approximately 1 to 3 feet below ground surface (bgs) exceeded the MTCA unrestricted land use cleanup level for trichloroethene (TCE). A hand auger boring (HA-1) was advanced in an area where a TCE solvent tank was formerly located. Laboratory analysis of a soil sample collected from 0.5 foot bgs exceeded the MTCA unrestricted land use cleanup level for cadmium. A sediment sample from a storm catch basin sump (CB-1) located near the northwest corner of the Property was also collected for analysis. The sample exceeded the MTCA unrestricted land use cleanup levels for TCE and cadmium. Groundwater samples were collected from each of the three monitoring wells. Concentrations of vinyl chloride and (cis) 1,2-dichloroethene ((cis) 1,2-DCE) exceeded the MTCA unrestricted land use cleanup levels in well MW-3.

In addition, Golder performed field infiltration testing within the plating area. In the plating area, multiple gravity-fed trenches discharge process wastewater generated from operations into a central sump. The process wastewater is routed from the trenches into the sump and eventually to the wastewater treatment facility. The objective of the testing was to determine if potential releases within the sump had the potential to impact groundwater. The results of the test indicated that there is a potential leakage of less than 4 gallons per day (Golder, *Phase II Environmental Site Assessment*, October 1, 2012).

2012 Investigation

In August 2012, Golder performed a facility audit and learned that the original gravity-fed trench system in the production area (tested in 2008) had been replaced with an active pump system. This system upgrade reportedly included re-sealing all of the collection /drainage trenches. The pumps were designed to remove fluids from the trenches when a pre-set volume is reached. Fluids within the trench are pumped to the on-Property wastewater treatment system for processing before being discharged into the King County sanitary sewer system under permit.

In 2012, Golder conducted a Phase II ESA. Five groundwater monitoring wells (MW-4 through MW-8) were installed at the northeast corner of the Property and in the western portion of the Property. Soil samples were not collected for laboratory analyses. In addition, Golder attempted to collect subsurface soil gas samples from four locations (SG-1 through SG-4) during three field events. Three successful samples were collected for analyses (SG-2, SG-3, and SG-4). TCE was identified as the highest of all compounds detected in subsurface samples at locations SG-2 and SG-4. The TCE concentrations exceeded the applicable soil gas screening levels indicating a potential for an elevated risk of vapor

intrusion into the 1208 4th Avenue North building. Following the results of the subsurface soil gas sampling, Golder collected indoor and exterior ambient air samples within the 1208 4th Avenue North buildings during facility operations and after hours over an 8-hour period. TCE was detected in all ambient air samples; however, Golder concluded that the contaminant detections in ambient air samples were likely not derived from soil gas, but were resulting from facility operations. Further discussion of soil gas and indoor air is included in Section 4.6.

2015 Investigation

In May 2015, GHD conducted a soil and groundwater investigation to delineate the vertical and lateral extent of volatile organic compounds (VOCs) and metal (cadmium) contamination in soil in the vicinity of HA-1, MW-3, CB-1, SG-2, SG-3, and SG-4, and to delineate the lateral extent of groundwater impacts beyond well MW-3. GHD advanced eight soil borings (SB-1 through SB-7 and MW-9) using a combination of air knife/ vacuum, direct push, and hollow-stem auger drilling to depths between 16.5 and 30 feet bgs. No soil concentrations exceeded MTCA Method C cleanup levels. The boring logs and well construction details are presented in Appendix A. Soil boring locations are presented on Figure 4.

2017 Investigation

In May 2017, GHD conducted a soil investigation to delineate the lateral extent of VOC contamination in soil within the proposed soil excavation area. GHD advanced four soil borings (SB-14 through SB-17) using a combination of air knife/ vacuum and direct push drilling to a depth of 10 feet bgs. TCE was detected in SB-17 at 5 feet bgs. The sample collected at 10 feet bgs from SB-17 did not contain any concentrations exceeding MTCA Method C cleanup levels. The boring logs and well construction details are presented in Appendix B. Soil boring locations are presented on Figure 3.

Appendix B
Excavated Soil Disposal Documentation

Daily Transactions - All

(((Trans.DateOut BETWEEN '2018-04-01' AND '2018-04-30')
AND (Trans.Void = 0)
AND (Trans.BillAcct LIKE '8130%')))

TranNum	DateIn	Truck	BillAcct	BillCompany	MT	MTLabel	GrossS	TareS	NetS	GrossSTN	TareSTN	NetSTN
518389	04/17/2018	DIETRICH 8525	8130	CLEARCREEK CONTRACTORS INC	5404	PCS - 5	107,060.00	41,000.00	66,060.00	53.53	20.50	33.03
518394	04/17/2018	CLEARCREEK 43	8130	CLEARCREEK CONTRACTORS INC	5404	PCS - 5	104,920.00	41,600.00	63,320.00	52.46	20.80	31.66
518459	04/18/2018	DIETRICH 8525	8130	CLEARCREEK CONTRACTORS INC	5404	PCS - 5	105,260.00	40,920.00	64,340.00	52.63	20.46	32.17
518470	04/18/2018	CLEAR CREEK 43	8130	CLEARCREEK CONTRACTORS INC	5404	PCS - 5	93,480.00	41,740.00	51,740.00	46.74	20.87	25.87
518487	04/18/2018	DIETRICH 8535	8130	CLEARCREEK CONTRACTORS INC	5404	PCS - 5	102,220.00	39,900.00	62,320.00	51.11	19.95	31.16
518554	04/19/2018	CLEARCREEK 8525	8130	CLEARCREEK CONTRACTORS INC	5404	PCS - 5	107,560.00	40,740.00	66,820.00	53.78	20.37	33.41
518563	04/19/2018	CLEARCREEK 43	8130	CLEARCREEK CONTRACTORS INC	5404	PCS - 5	111,740.00	41,620.00	70,120.00	55.87	20.81	35.06
518568	04/19/2018	DIETRICH 8532	8130	CLEARCREEK CONTRACTORS INC	5404	PCS - 5	104,160.00	42,260.00	61,900.00	52.08	21.13	30.95
518627	04/20/2018	DIETRICH 8525	8130	CLEARCREEK CONTRACTORS INC	5404	PCS - 5	103,200.00	40,760.00	62,440.00	51.60	20.38	31.22
518642	04/20/2018	DIETRICH 8532	8130	CLEARCREEK CONTRACTORS INC	5404	PCS - 5	86,580.00	41,980.00	44,600.00	43.29	20.99	22.30
Grand Summaries												
Count = 10												Sum = 306.83

KANGLEY ROCK & RECYCLING

ACCOUNTING: 9125 TENTH AVENUE SOUTH
SEATTLE, WA 98108 • (206) 762-2566

A DIVISION OF GARY MERLINO CONSTRUCTION COMPANY, INC.

Kangley Rock & Recycling Locations

KANGLEY PIT (Plant # 21)
32500 SE Kent-Kangley Rd., Ravensdale, WA 98051
BLACK RIVER (Plant # 22) - (206) 658-0912
510 Monster Rd. Renton, WA 98055
LAKE FRANCIS (Plant # 23) - (206) 658-0872
22501 SE Lake Francis Rd. Maple Valley, WA 98038
Cedar Mountain Reclamation
17877 Cedar Grove Rd. SE, Maple Valley, WA 98038
Plant #20 - (206) 658-0913

DELIVERY TICKET

ACCOUNTING	(206) 762-2566
FAX	(206) 762-2358
SALES & ORDER DESK	(425) 226-1000

MAP LOCATE	LEAVE PLANT	ARRIVE JOB	LEAVE JOB	ARRIVE PLANT
			217105	

DATE	CUSTOMER NO.	ORDER NO.	PROJECT	PLANT #
04/23/2018	173321	576722		22

CUSTOMER NAME: CLEARCREEK CONTRACTORS INC

CUSTOMER P.O.	JOB NO.	DELIVERY TICKET NO.
1215	000051	854766

JOB ADDRESS: 1215 2ND AVE

KENT

SPRINGBROOK

COLLECT ON DELIVERY (C.O.D.)

☐ CASH ☐ CHECK # _____ ☐ CHARGE

CARD # _____ EXP. ___/___

☐ VISA ☐ MASTERCARD ☐ DISCOVER

QUANTITY	U.M.	PRODUCT CODE	DESCRIPTION	TONS	TOTAL TONS	UNIT PRICE	AMOUNT
31.62	TN	65016WA	2-4 QRY SPLS B-344	31.62	31.62		
31.62	TN	70015	ENVIRONMENTAL SURCHARGE	31.62			

REQ

Gross 104640.00 Tare 41400.00 Net 63240.00

DRIVER	TRUCK NO.	ORDERED BY	
	TMP5839		
DISPATCHER	TAX CODE	TIME DUE	
	WA 1	7:24	

REMIT PAYMENT TO:
9125 TENTH AVE S
SEATTLE, WA 98108
TERMS ON REVERSE

SUB-TOTAL
SALES TAX
BALANCE FORWARD
TOTAL AMOUNT

RELEASE — CUSTOMER RELEASES AND AGREES TO HOLD HARMLESS **KANGLEY ROCK & RECYCLING**, A DIVISION OF GARY MERLINO CONSTRUCTION COMPANY, INC. FOR ANY DAMAGE TO HIS REAL OR PERSONAL PROPERTY CAUSED BY DELIVERY OF MATERIALS LISTED ABOVE. DETAILS ON REVERSE.

CUSTOMER SIGNATURE RAY

PRINT NAME _____ DATE _____

REV 04-2009

CUSTOMER COPY

KANGLEY ROCK & RECYCLING

ACCOUNTING: 9125 TENTH AVENUE SOUTH
SEATTLE, WA 98108 • (206) 762-2566

A DIVISION OF GARY MERLINO CONSTRUCTION COMPANY, INC.

Kangley Rock & Recycling Locations
KANGLEY PIT (Plant # 21)
32500 SE Kent-Kangley Rd., Ravensdale, WA 98051
BLACK RIVER (Plant # 22) - (206) 658-0912
510 Monster Rd. Renton, WA 98055
LAKE FRANCIS (Plant # 23) - (206) 658-0872
22501 SE Lake Francis Rd. Maple Valley, WA 98038
Cedar Mountain Reclamation
17877 Cedar Grove Rd. SE, Maple Valley, WA 98038
Plant #20 - (206) 658-0913

DELIVERY TICKET

ACCOUNTING	(206) 762-2566
FAX	(206) 762-2358
SALES & ORDER DESK	(425) 226-1000

MAP LOCATE	LEAVE PLANT	ARRIVE JOB	LEAVE JOB	ARRIVE PLANT
			217105	

DATE	CUSTOMER NO.	ORDER NO.	PROJECT	PLANT #
04/25/2018	173321	577132		22

CUSTOMER NAME	CUSTOMER P.O.	JOB NO.	DELIVERY TICKET NO.
CLEARCREEK CONTRACTORS INC	217105	400100	856095

JOB ADDRESS
1215 2ND AVE N
KENT

SPECIAL INSTRUCTIONS
5YD DUMP TRUCK

COLLECT ON DELIVERY (C.O.D.)
☐ CASH ☐ CHECK # ______ ☐ CHARGE
CARD # ______ EXP. __/__
☐ VISA ☐ MASTERCARD ☐ DISCOVER

QUANTITY	U.M.	PRODUCT CODE	DESCRIPTION	TONS	TOTAL TONS	UNIT PRICE	AMOUNT
1.00	LD	91010M	DUMP FEE - CLEAN CONCRETE	1.00	1.00		
Gross	1.00		Tare 1.00		Net	0.00	

JW

DRIVER	TRUCK NO.	ORDERED BY	REMIT PAYMENT TO	SUB TOTAL	
	TMPCC48		9125 10th AVE S		
DISPATCHER	TAX CODE	TIME DUE	SEATTLE, WA	SALES TAX	
	WA 1	13:02	TERMS ON REVERSE		

RELEASE — CUSTOMER RELEASES AND AGREES TO HOLD HARMLESS **KANGLEY ROCK & RECYCLING**, A DIVISION OF GARY MERLINO CONSTRUCTION COMPANY, INC. FOR ANY DAMAGE TO HIS REAL OR PERSONAL PROPERTY CAUSED BY DELIVERY OF MATERIALS LISTED ABOVE. DETAILS ON REVERSE.

BALANCE FORWARD

CUSTOMER SIGNATURE ______

PRINT NAME Jacob Wollman DATE 4-25-18

TOTAL AMOUNT

REV 04-2009

CUSTOMER COPY

CALPORTLAND

Sales/Delivery Ticket

ADMIN Office: (800) 750-0123
PO Box 1730 Seattle, WA 98111

TICKET#: 1841352

Leave Plant	13:40
Arrive Job	14:10
Start Pour	14:15
Finish Pour	14:50
Finish Wash	15:00
Leave Job	15:00
Arrive Plant	
Time Allowed	
Time Used	
Excess Time	

Warning: Irritation to Skin and Eyes

This product contains Portland Cement. Freshly mixed cement, mortar, grout or concrete may cause skin irritation and/or allergic reaction. Do not use without protective gear and clothing. Avoid any contact with skin. Wash exposed areas immediately with water. If cementitious materials get into the eye, rinse immediately and repeatedly with water and get prompt medical attention.

Keep Away From Children

WEIGHMASTER CERTIFICATE

California Only

THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose signature is on this certificate who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Weighmaster:

Water added at customers request		Rev Counter on Load:
	Slump on arrival	
	Gals to full load	Test Cylinders Taken:
	Gals to 2/3 load	
	Gals to 1/3 load	

This concrete is designed in accordance to American Concrete Institute Standards. Any water added to this design will be at purchasers risk. Materials hereby sold become property of purchaser at time of origin. Calportland is not responsible for damages to property in the event that delivery is beyond curb line. Seller is not responsible for popouts or other imperfections resulting from reactive aggregates.

Reasons for Delay Time
- Job not ready
- Lack of Help
- Wheel Barrow Job
- Equipment Problems
- Other

Date/Time:	Superplasticer Amt Added	Cust. Proj#:	Ordered By:	Phone #:	
4/26/2018 1:20 PM		32303	PAUL		

Customer: 1003395	Order Type:	PO Number:	Driver Name:	Truck #:	Order #:
CLEARCREEK CONTRACTORSINC	Charge	217105	MARK HISLOP	7691	138

Scheduled Arrival:	Slump:	Load#:	Prev. Truck #:	Qty This Load:	Qty Delivered:	Qty Ordered:	Plant:	Alley:	Truck License #:
2:10:00 PM	4.00	1		8.00	8.00	8.00	291		

Delivery Address: 1.5 YARDS RETAIN
1215 2ND AVE N
KENT, WA

Ticket Notes: SLAB/CHUTE

Quantity	UOM	Product Code	Product Description	Unit Price	Amount	
8.00	yd	3110	5.0 SK 3/4" AEA (45/55)			
8.00	CY	9990	ENV FEE			
1.00	CY	9960	SHORT LOAD FEE			
1.00	LD	9900	FUEL SURCHARGE			

Sales Tax:	Ticket Total:	Balance Forward:	Standing Time:	Order Total:

```
Truck      Driver    User     Disp Ticket Num   Ticket ID   Time  Date
7691       0907      DGILL    1841352           184583      13:20 4/26/18
Load Size  Mix Code     Returned     Qty       Mix Age     Seq   Load ID
8.00 CY    3110                                            W     184581
Material  Description      Design Qty  Required   Batched   % Var   % Moisture  Actual Wat
BLD SAND  CLASS 2          1419 lb     11930 lb   11900 lb  -0.00%  5.09% A     69 gl
AGG 3/4   AASHTO#57        1840 lb     14732 lb   14680 lb  -0.35%  0.00% M     1 gl
T I-II    CERT lot # 17-226 470 lb     3760 lb    3745 lb   -0.40%
AEA       DARVAIR1000      3.0 oz      24.0 oz    24.0 oz   0.00%
WATER     BATC 01          250.0 lb    1184.6 lb  1180.0 lb -0.39%              141.4 gl
Actual    Num Batches: 2
Load Total: 31527 lb   Design 0.540 Water/Cement 0.473 A   Design 247.3 gl   Actual 212.0 gl   To Add: 35.3 gl
Slump: 4.00 in   Water in Truck: 0.0 lb   Adjust Water: 0.0 / Load   Trim Water: -36.0 lb/ CY
```

I have read, understood and I agree to all the above, including the Terms and Conditions on the reverse of, or accompanying this document, and incorporated by reference.

DL-04 A1011934 Signature ______________________ CUSTOMER

DIETRICH TRUCKING, LLC

7211-A NE 43rd Ave.
VANCOUVER, WASHINGTON 98661
(360) 892-3881
Fax (360) 883-1898

186068

Customer's Order No. 186~~056~~	Phone	Date 4-19-18
Sold To	Clear Creek Construction	
Address	1215 2nd Ave	
City	Kent, WA	

Driver	Jason W Knoll	Truck & Trailer	525-8925

Qty.	Description	Price	Amount	
33.41	Tons of Contaminated Soils			
	Ticket # 518554			
	To. Cowlitz County Landfill			
	Kelso, WA			
	>			
	Not Responsible for Damage Behind Curb Line			

All claims and returned goods MUST be accompanied by this bill.	Tax		
Rec'd By	Total		

248115 / 4055211

172044

Thank You

DIETRICH TRUCKING, LLC

7211-A NE 43rd Ave.
VANCOUVER, WASHINGTON 98661
(360) 892-3881
Fax (360) 883-1898

Customer's Order No.	Phone	Date
156068		4/19/18

Sold To: Clear Creek

Address:

City:

Driver: Leon Sumner

Truck & Trailer: 8532 8'9 11

Qty.	Description	Price	Amount	
30.95	518568			
	DIRT FROM HENRY TO COWLITZ COUNTY			
	>			
	Not Responsible for Damage Behind Curb Line			
	All claims and returned goods MUST be accompanied by this bill.	Tax		
	Rec'd By	Total		

248115 / 4055211

176685

Thank You

DIETRICH TRUCKING, LLC
7211-A NE 43rd Ave.
VANCOUVER, WASHINGTON 98661
(360) 892-3881
Fax (360) 883-1898

Customer's Order No. 186008	Phone	Date 4/18/18
Sold To CLEAR CREEK CONTRACTORS		
Address PROTECTIVE COATINGS		
City KENT, WA		

Driver: RONENBERG JR — Truck & Trailer: 8335 8405

Qty.	Description	Price	Amount	
	HAUL DIRT TO			
	COWLITZ COUNTY			
	#518487 31.16 TONS			
	530-145 8.25			
	>			
	Not Responsible for Damage Behind Curb Line			

All claims and returned goods MUST be accompanied by this bill.	Tax		
Rec'd By	Total		

248115 / 4055211

166103

Thank You

DIETRICH TRUCKING, LLC

7211-A NE 43rd Ave.
VANCOUVER, WASHINGTON 98661
(360) 892-3881
Fax (360) 883-1898

Customer's Order No. 186060	Phone	Date 4-18-18
Sold To Clear Creek Construction		
Address 1215 2nd Ave		
City Kent, WA		

Driver Jason W. Knoll	Truck & Trailer 525-925

Qty.	Description	Price	Amount	
32.17	Tons of Contaminated Soils			
	Ticket # 518459			
	515-100 7.75 hours			
	To Cowlitz County Landfill			
	Kelso, WA			
	>			
	Not Responsible for Damage Behind Curb Line			

All claims and returned goods MUST be accompanied by this bill.	Tax		
Rec'd By	Total		

248115 / 4055211

172043

Thank You

DIETRICH TRUCKING, LLC

7211-A NE 43rd Ave.
VANCOUVER, WASHINGTON 98661
(360) 892-3881
Fax (360) 883-1898

Customer's Order No.	Phone	Date
	206-423-9967	4-17-18

Sold To: Clear Creek Construction
Address: 1215 2nd Ave
City: Kent, WA

Protective Coatings

Driver: Jason W. Knoll
Truck & Trailer: 8525-F925

Qty.	Description	Price	Amount
33.03	Tons of Contaminated Dirt.		
	Ticket # 518329		
	~~9.15~~ - 12.45 ~~7.50~~		
	To: Cowlitz County Landfill		
	Kelso, WA		
	>		
	Not Responsible for Damage Behind Curb Line		

All claims and returned goods MUST be accompanied by this bill.

Rec'd By

Tax		
Total		

248115 / 4055211

172042

Thank You

COWLITZ COUNTY DEPARTMENT OF PUBLIC WORKS
1600 13TH AVENUE SOUTH * KELSO, WA 98626
PHONE 577-3035 * LANDFILL SITE 274-6492
3434 SOUTH SILVER LAKE RD. * CASTLE ROCK, WA 98611
www.co.cowlitz.wa.us

R E C E I P T

Transaction # 518563

	Time	Date	Lane
In:	02:03 PM	04/19/18	01
Out:	02:17 PM	04/19/18	02

Truck/Card#: CLEARCREEK 43
Fleet #:
Bill Acct: 8130
Company: CLEARCREEK CONTRACTORS INC

Vehicle: Truck Trailer
Origin: PCS - Out Of County
Destination: Fulcher

Material: PCS - 5

Gross:	55.87 tons	111740 lbs
Tare:	20.81 tons	41620 lbs
Net:	35.06 tons	70120 lbs

Billing Information:

Payment Type:
Tip Fee: @ /TN
Tipper Fee:
Agency Fee:
Excise Tax:
Cleanup Fee:
Tax:

Total Fee:

Notes:

(1)

COWLITZ COUNTY DEPARTMENT OF PUBLIC WORKS
1600 13TH AVENUE SOUTH * KELSO, WA 98626
PHONE 577-3035 * LANDFILL SITE 274-6492
3434 SOUTH SILVER LAKE RD. * CASTLE ROCK, WA 98611
www.co.cowlitz.wa.us

R E C E I P T

Transaction # 518470

	Time	Date	Lane
In:	12:15 PM	04/18/18	01
Out:	12:31 PM	04/18/18	02

Truck/Card#: CLEAR CREEK 43
Fleet #:
Bill Acct: 8130
Company: CLEARCREEK CONTRACTORS INC

Vehicle: Truck Trailer
Origin: PCS - Out Of County
Destination: Fulcher

Material: PCS - 5

Gross:	46.74 tons	93480 lbs
Tare:	20.87 tons	41740 lbs
Net:	25.87 tons	51740 lbs

Billing Information:

Payment Type:
Tip Fee: @ /TN
Tipper Fee:
Agency Fee:
Excise Tax:
Cleanup Fee:
Tax:

Total Fee: _____

Notes:

(1)

COWLITZ COUNTY DEPARTMENT OF PUBLIC WORKS
1600 13TH AVENUE SOUTH * KELSO, WA 98626
PHONE 577-3035 * LANDFILL SITE 274-6492
3434 SOUTH SILVER LAKE RD. * CASTLE ROCK, WA 98611
www.co.cowlitz.wa.us

R E C E I P T

Transaction # 518394

	Time	Date	Lane
In:	11:41 AM	04/17/18	01
Out:	12:02 PM	04/17/18	02

Truck/Card#: CLEARCREEK 43
Fleet #:
Bill Acct: 8130
Company: CLEARCREEK CONTRACTORS INC

Vehicle: Truck Trailer
Origin: PCS - Out Of County
Destination: Fulcher

Material: PCS - 5

Gross:	52.46 tons	104920 lbs
Tare:	20.80 tons	41600 lbs
Net:	31.66 tons	63320 lbs

Billing Information:

Payment Type:
Tip Fee: @ /TN
Tipper Fee:
Agency Fee:
Excise Tax:
Cleanup Fee:
Tax:

Total Fee: _____

Notes:

(1)

KANGLEY ROCK & RECYCLING

ACCOUNTING: 9125 TENTH AVENUE SOUTH
SEATTLE, WA 98108 • (206) 762-2566

A DIVISION OF GARY MERLINO CONSTRUCTION COMPANY, INC.

Kangley Rock & Recycling Locations

KANGLEY PIT (Plant # 21)
32500 SE Kent-Kangley Rd., Ravensdale, WA 98051
BLACK RIVER (Plant # 22) - (206) 658-0912
510 Monster Rd. Renton, WA 98055
LAKE FRANCIS (Plant # 23) - (206) 658-0872
22501 SE Lake Francis Rd. Maple Valley, WA 98038

Cedar Mountain Reclamation
17877 Cedar Grove Rd. SE, Maple Valley, WA 98038
Plant #20 - (206) 658-0913

DELIVERY TICKET

ACCOUNTING	(206) 762-2566
FAX	(206) 762-2358
SALES & ORDER DESK	(425) 226-1000

MAP LOCATE	LEAVE PLANT	ARRIVE JOB	LEAVE JOB	ARRIVE PLANT

DATE	CUSTOMER NO.	ORDER NO.	PROJECT	PLANT #
04/20/2018	173321	576638		22

CUSTOMER NAME	CUSTOMER P.O.	JOB NO.	DELIVERY TICKET NO.
CLEARCREEK CONTRACTORS INC	217105	000051	854096

JOB ADDRESS
1215 2ND AVE N

KENT

SPECIAL INSTRUCTIONS

COLLECT ON DELIVERY (C.O.D.)

☐ CASH ☐ CHECK # _____ ☐ CHARGE

CARD # _____ EXP. ___/___

☐ VISA ☐ MASTERCARD ☐ DISCOVER

QUANTITY	U.M.	PRODUCT CODE	DESCRIPTION	TONS	TOTAL TONS	UNIT PRICE	AMOUNT
31.27	TN	65016WA	2-4 QRY SPLS B-344	31.27	31.27		
31.27	TN	70015	ENVIRONMENTAL SURCHARGE	31.27			
Gross	104300.00		Tare 41760.00		Net	62540.00	

DRIVER	TRUCK NO.	ORDERED BY	REMIT PAYMENT TO	SUB-TOTAL	
	TMPCC44		9125 10th AVE. S. SEATTLE, WA 98108 TERMS ON REVERSE		
DISPATCHER	TAX CODE	TIME DUE		SALES TAX	
	WA 1	10:47			
				BALANCE FORWARD	
				TOTAL AMOUNT	

RELEASE — CUSTOMER RELEASES AND AGREES TO HOLD HARMLESS **KANGLEY ROCK & RECYCLING**, A DIVISION OF GARY MERLINO CONSTRUCTION COMPANY, INC. FOR ANY DAMAGE TO HIS REAL OR PERSONAL PROPERTY CAUSED BY DELIVERY OF MATERIALS LISTED ABOVE. DETAILS ON REVERSE.

CUSTOMER SIGNATURE _____

PRINT NAME _____ DATE _____

REV 04-2009

CUSTOMER COPY

217105

CADMAN
HEIDELBERGCEMENTGroup®
(888) 322-6847 425-961-7100

WEIGHMASTER STATION
98781100
Everett S&G
6300 Glenwood Avenue
Everett, WA 98213

TICKET NO.	1124016074	TICKET TIME	15:30:35	DATE	4/23/2018
Customer No. 7949956	Payment Type Account	Customer Name CLEARCREEK CONTRACTORS, INC.			Order No. 1007505
Customer Job. No.	Customer P.O.			Map Ref. /	Disp. Ord. #
Truck Type Truck & Trailer	Truck No. SPR39TT	Vehicle or License Plate No.		Trailer or License Plate No.	Zone
Hauler/Carrier No. 9388321	Driver's Name	Delivered/Ordered 31.89 /		Load No. 1	Running Total 31.89

EV/P 1215 2ND AVE N
1215 2ND AVE N
KENT

Product	Description	Total	Unit Price	Amount
94051	GRAVEL BORROW	31.89		

SCALE WEIGHT	GROSS & TARE			
Gross 104,760 LB	☒ Scale 1 ☐ Scale 2	A STANDBY SURCHARGE WILL BE ASSESSED FOR LOADS THAT EXCEED 10 MINUTES UNLOADING TIME.	Fuel Surcharge	
Tare 40,980 LB/P.T.		**LIABILITY WAIVER**	Sales Tax	
Net 63,780 LB	X Regan, Angelique Deputy Weighmaster	**Cadman, (Inc.) will not assume Liability for any property damage or any equipment damage for any delivery beyond the curb line.**	**Total**	

No one available to sign, customer waives receipt signature. ☐	Received by Signature X	Print Name (Customer) X	Driver's Signature X	Standby Time	
Arrive Job	Start Unloading	Finish Unloading	Standby Time	Customer's Initials X	This Tickets Grand Total

DIETRICH TRUCKING, LLC

7211-A NE 43rd Ave.
VANCOUVER, WASHINGTON 98661
(360) 892-3881
Fax (360) 883-1898

Customer's Order No.	Phone	Date
186068		4-20-18
Sold To	Clear Creek Construction	
Address	1215 2nd Ave	
City	Kent, WA	

Driver	Truck & Trailer
Jason W. Knoll	8525-8925

Qty.	Description	Price	Amount
31.22	Tons of Contam. material (soil)		
	Ticket # 518627		
	515-1145 : 6.50		
	To: Cowlitz County Landfill		
	Kelso, WA		
	>		
	Not Responsible for Damage Behind Curb Line		

All claims and returned goods MUST be accompanied by this bill.

Rec'd By

Tax		
Total		

248115 / 4055211

172045

Thank You

DIETRICH TRUCKING, LLC

7211-A NE 43rd Ave.
VANCOUVER, WASHINGTON 98661
(360) 892-3881
Fax (360) 883-1898

Customer's Order No. 186060 | Phone | Date 4/20/18

Sold To CRAK WAHR

Address

City

Driver Leon Sumner | Truck & Trailer 8532 8911

Qty.	Description	Price	Amount
22.30	518642		
	CLEAN UP LOAD FROM		
	KENT TO COWLITZ CO.		
	530-145 : 8.25		
	>		
	Not Responsible for Damage Behind Curb Line		

All claims and returned goods MUST be accompanied by this bill.

Rec'd By

Tax

Total

248115 / 4055211

176687

Thank You

KANGLEY ROCK & RECYCLING

ACCOUNTING: 9125 TENTH AVENUE SOUTH
SEATTLE, WA 98108 • (206) 762-2566

A DIVISION OF GARY MERLINO CONSTRUCTION COMPANY, INC.

Kangley Rock & Recycling Locations

KANGLEY PIT (Plant # 21)
32500 SE Kent-Kangley Rd., Ravensdale, WA 98051
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510 Monster Rd. Renton, WA 98055
LAKE FRANCIS (Plant # 23) - (206) 658-0872
22501 SE Lake Francis Rd. Maple Valley, WA 98038
Cedar Mountain Reclamation
17877 Cedar Grove Rd. SE, Maple Valley, WA 98038
Plant #20 - (206) 658-0913

DELIVERY TICKET

ACCOUNTING	(206) 762-2566
FAX	(206) 762-2358
SALES & ORDER DESK	(425) 226-1000

MAP LOCATE	LEAVE PLANT	ARRIVE JOB	LEAVE JOB	ARRIVE PLANT
			217105	

DATE	CUSTOMER NO.	ORDER NO.	PROJECT	PLANT #
04/24/2018	173321	576936		22

CUSTOMER NAME	CUSTOMER P.O.	JOB NO.	DELIVERY TICKET NO.
CLEARCREEK CONTRACTORS INC	1215	000051	855315

JOB ADDRESS
1215 2ND AVE N

KENT

SPRINGBROOK

COLLECT ON DELIVERY (C.O.D.)

☐ CASH ☐ CHECK # _____ ☐ CHARGE

CARD # _____ EXP. ___/___

☐ VISA ☐ MASTERCARD ☐ DISCOVER

QUANTITY	U.M.	PRODUCT CODE	DESCRIPTION	TONS	TOTAL TONS	UNIT PRICE	AMOUNT
32.94	TN	42024CR	1-1/4" TYPE 17 A-458 CEDRIV	32.94	32.94		
32.94	TN	70015	ENVIRONMENTAL SURCHARGE	32.94			

Gross 107200.00 Tare 41320.00 Net 65880.00

DRIVER	TRUCK NO.	ORDERED BY	REMIT PAYMENT TO: 9125 10th AVE S SEATTLE, WA 98108 TERMS ON REVERSE	SUB TOTAL	
	TMP3839				
DISPATCHER	TAX CODE	TIME DUE		SALES TAX	
	WA 1	8:48		BALANCE FORWARD	
				TOTAL AMOUNT	

RELEASE — CUSTOMER RELEASES AND AGREES TO HOLD HARMLESS **KANGLEY ROCK & RECYCLING**, A DIVISION OF GARY MERLINO CONSTRUCTION COMPANY, INC. FOR ANY DAMAGE TO HIS REAL OR PERSONAL PROPERTY CAUSED BY DELIVERY OF MATERIALS LISTED ABOVE. DETAILS ON REVERSE.

CUSTOMER SIGNATURE _____

PRINT NAME _____ DATE _____

REV 04-2009

CUSTOMER COPY

KANGLEY ROCK & RECYCLING

ACCOUNTING: 9125 TENTH AVENUE SOUTH
SEATTLE, WA 98108 • (206) 762-2566

A DIVISION OF GARY MERLINO CONSTRUCTION COMPANY, INC.

Kangley Rock & Recycling Locations

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22501 SE Lake Francis Rd. Maple Valley, WA 98038
Cedar Mountain Reclamation
17877 Cedar Grove Rd. SE, Maple Valley, WA 98038
Plant #20 - (206) 658-0913

DELIVERY TICKET

ACCOUNTING	(206) 762-2566
FAX	(206) 762-2358
SALES & ORDER DESK	(425) 226-1000

MAP LOCATE	LEAVE PLANT	ARRIVE JOB	LEAVE JOB	ARRIVE PLANT
			217105	

DATE	CUSTOMER NO.	ORDER NO.	PROJECT	PLANT #
04/23/2018	173321	576722		22

CUSTOMER NAME	CUSTOMER PO.	JOB NO.	DELIVERY TICKET NO.
CLEARCREEK CONTRACTORS INC	1215	000051	855068

JOB ADDRESS
1215 2ND AVE

KENT

SPRINGBROOK

COLLECT ON DELIVERY (C.O.D.)

☐ CASH ☐ CHECK # _____ ☐ CHARGE

CARD # _____ EXP. ___/___

☐ VISA ☐ MASTERCARD ☐ DISCOVER

QUANTITY	U.M.	PRODUCT CODE	DESCRIPTION	TONS	TOTAL TONS	UNIT PRICE	AMOUNT
31.41	TN	42024CR	1-1/4" TYPE 17 A-458 CEDRIV	31.41	157.69		
31.41	TN	70015	ENVIRONMENTAL SURCHARGE	31.41			

Gross 104220.00 Tare 41400.00 Net 62820.00

DRIVER	TRUCK NO.	ORDERED BY	REMIT PAYMENT TO: [illegible]	SUBTOTAL	
	TMPSB39				
DISPATCHER	TAX CODE	TIME DUE		SALES TAX	
	WA 1	13:39			
				TOTAL AMOUNT	

RELEASE – CUSTOMER RELEASES AND AGREES TO HOLD HARMLESS **KANGLEY ROCK & RECYCLING**, A DIVISION OF GARY MERLINO CONSTRUCTION COMPANY, INC. FOR ANY DAMAGE TO HIS REAL OR PERSONAL PROPERTY CAUSED BY DELIVERY OF MATERIALS LISTED ABOVE. DETAILS ON REVERSE.

CUSTOMER SIGNATURE RAY

PRINT NAME _____ DATE _____

REV 04-2009

CUSTOMER COPY

KANGLEY ROCK & RECYCLING

ACCOUNTING: 9125 TENTH AVENUE SOUTH
SEATTLE, WA 98108 • (206) 762-2566

A DIVISION OF GARY MERLINO CONSTRUCTION COMPANY, INC.

Kangley Rock & Recycling Locations

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22501 SE Lake Francis Rd. Maple Valley, WA 98038
Cedar Mountain Reclamation
17877 Cedar Grove Rd. SE, Maple Valley, WA 98038
Plant #20 - (206) 658-0913

DELIVERY TICKET

ACCOUNTING	(206) 762-2566
FAX	(206) 762-2358
SALES & ORDER DESK	(425) 226-1000

MAP LOCATE	LEAVE PLANT	ARRIVE JOB	LEAVE JOB	ARRIVE PLANT
			217105	

DATE	CUSTOMER NO.	ORDER NO.	PROJECT	PLANT #
04/23/2018	173321	576722		22

CUSTOMER NAME: CLEARCREEK CONTRACTORS INC

GUSTOMER P.O.	JOB NO.	DELIVERY TICKET NO.
1215	000051	855033

JOB ADDRESS: 1215 2ND AVE

KENT

SPR~~SPRINGBROOK~~

COLLECT ON DELIVERY (C.O.D.)

☐ CASH ☐ CHECK # _____ ☐ CHARGE

CARD # _____ EXP. ___/___

☐ VISA ☐ MASTERCARD ☐ DISCOVER

QUANTITY	U.M.	PRODUCT CODE	DESCRIPTION	TONS	TOTAL TONS	UNIT PRICE	AMOUNT
30.91	TN	42024CR	1-1/4" TYPE 17 A-458 CEDRIV	30.91	126.28		
30.91	TN	70015	ENVIRONMENTAL SURCHARGE	30.91			

Gross 103220.00 Tare 41400.00 Net 61820.00

DRIVER	TRUCK NO.	ORDERED BY	
	TMPS839		
DISPATCHER	TAX CODE	TIME DUE	
	WA 1	12:43	

REMIT PAYMENT TO
9125 10TH AVE S
SEATTLE, WA 98108
TERMS ON REVERSE

SUB TOTAL	
SALES TAX	
BALANCE FORWARD	
TOTAL AMOUNT	

RELEASE — CUSTOMER RELEASES AND AGREES TO HOLD HARMLESS **KANGLEY ROCK & RECYCLING**, A DIVISION OF GARY MERLINO CONSTRUCTION COMPANY, INC. FOR ANY DAMAGE TO HIS REAL OR PERSONAL PROPERTY CAUSED BY DELIVERY OF MATERIALS LISTED ABOVE. DETAILS ON REVERSE.

CUSTOMER SIGNATURE BAY

PRINT NAME _____ DATE _____

REV 04-2009

CUSTOMER COPY

KANGLEY ROCK & RECYCLING

ACCOUNTING: 9125 TENTH AVENUE SOUTH
SEATTLE, WA 98108 • (206) 762-2566

A DIVISION OF GARY MERLINO CONSTRUCTION COMPANY, INC.

Kangley Rock & Recycling Locations

KANGLEY PIT (Plant # 21)
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22501 SE Lake Francis Rd. Maple Valley, WA 98038
Cedar Mountain Reclamation
17877 Cedar Grove Rd. SE, Maple Valley, WA 98038
Plant #20 - (206) 658-0913

DELIVERY TICKET

ACCOUNTING	(206) 762-2566
FAX	(206) 762-2358
SALES & ORDER DESK	(425) 226-1000

MAP LOCATE	LEAVE PLANT	ARRIVE JOB	LEAVE JOB	ARRIVE PLANT
			217105	

DATE	CUSTOMER NO.	ORDER NO.	PROJECT	PLANT #
04/23/2018	173321	576722		22

CUSTOMER NAME	CUSTOMER P.O.	JOB NO.	DELIVERY TICKET NO.
CLEARCREEK CONTRACTORS INC	1215	000051	854967

JOB ADDRESS
1215 2ND AVE

KENT

SPRINGBROOK

COLLECT ON DELIVERY (C.O.D.)

☐ CASH ☐ CHECK # _____ ☐ CHARGE

CARD # _____ EXP. ___/___

☐ VISA ☐ MASTERCARD ☐ DISCOVER

QUANTITY	U.M.	PRODUCT CODE	DESCRIPTION	TONS	TOTAL TONS	UNIT PRICE	AMOUNT
32.19	TN	42024CR	1-1/4" TYPE 17 A-458 CEDRN	32.19	96.37		
32.19	TN	70015	ENVIRONMENTAL SURCHARGE	32.19			
Gross	105780.00		Tare	41400.00	Net	64380.00	

DRIVER	TRUCK NO.	ORDERED BY		
	TMPSB39			
DISPATCHER	TAX CODE	TIME DUE		
	WA 1	11:19		

[redacted]

RELEASE — CUSTOMER RELEASES AND AGREES TO HOLD HARMLESS **KANGLEY ROCK & RECYCLING**, A DIVISION OF GARY MERLINO CONSTRUCTION COMPANY, INC. FOR ANY DAMAGE TO HIS REAL OR PERSONAL PROPERTY CAUSED BY DELIVERY OF MATERIALS LISTED ABOVE. DETAILS ON REVERSE.

CUSTOMER SIGNATURE RAY

PRINT NAME _____ DATE _____

REV 04-2009

CUSTOMER COPY

KANGLEY ROCK & RECYCLING

ACCOUNTING: 9125 TENTH AVENUE SOUTH
SEATTLE, WA 98108 • (206) 762-2566

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17877 Cedar Grove Rd. SE, Maple Valley, WA 98038
Plant #20 - (206) 658-0913

DELIVERY TICKET

ACCOUNTING	(206) 762-2566
FAX	(206) 762-2358
SALES & ORDER DESK	(425) 226-1000

MAP LOCATE	LEAVE PLANT	ARRIVE JOB	LEAVE JOB	ARRIVE PLANT
			217105	

DATE	CUSTOMER NO.	ORDER NO.	PROJECT	PLANT #
04/23/2018	173321	576722		22

CUSTOMER NAME	CUSTOMER P.O.	JOB NO.	DELIVERY TICKET NO.
CLEARCREEK CONTRACTORS INC	1215	000051	854908

JOB ADDRESS
1215 2ND AVE

KENT

SPECIAL INSTRUCTIONS
SPRINGBROOK

COLLECT ON DELIVERY (C.O.D.)

☐ CASH ☐ CHECK # _____ ☐ CHARGE

CARD # _____ EXP. ____/____

☐ VISA ☐ MASTERCARD ☐ DISCOVER

QUANTITY	U.M.	PRODUCT CODE	DESCRIPTION	TONS	TOTAL TONS	UNIT PRICE	AMOUNT
32.45	TN	42024CR	1-1/4" TYPE 17 A-458 CEDRIV	32.45	63.18		
32.45	TN	70015	ENVIRONMENTAL SURCHARGE	32.45			

Gross 106300.00 Tare 41400.00 Net 64900.00

DRIVER	TRUCK NO.	ORDERED BY	REMIT PAYMENT TO 9125 TENTH AVE S SEATTLE, WA 98108 TERMS ON REVERSE	SUB TOTAL
	TMP-SB39			
DISPATCHER	TAX CODE WA 1	TIME DISP. 10:18		SALES TAX
				BALANCE FORWARD
				TOTAL AMOUNT

RELEASE – CUSTOMER RELEASES AND AGREES TO HOLD HARMLESS **KANGLEY ROCK & RECYCLING**, A DIVISION OF GARY MERLINO CONSTRUCTION COMPANY, INC. FOR ANY DAMAGE TO HIS REAL OR PERSONAL PROPERTY CAUSED BY DELIVERY OF MATERIALS LISTED ABOVE. DETAILS ON REVERSE.

CUSTOMER SIGNATURE RAY

PRINT NAME _____ DATE _____

REV 04-2009

CUSTOMER COPY

KANGLEY ROCK & RECYCLING

ACCOUNTING: 9125 TENTH AVENUE SOUTH
SEATTLE, WA 98108 • (206) 762-2566

A DIVISION OF GARY MERLINO CONSTRUCTION COMPANY, INC.

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Cedar Mountain Reclamation
17877 Cedar Grove Rd. SE, Maple Valley, WA 98038
Plant #20 - (206) 658-0913

DELIVERY TICKET

ACCOUNTING	(206) 762-2566
FAX	(206) 762-2358
SALES & ORDER DESK	(425) 226-1000

MAP LOCATE	LEAVE PLANT	ARRIVE JOB	LEAVE JOB	ARRIVE PLANT
			217105	

DATE	CUSTOMER NO.	ORDER NO.	PROJECT	PLANT #
04/23/2018	173321	576722		22

CUSTOMER NAME	CUSTOMER P.O.	JOB NO.	DELIVERY TICKET NO.
CLEARCREEK CONTRACTORS INC	1215	000051	854835

JOB ADDRESS
1215 2ND AVE

KENT

SPRINGBROOK

COLLECT ON DELIVERY (C.O.D.)

☐ CASH ☐ CHECK # _____ ☐ CHARGE

CARD # _____ EXP. ___/___

☐ VISA ☐ MASTERCARD ☐ DISCOVER

QUANTITY	U.M.	PRODUCT CODE	DESCRIPTION	TONS	TOTAL TONS	UNIT PRICE	AMOUNT
30.73	TN	42024CR	1-1/4" TYPE 17 A-458 CEDRIV	30.73	30.73		
30.73	TN	70015	ENVIRONMENTAL SURCHARGE	30.73			

Gross 102860.00 Tare 41400.00 Net 61460.00

DRIVER	TRUCK NO.	ORDERED BY	REMIT PAYMENT TO: 9125 10th AVE S SEATTLE, WA 98108 TERMS ON REVERSE	SUB TOTAL	
	TMP3B39				
DISPATCHER	TAX CODE	TIME DUE		SALES TAX	
	WA 1	8:54			
				BALANCE FORWARD	
				TOTAL AMOUNT	

RELEASE – CUSTOMER RELEASES AND AGREES TO HOLD HARMLESS **KANGLEY ROCK & RECYCLING**, A DIVISION OF GARY MERLINO CONSTRUCTION COMPANY, INC. FOR ANY DAMAGE TO HIS REAL OR PERSONAL PROPERTY CAUSED BY DELIVERY OF MATERIALS LISTED ABOVE. DETAILS ON REVERSE.

CUSTOMER SIGNATURE RAY

PRINT NAME _____ DATE _____

REV 04-2009

CUSTOMER COPY

***24 HOUR EMERGENCY RESPONSE, CALL (877) 577-2669 ***

Stericycle®
Environmental Solutions

SHIPPING PAPER

Lading Manifest: 139808-18

DELIVERY DATE	JOB 3171725
SHIPPER / CUSTOMER: PCC AEROSTRUCTURES	POINT OF CONTACT: BRANDON BARLOW — MAY 17 '18 PM 3:08
ADDRESS: 1215 2ND AVE NORTH	PHONE #: (317) 291-7034
CITY, STATE, ZIP: KENT WA 98032	
CARRIER / TRANSPORTER: Stericycle Specialty Waste	PHONE #: (612) 285-9865
CONSIGNEE / FACILITY: BURLINGTON ENVIRONMENTAL, LLC.	POINT OF CONTACT
ADDRESS: 1701 East Alexander Avenue	PHONE #: (253) 627-7568
CITY, STATE, ZIP: TACOMA , WA 98421	

HM	US DOT Description *(Including Proper Shipping Name, Hazard Class, and ID Number)*	Containers No.	Containers Type	Total Quantity	UOM
A	NON-DOT/NON-RCRA HAZARDOUS MATERIALS (GOII)	1	DM	780	P
B					
C					
D					

Special Handling Instruction and Additional Information:

[redacted]

Placards Provided YES_____ NO_____

SHIPPER'S CERTIFICATION: "I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations." I also certify that all times listed above are true and correct.

		MONTH	DAY	YEAR
(SHIPPER) PRINT OR TYPE NAME: X CHRIS KOTTMAN	SIGNATURE: X	5	17	18
(CARRIER/TRANSPORTER) PRINT OR TYPE NAME: X Joseph L Gonzalez	SIGNATURE: X	5	17	18
(CONSIGNEE/FACILITY) PRINT OR TYPE NAME: X Cindy Cruz	SIGNATURE: X	5	17	18

CONSIGNEE

0011

Appendix C
Groundwater Disposal Documentation

***24 HOUR EMERGENCY RESPONSE, CALL (877) 577-2669 ***

Stericycle®
Environmental Solutions

SHIPPING PAPER

Lading Manifest: 155540-18

	DELIVERY DATE: 5-17-18 / JOB # 3181054
SHIPPER / CUSTOMER: PCC AEROSTRUCTURES	POINT OF CONTACT: BRANDON BARLOW
ADDRESS: 1215 2ND AVE NORTH	PHONE #: (317)291-7034
CITY, STATE, ZIP: KENT WA 98032	
CARRIER / TRANSPORTER: Stericycle Specialty Waste	PHONE #: (612)285-9865
CONSIGNEE / FACILITY: BURLINGTON ENVIRONMENTAL, LLC.	POINT OF CONTACT:
ADDRESS: 20245 77th Avenue South	PHONE #: (253)872-8030
CITY, STATE, ZIP: KENT , WA 98032	

HM	US DOT Description *(Including Proper Shipping Name, Hazard Class, and ID Number)*	Containers No.	Containers Type	Total Quantity	UOM
A	NON DOT REGULATED MATERIAL	1	TT	1330	G
B					
C					
D					

F0807

Special Handling Instruction and Additional Information:

a) 000108834-00 - NON-REGULATED GROUNDWATER - WATR06 (3)

Placards Provided YES N/A NO

SHIPPER'S CERTIFICATION: "I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations." I also certify that all times listed above are true and correct.

		MONTH	DAY	YEAR
(SHIPPER) PRINT OR TYPE NAME: X CHRIS KOTILA	SIGNATURE: X	5	17	18
(CARRIER/TRANSPORTER) PRINT OR TYPE NAME: X Theodore Rohde	SIGNATURE: X	5	17	18
(CONSIGNEE/FACILITY) PRINT OR TYPE NAME: X Christine Santos	SIGNATURE: X	05	17	18

CONSIGNEE

Appendix D
Laboratory Analytical Results

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: 580-76684-1
Client Project/Site: 062175
Revision: 1

For:
GHD Services Inc.
4550 Kruse Way, Suite 300
Lake Oswego, Oregon 97035

Attn: Jeff Cloud

Kristine D. Allen

Authorized for release by:
5/3/2018 4:29:53 PM

Kristine Allen, Manager of Project Management
(253)248-4970
kristine.allen@testamericainc.com

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Case Narrative

Client: GHD Services Inc.
Project/Site: 062175

TestAmerica Job ID: 580-76684-1

Job ID: 580-76684-1

Laboratory: TestAmerica Seattle

Narrative

Job Narrative
580-76684-1

Comments
No additional comments.

Receipt
The samples were received on 4/18/2018 12:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 8.3º C.

Receipt Exceptions

The container labels for the following sample did not match the information listed on the Chain-of-Custody (COC): 062175-20180417-SO-BP-NSW-1 (580-76684-2). The container labels list the sampling time 1110, while the COC lists 1105. The sample is logged in per COC.

The following samples were received at the laboratory outside the required temperature criteria: 062175-20180417-SO-BP-WSW-1 (580-76684-1), 062175-20180417-SO-BP-NSW-1 (580-76684-2) and 062175-20180417-SO-BP-TB (580-76684-5). The samples were received at 8.3°C The remaining samples in the job were collected on the day of receipt.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-272545 recovered above the upper control limit for Methylene Chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 062175-20180417-SO-BP-NSW-1 (580-76684-2) and (CCVIS 580-272545/4).

Method(s) 8260C: The following sample was reanalyzed due to low failing QC in the initial run. 062175-20180417-SO-BP-TB (580-76684-5)

Method(s) 8260C: The following sample is reported for 1,2-Dibromo-3-Chloropropane with low failing QC. The CCVIS recovered low biased at -24.5% and it was not detected in the CCVL. The sample was reanalyzed in batch 272545 with concurring results and QC passed criteria however, the internal standard (IS) in the sample failed low so the data is reported from the initial run. No vials remain. 062175-20180418-SO-BP-SSW-1 (580-76684-3) and (CCVIS 580-272322/4)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 062175

TestAmerica Job ID: 580-76684-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample ID: 062175-20180417-SO-BP-WSW-1
Date Collected: 04/17/18 11:00
Date Received: 04/18/18 12:55

Lab Sample ID: 580-76684-1
Matrix: Solid
Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.0022		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
Chloromethane	ND		0.0054		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
Vinyl chloride	ND		0.0022		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
Bromomethane	ND		0.0011		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
1,1-Dichloroethane	**3.7**		0.052		mg/Kg	☼	04/30/18 16:13	05/01/18 14:40	1
Chloroethane	ND		0.011		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
cis-1,2-Dichloroethene	**2.2**		0.052		mg/Kg	☼	04/30/18 16:13	05/01/18 14:40	1
Trichlorofluoromethane	ND		0.0022		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
1,1,1-Trichloroethane	**4.5**		0.052		mg/Kg	☼	04/30/18 16:13	05/01/18 14:40	1
1,1,2-Trichloroethane	**0.97**		0.026		mg/Kg	☼	04/30/18 16:13	05/01/18 14:40	1
Methylene Chloride	ND		0.043		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
trans-1,2-Dichloroethene	**0.013**		0.0022		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
2,2-Dichloropropane	ND		0.0054		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
Bromochloromethane	ND		0.0022		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
Chloroform	ND		0.0022		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
Carbon tetrachloride	ND		0.0022		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
1,1-Dichloropropene	ND		0.0022		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
Benzene	ND		0.0022		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
1,2-Dichloroethane	**0.0069**		0.0011		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
Trichloroethene	**0.0041**		0.0022		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
1,2-Dichloropropane	ND		0.0022		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
Dibromomethane	ND		0.0011		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
Bromodichloromethane	ND		0.0011		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
cis-1,3-Dichloropropene	ND		0.0011		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
Toluene	**0.049**		0.011		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
trans-1,3-Dichloropropene	ND		0.011		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
Tetrachloroethene	ND		0.0022		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
1,3-Dichloropropane	ND		0.0022		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
Dibromochloromethane	ND		0.0016		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
1,2-Dibromoethane	ND		0.0011		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
Chlorobenzene	ND		0.0022		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
Ethylbenzene	**0.0049**		0.0022		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
1,1,1,2-Tetrachloroethane	ND		0.0032		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
1,1,2,2-Tetrachloroethane	ND		0.0043		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
m-Xylene & p-Xylene	ND		0.011		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
o-Xylene	ND		0.0054		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
Styrene	ND		0.0032		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
Bromoform	ND		0.0054		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
Isopropylbenzene	ND		0.0022		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
Bromobenzene	ND		0.011		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
N-Propylbenzene	ND		0.0054		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
1,2,3-Trichloropropane	ND		0.0054		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
2-Chlorotoluene	ND		0.0054		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
1,3,5-Trimethylbenzene	ND		0.0054		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
4-Chlorotoluene	ND		0.0054		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
t-Butylbenzene	ND		0.0032		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
1,2,4-Trimethylbenzene	ND		0.0054		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
sec-Butylbenzene	ND		0.0032		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
1,3-Dichlorobenzene	ND		0.0054		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1

Client: GHD Services Inc.
Project/Site: 062175

TestAmerica Job ID: 580-76684-1

Client Sample ID: 062175-20180417-SO-BP-WSW-1
Date Collected: 04/17/18 11:00
Date Received: 04/18/18 12:55

Lab Sample ID: 580-76684-1
Matrix: Solid
Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Isopropyltoluene	ND		0.0022		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
1,4-Dichlorobenzene	ND		0.0054		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
n-Butylbenzene	ND		0.0032		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
1,2-Dichlorobenzene	ND		0.011		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
1,2,4-Trichlorobenzene	ND		0.0022		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
1,2,3-Trichlorobenzene	ND		0.0032		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
Hexachlorobutadiene	ND		0.0032		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
Naphthalene	ND		0.011		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1
Methyl tert-butyl ether	ND		0.0022		mg/Kg	☼	04/18/18 15:00	04/26/18 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*75 - 120*	*04/18/18 15:00*	*04/26/18 14:48*	*1*
Toluene-d8 (Surr)	*95*		*75 - 120*	*04/30/18 16:13*	*05/01/18 14:40*	*1*
4-Bromofluorobenzene (Surr)	*101*		*47 - 150*	*04/30/18 16:13*	*05/01/18 14:40*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 118*	*04/30/18 16:13*	*05/01/18 14:40*	*1*
Trifluorotoluene (Surr)	*108*		*60 - 150*	*04/30/18 16:13*	*05/01/18 14:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 121*	*04/30/18 16:13*	*05/01/18 14:40*	*1*
4-Bromofluorobenzene (Surr)	*88*		*47 - 150*	*04/18/18 15:00*	*04/26/18 14:48*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 118*	*04/18/18 15:00*	*04/26/18 14:48*	*1*
Trifluorotoluene (Surr)	*91*		*60 - 150*	*04/18/18 15:00*	*04/26/18 14:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 121*	*04/18/18 15:00*	*04/26/18 14:48*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**81.7**		0.1		%			04/26/18 16:16	1
Percent Moisture	**18.3**		0.1		%			04/26/18 16:16	1

Client Sample ID: 062175-20180417-SO-BP-NSW-1
Date Collected: 04/17/18 11:05
Date Received: 04/18/18 12:55

Lab Sample ID: 580-76684-2
Matrix: Solid
Percent Solids: 89.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.0018		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
Chloromethane	ND		0.0045		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
Vinyl chloride	ND		0.0018		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
Bromomethane	ND		0.00091		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
Chloroethane	ND		0.0091		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
Trichlorofluoromethane	ND		0.0018		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
1,1-Dichloroethene	**0.011**		0.0045		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
Methylene Chloride	ND		0.036		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
trans-1,2-Dichloroethene	ND		0.0018		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
1,1-Dichloroethane	**0.052**		0.00091		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
2,2-Dichloropropane	ND		0.0045		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
cis-1,2-Dichloroethene	**0.0029**		0.0027		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
Bromochloromethane	ND		0.0018		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
Chloroform	ND		0.0018		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
1,1,1-Trichloroethane	ND		0.0018		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
Carbon tetrachloride	ND		0.0018		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
1,1-Dichloropropene	ND		0.0018		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
Benzene	ND		0.0018		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
1,2-Dichloroethane	ND		0.00091		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
Trichloroethene	ND		0.0018		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
1,2-Dichloropropane	ND		0.0018		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
Dibromomethane	ND		0.00091		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
Bromodichloromethane	ND		0.00091		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
cis-1,3-Dichloropropene	ND		0.00091		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
Toluene	ND		0.0091		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
trans-1,3-Dichloropropene	ND		0.0091		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
1,1,2-Trichloroethane	ND		0.0018		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
Tetrachloroethene	ND		0.0018		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
1,3-Dichloropropane	ND		0.0018		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
Dibromochloromethane	ND		0.0014		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
1,2-Dibromoethane	ND		0.00091		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
Chlorobenzene	ND		0.0018		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
Ethylbenzene	ND		0.0018		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
1,1,1,2-Tetrachloroethane	ND		0.0027		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
1,1,2,2-Tetrachloroethane	ND		0.0036		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
m-Xylene & p-Xylene	ND		0.0091		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
o-Xylene	ND		0.0045		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
Styrene	ND		0.0027		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
Bromoform	ND		0.0045		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
Isopropylbenzene	ND		0.0018		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
Bromobenzene	ND		0.0091		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
N-Propylbenzene	ND		0.0045		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
1,2,3-Trichloropropane	ND		0.0045		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
2-Chlorotoluene	ND		0.0045		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
1,3,5-Trimethylbenzene	ND		0.0045		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
4-Chlorotoluene	ND		0.0045		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
t-Butylbenzene	ND		0.0027		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
1,2,4-Trimethylbenzene	ND		0.0045		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
sec-Butylbenzene	ND		0.0027		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1

Client: GHD Services Inc.
Project/Site: 062175

TestAmerica Job ID: 580-76684-1

Client Sample ID: 062175-20180417-SO-BP-NSW-1
Date Collected: 04/17/18 11:05
Date Received: 04/18/18 12:55

Lab Sample ID: 580-76684-2
Matrix: Solid
Percent Solids: 89.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		0.0045		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
4-Isopropyltoluene	ND		0.0018		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
1,4-Dichlorobenzene	ND		0.0045		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
n-Butylbenzene	ND		0.0027		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
1,2-Dichlorobenzene	ND		0.0091		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
1,2-Dibromo-3-Chloropropane	ND		0.0091		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
1,2,4-Trichlorobenzene	ND		0.0018		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
1,2,3-Trichlorobenzene	ND		0.0027		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
Hexachlorobutadiene	ND		0.0027		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
Naphthalene	ND		0.0091		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1
Methyl tert-butyl ether	ND		0.0018		mg/Kg	☼	04/18/18 15:00	04/30/18 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*110*		*75 - 120*	*04/18/18 15:00*	*04/30/18 20:45*	*1*
4-Bromofluorobenzene (Surr)	*87*		*47 - 150*	*04/18/18 15:00*	*04/30/18 20:45*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 118*	*04/18/18 15:00*	*04/30/18 20:45*	*1*
Trifluorotoluene (Surr)	*91*		*60 - 150*	*04/18/18 15:00*	*04/30/18 20:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 121*	*04/18/18 15:00*	*04/30/18 20:45*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**89.1**		0.1		%			04/26/18 16:16	1
Percent Moisture	**10.9**		0.1		%			04/26/18 16:16	1

Client Sample ID: 062175-20180418-SO-BP-SSW-1 — **Lab Sample ID: 580-76684-3**
Date Collected: 04/18/18 09:15 — **Matrix: Solid**
Date Received: 04/18/18 12:55 — **Percent Solids: 80.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
Chloromethane	ND		0.0052		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
Vinyl chloride	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
Bromomethane	ND		0.0010		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
Chloroethane	ND		0.010		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
Trichlorofluoromethane	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
1,1-Dichloroethene	ND		0.0052		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
Methylene Chloride	ND		0.042		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
trans-1,2-Dichloroethene	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
1,1-Dichloroethane	**0.0010**		0.0010		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
2,2-Dichloropropane	ND		0.0052		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
cis-1,2-Dichloroethene	**0.023**		0.0031		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
Bromochloromethane	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
Chloroform	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
1,1,1-Trichloroethane	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
Carbon tetrachloride	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
1,1-Dichloropropene	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
Benzene	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
1,2-Dichloroethane	ND		0.0010		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
Trichloroethene	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
1,2-Dichloropropane	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
Dibromomethane	ND		0.0010		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
Bromodichloromethane	ND		0.0010		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
cis-1,3-Dichloropropene	ND		0.0010		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
Toluene	ND		0.010		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
trans-1,3-Dichloropropene	ND		0.010		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
1,1,2-Trichloroethane	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
Tetrachloroethene	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
1,3-Dichloropropane	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
Dibromochloromethane	ND		0.0016		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
1,2-Dibromoethane	ND		0.0010		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
Chlorobenzene	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
Ethylbenzene	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
1,1,1,2-Tetrachloroethane	ND		0.0031		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
1,1,2,2-Tetrachloroethane	ND		0.0042		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
m-Xylene & p-Xylene	ND		0.010		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
o-Xylene	ND		0.0052		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
Styrene	ND		0.0031		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
Bromoform	ND		0.0052		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
Isopropylbenzene	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
Bromobenzene	ND		0.010		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
N-Propylbenzene	ND		0.0052		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
1,2,3-Trichloropropane	ND		0.0052		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
2-Chlorotoluene	ND		0.0052		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
1,3,5-Trimethylbenzene	ND		0.0052		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
4-Chlorotoluene	ND		0.0052		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
t-Butylbenzene	ND		0.0031		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
1,2,4-Trimethylbenzene	ND		0.0052		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
sec-Butylbenzene	ND		0.0031		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1

Client: GHD Services Inc.
Project/Site: 062175

TestAmerica Job ID: 580-76684-1

Client Sample ID: 062175-20180418-SO-BP-SSW-1
Date Collected: 04/18/18 09:15
Date Received: 04/18/18 12:55

Lab Sample ID: 580-76684-3
Matrix: Solid
Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		0.0052		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
4-Isopropyltoluene	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
1,4-Dichlorobenzene	ND		0.0052		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
n-Butylbenzene	ND		0.0031		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
1,2-Dichlorobenzene	ND		0.010		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
1,2-Dibromo-3-Chloropropane	ND		0.010		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
1,2,4-Trichlorobenzene	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
1,2,3-Trichlorobenzene	ND		0.0031		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
Hexachlorobutadiene	ND		0.0031		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
Naphthalene	ND		0.010		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1
Methyl tert-butyl ether	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/26/18 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 120*	*04/18/18 15:00*	*04/26/18 15:56*	*1*
4-Bromofluorobenzene (Surr)	*97*		*47 - 150*	*04/18/18 15:00*	*04/26/18 15:56*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 118*	*04/18/18 15:00*	*04/26/18 15:56*	*1*
Trifluorotoluene (Surr)	*95*		*60 - 150*	*04/18/18 15:00*	*04/26/18 15:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 121*	*04/18/18 15:00*	*04/26/18 15:56*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**80.4**		0.1		%			04/26/18 16:16	1
Percent Moisture	**19.6**		0.1		%			04/26/18 16:16	1

Client: GHD Services Inc.
Project/Site: 062175

TestAmerica Job ID: 580-76684-1

Client Sample ID: 062175-20180417-SO-BP-TB
Date Collected: 04/18/18 12:00
Date Received: 04/18/18 12:55

Lab Sample ID: 580-76684-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.0020		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
Chloromethane	ND		0.0050		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
Vinyl chloride	ND		0.0020		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
Bromomethane	ND		0.0010		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
Chloroethane	ND		0.010		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
Trichlorofluoromethane	ND		0.0020		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
1,1-Dichloroethene	ND		0.0050		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
Methylene Chloride	ND		0.040		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
trans-1,2-Dichloroethene	ND		0.0020		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
1,1-Dichloroethane	ND		0.0010		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
2,2-Dichloropropane	ND		0.0050		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
cis-1,2-Dichloroethene	ND		0.0030		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
Bromochloromethane	ND		0.0020		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
Chloroform	ND		0.0020		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
1,1,1-Trichloroethane	ND		0.0020		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
Carbon tetrachloride	ND		0.0020		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
1,1-Dichloropropene	ND		0.0020		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
Benzene	ND		0.0020		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
1,2-Dichloroethane	ND		0.0010		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
Trichloroethene	ND		0.0020		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
1,2-Dichloropropane	ND		0.0020		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
Dibromomethane	ND		0.0010		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
Bromodichloromethane	ND		0.0010		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
cis-1,3-Dichloropropene	ND		0.0010		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
Toluene	ND		0.010		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
trans-1,3-Dichloropropene	ND		0.010		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
1,1,2-Trichloroethane	ND		0.0020		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
Tetrachloroethene	ND		0.0020		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
1,3-Dichloropropane	ND		0.0020		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
Dibromochloromethane	ND		0.0015		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
1,2-Dibromoethane	ND		0.0010		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
Chlorobenzene	ND		0.0020		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
Ethylbenzene	ND		0.0020		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
1,1,1,2-Tetrachloroethane	ND		0.0030		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
1,1,2,2-Tetrachloroethane	ND		0.0040		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
m-Xylene & p-Xylene	ND		0.010		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
o-Xylene	ND		0.0050		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
Styrene	ND		0.0030		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
Bromoform	ND		0.0050		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
Isopropylbenzene	ND		0.0020		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
Bromobenzene	ND		0.010		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
N-Propylbenzene	ND		0.0050		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
1,2,3-Trichloropropane	ND		0.0050		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
2-Chlorotoluene	ND		0.0050		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
1,3,5-Trimethylbenzene	ND		0.0050		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
4-Chlorotoluene	ND		0.0050		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
t-Butylbenzene	ND		0.0030		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
1,2,4-Trimethylbenzene	ND		0.0050		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
sec-Butylbenzene	ND		0.0030		mg/Kg		04/18/18 15:00	04/26/18 14:05	1

Client: GHD Services Inc.
Project/Site: 062175

TestAmerica Job ID: 580-76684-1

Client Sample ID: 062175-20180417-SO-BP-TB
Date Collected: 04/18/18 12:00
Date Received: 04/18/18 12:55

Lab Sample ID: 580-76684-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		0.0050		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
4-Isopropyltoluene	ND		0.0020		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
1,4-Dichlorobenzene	ND		0.0050		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
n-Butylbenzene	ND		0.0030		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
1,2-Dichlorobenzene	ND		0.010		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
1,2,4-Trichlorobenzene	ND		0.0020		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
1,2,3-Trichlorobenzene	ND		0.0030		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
Hexachlorobutadiene	ND		0.0030		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
Naphthalene	ND		0.010		mg/Kg		04/18/18 15:00	04/26/18 14:05	1
Methyl tert-butyl ether	ND		0.0020		mg/Kg		04/18/18 15:00	04/26/18 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*75 - 120*	*04/18/18 15:00*	*04/26/18 14:05*	*1*
4-Bromofluorobenzene (Surr)	*97*		*47 - 150*	*04/18/18 15:00*	*04/26/18 14:05*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 118*	*04/18/18 15:00*	*04/26/18 14:05*	*1*
Trifluorotoluene (Surr)	*95*		*60 - 150*	*04/18/18 15:00*	*04/26/18 14:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 121*	*04/18/18 15:00*	*04/26/18 14:05*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.010		mg/Kg		04/18/18 15:00	04/30/18 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*75 - 120*	*04/18/18 15:00*	*04/30/18 14:16*	*1*
4-Bromofluorobenzene (Surr)	*95*		*47 - 150*	*04/18/18 15:00*	*04/30/18 14:16*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 118*	*04/18/18 15:00*	*04/30/18 14:16*	*1*
Trifluorotoluene (Surr)	*95*		*60 - 150*	*04/18/18 15:00*	*04/30/18 14:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 121*	*04/18/18 15:00*	*04/30/18 14:16*	*1*

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

Lab Sample ID: MB 580-272317/1-A
Matrix: Solid
Analysis Batch: 272322

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 272317

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Chloromethane	ND		0.0050		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Vinyl chloride	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Bromomethane	ND		0.0010		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Chloroethane	ND		0.010		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Trichlorofluoromethane	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,1-Dichloroethene	ND		0.0050		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Methylene Chloride	ND		0.040		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
trans-1,2-Dichloroethene	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,1-Dichloroethane	ND		0.0010		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
2,2-Dichloropropane	ND		0.0050		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
cis-1,2-Dichloroethene	ND		0.0030		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Bromochloromethane	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Chloroform	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,1,1-Trichloroethane	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Carbon tetrachloride	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,1-Dichloropropene	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Benzene	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,2-Dichloroethane	ND		0.0010		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Trichloroethene	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,2-Dichloropropane	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Dibromomethane	ND		0.0010		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Bromodichloromethane	ND		0.0010		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
cis-1,3-Dichloropropene	ND		0.0010		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Toluene	ND		0.010		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
trans-1,3-Dichloropropene	ND		0.010		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,1,2-Trichloroethane	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Tetrachloroethene	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,3-Dichloropropane	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Dibromochloromethane	ND		0.0015		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,2-Dibromoethane	ND		0.0010		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Chlorobenzene	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Ethylbenzene	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,1,1,2-Tetrachloroethane	ND		0.0030		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,1,2,2-Tetrachloroethane	ND		0.0040		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
m-Xylene & p-Xylene	ND		0.010		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
o-Xylene	ND		0.0050		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Styrene	ND		0.0030		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Bromoform	ND		0.0050		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Isopropylbenzene	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Bromobenzene	ND		0.010		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
N-Propylbenzene	ND		0.0050		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,2,3-Trichloropropane	ND		0.0050		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
2-Chlorotoluene	ND		0.0050		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,3,5-Trimethylbenzene	ND		0.0050		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
4-Chlorotoluene	ND		0.0050		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
t-Butylbenzene	ND		0.0030		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,2,4-Trimethylbenzene	ND		0.0050		mg/Kg		04/26/18 09:24	04/26/18 11:44	1

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

Lab Sample ID: MB 580-272317/1-A
Matrix: Solid
Analysis Batch: 272322

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 272317

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.0030		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,3-Dichlorobenzene	ND		0.0050		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
4-Isopropyltoluene	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,4-Dichlorobenzene	ND		0.0050		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
n-Butylbenzene	ND		0.0030		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,2-Dichlorobenzene	ND		0.010		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,2-Dibromo-3-Chloropropane	ND		0.010		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,2,4-Trichlorobenzene	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,2,3-Trichlorobenzene	ND		0.0030		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Hexachlorobutadiene	ND		0.0030		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Naphthalene	ND		0.010		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Methyl tert-butyl ether	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 120*	*04/26/18 09:24*	*04/26/18 11:44*	*1*
4-Bromofluorobenzene (Surr)	*99*		*47 - 150*	*04/26/18 09:24*	*04/26/18 11:44*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 118*	*04/26/18 09:24*	*04/26/18 11:44*	*1*
Trifluorotoluene (Surr)	*97*		*60 - 150*	*04/26/18 09:24*	*04/26/18 11:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 121*	*04/26/18 09:24*	*04/26/18 11:44*	*1*

Lab Sample ID: LCS 580-272317/2-A
Matrix: Solid
Analysis Batch: 272322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 272317

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	0.0200	0.0205		mg/Kg		103	33 - 137
Chloromethane	0.0200	0.0219		mg/Kg		110	53 - 145
Vinyl chloride	0.0200	0.0206		mg/Kg		103	28 - 150
Bromomethane	0.0200	0.0200		mg/Kg		100	57 - 146
Chloroethane	0.0200	0.0217		mg/Kg		108	55 - 150
Trichlorofluoromethane	0.0200	0.0200		mg/Kg		100	73 - 143
1,1-Dichloroethene	0.0200	0.0186		mg/Kg		93	77 - 137
Methylene Chloride	0.0200	0.0202	J	mg/Kg		101	66 - 150
trans-1,2-Dichloroethene	0.0200	0.0194		mg/Kg		97	71 - 150
1,1-Dichloroethane	0.0200	0.0204		mg/Kg		102	70 - 141
2,2-Dichloropropane	0.0200	0.0209		mg/Kg		105	54 - 150
cis-1,2-Dichloroethene	0.0200	0.0202		mg/Kg		101	74 - 138
Bromochloromethane	0.0200	0.0208		mg/Kg		104	76 - 150
Chloroform	0.0200	0.0207		mg/Kg		104	80 - 133
1,1,1-Trichloroethane	0.0200	0.0199		mg/Kg		99	78 - 150
Carbon tetrachloride	0.0200	0.0202		mg/Kg		101	77 - 150
1,1-Dichloropropene	0.0200	0.0204		mg/Kg		102	76 - 150
Benzene	0.0200	0.0204		mg/Kg		102	79 - 135
1,2-Dichloroethane	0.0200	0.0209		mg/Kg		104	68 - 150
Trichloroethene	0.0200	0.0197		mg/Kg		98	80 - 144
1,2-Dichloropropane	0.0200	0.0212		mg/Kg		106	75 - 136
Dibromomethane	0.0200	0.0201		mg/Kg		101	72 - 150
Bromodichloromethane	0.0200	0.0211		mg/Kg		106	79 - 132

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

Lab Sample ID: LCS 580-272317/2-A
Matrix: Solid
Analysis Batch: 272322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 272317

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	0.0200	0.0210		mg/Kg		105	70 - 122
Toluene	0.0200	0.0208		mg/Kg		104	80 - 125
trans-1,3-Dichloropropene	0.0200	0.0206		mg/Kg		103	75 - 121
1,1,2-Trichloroethane	0.0200	0.0197		mg/Kg		99	73 - 123
Tetrachloroethene	0.0200	0.0188		mg/Kg		94	61 - 150
1,3-Dichloropropane	0.0200	0.0208		mg/Kg		104	75 - 120
Dibromochloromethane	0.0200	0.0207		mg/Kg		103	75 - 125
1,2-Dibromoethane	0.0200	0.0192		mg/Kg		96	77 - 123
Chlorobenzene	0.0200	0.0198		mg/Kg		99	80 - 123
Ethylbenzene	0.0200	0.0199		mg/Kg		99	80 - 127
1,1,1,2-Tetrachloroethane	0.0200	0.0202		mg/Kg		101	79 - 128
1,1,2,2-Tetrachloroethane	0.0200	0.0182		mg/Kg		91	57 - 127
m-Xylene & p-Xylene	0.0200	0.0205		mg/Kg		102	80 - 128
o-Xylene	0.0200	0.0206		mg/Kg		103	80 - 125
Styrene	0.0200	0.0201		mg/Kg		100	79 - 129
Bromoform	0.0200	0.0187		mg/Kg		93	65 - 134
Isopropylbenzene	0.0200	0.0205		mg/Kg		103	80 - 128
Bromobenzene	0.0200	0.0195		mg/Kg		98	68 - 126
N-Propylbenzene	0.0200	0.0196		mg/Kg		98	74 - 127
1,2,3-Trichloropropane	0.0200	0.0180		mg/Kg		90	59 - 127
2-Chlorotoluene	0.0200	0.0194		mg/Kg		97	71 - 127
1,3,5-Trimethylbenzene	0.0200	0.0201		mg/Kg		100	72 - 128
4-Chlorotoluene	0.0200	0.0194		mg/Kg		97	68 - 126
t-Butylbenzene	0.0200	0.0199		mg/Kg		99	71 - 127
1,2,4-Trimethylbenzene	0.0200	0.0199		mg/Kg		99	73 - 127
sec-Butylbenzene	0.0200	0.0200		mg/Kg		100	70 - 129
1,3-Dichlorobenzene	0.0200	0.0198		mg/Kg		99	52 - 150
4-Isopropyltoluene	0.0200	0.0199		mg/Kg		99	71 - 129
1,4-Dichlorobenzene	0.0200	0.0195		mg/Kg		98	71 - 123
n-Butylbenzene	0.0200	0.0197		mg/Kg		98	71 - 130
1,2-Dichlorobenzene	0.0200	0.0199		mg/Kg		100	67 - 126
1,2-Dibromo-3-Chloropropane	0.0200	0.0157		mg/Kg		79	53 - 129
1,2,4-Trichlorobenzene	0.0200	0.0193		mg/Kg		96	68 - 131
1,2,3-Trichlorobenzene	0.0200	0.0189		mg/Kg		94	60 - 129
Hexachlorobutadiene	0.0200	0.0188		mg/Kg		94	65 - 136
Naphthalene	0.0200	0.0168		mg/Kg		84	61 - 124
Methyl tert-butyl ether	0.0200	0.0202		mg/Kg		101	69 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*75 - 120*
4-Bromofluorobenzene (Surr)	*103*		*47 - 150*
Dibromofluoromethane (Surr)	*103*		*80 - 118*
Trifluorotoluene (Surr)	*98*		*60 - 150*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 121*

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

Lab Sample ID: LCSD 580-272317/3-A
Matrix: Solid
Analysis Batch: 272322

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 272317

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	0.0200	0.0202		mg/Kg		101	33 - 137	2	30
Chloromethane	0.0200	0.0216		mg/Kg		108	53 - 145	2	28
Vinyl chloride	0.0200	0.0205		mg/Kg		102	28 - 150	1	29
Bromomethane	0.0200	0.0208		mg/Kg		104	57 - 146	4	38
Chloroethane	0.0200	0.0204		mg/Kg		102	55 - 150	6	40
Trichlorofluoromethane	0.0200	0.0200		mg/Kg		100	73 - 143	0	26
1,1-Dichloroethene	0.0200	0.0183		mg/Kg		92	77 - 137	2	23
Methylene Chloride	0.0200	0.0201	J	mg/Kg		101	66 - 150	0	40
trans-1,2-Dichloroethene	0.0200	0.0190		mg/Kg		95	71 - 150	2	22
1,1-Dichloroethane	0.0200	0.0201		mg/Kg		101	70 - 141	2	30
2,2-Dichloropropane	0.0200	0.0203		mg/Kg		102	54 - 150	3	28
cis-1,2-Dichloroethene	0.0200	0.0202		mg/Kg		101	74 - 138	0	14
Bromochloromethane	0.0200	0.0212		mg/Kg		106	76 - 150	2	15
Chloroform	0.0200	0.0205		mg/Kg		102	80 - 133	1	13
1,1,1-Trichloroethane	0.0200	0.0192		mg/Kg		96	78 - 150	3	14
Carbon tetrachloride	0.0200	0.0193		mg/Kg		97	77 - 150	4	12
1,1-Dichloropropene	0.0200	0.0193		mg/Kg		97	76 - 150	5	11
Benzene	0.0200	0.0198		mg/Kg		99	79 - 135	3	10
1,2-Dichloroethane	0.0200	0.0212		mg/Kg		106	68 - 150	1	17
Trichloroethene	0.0200	0.0193		mg/Kg		96	80 - 144	2	10
1,2-Dichloropropane	0.0200	0.0208		mg/Kg		104	75 - 136	2	10
Dibromomethane	0.0200	0.0206		mg/Kg		103	72 - 150	2	14
Bromodichloromethane	0.0200	0.0208		mg/Kg		104	79 - 132	1	10
cis-1,3-Dichloropropene	0.0200	0.0207		mg/Kg		104	70 - 122	1	16
Toluene	0.0200	0.0200		mg/Kg		100	80 - 125	4	16
trans-1,3-Dichloropropene	0.0200	0.0206		mg/Kg		103	75 - 121	0	17
1,1,2-Trichloroethane	0.0200	0.0198		mg/Kg		99	73 - 123	1	15
Tetrachloroethene	0.0200	0.0183		mg/Kg		91	61 - 150	3	16
1,3-Dichloropropane	0.0200	0.0211		mg/Kg		105	75 - 120	2	18
Dibromochloromethane	0.0200	0.0206		mg/Kg		103	75 - 125	0	17
1,2-Dibromoethane	0.0200	0.0202		mg/Kg		101	77 - 123	5	18
Chlorobenzene	0.0200	0.0194		mg/Kg		97	80 - 123	2	10
Ethylbenzene	0.0200	0.0194		mg/Kg		97	80 - 127	2	10
1,1,1,2-Tetrachloroethane	0.0200	0.0200		mg/Kg		100	79 - 128	1	11
1,1,2,2-Tetrachloroethane	0.0200	0.0193		mg/Kg		97	57 - 127	6	18
m-Xylene & p-Xylene	0.0200	0.0196		mg/Kg		98	80 - 128	4	13
o-Xylene	0.0200	0.0199		mg/Kg		99	80 - 125	4	14
Styrene	0.0200	0.0195		mg/Kg		98	79 - 129	3	15
Bromoform	0.0200	0.0191		mg/Kg		96	65 - 134	2	17
Isopropylbenzene	0.0200	0.0198		mg/Kg		99	80 - 128	4	17
Bromobenzene	0.0200	0.0200		mg/Kg		100	68 - 126	2	19
N-Propylbenzene	0.0200	0.0190		mg/Kg		95	74 - 127	3	17
1,2,3-Trichloropropane	0.0200	0.0191		mg/Kg		96	59 - 127	6	16
2-Chlorotoluene	0.0200	0.0194		mg/Kg		97	71 - 127	0	16
1,3,5-Trimethylbenzene	0.0200	0.0195		mg/Kg		97	72 - 128	3	16
4-Chlorotoluene	0.0200	0.0194		mg/Kg		97	68 - 126	0	16
t-Butylbenzene	0.0200	0.0196		mg/Kg		98	71 - 127	2	13
1,2,4-Trimethylbenzene	0.0200	0.0193		mg/Kg		97	73 - 127	3	12

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

Lab Sample ID: LCSD 580-272317/3-A
Matrix: Solid
Analysis Batch: 272322

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 272317

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene			0.0200	0.0193		mg/Kg		97	70 - 129	3	12
1,3-Dichlorobenzene			0.0200	0.0193		mg/Kg		97	52 - 150	2	12
4-Isopropyltoluene			0.0200	0.0193		mg/Kg		97	71 - 129	3	11
1,4-Dichlorobenzene			0.0200	0.0194		mg/Kg		97	71 - 123	1	12
n-Butylbenzene			0.0200	0.0186		mg/Kg		93	71 - 130	6	12
1,2-Dichlorobenzene			0.0200	0.0198		mg/Kg		99	67 - 126	0	12
1,2-Dibromo-3-Chloropropane			0.0200	0.0180		mg/Kg		90	53 - 129	14	20
1,2,4-Trichlorobenzene			0.0200	0.0194		mg/Kg		97	68 - 131	0	16
1,2,3-Trichlorobenzene			0.0200	0.0197		mg/Kg		98	60 - 129	4	18
Hexachlorobutadiene			0.0200	0.0185		mg/Kg		92	65 - 136	2	19
Naphthalene			0.0200	0.0182		mg/Kg		91	61 - 124	8	17
Methyl tert-butyl ether			0.0200	0.0210		mg/Kg		105	69 - 150	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*75 - 120*
4-Bromofluorobenzene (Surr)	*100*		*47 - 150*
Dibromofluoromethane (Surr)	*103*		*80 - 118*
Trifluorotoluene (Surr)	*98*		*60 - 150*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 121*

Lab Sample ID: MB 580-272547/1-A
Matrix: Solid
Analysis Batch: 272545

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 272547

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Chloromethane	ND		0.0050		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Vinyl chloride	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Bromomethane	ND		0.0010		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Chloroethane	ND		0.010		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Trichlorofluoromethane	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,1-Dichloroethene	ND		0.0050		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Methylene Chloride	ND		0.040		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
trans-1,2-Dichloroethene	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,1-Dichloroethane	ND		0.0010		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
2,2-Dichloropropane	ND		0.0050		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
cis-1,2-Dichloroethene	ND		0.0030		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Bromochloromethane	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Chloroform	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,1,1-Trichloroethane	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Carbon tetrachloride	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,1-Dichloropropene	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Benzene	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,2-Dichloroethane	ND		0.0010		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Trichloroethene	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,2-Dichloropropane	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Dibromomethane	ND		0.0010		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Bromodichloromethane	ND		0.0010		mg/Kg		04/30/18 10:37	04/30/18 12:43	1

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

Lab Sample ID: MB 580-272547/1-A
Matrix: Solid
Analysis Batch: 272545

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 272547

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.0010		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Toluene	ND		0.010		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
trans-1,3-Dichloropropene	ND		0.010		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,1,2-Trichloroethane	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Tetrachloroethene	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,3-Dichloropropane	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Dibromochloromethane	ND		0.0015		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,2-Dibromoethane	ND		0.0010		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Chlorobenzene	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Ethylbenzene	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,1,1,2-Tetrachloroethane	ND		0.0030		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,1,2,2-Tetrachloroethane	ND		0.0040		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
m-Xylene & p-Xylene	ND		0.010		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
o-Xylene	ND		0.0050		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Styrene	ND		0.0030		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Bromoform	ND		0.0050		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Isopropylbenzene	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Bromobenzene	ND		0.010		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
N-Propylbenzene	ND		0.0050		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,2,3-Trichloropropane	ND		0.0050		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
2-Chlorotoluene	ND		0.0050		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,3,5-Trimethylbenzene	ND		0.0050		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
4-Chlorotoluene	ND		0.0050		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
t-Butylbenzene	ND		0.0030		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,2,4-Trimethylbenzene	ND		0.0050		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
sec-Butylbenzene	ND		0.0030		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,3-Dichlorobenzene	ND		0.0050		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
4-Isopropyltoluene	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,4-Dichlorobenzene	ND		0.0050		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
n-Butylbenzene	ND		0.0030		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,2-Dichlorobenzene	ND		0.010		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,2-Dibromo-3-Chloropropane	ND		0.010		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,2,4-Trichlorobenzene	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,2,3-Trichlorobenzene	ND		0.0030		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Hexachlorobutadiene	ND		0.0030		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Naphthalene	ND		0.010		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Methyl tert-butyl ether	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*75 - 120*	*04/30/18 10:37*	*04/30/18 12:43*	*1*
4-Bromofluorobenzene (Surr)	*97*		*47 - 150*	*04/30/18 10:37*	*04/30/18 12:43*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 118*	*04/30/18 10:37*	*04/30/18 12:43*	*1*
Trifluorotoluene (Surr)	*95*		*60 - 150*	*04/30/18 10:37*	*04/30/18 12:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 121*	*04/30/18 10:37*	*04/30/18 12:43*	*1*

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

Lab Sample ID: LCS 580-272547/2-A
Matrix: Solid
Analysis Batch: 272545

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 272547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	0.0200	0.0180		mg/Kg		90	33 - 137
Chloromethane	0.0200	0.0207		mg/Kg		104	53 - 145
Vinyl chloride	0.0200	0.0189		mg/Kg		94	28 - 150
Bromomethane	0.0200	0.0186		mg/Kg		93	57 - 146
Chloroethane	0.0200	0.0196		mg/Kg		98	55 - 150
Trichlorofluoromethane	0.0200	0.0181		mg/Kg		90	73 - 143
1,1-Dichloroethene	0.0200	0.0172		mg/Kg		86	77 - 137
Methylene Chloride	0.0200	0.0226	J	mg/Kg		113	66 - 150
trans-1,2-Dichloroethene	0.0200	0.0183		mg/Kg		91	71 - 150
1,1-Dichloroethane	0.0200	0.0197		mg/Kg		98	70 - 141
2,2-Dichloropropane	0.0200	0.0203		mg/Kg		102	54 - 150
cis-1,2-Dichloroethene	0.0200	0.0195		mg/Kg		97	74 - 138
Bromochloromethane	0.0200	0.0196		mg/Kg		98	76 - 150
Chloroform	0.0200	0.0201		mg/Kg		101	80 - 133
1,1,1-Trichloroethane	0.0200	0.0185		mg/Kg		93	78 - 150
Carbon tetrachloride	0.0200	0.0192		mg/Kg		96	77 - 150
1,1-Dichloropropene	0.0200	0.0190		mg/Kg		95	76 - 150
Benzene	0.0200	0.0197		mg/Kg		98	79 - 135
1,2-Dichloroethane	0.0200	0.0207		mg/Kg		104	68 - 150
Trichloroethene	0.0200	0.0180		mg/Kg		90	80 - 144
1,2-Dichloropropane	0.0200	0.0208		mg/Kg		104	75 - 136
Dibromomethane	0.0200	0.0186		mg/Kg		93	72 - 150
Bromodichloromethane	0.0200	0.0208		mg/Kg		104	79 - 132
cis-1,3-Dichloropropene	0.0200	0.0210		mg/Kg		105	70 - 122
Toluene	0.0200	0.0197		mg/Kg		98	80 - 125
trans-1,3-Dichloropropene	0.0200	0.0201		mg/Kg		101	75 - 121
1,1,2-Trichloroethane	0.0200	0.0191		mg/Kg		95	73 - 123
Tetrachloroethene	0.0200	0.0178		mg/Kg		89	61 - 150
1,3-Dichloropropane	0.0200	0.0205		mg/Kg		102	75 - 120
Dibromochloromethane	0.0200	0.0201		mg/Kg		100	75 - 125
1,2-Dibromoethane	0.0200	0.0185		mg/Kg		93	77 - 123
Chlorobenzene	0.0200	0.0188		mg/Kg		94	80 - 123
Ethylbenzene	0.0200	0.0192		mg/Kg		96	80 - 127
1,1,1,2-Tetrachloroethane	0.0200	0.0195		mg/Kg		97	79 - 128
1,1,2,2-Tetrachloroethane	0.0200	0.0178		mg/Kg		89	57 - 127
m-Xylene & p-Xylene	0.0200	0.0191		mg/Kg		95	80 - 128
o-Xylene	0.0200	0.0194		mg/Kg		97	80 - 125
Styrene	0.0200	0.0189		mg/Kg		95	79 - 129
Bromoform	0.0200	0.0176		mg/Kg		88	65 - 134
Isopropylbenzene	0.0200	0.0192		mg/Kg		96	80 - 128
Bromobenzene	0.0200	0.0185		mg/Kg		92	68 - 126
N-Propylbenzene	0.0200	0.0183		mg/Kg		92	74 - 127
1,2,3-Trichloropropane	0.0200	0.0171		mg/Kg		85	59 - 127
2-Chlorotoluene	0.0200	0.0181		mg/Kg		90	71 - 127
1,3,5-Trimethylbenzene	0.0200	0.0189		mg/Kg		94	72 - 128
4-Chlorotoluene	0.0200	0.0181		mg/Kg		91	68 - 126
t-Butylbenzene	0.0200	0.0187		mg/Kg		93	71 - 127
1,2,4-Trimethylbenzene	0.0200	0.0184		mg/Kg		92	73 - 127

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

Lab Sample ID: LCS 580-272547/2-A
Matrix: Solid
Analysis Batch: 272545

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 272547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
sec-Butylbenzene	0.0200	0.0185		mg/Kg		93	70 - 129
1,3-Dichlorobenzene	0.0200	0.0182		mg/Kg		91	52 - 150
4-Isopropyltoluene	0.0200	0.0186		mg/Kg		93	71 - 129
1,4-Dichlorobenzene	0.0200	0.0183		mg/Kg		92	71 - 123
n-Butylbenzene	0.0200	0.0179		mg/Kg		90	71 - 130
1,2-Dichlorobenzene	0.0200	0.0187		mg/Kg		93	67 - 126
1,2-Dibromo-3-Chloropropane	0.0200	0.0158		mg/Kg		79	53 - 129
1,2,4-Trichlorobenzene	0.0200	0.0184		mg/Kg		92	68 - 131
1,2,3-Trichlorobenzene	0.0200	0.0187		mg/Kg		94	60 - 129
Hexachlorobutadiene	0.0200	0.0178		mg/Kg		89	65 - 136
Naphthalene	0.0200	0.0165		mg/Kg		82	61 - 124
Methyl tert-butyl ether	0.0200	0.0196		mg/Kg		98	69 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*75 - 120*
4-Bromofluorobenzene (Surr)	*101*		*47 - 150*
Dibromofluoromethane (Surr)	*104*		*80 - 118*
Trifluorotoluene (Surr)	*97*		*60 - 150*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 121*

Lab Sample ID: LCSD 580-272547/3-A
Matrix: Solid
Analysis Batch: 272545

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 272547

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	0.0200	0.0180		mg/Kg		90	33 - 137	0	30
Chloromethane	0.0200	0.0203		mg/Kg		101	53 - 145	2	28
Vinyl chloride	0.0200	0.0186		mg/Kg		93	28 - 150	1	29
Bromomethane	0.0200	0.0187		mg/Kg		93	57 - 146	1	38
Chloroethane	0.0200	0.0186		mg/Kg		93	55 - 150	5	40
Trichlorofluoromethane	0.0200	0.0182		mg/Kg		91	73 - 143	1	26
1,1-Dichloroethene	0.0200	0.0176		mg/Kg		88	77 - 137	2	23
Methylene Chloride	0.0200	0.0234	J	mg/Kg		117	66 - 150	3	40
trans-1,2-Dichloroethene	0.0200	0.0187		mg/Kg		93	71 - 150	2	22
1,1-Dichloroethane	0.0200	0.0201		mg/Kg		101	70 - 141	2	30
2,2-Dichloropropane	0.0200	0.0199		mg/Kg		100	54 - 150	2	28
cis-1,2-Dichloroethene	0.0200	0.0203		mg/Kg		101	74 - 138	4	14
Bromochloromethane	0.0200	0.0207		mg/Kg		104	76 - 150	6	15
Chloroform	0.0200	0.0206		mg/Kg		103	80 - 133	2	13
1,1,1-Trichloroethane	0.0200	0.0188		mg/Kg		94	78 - 150	2	14
Carbon tetrachloride	0.0200	0.0186		mg/Kg		93	77 - 150	3	12
1,1-Dichloropropene	0.0200	0.0190		mg/Kg		95	76 - 150	0	11
Benzene	0.0200	0.0195		mg/Kg		98	79 - 135	1	10
1,2-Dichloroethane	0.0200	0.0215		mg/Kg		107	68 - 150	4	17
Trichloroethene	0.0200	0.0183		mg/Kg		91	80 - 144	1	10
1,2-Dichloropropane	0.0200	0.0209		mg/Kg		104	75 - 136	0	10
Dibromomethane	0.0200	0.0199		mg/Kg		99	72 - 150	7	14
Bromodichloromethane	0.0200	0.0206		mg/Kg		103	79 - 132	1	10

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

Lab Sample ID: LCSD 580-272547/3-A
Matrix: Solid
Analysis Batch: 272545

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 272547

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene			0.0200	0.0210		mg/Kg		105	70 - 122	0	16
Toluene			0.0200	0.0196		mg/Kg		98	80 - 125	1	16
trans-1,3-Dichloropropene			0.0200	0.0208		mg/Kg		104	75 - 121	3	17
1,1,2-Trichloroethane			0.0200	0.0199		mg/Kg		99	73 - 123	4	15
Tetrachloroethene			0.0200	0.0173		mg/Kg		87	61 - 150	2	16
1,3-Dichloropropane			0.0200	0.0212		mg/Kg		106	75 - 120	3	18
Dibromochloromethane			0.0200	0.0205		mg/Kg		103	75 - 125	2	17
1,2-Dibromoethane			0.0200	0.0194		mg/Kg		97	77 - 123	5	18
Chlorobenzene			0.0200	0.0192		mg/Kg		96	80 - 123	2	10
Ethylbenzene			0.0200	0.0191		mg/Kg		95	80 - 127	0	10
1,1,1,2-Tetrachloroethane			0.0200	0.0199		mg/Kg		100	79 - 128	2	11
1,1,2,2-Tetrachloroethane			0.0200	0.0186		mg/Kg		93	57 - 127	4	18
m-Xylene & p-Xylene			0.0200	0.0193		mg/Kg		96	80 - 128	1	13
o-Xylene			0.0200	0.0199		mg/Kg		100	80 - 125	3	14
Styrene			0.0200	0.0192		mg/Kg		96	79 - 129	2	15
Bromoform			0.0200	0.0189		mg/Kg		94	65 - 134	7	17
Isopropylbenzene			0.0200	0.0194		mg/Kg		97	80 - 128	1	17
Bromobenzene			0.0200	0.0190		mg/Kg		95	68 - 126	3	19
N-Propylbenzene			0.0200	0.0184		mg/Kg		92	74 - 127	1	17
1,2,3-Trichloropropane			0.0200	0.0181		mg/Kg		90	59 - 127	6	16
2-Chlorotoluene			0.0200	0.0185		mg/Kg		92	71 - 127	2	16
1,3,5-Trimethylbenzene			0.0200	0.0187		mg/Kg		93	72 - 128	1	16
4-Chlorotoluene			0.0200	0.0185		mg/Kg		92	68 - 126	2	16
t-Butylbenzene			0.0200	0.0182		mg/Kg		91	71 - 127	2	13
1,2,4-Trimethylbenzene			0.0200	0.0187		mg/Kg		93	73 - 127	1	12
sec-Butylbenzene			0.0200	0.0186		mg/Kg		93	70 - 129	0	12
1,3-Dichlorobenzene			0.0200	0.0188		mg/Kg		94	52 - 150	3	12
4-Isopropyltoluene			0.0200	0.0187		mg/Kg		93	71 - 129	1	11
1,4-Dichlorobenzene			0.0200	0.0189		mg/Kg		94	71 - 123	3	12
n-Butylbenzene			0.0200	0.0183		mg/Kg		92	71 - 130	2	12
1,2-Dichlorobenzene			0.0200	0.0193		mg/Kg		97	67 - 126	3	12
1,2-Dibromo-3-Chloropropane			0.0200	0.0181		mg/Kg		91	53 - 129	14	20
1,2,4-Trichlorobenzene			0.0200	0.0185		mg/Kg		92	68 - 131	0	16
1,2,3-Trichlorobenzene			0.0200	0.0191		mg/Kg		95	60 - 129	2	18
Hexachlorobutadiene			0.0200	0.0177		mg/Kg		88	65 - 136	1	19
Naphthalene			0.0200	0.0175		mg/Kg		87	61 - 124	6	17
Methyl tert-butyl ether			0.0200	0.0208		mg/Kg		104	69 - 150	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*75 - 120*
4-Bromofluorobenzene (Surr)	*102*		*47 - 150*
Dibromofluoromethane (Surr)	*104*		*80 - 118*
Trifluorotoluene (Surr)	*96*		*60 - 150*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 121*

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 062175

TestAmerica Job ID: 580-76684-1

Client Sample ID: 062175-20180417-SO-BP-WSW-1 — **Lab Sample ID: 580-76684-1**
Date Collected: 04/17/18 11:00 — **Matrix: Solid**
Date Received: 04/18/18 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	272382	04/26/18 16:16	TTN	TAL SEA

Client Sample ID: 062175-20180417-SO-BP-WSW-1 — **Lab Sample ID: 580-76684-1**
Date Collected: 04/17/18 11:00 — **Matrix: Solid**
Date Received: 04/18/18 12:55 — **Percent Solids: 81.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			272317	04/18/18 15:00	HDK	TAL SEA
Total/NA	Analysis	8260C		1	272322	04/26/18 14:48	T1W	TAL SEA
Total/NA	Prep	5035			272605	04/30/18 16:13	DSO	TAL SEA
Total/NA	Analysis	8260C		1	272689	05/01/18 14:40	W1T	TAL SEA

Client Sample ID: 062175-20180417-SO-BP-NSW-1 — **Lab Sample ID: 580-76684-2**
Date Collected: 04/17/18 11:05 — **Matrix: Solid**
Date Received: 04/18/18 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	272382	04/26/18 16:16	TTN	TAL SEA

Client Sample ID: 062175-20180417-SO-BP-NSW-1 — **Lab Sample ID: 580-76684-2**
Date Collected: 04/17/18 11:05 — **Matrix: Solid**
Date Received: 04/18/18 12:55 — **Percent Solids: 89.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			272547	04/18/18 15:00	HDK	TAL SEA
Total/NA	Analysis	8260C		1	272545	04/30/18 20:45	T1W	TAL SEA

Client Sample ID: 062175-20180418-SO-BP-SSW-1 — **Lab Sample ID: 580-76684-3**
Date Collected: 04/18/18 09:15 — **Matrix: Solid**
Date Received: 04/18/18 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	272382	04/26/18 16:16	TTN	TAL SEA

Client Sample ID: 062175-20180418-SO-BP-SSW-1 — **Lab Sample ID: 580-76684-3**
Date Collected: 04/18/18 09:15 — **Matrix: Solid**
Date Received: 04/18/18 12:55 — **Percent Solids: 80.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			272317	04/18/18 15:00	HDK	TAL SEA
Total/NA	Analysis	8260C		1	272322	04/26/18 15:56	T1W	TAL SEA

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 062175

TestAmerica Job ID: 580-76684-1

Client Sample ID: 062175-20180417-SO-BP-TB — **Lab Sample ID: 580-76684-5**
Date Collected: 04/18/18 12:00 — **Matrix: Solid**
Date Received: 04/18/18 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			272317	04/18/18 15:00	HDK	TAL SEA
Total/NA	Analysis	8260C		1	272322	04/26/18 14:05	T1W	TAL SEA
Total/NA	Prep	5035	RA		272547	04/18/18 15:00	HDK	TAL SEA
Total/NA	Analysis	8260C	RA	1	272545	04/30/18 14:16	T1W	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: 062175

TestAmerica Job ID: 580-76684-1

Laboratory: TestAmerica Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska (UST)	State Program	10	17-024	01-19-19
ANAB	DoD ELAP		L2236	01-19-19
ANAB	ISO/IEC 17025		L2236	01-19-19
California	State Program	9	2901	11-05-18
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-05-18
US Fish & Wildlife	Federal		LE058448-0	10-31-18
USDA	Federal		P330-14-00126	02-10-20
Washington	State Program	10	C553	02-17-19

Sample Summary

Client: GHD Services Inc.
Project/Site: 062175

TestAmerica Job ID: 580-76684-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-76684-1	062175-20180417-SO-BP-WSW-1	Solid	04/17/18 11:00	04/18/18 12:55
580-76684-2	062175-20180417-SO-BP-NSW-1	Solid	04/17/18 11:05	04/18/18 12:55
580-76684-3	062175-20180418-SO-BP-SSW-1	Solid	04/18/18 09:15	04/18/18 12:55
580-76684-5	062175-20180417-SO-BP-TB	Solid	04/18/18 12:00	04/18/18 12:55

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☒ Rush/Regular
☐ Short Hold

Chain of Custody Record

Client	Client Contact	Date	Chain of Custody Number
GHD Limited	Christina McClelland	2018/04/18	37848
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
20818 44th Ave W #190	1-804-237-0303	76684	
City / **State** / **Zip Code**	**Sampler**	**Lab Contact**	
Lynnwood / WA / 98036	Becky Pavlik	Kris Allen	
Project Name and Location (State)	**Billing Contact**		
062175			
Contract/Purchase Order/Quote No.			
062175-2017-02			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Methanol	Analysis (Attach list if more space is needed): VOC 8260	Special Instructions/ Conditions of Receipt
062175-20180417-SO-BP-NSW-1	2018/04/17	11:00				X	3						1	X	Regular TAT
062175-20180417-SO-BP-NSW-1	2018/04/17	11:05				X	3						1	X	Regular TAT ~~Regular~~
062175-20180418-SO-BP-SSW-1	2018/04/18	9:15				X	3						1	X	~~Regular TAT~~ 24 hr TAT
062175-20180418-SO-BP-BOT-1	2018/04/18	9:30				X	3						1	X	24 hr TAT
062175-20180417-SO-BP-TB	2017/04/17	12:00				X	2						1	X	Regular TAT

Therm. ID: A2 Cor: 0.3 ° Unc: 0.5 °
Cooler Dsc: Lg Blue
Packing: B.B
Cust. Seal: Yes ____ No ____
Ice/Packs/Dry Ice/None
FedEx: ____
UPS: ____
Lab Cour: ____
Other: C.D.

580-76684 Chain of Custody

Cooler	Possible Hazard Identification	Sample Disposal	(A fee may be assessed if samples are retained longer than 1 month)
☐ Yes ☐ No Cooler Temp: ____	☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months	

Turn Around Time Required (business days)
☒ 24 Hours ☐ 48 Hours ☐ 5 Days ☒ 10 Days ☐ 15 Days ☐ Other ____

QC Requirements (Specify)

	Relinquished By Sign/Print	Date	Time	Received By Sign/Print	Date	Time
1.	B. PAVLIK	4/18/18	12:55		4.18.18	1255
2.						
3.						

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210) 5/3/2018 (Rev. 1)

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 580-76684-1

Login Number: 76684
List Number: 1
Creator: Blankinship, Tom X

List Source: TestAmerica Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	Refer to Job Narrative for details.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-76684-2
Client Project/Site: 062175
Revision: 1

For:
GHD Services Inc.
4550 Kruse Way, Suite 300
Lake Oswego, Oregon 97035

Attn: Jeff Cloud

Kristine D. Allen

Authorized for release by:
5/3/2018 4:28:15 PM

Kristine Allen, Manager of Project Management
(253)248-4970
kristine.allen@testamericainc.com

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

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

Table of Contents

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Case Narrative

Client: GHD Services Inc.
Project/Site: 062175

TestAmerica Job ID: 580-76684-2

Job ID: 580-76684-2

Laboratory: TestAmerica Seattle

Narrative

Report was revised 5-3-18 to change the reporting units.

Job Narrative
580-76684-2

Comments
No additional comments.

Receipt
The samples were received on 4/18/2018 12:55 PM. The temperature of the cooler at receipt was 8.3º C.

Receipt Exceptions

The container labels for the following sample did not match the information listed on the Chain-of-Custody (COC): 062175-20180417-SO-BP-NSW-1 (580-76684-2). The container labels list the sampling time 1110, while the COC lists 1105. The sample is logged in per COC.

The following samples were received at the laboratory outside the required temperature criteria: 062175-20180417-SO-BP-WSW-1 (580-76684-1), 062175-20180417-SO-BP-NSW-1 (580-76684-2) and 062175-20180417-SO-BP-TB (580-76684-5). The samples were received at 8.3°C The remaining samples in the job were collected on the day of receipt.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 062175

TestAmerica Job ID: 580-76684-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample ID: 062175-20180418-SO-BP-BOT-1 — **Lab Sample ID: 580-76684-4**
Date Collected: 04/18/18 09:30 — **Matrix: Solid**
Date Received: 04/18/18 12:55 — **Percent Solids: 74.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
Chloromethane	ND		0.0053		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
Vinyl chloride	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
Bromomethane	ND		0.0011		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
Chloroethane	ND		0.011		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
Trichlorofluoromethane	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
1,1-Dichloroethene	ND		0.0053		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
Methylene Chloride	ND		0.043		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
trans-1,2-Dichloroethene	**0.013**		0.0021		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
1,1-Dichloroethane	**0.0026**		0.0011		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
2,2-Dichloropropane	ND		0.0053		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
cis-1,2-Dichloroethene	**0.15**		0.0032		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
Bromochloromethane	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
Chloroform	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
1,1,1-Trichloroethane	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
Carbon tetrachloride	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
1,1-Dichloropropene	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
Benzene	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
1,2-Dichloroethane	ND		0.0011		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
Trichloroethene	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
1,2-Dichloropropane	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
Dibromomethane	ND		0.0011		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
Bromodichloromethane	ND		0.0011		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
cis-1,3-Dichloropropene	ND		0.0011		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
Toluene	ND		0.011		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
trans-1,3-Dichloropropene	ND		0.011		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
1,1,2-Trichloroethane	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
Tetrachloroethene	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
1,3-Dichloropropane	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
Dibromochloromethane	ND		0.0016		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
1,2-Dibromoethane	ND		0.0011		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
Chlorobenzene	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
Ethylbenzene	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
1,1,1,2-Tetrachloroethane	ND		0.0032		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
1,1,2,2-Tetrachloroethane	ND		0.0043		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
m-Xylene & p-Xylene	ND		0.011		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
o-Xylene	ND		0.0053		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
Styrene	ND		0.0032		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
Bromoform	ND		0.0053		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
Isopropylbenzene	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
Bromobenzene	ND		0.011		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
N-Propylbenzene	ND		0.0053		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
1,2,3-Trichloropropane	ND		0.0053		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
2-Chlorotoluene	ND		0.0053		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
1,3,5-Trimethylbenzene	ND		0.0053		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
4-Chlorotoluene	ND		0.0053		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
t-Butylbenzene	ND		0.0032		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
1,2,4-Trimethylbenzene	ND		0.0053		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
sec-Butylbenzene	ND		0.0032		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1

Client: GHD Services Inc.
Project/Site: 062175

TestAmerica Job ID: 580-76684-2

Client Sample ID: 062175-20180418-SO-BP-BOT-1
Date Collected: 04/18/18 09:30
Date Received: 04/18/18 12:55

Lab Sample ID: 580-76684-4
Matrix: Solid
Percent Solids: 74.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		0.0053		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
4-Isopropyltoluene	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
1,4-Dichlorobenzene	ND		0.0053		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
n-Butylbenzene	ND		0.0032		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
1,2-Dichlorobenzene	ND		0.011		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
1,2-Dibromo-3-Chloropropane	ND		0.011		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
1,2,4-Trichlorobenzene	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
1,2,3-Trichlorobenzene	ND		0.0032		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
Hexachlorobutadiene	ND		0.0032		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
Naphthalene	ND		0.011		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1
Methyl tert-butyl ether	ND		0.0021		mg/Kg	☼	04/18/18 15:00	04/20/18 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*75 - 120*	*04/18/18 15:00*	*04/20/18 14:55*	*1*
4-Bromofluorobenzene (Surr)	*96*		*47 - 150*	*04/18/18 15:00*	*04/20/18 14:55*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 118*	*04/18/18 15:00*	*04/20/18 14:55*	*1*
Trifluorotoluene (Surr)	*101*		*60 - 150*	*04/18/18 15:00*	*04/20/18 14:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 121*	*04/18/18 15:00*	*04/20/18 14:55*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**74.8**		0.1		%			04/18/18 15:28	1
Percent Moisture	**25.2**		0.1		%			04/18/18 15:28	1

Client: GHD Services Inc.
Project/Site: 062175

TestAmerica Job ID: 580-76684-2

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

Lab Sample ID: MB 580-271873/1-A
Matrix: Solid
Analysis Batch: 271907

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 271873

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.0020		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
Chloromethane	ND		0.0050		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
Vinyl chloride	ND		0.0020		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
Bromomethane	ND		0.0010		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
Chloroethane	ND		0.010		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
Trichlorofluoromethane	ND		0.0020		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
1,1-Dichloroethene	ND		0.0050		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
Methylene Chloride	ND		0.040		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
trans-1,2-Dichloroethene	ND		0.0020		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
1,1-Dichloroethane	ND		0.0010		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
2,2-Dichloropropane	ND		0.0050		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
cis-1,2-Dichloroethene	ND		0.0030		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
Bromochloromethane	ND		0.0020		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
Chloroform	ND		0.0020		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
1,1,1-Trichloroethane	ND		0.0020		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
Carbon tetrachloride	ND		0.0020		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
1,1-Dichloropropene	ND		0.0020		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
Benzene	ND		0.0020		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
1,2-Dichloroethane	ND		0.0010		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
Trichloroethene	ND		0.0020		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
1,2-Dichloropropane	ND		0.0020		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
Dibromomethane	ND		0.0010		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
Bromodichloromethane	ND		0.0010		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
cis-1,3-Dichloropropene	ND		0.0010		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
Toluene	ND		0.010		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
trans-1,3-Dichloropropene	ND		0.010		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
1,1,2-Trichloroethane	ND		0.0020		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
Tetrachloroethene	ND		0.0020		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
1,3-Dichloropropane	ND		0.0020		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
Dibromochloromethane	ND		0.0015		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
1,2-Dibromoethane	ND		0.0010		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
Chlorobenzene	ND		0.0020		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
Ethylbenzene	ND		0.0020		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
1,1,1,2-Tetrachloroethane	ND		0.0030		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
1,1,2,2-Tetrachloroethane	ND		0.0040		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
m-Xylene & p-Xylene	ND		0.010		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
o-Xylene	ND		0.0050		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
Styrene	ND		0.0030		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
Bromoform	ND		0.0050		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
Isopropylbenzene	ND		0.0020		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
Bromobenzene	ND		0.010		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
N-Propylbenzene	ND		0.0050		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
1,2,3-Trichloropropane	ND		0.0050		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
2-Chlorotoluene	ND		0.0050		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
1,3,5-Trimethylbenzene	ND		0.0050		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
4-Chlorotoluene	ND		0.0050		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
t-Butylbenzene	ND		0.0030		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
1,2,4-Trimethylbenzene	ND		0.0050		mg/Kg		04/20/18 10:30	04/20/18 12:18	1

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

Lab Sample ID: MB 580-271873/1-A
Matrix: Solid
Analysis Batch: 271907

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 271873

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.0030		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
1,3-Dichlorobenzene	ND		0.0050		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
4-Isopropyltoluene	ND		0.0020		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
1,4-Dichlorobenzene	ND		0.0050		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
n-Butylbenzene	ND		0.0030		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
1,2-Dichlorobenzene	ND		0.010		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
1,2-Dibromo-3-Chloropropane	ND		0.010		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
1,2,4-Trichlorobenzene	ND		0.0020		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
1,2,3-Trichlorobenzene	ND		0.0030		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
Hexachlorobutadiene	ND		0.0030		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
Naphthalene	ND		0.010		mg/Kg		04/20/18 10:30	04/20/18 12:18	1
Methyl tert-butyl ether	ND		0.0020		mg/Kg		04/20/18 10:30	04/20/18 12:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*75 - 120*	*04/20/18 10:30*	*04/20/18 12:18*	*1*
4-Bromofluorobenzene (Surr)	*98*		*47 - 150*	*04/20/18 10:30*	*04/20/18 12:18*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 118*	*04/20/18 10:30*	*04/20/18 12:18*	*1*
Trifluorotoluene (Surr)	*96*		*60 - 150*	*04/20/18 10:30*	*04/20/18 12:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 121*	*04/20/18 10:30*	*04/20/18 12:18*	*1*

Lab Sample ID: LCS 580-271873/2-A
Matrix: Solid
Analysis Batch: 271907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 271873

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	0.0200	0.0190		mg/Kg		95	33 - 137
Chloromethane	0.0200	0.0196		mg/Kg		98	53 - 145
Vinyl chloride	0.0200	0.0179		mg/Kg		90	28 - 150
Bromomethane	0.0200	0.0180		mg/Kg		90	57 - 146
Chloroethane	0.0200	0.0188		mg/Kg		94	55 - 150
Trichlorofluoromethane	0.0200	0.0181		mg/Kg		90	73 - 143
1,1-Dichloroethene	0.0200	0.0168		mg/Kg		84	77 - 137
Methylene Chloride	0.0200	0.0181	J	mg/Kg		90	66 - 150
trans-1,2-Dichloroethene	0.0200	0.0174		mg/Kg		87	71 - 150
1,1-Dichloroethane	0.0200	0.0180		mg/Kg		90	70 - 141
2,2-Dichloropropane	0.0200	0.0180		mg/Kg		90	54 - 150
cis-1,2-Dichloroethene	0.0200	0.0185		mg/Kg		93	74 - 138
Bromochloromethane	0.0200	0.0197		mg/Kg		99	76 - 150
Chloroform	0.0200	0.0187		mg/Kg		93	80 - 133
1,1,1-Trichloroethane	0.0200	0.0176		mg/Kg		88	78 - 150
Carbon tetrachloride	0.0200	0.0175		mg/Kg		87	77 - 150
1,1-Dichloropropene	0.0200	0.0175		mg/Kg		87	76 - 150
Benzene	0.0200	0.0185		mg/Kg		92	79 - 135
1,2-Dichloroethane	0.0200	0.0195		mg/Kg		98	68 - 150
Trichloroethene	0.0200	0.0181		mg/Kg		90	80 - 144
1,2-Dichloropropane	0.0200	0.0189		mg/Kg		95	75 - 136
Dibromomethane	0.0200	0.0199		mg/Kg		100	72 - 150
Bromodichloromethane	0.0200	0.0197		mg/Kg		98	79 - 132

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

Lab Sample ID: LCS 580-271873/2-A
Matrix: Solid
Analysis Batch: 271907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 271873

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	0.0200	0.0201		mg/Kg		100	70 - 122
Toluene	0.0200	0.0186		mg/Kg		93	80 - 125
trans-1,3-Dichloropropene	0.0200	0.0203		mg/Kg		101	75 - 121
1,1,2-Trichloroethane	0.0200	0.0195		mg/Kg		98	73 - 123
Tetrachloroethene	0.0200	0.0181		mg/Kg		90	61 - 150
1,3-Dichloropropane	0.0200	0.0201		mg/Kg		100	75 - 120
Dibromochloromethane	0.0200	0.0203		mg/Kg		101	75 - 125
1,2-Dibromoethane	0.0200	0.0194		mg/Kg		97	77 - 123
Chlorobenzene	0.0200	0.0187		mg/Kg		93	80 - 123
Ethylbenzene	0.0200	0.0182		mg/Kg		91	80 - 127
1,1,1,2-Tetrachloroethane	0.0200	0.0191		mg/Kg		96	79 - 128
1,1,2,2-Tetrachloroethane	0.0200	0.0179		mg/Kg		90	57 - 127
m-Xylene & p-Xylene	0.0200	0.0185		mg/Kg		93	80 - 128
o-Xylene	0.0200	0.0186		mg/Kg		93	80 - 125
Styrene	0.0200	0.0188		mg/Kg		94	79 - 129
Bromoform	0.0200	0.0186		mg/Kg		93	65 - 134
Isopropylbenzene	0.0200	0.0182		mg/Kg		91	80 - 128
Bromobenzene	0.0200	0.0191		mg/Kg		95	68 - 126
N-Propylbenzene	0.0200	0.0178		mg/Kg		89	74 - 127
1,2,3-Trichloropropane	0.0200	0.0180		mg/Kg		90	59 - 127
2-Chlorotoluene	0.0200	0.0181		mg/Kg		91	71 - 127
1,3,5-Trimethylbenzene	0.0200	0.0183		mg/Kg		92	72 - 128
4-Chlorotoluene	0.0200	0.0181		mg/Kg		90	68 - 126
t-Butylbenzene	0.0200	0.0184		mg/Kg		92	71 - 127
1,2,4-Trimethylbenzene	0.0200	0.0182		mg/Kg		91	73 - 127
sec-Butylbenzene	0.0200	0.0181		mg/Kg		90	70 - 129
1,3-Dichlorobenzene	0.0200	0.0187		mg/Kg		94	52 - 150
4-Isopropyltoluene	0.0200	0.0180		mg/Kg		90	71 - 129
1,4-Dichlorobenzene	0.0200	0.0184		mg/Kg		92	71 - 123
n-Butylbenzene	0.0200	0.0179		mg/Kg		89	71 - 130
1,2-Dichlorobenzene	0.0200	0.0190		mg/Kg		95	67 - 126
1,2-Dibromo-3-Chloropropane	0.0200	0.0166		mg/Kg		83	53 - 129
1,2,4-Trichlorobenzene	0.0200	0.0191		mg/Kg		96	68 - 131
1,2,3-Trichlorobenzene	0.0200	0.0192		mg/Kg		96	60 - 129
Hexachlorobutadiene	0.0200	0.0181		mg/Kg		90	65 - 136
Naphthalene	0.0200	0.0176		mg/Kg		88	61 - 124
Methyl tert-butyl ether	0.0200	0.0191		mg/Kg		96	69 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*75 - 120*
4-Bromofluorobenzene (Surr)	*100*		*47 - 150*
Dibromofluoromethane (Surr)	*100*		*80 - 118*
Trifluorotoluene (Surr)	*98*		*60 - 150*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 121*

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

Lab Sample ID: LCSD 580-271873/3-A
Matrix: Solid
Analysis Batch: 271907

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 271873

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	0.0200	0.0191		mg/Kg		95	33 - 137	0	30
Chloromethane	0.0200	0.0195		mg/Kg		98	53 - 145	0	28
Vinyl chloride	0.0200	0.0171		mg/Kg		85	28 - 150	5	29
Bromomethane	0.0200	0.0173		mg/Kg		87	57 - 146	4	38
Chloroethane	0.0200	0.0180		mg/Kg		90	55 - 150	4	40
Trichlorofluoromethane	0.0200	0.0174		mg/Kg		87	73 - 143	4	26
1,1-Dichloroethene	0.0200	0.0162		mg/Kg		81	77 - 137	4	23
Methylene Chloride	0.0200	0.0183	J	mg/Kg		91	66 - 150	1	40
trans-1,2-Dichloroethene	0.0200	0.0171		mg/Kg		85	71 - 150	2	22
1,1-Dichloroethane	0.0200	0.0176		mg/Kg		88	70 - 141	2	30
2,2-Dichloropropane	0.0200	0.0166		mg/Kg		83	54 - 150	8	28
cis-1,2-Dichloroethene	0.0200	0.0177		mg/Kg		89	74 - 138	4	14
Bromochloromethane	0.0200	0.0193		mg/Kg		96	76 - 150	2	15
Chloroform	0.0200	0.0178		mg/Kg		89	80 - 133	5	13
1,1,1-Trichloroethane	0.0200	0.0167		mg/Kg		83	78 - 150	5	14
Carbon tetrachloride	0.0200	0.0168		mg/Kg		84	77 - 150	4	12
1,1-Dichloropropene	0.0200	0.0165		mg/Kg		82	76 - 150	6	11
Benzene	0.0200	0.0175		mg/Kg		87	79 - 135	5	10
1,2-Dichloroethane	0.0200	0.0188		mg/Kg		94	68 - 150	4	17
Trichloroethene	0.0200	0.0168		mg/Kg		84	80 - 144	7	10
1,2-Dichloropropane	0.0200	0.0184		mg/Kg		92	75 - 136	3	10
Dibromomethane	0.0200	0.0197		mg/Kg		98	72 - 150	1	14
Bromodichloromethane	0.0200	0.0188		mg/Kg		94	79 - 132	5	10
cis-1,3-Dichloropropene	0.0200	0.0189		mg/Kg		94	70 - 122	6	16
Toluene	0.0200	0.0174		mg/Kg		87	80 - 125	7	16
trans-1,3-Dichloropropene	0.0200	0.0188		mg/Kg		94	75 - 121	7	17
1,1,2-Trichloroethane	0.0200	0.0188		mg/Kg		94	73 - 123	4	15
Tetrachloroethene	0.0200	0.0159		mg/Kg		79	61 - 150	13	16
1,3-Dichloropropane	0.0200	0.0187		mg/Kg		93	75 - 120	7	18
Dibromochloromethane	0.0200	0.0198		mg/Kg		99	75 - 125	3	17
1,2-Dibromoethane	0.0200	0.0188		mg/Kg		94	77 - 123	3	18
Chlorobenzene	0.0200	0.0178		mg/Kg		89	80 - 123	5	10
Ethylbenzene	0.0200	0.0173		mg/Kg		87	80 - 127	5	10
1,1,1,2-Tetrachloroethane	0.0200	0.0184		mg/Kg		92	79 - 128	4	11
1,1,2,2-Tetrachloroethane	0.0200	0.0169		mg/Kg		84	57 - 127	6	18
m-Xylene & p-Xylene	0.0200	0.0173		mg/Kg		86	80 - 128	7	13
o-Xylene	0.0200	0.0176		mg/Kg		88	80 - 125	6	14
Styrene	0.0200	0.0181		mg/Kg		90	79 - 129	4	15
Bromoform	0.0200	0.0184		mg/Kg		92	65 - 134	1	17
Isopropylbenzene	0.0200	0.0174		mg/Kg		87	80 - 128	4	17
Bromobenzene	0.0200	0.0180		mg/Kg		90	68 - 126	6	19
N-Propylbenzene	0.0200	0.0161		mg/Kg		80	74 - 127	10	17
1,2,3-Trichloropropane	0.0200	0.0171		mg/Kg		86	59 - 127	5	16
2-Chlorotoluene	0.0200	0.0170		mg/Kg		85	71 - 127	6	16
1,3,5-Trimethylbenzene	0.0200	0.0168		mg/Kg		84	72 - 128	9	16
4-Chlorotoluene	0.0200	0.0167		mg/Kg		84	68 - 126	8	16
t-Butylbenzene	0.0200	0.0165		mg/Kg		83	71 - 127	11	13
1,2,4-Trimethylbenzene	0.0200	0.0169		mg/Kg		84	73 - 127	8	12

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

Lab Sample ID: LCSD 580-271873/3-A
Matrix: Solid
Analysis Batch: 271907

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 271873

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene			0.0200	0.0165		mg/Kg		82	70 - 129	9	12
1,3-Dichlorobenzene			0.0200	0.0175		mg/Kg		88	52 - 150	7	12
4-Isopropyltoluene			0.0200	0.0165		mg/Kg		83	71 - 129	8	11
1,4-Dichlorobenzene			0.0200	0.0177		mg/Kg		88	71 - 123	4	12
n-Butylbenzene			0.0200	0.0168		mg/Kg		84	71 - 130	6	12
1,2-Dichlorobenzene			0.0200	0.0181		mg/Kg		91	67 - 126	5	12
1,2-Dibromo-3-Chloropropane			0.0200	0.0163		mg/Kg		82	53 - 129	1	20
1,2,4-Trichlorobenzene			0.0200	0.0186		mg/Kg		93	68 - 131	3	16
1,2,3-Trichlorobenzene			0.0200	0.0192		mg/Kg		96	60 - 129	0	18
Hexachlorobutadiene			0.0200	0.0168		mg/Kg		84	65 - 136	7	19
Naphthalene			0.0200	0.0180		mg/Kg		90	61 - 124	3	17
Methyl tert-butyl ether			0.0200	0.0190		mg/Kg		95	69 - 150	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*75 - 120*
4-Bromofluorobenzene (Surr)	*103*		*47 - 150*
Dibromofluoromethane (Surr)	*102*		*80 - 118*
Trifluorotoluene (Surr)	*96*		*60 - 150*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 121*

Method: D 2216 - Percent Moisture

Lab Sample ID: 580-76684-4 DU
Matrix: Solid
Analysis Batch: 271709

Client Sample ID: 062175-20180418-SO-BP-BOT-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	74.8			75.2		%				0.5	20
Percent Moisture	25.2			24.8		%				2	20

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 062175

TestAmerica Job ID: 580-76684-2

Client Sample ID: 062175-20180418-SO-BP-BOT-1 — **Lab Sample ID: 580-76684-4**
Date Collected: 04/18/18 09:30 — **Matrix: Solid**
Date Received: 04/18/18 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	271709	04/18/18 15:28	TTN	TAL SEA

Client Sample ID: 062175-20180418-SO-BP-BOT-1 — **Lab Sample ID: 580-76684-4**
Date Collected: 04/18/18 09:30 — **Matrix: Solid**
Date Received: 04/18/18 12:55 — **Percent Solids: 74.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			271873	04/18/18 15:00	HDK	TAL SEA
Total/NA	Analysis	8260C		1	271907	04/20/18 14:55	T1W	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: 062175

TestAmerica Job ID: 580-76684-2

Laboratory: TestAmerica Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska (UST)	State Program	10	17-024	01-19-19
ANAB	DoD ELAP		L2236	01-19-19
ANAB	ISO/IEC 17025		L2236	01-19-19
California	State Program	9	2901	11-05-18
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-05-18
US Fish & Wildlife	Federal		LE058448-0	10-31-18
USDA	Federal		P330-14-00126	02-10-20
Washington	State Program	10	C553	02-17-19

Sample Summary

Client: GHD Services Inc.
Project/Site: 062175

TestAmerica Job ID: 580-76684-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-76684-4	062175-20180418-SO-BP-BOT-1	Solid	04/18/18 09:30	04/18/18 12:55

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Fax 253-922-5047
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☒ Rush/Regular
☐ Short Hold

Chain of Custody Record

Client	Client Contact	Date	Chain of Custody Number
GHD Limited	Christina McClelland	2018/04/18	37848
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
20818 44th Ave W #190	1-804-237-0303	76684	
City / **State** / **Zip Code**	**Sampler**	**Lab Contact**	
Lynnwood / WA / 98036	Becky Pavlik	Kris Allen	
Project Name and Location (State)	**Billing Contact**		
062175			
Contract/Purchase Order/Quote No.			
062175-2017-02			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Methanol	Analysis (Attach list if more space is needed): VOC 8260	Special Instructions/ Conditions of Receipt
062175-20180417-SO-BP-NSW-1	2018/04/17	11:00				X	3						1	X	Regular TAT
062175-20180417-SO-BP-NSW-1	2018/04/17	11:05				X	3						1	X	Regular TAT ~~Regular~~
062175-20180418-SO-BP-SSW-1	2018/04/18	9:15				X	3						1	X	~~Regular TAT~~ 24 hr TAT
062175-20180418-SO-BP-BOT-1	2018/04/18	9:30				X	3						1	X	24 hr TAT
062175-20180417-SO-BP-TB	2017/04/17	12:00				X	2						1	X	Regular TAT

Therm. ID: A2 Cor: 0.3 ° Unc: 0.5 °
Cooler Dsc: Lg Blue
Packing: B.B
Cust. Seal: Yes ____ No ____
Ice/Packs/Dry Ice/None
FedEx: ____
UPS: ____
Lab Cour: ____
Other: C.D.

580-76684 Chain of Custody

Cooler	Possible Hazard Identification	Sample Disposal	(A fee may be assessed if samples are retained longer than 1 month)
☐ Yes ☐ No Cooler Temp: ____	☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months	

Turn Around Time Required (business days)
☒ 24 Hours ☐ 48 Hours ☐ 5 Days ☒ 10 Days ☐ 15 Days ☐ Other ____

QC Requirements (Specify)

	Relinquished By Sign/Print	Date	Time	Received By Sign/Print	Date	Time
1.	B. PAVLIK	4/18/18	12:55		4.18.18	1255
2.						
3.						

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210) 5/3/2018 (Rev. 1)

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 580-76684-2

Login Number: 76684
List Number: 1
Creator: Blankinship, Tom X

List Source: TestAmerica Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	Refer to Job Narrative for details.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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(612)607-1700

June 13, 2018

Christina McClelland
GHD Services, Inc.
20818 44th Ave W
Suite 190
Lynnwood, WA 98036

RE: Project: 062175-05A-03 PCC-Kent
Pace Project No.: 10434153

Dear Christina McClelland:
Enclosed are the analytical results for sample(s) received by the laboratory on June 06, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jennifer Gross
jennifer.gross@pacelabs.com
(206)957-2426
Project Manager

Enclosures

cc: Jeffrey Cloud, GHD Services Inc.

Pace Analytical Services, LLC
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CERTIFICATIONS

Project: 062175-05A-03 PCC-Kent
Pace Project No.: 10434153

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #:MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970

Pace Analytical Services, LLC
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Minneapolis, MN 55414
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SAMPLE SUMMARY

Project: 062175-05A-03 PCC-Kent
Pace Project No.: 10434153

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10434153001	**TB-1**	Water	06/04/18 09:20	06/06/18 09:30
10434153002	**MW-1**	Water	06/04/18 13:25	06/06/18 09:30
10434153003	**MW-3R**	Water	06/04/18 12:35	06/06/18 09:30
10434153004	**MW-6**	Water	06/04/18 10:30	06/06/18 09:30
10434153005	**MW-7**	Water	06/04/18 11:20	06/06/18 09:30
10434153006	**MW-9**	Water	06/04/18 11:55	06/06/18 09:30

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SAMPLE ANALYTE COUNT

Project: 062175-05A-03 PCC-Kent
Pace Project No.: 10434153

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10434153001	**TB-1**	EPA 8260B	DS2	69	PASI-M
10434153002	**MW-1**	EPA 6010D	BD1	1	PASI-M
		EPA 8260B	DS2	69	PASI-M
10434153003	**MW-3R**	EPA 6010D	BD1	1	PASI-M
		EPA 8260B	DS2	69	PASI-M
10434153004	**MW-6**	EPA 6010D	BD1	1	PASI-M
		EPA 8260B	DS2	69	PASI-M
10434153005	**MW-7**	EPA 6010D	BD1	1	PASI-M
		EPA 8260B	DS2	69	PASI-M
10434153006	**MW-9**	EPA 6010D	BD1	1	PASI-M
		EPA 8260B	DS2	69	PASI-M

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PROJECT NARRATIVE

Project: 062175-05A-03 PCC-Kent
Pace Project No.: 10434153

Method: **EPA 6010D**
Description: 6010D MET ICP, Lab Filtered
Client: GHD_PCC Aerostructures
Date: June 13, 2018

General Information:
5 samples were analyzed for EPA 6010D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 062175-05A-03 PCC-Kent
Pace Project No.: 10434153

Method: **EPA 8260B**
Description: 8260B VOC
Client: GHD_PCC Aerostructures
Date: June 13, 2018

General Information:
6 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 543966

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.

- LCS (Lab ID: 2958131)
  - 2,2-Dichloropropane

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 543725

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10434265011

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2957136)
  - 1,2,4-Trimethylbenzene
  - 1,3,5-Trimethylbenzene
  - Benzene
  - Ethylbenzene
  - Naphthalene
  - Toluene
  - n-Propylbenzene

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PROJECT NARRATIVE

Project: 062175-05A-03 PCC-Kent
Pace Project No.: 10434153

Method: **EPA 8260B**
Description: 8260B VOC
Client: GHD_PCC Aerostructures
Date: June 13, 2018

QC Batch: 543725

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10434265011

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 2957137)
  - 1,2,4-Trimethylbenzene
  - 1,3,5-Trimethylbenzene
  - 2-Butanone (MEK)
  - Benzene
  - Ethylbenzene
  - Toluene
  - n-Propylbenzene

R1: RPD value was outside control limits.

- MSD (Lab ID: 2957137)
  - Chloroethane
  - Chloromethane
  - Dichlorodifluoromethane
  - Trichlorofluoromethane
  - Vinyl chloride

Additional Comments:

Analyte Comments:

QC Batch: 543725

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 2957136)
  - 1,2,4-Trimethylbenzene
  - 1,3,5-Trimethylbenzene
  - Benzene
  - Ethylbenzene
- MSD (Lab ID: 2957137)
  - 1,2,4-Trimethylbenzene
  - 1,3,5-Trimethylbenzene
  - Benzene
  - Ethylbenzene

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 062175-05A-03 PCC-Kent
Pace Project No.: 10434153

Sample: TB-1 **Lab ID: 10434153001** Collected: 06/04/18 09:20 Received: 06/06/18 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B							
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/11/18 12:42	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/11/18 12:42	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/11/18 12:42	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/11/18 12:42	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		06/11/18 12:42	76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/11/18 12:42	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/11/18 12:42	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/11/18 12:42	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/11/18 12:42	87-61-6	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		06/11/18 12:42	96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/11/18 12:42	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		06/11/18 12:42	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		06/11/18 12:42	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/11/18 12:42	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/11/18 12:42	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/11/18 12:42	107-06-2	
1,2-Dichloropropane	ND	ug/L	4.0	1		06/11/18 12:42	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		06/11/18 12:42	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/11/18 12:42	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/11/18 12:42	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/11/18 12:42	106-46-7	
2,2-Dichloropropane	ND	ug/L	4.0	1		06/11/18 12:42	594-20-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/11/18 12:42	78-93-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/11/18 12:42	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/11/18 12:42	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/11/18 12:42	108-10-1	
Acetone	ND	ug/L	20.0	1		06/11/18 12:42	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		06/11/18 12:42	107-05-1	
Benzene	ND	ug/L	1.0	1		06/11/18 12:42	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/11/18 12:42	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/11/18 12:42	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/11/18 12:42	75-27-4	
Bromoform	ND	ug/L	4.0	1		06/11/18 12:42	75-25-2	
Bromomethane	ND	ug/L	4.0	1		06/11/18 12:42	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		06/11/18 12:42	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/11/18 12:42	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/11/18 12:42	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/11/18 12:42	67-66-3	
Chloromethane	ND	ug/L	4.0	1		06/11/18 12:42	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		06/11/18 12:42	124-48-1	
Dibromomethane	ND	ug/L	4.0	1		06/11/18 12:42	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/11/18 12:42	75-71-8	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		06/11/18 12:42	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		06/11/18 12:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/11/18 12:42	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/11/18 12:42	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/11/18 12:42	1634-04-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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(612)607-1700

ANALYTICAL RESULTS

Project: 062175-05A-03 PCC-Kent
Pace Project No.: 10434153

Sample: TB-1 **Lab ID: 10434153001** Collected: 06/04/18 09:20 Received: 06/06/18 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B							
Methylene Chloride	ND	ug/L	4.0	1		06/11/18 12:42	75-09-2	
Naphthalene	ND	ug/L	4.0	1		06/11/18 12:42	91-20-3	
Styrene	ND	ug/L	1.0	1		06/11/18 12:42	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/11/18 12:42	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		06/11/18 12:42	109-99-9	
Toluene	ND	ug/L	1.0	1		06/11/18 12:42	108-88-3	
Trichloroethene	ND	ug/L	0.40	1		06/11/18 12:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/11/18 12:42	75-69-4	
Vinyl chloride	ND	ug/L	0.20	1		06/11/18 12:42	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		06/11/18 12:42	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/11/18 12:42	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		06/11/18 12:42	10061-01-5	
n-Butylbenzene	ND	ug/L	1.0	1		06/11/18 12:42	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		06/11/18 12:42	103-65-1	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/11/18 12:42	99-87-6	
sec-Butylbenzene	ND	ug/L	1.0	1		06/11/18 12:42	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		06/11/18 12:42	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/11/18 12:42	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		06/11/18 12:42	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%.	75-125	1		06/11/18 12:42	17060-07-0	
Toluene-d8 (S)	101	%.	75-125	1		06/11/18 12:42	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	75-125	1		06/11/18 12:42	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 062175-05A-03 PCC-Kent
Pace Project No.: 10434153

Sample: MW-1 **Lab ID: 10434153002** Collected: 06/04/18 13:25 Received: 06/06/18 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Lab Filtered	Analytical Method: EPA 6010D Preparation Method: EPA 3010							
Arsenic, Dissolved	ND	ug/L	20.0	1	06/08/18 12:04	06/11/18 07:04	7440-38-2	
8260B VOC	Analytical Method: EPA 8260B							
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/11/18 16:06	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/11/18 16:06	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/11/18 16:06	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/11/18 16:06	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		06/11/18 16:06	76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/11/18 16:06	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/11/18 16:06	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/11/18 16:06	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/11/18 16:06	87-61-6	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		06/11/18 16:06	96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/11/18 16:06	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		06/11/18 16:06	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		06/11/18 16:06	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/11/18 16:06	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/11/18 16:06	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/11/18 16:06	107-06-2	
1,2-Dichloropropane	ND	ug/L	4.0	1		06/11/18 16:06	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		06/11/18 16:06	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/11/18 16:06	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/11/18 16:06	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/11/18 16:06	106-46-7	
2,2-Dichloropropane	ND	ug/L	4.0	1		06/11/18 16:06	594-20-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/11/18 16:06	78-93-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/11/18 16:06	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/11/18 16:06	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/11/18 16:06	108-10-1	
Acetone	ND	ug/L	20.0	1		06/11/18 16:06	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		06/11/18 16:06	107-05-1	
Benzene	ND	ug/L	1.0	1		06/11/18 16:06	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/11/18 16:06	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/11/18 16:06	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/11/18 16:06	75-27-4	
Bromoform	ND	ug/L	4.0	1		06/11/18 16:06	75-25-2	
Bromomethane	ND	ug/L	4.0	1		06/11/18 16:06	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		06/11/18 16:06	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/11/18 16:06	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/11/18 16:06	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/11/18 16:06	67-66-3	
Chloromethane	ND	ug/L	4.0	1		06/11/18 16:06	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		06/11/18 16:06	124-48-1	
Dibromomethane	ND	ug/L	4.0	1		06/11/18 16:06	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/11/18 16:06	75-71-8	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		06/11/18 16:06	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		06/11/18 16:06	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 062175-05A-03 PCC-Kent
Pace Project No.: 10434153

Sample: MW-1 **Lab ID: 10434153002** Collected: 06/04/18 13:25 Received: 06/06/18 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B							
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/11/18 16:06	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/11/18 16:06	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/11/18 16:06	1634-04-4	
Methylene Chloride	ND	ug/L	4.0	1		06/11/18 16:06	75-09-2	
Naphthalene	ND	ug/L	4.0	1		06/11/18 16:06	91-20-3	
Styrene	ND	ug/L	1.0	1		06/11/18 16:06	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/11/18 16:06	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		06/11/18 16:06	109-99-9	
Toluene	ND	ug/L	1.0	1		06/11/18 16:06	108-88-3	
Trichloroethene	ND	ug/L	0.40	1		06/11/18 16:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/11/18 16:06	75-69-4	
Vinyl chloride	ND	ug/L	0.20	1		06/11/18 16:06	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		06/11/18 16:06	1330-20-7	
cis-1,2-Dichloroethene	**2.7**	ug/L	1.0	1		06/11/18 16:06	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		06/11/18 16:06	10061-01-5	
n-Butylbenzene	ND	ug/L	1.0	1		06/11/18 16:06	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		06/11/18 16:06	103-65-1	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/11/18 16:06	99-87-6	
sec-Butylbenzene	ND	ug/L	1.0	1		06/11/18 16:06	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		06/11/18 16:06	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/11/18 16:06	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		06/11/18 16:06	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%.	75-125	1		06/11/18 16:06	17060-07-0	
Toluene-d8 (S)	99	%.	75-125	1		06/11/18 16:06	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	75-125	1		06/11/18 16:06	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: 062175-05A-03 PCC-Kent
Pace Project No.: 10434153

Sample: MW-3R **Lab ID: 10434153003** Collected: 06/04/18 12:35 Received: 06/06/18 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Lab Filtered	Analytical Method: EPA 6010D Preparation Method: EPA 3010							
Arsenic, Dissolved	**21.8**	ug/L	20.0	1	06/08/18 12:04	06/11/18 07:06	7440-38-2	
8260B VOC	Analytical Method: EPA 8260B							
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/12/18 16:28	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/12/18 16:28	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/12/18 16:28	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/12/18 16:28	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		06/12/18 16:28	76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/12/18 16:28	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/12/18 16:28	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/12/18 16:28	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/12/18 16:28	87-61-6	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		06/12/18 16:28	96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/12/18 16:28	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		06/12/18 16:28	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		06/12/18 16:28	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/12/18 16:28	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/12/18 16:28	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/12/18 16:28	107-06-2	
1,2-Dichloropropane	ND	ug/L	4.0	1		06/12/18 16:28	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		06/12/18 16:28	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/12/18 16:28	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/12/18 16:28	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/12/18 16:28	106-46-7	
2,2-Dichloropropane	ND	ug/L	4.0	1		06/12/18 16:28	594-20-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/12/18 16:28	78-93-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/12/18 16:28	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/12/18 16:28	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/12/18 16:28	108-10-1	
Acetone	ND	ug/L	20.0	1		06/12/18 16:28	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		06/12/18 16:28	107-05-1	
Benzene	ND	ug/L	1.0	1		06/12/18 16:28	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/12/18 16:28	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/12/18 16:28	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/12/18 16:28	75-27-4	
Bromoform	ND	ug/L	4.0	1		06/12/18 16:28	75-25-2	
Bromomethane	ND	ug/L	4.0	1		06/12/18 16:28	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		06/12/18 16:28	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/12/18 16:28	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/12/18 16:28	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/12/18 16:28	67-66-3	
Chloromethane	ND	ug/L	4.0	1		06/12/18 16:28	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		06/12/18 16:28	124-48-1	
Dibromomethane	ND	ug/L	4.0	1		06/12/18 16:28	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/12/18 16:28	75-71-8	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		06/12/18 16:28	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		06/12/18 16:28	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 062175-05A-03 PCC-Kent
Pace Project No.: 10434153

Sample: MW-3R **Lab ID: 10434153003** Collected: 06/04/18 12:35 Received: 06/06/18 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B							
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/12/18 16:28	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/12/18 16:28	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/12/18 16:28	1634-04-4	
Methylene Chloride	ND	ug/L	4.0	1		06/12/18 16:28	75-09-2	
Naphthalene	ND	ug/L	4.0	1		06/12/18 16:28	91-20-3	
Styrene	ND	ug/L	1.0	1		06/12/18 16:28	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/12/18 16:28	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		06/12/18 16:28	109-99-9	
Toluene	ND	ug/L	1.0	1		06/12/18 16:28	108-88-3	
Trichloroethene	ND	ug/L	0.40	1		06/12/18 16:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/12/18 16:28	75-69-4	
Vinyl chloride	**0.50**	ug/L	0.20	1		06/12/18 16:28	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		06/12/18 16:28	1330-20-7	
cis-1,2-Dichloroethene	**1.1**	ug/L	1.0	1		06/12/18 16:28	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		06/12/18 16:28	10061-01-5	
n-Butylbenzene	ND	ug/L	1.0	1		06/12/18 16:28	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		06/12/18 16:28	103-65-1	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/12/18 16:28	99-87-6	
sec-Butylbenzene	ND	ug/L	1.0	1		06/12/18 16:28	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		06/12/18 16:28	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/12/18 16:28	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		06/12/18 16:28	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%.	75-125	1		06/12/18 16:28	17060-07-0	
Toluene-d8 (S)	97	%.	75-125	1		06/12/18 16:28	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	1		06/12/18 16:28	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 062175-05A-03 PCC-Kent
Pace Project No.: 10434153

Sample: MW-6 **Lab ID: 10434153004** Collected: 06/04/18 10:30 Received: 06/06/18 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Lab Filtered	Analytical Method: EPA 6010D Preparation Method: EPA 3010							
Arsenic, Dissolved	**32.2**	ug/L	20.0	1	06/08/18 12:04	06/11/18 07:07	7440-38-2	
8260B VOC	Analytical Method: EPA 8260B							
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/12/18 16:45	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/12/18 16:45	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/12/18 16:45	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/12/18 16:45	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		06/12/18 16:45	76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/12/18 16:45	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/12/18 16:45	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/12/18 16:45	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/12/18 16:45	87-61-6	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		06/12/18 16:45	96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/12/18 16:45	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		06/12/18 16:45	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		06/12/18 16:45	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/12/18 16:45	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/12/18 16:45	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/12/18 16:45	107-06-2	
1,2-Dichloropropane	ND	ug/L	4.0	1		06/12/18 16:45	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		06/12/18 16:45	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/12/18 16:45	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/12/18 16:45	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/12/18 16:45	106-46-7	
2,2-Dichloropropane	ND	ug/L	4.0	1		06/12/18 16:45	594-20-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/12/18 16:45	78-93-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/12/18 16:45	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/12/18 16:45	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/12/18 16:45	108-10-1	
Acetone	ND	ug/L	20.0	1		06/12/18 16:45	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		06/12/18 16:45	107-05-1	
Benzene	ND	ug/L	1.0	1		06/12/18 16:45	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/12/18 16:45	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/12/18 16:45	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/12/18 16:45	75-27-4	
Bromoform	ND	ug/L	4.0	1		06/12/18 16:45	75-25-2	
Bromomethane	ND	ug/L	4.0	1		06/12/18 16:45	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		06/12/18 16:45	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/12/18 16:45	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/12/18 16:45	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/12/18 16:45	67-66-3	
Chloromethane	ND	ug/L	4.0	1		06/12/18 16:45	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		06/12/18 16:45	124-48-1	
Dibromomethane	ND	ug/L	4.0	1		06/12/18 16:45	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/12/18 16:45	75-71-8	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		06/12/18 16:45	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		06/12/18 16:45	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 062175-05A-03 PCC-Kent
Pace Project No.: 10434153

Sample: MW-6 **Lab ID: 10434153004** Collected: 06/04/18 10:30 Received: 06/06/18 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B							
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/12/18 16:45	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/12/18 16:45	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/12/18 16:45	1634-04-4	
Methylene Chloride	ND	ug/L	4.0	1		06/12/18 16:45	75-09-2	
Naphthalene	ND	ug/L	4.0	1		06/12/18 16:45	91-20-3	
Styrene	ND	ug/L	1.0	1		06/12/18 16:45	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/12/18 16:45	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		06/12/18 16:45	109-99-9	
Toluene	ND	ug/L	1.0	1		06/12/18 16:45	108-88-3	
Trichloroethene	ND	ug/L	0.40	1		06/12/18 16:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/12/18 16:45	75-69-4	
Vinyl chloride	ND	ug/L	0.20	1		06/12/18 16:45	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		06/12/18 16:45	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/12/18 16:45	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		06/12/18 16:45	10061-01-5	
n-Butylbenzene	ND	ug/L	1.0	1		06/12/18 16:45	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		06/12/18 16:45	103-65-1	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/12/18 16:45	99-87-6	
sec-Butylbenzene	ND	ug/L	1.0	1		06/12/18 16:45	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		06/12/18 16:45	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/12/18 16:45	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		06/12/18 16:45	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%.	75-125	1		06/12/18 16:45	17060-07-0	
Toluene-d8 (S)	97	%.	75-125	1		06/12/18 16:45	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125	1		06/12/18 16:45	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 062175-05A-03 PCC-Kent
Pace Project No.: 10434153

Sample: MW-7 **Lab ID: 10434153005** Collected: 06/04/18 11:20 Received: 06/06/18 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Lab Filtered	Analytical Method: EPA 6010D Preparation Method: EPA 3010							
Arsenic, Dissolved	ND	ug/L	20.0	1	06/08/18 12:04	06/11/18 07:09	7440-38-2	
8260B VOC	Analytical Method: EPA 8260B							
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/12/18 17:02	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/12/18 17:02	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/12/18 17:02	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/12/18 17:02	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		06/12/18 17:02	76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/12/18 17:02	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/12/18 17:02	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/12/18 17:02	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/12/18 17:02	87-61-6	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		06/12/18 17:02	96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/12/18 17:02	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		06/12/18 17:02	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		06/12/18 17:02	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/12/18 17:02	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/12/18 17:02	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/12/18 17:02	107-06-2	
1,2-Dichloropropane	ND	ug/L	4.0	1		06/12/18 17:02	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		06/12/18 17:02	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/12/18 17:02	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/12/18 17:02	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/12/18 17:02	106-46-7	
2,2-Dichloropropane	ND	ug/L	4.0	1		06/12/18 17:02	594-20-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/12/18 17:02	78-93-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/12/18 17:02	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/12/18 17:02	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/12/18 17:02	108-10-1	
Acetone	ND	ug/L	20.0	1		06/12/18 17:02	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		06/12/18 17:02	107-05-1	
Benzene	ND	ug/L	1.0	1		06/12/18 17:02	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/12/18 17:02	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/12/18 17:02	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/12/18 17:02	75-27-4	
Bromoform	ND	ug/L	4.0	1		06/12/18 17:02	75-25-2	
Bromomethane	ND	ug/L	4.0	1		06/12/18 17:02	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		06/12/18 17:02	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/12/18 17:02	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/12/18 17:02	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/12/18 17:02	67-66-3	
Chloromethane	ND	ug/L	4.0	1		06/12/18 17:02	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		06/12/18 17:02	124-48-1	
Dibromomethane	ND	ug/L	4.0	1		06/12/18 17:02	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/12/18 17:02	75-71-8	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		06/12/18 17:02	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		06/12/18 17:02	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 062175-05A-03 PCC-Kent
Pace Project No.: 10434153

Sample: MW-7 **Lab ID: 10434153005** Collected: 06/04/18 11:20 Received: 06/06/18 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B							
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/12/18 17:02	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/12/18 17:02	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/12/18 17:02	1634-04-4	
Methylene Chloride	ND	ug/L	4.0	1		06/12/18 17:02	75-09-2	
Naphthalene	ND	ug/L	4.0	1		06/12/18 17:02	91-20-3	
Styrene	ND	ug/L	1.0	1		06/12/18 17:02	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/12/18 17:02	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		06/12/18 17:02	109-99-9	
Toluene	ND	ug/L	1.0	1		06/12/18 17:02	108-88-3	
Trichloroethene	ND	ug/L	0.40	1		06/12/18 17:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/12/18 17:02	75-69-4	
Vinyl chloride	ND	ug/L	0.20	1		06/12/18 17:02	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		06/12/18 17:02	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/12/18 17:02	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		06/12/18 17:02	10061-01-5	
n-Butylbenzene	ND	ug/L	1.0	1		06/12/18 17:02	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		06/12/18 17:02	103-65-1	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/12/18 17:02	99-87-6	
sec-Butylbenzene	ND	ug/L	1.0	1		06/12/18 17:02	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		06/12/18 17:02	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/12/18 17:02	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		06/12/18 17:02	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%.	75-125	1		06/12/18 17:02	17060-07-0	
Toluene-d8 (S)	97	%.	75-125	1		06/12/18 17:02	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125	1		06/12/18 17:02	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: 062175-05A-03 PCC-Kent
Pace Project No.: 10434153

Sample: MW-9 **Lab ID: 10434153006** Collected: 06/04/18 11:55 Received: 06/06/18 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Lab Filtered	Analytical Method: EPA 6010D	Preparation Method: EPA 3010						
Arsenic, Dissolved	ND	ug/L	20.0	1	06/08/18 12:04	06/11/18 07:11	7440-38-2	
8260B VOC	Analytical Method: EPA 8260B							
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/12/18 17:20	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/12/18 17:20	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/12/18 17:20	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/12/18 17:20	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		06/12/18 17:20	76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/12/18 17:20	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/12/18 17:20	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/12/18 17:20	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/12/18 17:20	87-61-6	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		06/12/18 17:20	96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/12/18 17:20	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		06/12/18 17:20	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		06/12/18 17:20	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/12/18 17:20	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/12/18 17:20	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/12/18 17:20	107-06-2	
1,2-Dichloropropane	ND	ug/L	4.0	1		06/12/18 17:20	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		06/12/18 17:20	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/12/18 17:20	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/12/18 17:20	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/12/18 17:20	106-46-7	
2,2-Dichloropropane	ND	ug/L	4.0	1		06/12/18 17:20	594-20-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/12/18 17:20	78-93-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/12/18 17:20	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/12/18 17:20	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/12/18 17:20	108-10-1	
Acetone	ND	ug/L	20.0	1		06/12/18 17:20	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		06/12/18 17:20	107-05-1	
Benzene	ND	ug/L	1.0	1		06/12/18 17:20	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/12/18 17:20	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/12/18 17:20	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/12/18 17:20	75-27-4	
Bromoform	ND	ug/L	4.0	1		06/12/18 17:20	75-25-2	
Bromomethane	ND	ug/L	4.0	1		06/12/18 17:20	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		06/12/18 17:20	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/12/18 17:20	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/12/18 17:20	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/12/18 17:20	67-66-3	
Chloromethane	ND	ug/L	4.0	1		06/12/18 17:20	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		06/12/18 17:20	124-48-1	
Dibromomethane	ND	ug/L	4.0	1		06/12/18 17:20	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/12/18 17:20	75-71-8	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		06/12/18 17:20	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		06/12/18 17:20	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 062175-05A-03 PCC-Kent
Pace Project No.: 10434153

Sample: MW-9 **Lab ID: 10434153006** Collected: 06/04/18 11:55 Received: 06/06/18 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B							
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/12/18 17:20	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/12/18 17:20	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/12/18 17:20	1634-04-4	
Methylene Chloride	ND	ug/L	4.0	1		06/12/18 17:20	75-09-2	
Naphthalene	ND	ug/L	4.0	1		06/12/18 17:20	91-20-3	
Styrene	ND	ug/L	1.0	1		06/12/18 17:20	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/12/18 17:20	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		06/12/18 17:20	109-99-9	
Toluene	ND	ug/L	1.0	1		06/12/18 17:20	108-88-3	
Trichloroethene	ND	ug/L	0.40	1		06/12/18 17:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/12/18 17:20	75-69-4	
Vinyl chloride	**0.44**	ug/L	0.20	1		06/12/18 17:20	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		06/12/18 17:20	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/12/18 17:20	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		06/12/18 17:20	10061-01-5	
n-Butylbenzene	ND	ug/L	1.0	1		06/12/18 17:20	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		06/12/18 17:20	103-65-1	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/12/18 17:20	99-87-6	
sec-Butylbenzene	ND	ug/L	1.0	1		06/12/18 17:20	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		06/12/18 17:20	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/12/18 17:20	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		06/12/18 17:20	10061-02-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%.	75-125	1		06/12/18 17:20	17060-07-0	
Toluene-d8 (S)	97	%.	75-125	1		06/12/18 17:20	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125	1		06/12/18 17:20	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 062175-05A-03 PCC-Kent
Pace Project No.: 10434153

QC Batch: 543066 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010 Analysis Description: 6010D Water Dissolved
Associated Lab Samples: 10434153002, 10434153003, 10434153004, 10434153005, 10434153006

METHOD BLANK: 2953002 Matrix: Water
Associated Lab Samples: 10434153002, 10434153003, 10434153004, 10434153005, 10434153006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	ND	20.0	06/11/18 06:24	

LABORATORY CONTROL SAMPLE: 2953003

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	1000	965	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2953004 2953005

Parameter	Units	10434007001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	ND	1000	1000	958	991	96	99	75-125	3	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 062175-05A-03 PCC-Kent
Pace Project No.: 10434153

QC Batch: 543725 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV 465 W
Associated Lab Samples: 10434153001, 10434153002

METHOD BLANK: 2957119 Matrix: Water
Associated Lab Samples: 10434153001, 10434153002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	06/11/18 12:08	
1,1,1-Trichloroethane	ug/L	ND	1.0	06/11/18 12:08	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/11/18 12:08	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/11/18 12:08	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	06/11/18 12:08	
1,1-Dichloroethane	ug/L	ND	1.0	06/11/18 12:08	
1,1-Dichloroethene	ug/L	ND	1.0	06/11/18 12:08	
1,1-Dichloropropene	ug/L	ND	1.0	06/11/18 12:08	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	06/11/18 12:08	
1,2,3-Trichloropropane	ug/L	ND	4.0	06/11/18 12:08	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	06/11/18 12:08	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	06/11/18 12:08	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	06/11/18 12:08	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	06/11/18 12:08	
1,2-Dichlorobenzene	ug/L	ND	1.0	06/11/18 12:08	
1,2-Dichloroethane	ug/L	ND	1.0	06/11/18 12:08	
1,2-Dichloropropane	ug/L	ND	4.0	06/11/18 12:08	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	06/11/18 12:08	
1,3-Dichlorobenzene	ug/L	ND	1.0	06/11/18 12:08	
1,3-Dichloropropane	ug/L	ND	1.0	06/11/18 12:08	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/11/18 12:08	
2,2-Dichloropropane	ug/L	ND	4.0	06/11/18 12:08	
2-Butanone (MEK)	ug/L	ND	5.0	06/11/18 12:08	
2-Chlorotoluene	ug/L	ND	1.0	06/11/18 12:08	
4-Chlorotoluene	ug/L	ND	1.0	06/11/18 12:08	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	06/11/18 12:08	
Acetone	ug/L	ND	20.0	06/11/18 12:08	
Allyl chloride	ug/L	ND	4.0	06/11/18 12:08	
Benzene	ug/L	ND	1.0	06/11/18 12:08	
Bromobenzene	ug/L	ND	1.0	06/11/18 12:08	
Bromochloromethane	ug/L	ND	1.0	06/11/18 12:08	
Bromodichloromethane	ug/L	ND	1.0	06/11/18 12:08	
Bromoform	ug/L	ND	4.0	06/11/18 12:08	
Bromomethane	ug/L	ND	4.0	06/11/18 12:08	
Carbon tetrachloride	ug/L	ND	1.0	06/11/18 12:08	
Chlorobenzene	ug/L	ND	1.0	06/11/18 12:08	
Chloroethane	ug/L	ND	1.0	06/11/18 12:08	
Chloroform	ug/L	ND	1.0	06/11/18 12:08	
Chloromethane	ug/L	ND	4.0	06/11/18 12:08	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/11/18 12:08	
cis-1,3-Dichloropropene	ug/L	ND	4.0	06/11/18 12:08	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 062175-05A-03 PCC-Kent
Pace Project No.: 10434153

METHOD BLANK: 2957119 Matrix: Water
Associated Lab Samples: 10434153001, 10434153002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	1.0	06/11/18 12:08	
Dibromomethane	ug/L	ND	4.0	06/11/18 12:08	
Dichlorodifluoromethane	ug/L	ND	1.0	06/11/18 12:08	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	06/11/18 12:08	
Ethylbenzene	ug/L	ND	1.0	06/11/18 12:08	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	06/11/18 12:08	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	06/11/18 12:08	
Methyl-tert-butyl ether	ug/L	ND	1.0	06/11/18 12:08	
Methylene Chloride	ug/L	ND	4.0	06/11/18 12:08	
n-Butylbenzene	ug/L	ND	1.0	06/11/18 12:08	
n-Propylbenzene	ug/L	ND	1.0	06/11/18 12:08	
Naphthalene	ug/L	ND	4.0	06/11/18 12:08	
p-Isopropyltoluene	ug/L	ND	1.0	06/11/18 12:08	
sec-Butylbenzene	ug/L	ND	1.0	06/11/18 12:08	
Styrene	ug/L	ND	1.0	06/11/18 12:08	
tert-Butylbenzene	ug/L	ND	1.0	06/11/18 12:08	
Tetrachloroethene	ug/L	ND	1.0	06/11/18 12:08	
Tetrahydrofuran	ug/L	ND	10.0	06/11/18 12:08	
Toluene	ug/L	ND	1.0	06/11/18 12:08	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/11/18 12:08	
trans-1,3-Dichloropropene	ug/L	ND	4.0	06/11/18 12:08	
Trichloroethene	ug/L	ND	0.40	06/11/18 12:08	
Trichlorofluoromethane	ug/L	ND	1.0	06/11/18 12:08	
Vinyl chloride	ug/L	ND	0.20	06/11/18 12:08	
Xylene (Total)	ug/L	ND	3.0	06/11/18 12:08	
1,2-Dichloroethane-d4 (S)	%.	102	75-125	06/11/18 12:08	
4-Bromofluorobenzene (S)	%.	103	75-125	06/11/18 12:08	
Toluene-d8 (S)	%.	99	75-125	06/11/18 12:08	

LABORATORY CONTROL SAMPLE: 2957120

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.3	97	75-125	
1,1,1-Trichloroethane	ug/L	20	20.6	103	75-125	
1,1,2,2-Tetrachloroethane	ug/L	20	19.7	98	75-129	
1,1,2-Trichloroethane	ug/L	20	20.5	103	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	20.3	101	74-125	
1,1-Dichloroethane	ug/L	20	20.7	103	75-127	
1,1-Dichloroethene	ug/L	20	20.9	104	73-125	
1,1-Dichloropropene	ug/L	20	20.9	105	75-125	
1,2,3-Trichlorobenzene	ug/L	20	18.0	90	74-126	
1,2,3-Trichloropropane	ug/L	20	21.3	106	75-125	
1,2,4-Trichlorobenzene	ug/L	20	19.2	96	75-125	
1,2,4-Trimethylbenzene	ug/L	20	20.5	103	75-125	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 062175-05A-03 PCC-Kent
Pace Project No.: 10434153

LABORATORY CONTROL SAMPLE: 2957120

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	50	50.4	101	64-129	
1,2-Dibromoethane (EDB)	ug/L	20	20.9	104	75-125	
1,2-Dichlorobenzene	ug/L	20	20.2	101	75-125	
1,2-Dichloroethane	ug/L	20	19.8	99	74-125	
1,2-Dichloropropane	ug/L	20	19.6	98	75-125	
1,3,5-Trimethylbenzene	ug/L	20	19.7	99	75-125	
1,3-Dichlorobenzene	ug/L	20	18.9	95	75-125	
1,3-Dichloropropane	ug/L	20	20.8	104	75-125	
1,4-Dichlorobenzene	ug/L	20	19.1	96	75-125	
2,2-Dichloropropane	ug/L	20	23.7	119	70-125	
2-Butanone (MEK)	ug/L	100	104	104	57-130	
2-Chlorotoluene	ug/L	20	18.9	94	75-125	
4-Chlorotoluene	ug/L	20	19.0	95	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	103	103	69-137	
Acetone	ug/L	100	86.9	87	32-150	
Allyl chloride	ug/L	20	18.5	93	64-135	
Benzene	ug/L	20	19.7	99	75-126	
Bromobenzene	ug/L	20	19.0	95	75-125	
Bromochloromethane	ug/L	20	21.1	105	75-126	
Bromodichloromethane	ug/L	20	19.0	95	75-125	
Bromoform	ug/L	20	19.0	95	67-125	
Bromomethane	ug/L	20	14.9	75	30-150	
Carbon tetrachloride	ug/L	20	20.5	103	75-125	
Chlorobenzene	ug/L	20	19.6	98	75-125	
Chloroethane	ug/L	20	21.6	108	64-142	
Chloroform	ug/L	20	19.5	98	75-125	
Chloromethane	ug/L	20	16.7	84	40-150	
cis-1,2-Dichloroethene	ug/L	20	21.3	106	75-125	
cis-1,3-Dichloropropene	ug/L	20	20.6	103	75-125	
Dibromochloromethane	ug/L	20	19.6	98	75-125	
Dibromomethane	ug/L	20	20.5	103	75-125	
Dichlorodifluoromethane	ug/L	20	22.7	114	61-132	
Diethyl ether (Ethyl ether)	ug/L	20	22.0	110	74-125	
Ethylbenzene	ug/L	20	19.1	95	75-125	
Hexachloro-1,3-butadiene	ug/L	20	21.0	105	75-125	
Isopropylbenzene (Cumene)	ug/L	20	20.1	100	75-125	
Methyl-tert-butyl ether	ug/L	20	22.2	111	73-129	
Methylene Chloride	ug/L	20	20.9	105	72-125	
n-Butylbenzene	ug/L	20	19.9	99	75-125	
n-Propylbenzene	ug/L	20	19.2	96	75-125	
Naphthalene	ug/L	20	19.6	98	65-126	
p-Isopropyltoluene	ug/L	20	20.2	101	75-125	
sec-Butylbenzene	ug/L	20	20.2	101	75-125	
Styrene	ug/L	20	20.4	102	75-125	
tert-Butylbenzene	ug/L	20	19.5	98	75-125	
Tetrachloroethene	ug/L	20	18.6	93	75-125	
Tetrahydrofuran	ug/L	200	216	108	30-150	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 062175-05A-03 PCC-Kent
Pace Project No.: 10434153

LABORATORY CONTROL SAMPLE: 2957120

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	20	19.4	97	74-125	
trans-1,2-Dichloroethene	ug/L	20	21.2	106	70-126	
trans-1,3-Dichloropropene	ug/L	20	20.6	103	75-125	
Trichloroethene	ug/L	20	19.9	100	75-125	
Trichlorofluoromethane	ug/L	20	19.8	99	71-131	
Vinyl chloride	ug/L	20	19.4	97	65-137	
Xylene (Total)	ug/L	60	60.4	101	75-125	
1,2-Dichloroethane-d4 (S)	%.			102	75-125	
4-Bromofluorobenzene (S)	%.			100	75-125	
Toluene-d8 (S)	%.			100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2957136 2957137

Parameter	Units	10434265011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	15.3	16.5	77	82	69-130	7	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	16.8	18.7	84	93	72-133	10	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	15.2	16.3	76	82	60-137	7	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	16.8	17.1	84	85	70-128	1	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	18.0	19.6	90	98	64-147	8	30	
1,1-Dichloroethane	ug/L	ND	20	20	18.9	20.8	94	104	64-136	10	30	
1,1-Dichloroethene	ug/L	ND	20	20	17.1	18.7	85	93	67-139	9	30	
1,1-Dichloropropene	ug/L	ND	20	20	18.1	19.8	91	99	69-131	9	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	14.4	14.6	72	73	60-138	2	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	17.1	18.8	81	89	67-129	10	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	16.0	15.6	80	78	71-125	2	30	
1,2,4-Trimethylbenzene	ug/L	930	20	20	895	876	-178	-270	67-130	2	30	E,M1
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	39.9	43.7	80	87	52-141	9	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	15.9	17.2	80	86	66-130	8	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	15.5	16.8	78	84	72-126	8	30	
1,2-Dichloroethane	ug/L	ND	20	20	16.4	17.7	82	89	64-125	8	30	
1,2-Dichloropropane	ug/L	ND	20	20	17.4	18.9	86	94	65-128	9	30	
1,3,5-Trimethylbenzene	ug/L	274	20	20	319	321	223	237	63-139	1	30	E,M1
1,3-Dichlorobenzene	ug/L	ND	20	20	15.0	16.1	75	81	70-128	7	30	
1,3-Dichloropropane	ug/L	ND	20	20	15.5	16.9	78	84	70-131	8	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	15.0	15.8	75	79	74-125	5	30	
2,2-Dichloropropane	ug/L	ND	20	20	20.3	23.1	102	115	58-137	13	30	
2-Butanone (MEK)	ug/L	ND	100	100	129	141	129	141	45-132	9	30	M1
2-Chlorotoluene	ug/L	ND	20	20	17.8	20.8	89	104	66-134	15	30	
4-Chlorotoluene	ug/L	ND	20	20	14.5	15.8	72	78	70-132	9	30	
4-Methyl-2-pentanone (MIBK)	ug/L	5.7	100	100	93.1	98.7	87	93	54-143	6	30	
Acetone	ug/L	ND	100	100	86.3	90.6	86	91	51-150	5	30	
Allyl chloride	ug/L	ND	20	20	19.1	19.9	96	99	52-150	4	30	
Benzene	ug/L	1520	20	20	1130	975	-1960	-2720	62-140	14	30	E,M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 062175-05A-03 PCC-Kent
Pace Project No.: 10434153

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2957136 2957137

Parameter	Units	10434265011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromobenzene	ug/L	ND	20	20	14.7	16.0	73	80	70-128	9	30	
Bromochloromethane	ug/L	ND	20	20	16.6	17.9	83	89	65-131	7	30	
Bromodichloromethane	ug/L	ND	20	20	14.8	16.0	74	79	74-127	8	30	
Bromoform	ug/L	ND	20	20	15.0	15.4	75	77	59-125	3	30	
Bromomethane	ug/L	ND	20	20	16.8	13.6	84	68	30-149	21	30	
Carbon tetrachloride	ug/L	ND	20	20	17.4	18.5	87	93	67-134	6	30	
Chlorobenzene	ug/L	ND	20	20	15.8	16.8	79	84	72-131	6	30	
Chloroethane	ug/L	ND	20	20	25.3	15.0	127	75	55-150	51	30	R1
Chloroform	ug/L	ND	20	20	16.1	17.6	80	88	67-125	9	30	
Chloromethane	ug/L	ND	20	20	20.1	13.1	101	66	43-148	42	30	R1
cis-1,2-Dichloroethene	ug/L	ND	20	20	17.2	19.2	86	96	62-132	11	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	16.5	18.2	82	91	63-129	10	30	
Dibromochloromethane	ug/L	ND	20	20	15.0	16.2	75	81	67-127	8	30	
Dibromomethane	ug/L	ND	20	20	16.5	17.5	83	87	68-132	6	30	
Dichlorodifluoromethane	ug/L	ND	20	20	27.4	16.2	137	81	59-144	51	30	R1
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	16.2	17.7	81	88	52-139	9	30	
Ethylbenzene	ug/L	755	20	20	700	695	-276	-301	75-131	1	30	E,M1
Hexachloro-1,3-butadiene	ug/L	ND	20	20	19.1	17.4	95	87	58-146	9	30	
Isopropylbenzene (Cumene)	ug/L	61.9	20	20	76.2	78.2	72	82	71-132	3	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	16.9	18.8	83	93	65-130	11	30	
Methylene Chloride	ug/L	ND	20	20	15.1	16.5	74	81	66-125	9	30	
n-Butylbenzene	ug/L	20.9	20	20	43.2	41.9	111	105	57-141	3	30	
n-Propylbenzene	ug/L	135	20	20	140	148	24	66	70-131	6	30	M1
Naphthalene	ug/L	166	20	20	170	186	18	98	48-134	9	30	M1
p-Isopropyltoluene	ug/L	20.8	20	20	34.4	35.9	68	75	66-136	4	30	
sec-Butylbenzene	ug/L	15.2	20	20	32.2	32.5	85	87	69-134	1	30	
Styrene	ug/L	ND	20	20	17.1	18.4	86	92	65-134	7	30	
tert-Butylbenzene	ug/L	5.6	20	20	21.9	22.4	81	84	71-130	2	30	
Tetrachloroethene	ug/L	ND	20	20	15.8	16.4	79	82	69-135	4	30	
Tetrahydrofuran	ug/L	ND	200	200	174	187	87	94	48-150	7	30	
Toluene	ug/L	44.5	20	20	53.0	53.2	43	43	68-132	0	30	M1
trans-1,2-Dichloroethene	ug/L	ND	20	20	17.6	19.3	88	97	61-134	9	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	16.1	17.1	78	83	66-125	6	30	
Trichloroethene	ug/L	ND	20	20	17.2	18.4	86	92	64-136	7	30	
Trichlorofluoromethane	ug/L	ND	20	20	23.3	13.9	117	70	65-146	51	30	R1
Vinyl chloride	ug/L	ND	20	20	23.5	13.9	118	70	51-150	51	30	R1
Xylene (Total)	ug/L	3050	60	60	2350	2370	-1150	-1130	69-135	0	30	ES,MS
1,2-Dichloroethane-d4 (S)	%.						107	109	75-125			
4-Bromofluorobenzene (S)	%.						100	99	75-125			
Toluene-d8 (S)	%.						100	100	75-125			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 062175-05A-03 PCC-Kent
Pace Project No.: 10434153

QC Batch: 543966 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV 465 W
Associated Lab Samples: 10434153003, 10434153004, 10434153005, 10434153006

METHOD BLANK: 2958130 Matrix: Water
Associated Lab Samples: 10434153003, 10434153004, 10434153005, 10434153006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	06/12/18 11:04	
1,1,1-Trichloroethane	ug/L	ND	1.0	06/12/18 11:04	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/12/18 11:04	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/12/18 11:04	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	06/12/18 11:04	
1,1-Dichloroethane	ug/L	ND	1.0	06/12/18 11:04	
1,1-Dichloroethene	ug/L	ND	1.0	06/12/18 11:04	
1,1-Dichloropropene	ug/L	ND	1.0	06/12/18 11:04	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	06/12/18 11:04	
1,2,3-Trichloropropane	ug/L	ND	4.0	06/12/18 11:04	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	06/12/18 11:04	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	06/12/18 11:04	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	06/12/18 11:04	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	06/12/18 11:04	
1,2-Dichlorobenzene	ug/L	ND	1.0	06/12/18 11:04	
1,2-Dichloroethane	ug/L	ND	1.0	06/12/18 11:04	
1,2-Dichloropropane	ug/L	ND	4.0	06/12/18 11:04	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	06/12/18 11:04	
1,3-Dichlorobenzene	ug/L	ND	1.0	06/12/18 11:04	
1,3-Dichloropropane	ug/L	ND	1.0	06/12/18 11:04	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/12/18 11:04	
2,2-Dichloropropane	ug/L	ND	4.0	06/12/18 11:04	
2-Butanone (MEK)	ug/L	ND	5.0	06/12/18 11:04	
2-Chlorotoluene	ug/L	ND	1.0	06/12/18 11:04	
4-Chlorotoluene	ug/L	ND	1.0	06/12/18 11:04	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	06/12/18 11:04	
Acetone	ug/L	ND	20.0	06/12/18 11:04	
Allyl chloride	ug/L	ND	4.0	06/12/18 11:04	
Benzene	ug/L	ND	1.0	06/12/18 11:04	
Bromobenzene	ug/L	ND	1.0	06/12/18 11:04	
Bromochloromethane	ug/L	ND	1.0	06/12/18 11:04	
Bromodichloromethane	ug/L	ND	1.0	06/12/18 11:04	
Bromoform	ug/L	ND	4.0	06/12/18 11:04	
Bromomethane	ug/L	ND	4.0	06/12/18 11:04	
Carbon tetrachloride	ug/L	ND	1.0	06/12/18 11:04	
Chlorobenzene	ug/L	ND	1.0	06/12/18 11:04	
Chloroethane	ug/L	ND	1.0	06/12/18 11:04	
Chloroform	ug/L	ND	1.0	06/12/18 11:04	
Chloromethane	ug/L	ND	4.0	06/12/18 11:04	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/12/18 11:04	
cis-1,3-Dichloropropene	ug/L	ND	4.0	06/12/18 11:04	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 062175-05A-03 PCC-Kent
Pace Project No.: 10434153

METHOD BLANK: 2958130 Matrix: Water
Associated Lab Samples: 10434153003, 10434153004, 10434153005, 10434153006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	1.0	06/12/18 11:04	
Dibromomethane	ug/L	ND	4.0	06/12/18 11:04	
Dichlorodifluoromethane	ug/L	ND	1.0	06/12/18 11:04	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	06/12/18 11:04	
Ethylbenzene	ug/L	ND	1.0	06/12/18 11:04	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	06/12/18 11:04	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	06/12/18 11:04	
Methyl-tert-butyl ether	ug/L	ND	1.0	06/12/18 11:04	
Methylene Chloride	ug/L	ND	4.0	06/12/18 11:04	
n-Butylbenzene	ug/L	ND	1.0	06/12/18 11:04	
n-Propylbenzene	ug/L	ND	1.0	06/12/18 11:04	
Naphthalene	ug/L	ND	4.0	06/12/18 11:04	
p-Isopropyltoluene	ug/L	ND	1.0	06/12/18 11:04	
sec-Butylbenzene	ug/L	ND	1.0	06/12/18 11:04	
Styrene	ug/L	ND	1.0	06/12/18 11:04	
tert-Butylbenzene	ug/L	ND	1.0	06/12/18 11:04	
Tetrachloroethene	ug/L	ND	1.0	06/12/18 11:04	
Tetrahydrofuran	ug/L	ND	10.0	06/12/18 11:04	
Toluene	ug/L	ND	1.0	06/12/18 11:04	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/12/18 11:04	
trans-1,3-Dichloropropene	ug/L	ND	4.0	06/12/18 11:04	
Trichloroethene	ug/L	ND	0.40	06/12/18 11:04	
Trichlorofluoromethane	ug/L	ND	1.0	06/12/18 11:04	
Vinyl chloride	ug/L	ND	0.20	06/12/18 11:04	
Xylene (Total)	ug/L	ND	3.0	06/12/18 11:04	
1,2-Dichloroethane-d4 (S)	%.	100	75-125	06/12/18 11:04	
4-Bromofluorobenzene (S)	%.	105	75-125	06/12/18 11:04	
Toluene-d8 (S)	%.	102	75-125	06/12/18 11:04	

LABORATORY CONTROL SAMPLE: 2958131

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.5	98	75-125	
1,1,1-Trichloroethane	ug/L	20	21.6	108	75-125	
1,1,2,2-Tetrachloroethane	ug/L	20	19.5	98	75-129	
1,1,2-Trichloroethane	ug/L	20	20.5	103	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	22.2	111	74-125	
1,1-Dichloroethane	ug/L	20	22.1	110	75-127	
1,1-Dichloroethene	ug/L	20	21.3	107	73-125	
1,1-Dichloropropene	ug/L	20	22.8	114	75-125	
1,2,3-Trichlorobenzene	ug/L	20	17.5	88	74-126	
1,2,3-Trichloropropane	ug/L	20	20.2	101	75-125	
1,2,4-Trichlorobenzene	ug/L	20	19.4	97	75-125	
1,2,4-Trimethylbenzene	ug/L	20	21.2	106	75-125	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 062175-05A-03 PCC-Kent
Pace Project No.: 10434153

LABORATORY CONTROL SAMPLE: 2958131

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	50	48.6	97	64-129	
1,2-Dibromoethane (EDB)	ug/L	20	20.9	104	75-125	
1,2-Dichlorobenzene	ug/L	20	20.5	103	75-125	
1,2-Dichloroethane	ug/L	20	19.9	100	74-125	
1,2-Dichloropropane	ug/L	20	20.1	100	75-125	
1,3,5-Trimethylbenzene	ug/L	20	20.6	103	75-125	
1,3-Dichlorobenzene	ug/L	20	19.2	96	75-125	
1,3-Dichloropropane	ug/L	20	20.5	103	75-125	
1,4-Dichlorobenzene	ug/L	20	19.6	98	75-125	
2,2-Dichloropropane	ug/L	20	25.2	126	70-125	L3
2-Butanone (MEK)	ug/L	100	92.4	92	57-130	
2-Chlorotoluene	ug/L	20	20.2	101	75-125	
4-Chlorotoluene	ug/L	20	20.1	101	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	92.3	92	69-137	
Acetone	ug/L	100	95.9	96	32-150	
Allyl chloride	ug/L	20	18.9	94	64-135	
Benzene	ug/L	20	21.2	106	75-126	
Bromobenzene	ug/L	20	19.9	100	75-125	
Bromochloromethane	ug/L	20	22.3	112	75-126	
Bromodichloromethane	ug/L	20	19.4	97	75-125	
Bromoform	ug/L	20	18.5	93	67-125	
Bromomethane	ug/L	20	22.0	110	30-150	
Carbon tetrachloride	ug/L	20	21.4	107	75-125	
Chlorobenzene	ug/L	20	19.6	98	75-125	
Chloroethane	ug/L	20	21.6	108	64-142	
Chloroform	ug/L	20	20.5	103	75-125	
Chloromethane	ug/L	20	16.1	80	40-150	
cis-1,2-Dichloroethene	ug/L	20	22.3	112	75-125	
cis-1,3-Dichloropropene	ug/L	20	21.4	107	75-125	
Dibromochloromethane	ug/L	20	19.9	99	75-125	
Dibromomethane	ug/L	20	21.0	105	75-125	
Dichlorodifluoromethane	ug/L	20	21.5	108	61-132	
Diethyl ether (Ethyl ether)	ug/L	20	22.5	113	74-125	
Ethylbenzene	ug/L	20	19.1	96	75-125	
Hexachloro-1,3-butadiene	ug/L	20	20.3	101	75-125	
Isopropylbenzene (Cumene)	ug/L	20	20.4	102	75-125	
Methyl-tert-butyl ether	ug/L	20	23.1	115	73-129	
Methylene Chloride	ug/L	20	21.1	106	72-125	
n-Butylbenzene	ug/L	20	20.4	102	75-125	
n-Propylbenzene	ug/L	20	20.1	101	75-125	
Naphthalene	ug/L	20	18.6	93	65-126	
p-Isopropyltoluene	ug/L	20	20.9	104	75-125	
sec-Butylbenzene	ug/L	20	21.0	105	75-125	
Styrene	ug/L	20	20.5	103	75-125	
tert-Butylbenzene	ug/L	20	20.7	103	75-125	
Tetrachloroethene	ug/L	20	18.9	95	75-125	
Tetrahydrofuran	ug/L	200	246	123	30-150	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 062175-05A-03 PCC-Kent
Pace Project No.: 10434153

LABORATORY CONTROL SAMPLE: 2958131

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	20	19.8	99	74-125	
trans-1,2-Dichloroethene	ug/L	20	22.8	114	70-126	
trans-1,3-Dichloropropene	ug/L	20	21.0	105	75-125	
Trichloroethene	ug/L	20	20.7	104	75-125	
Trichlorofluoromethane	ug/L	20	19.1	95	71-131	
Vinyl chloride	ug/L	20	19.1	95	65-137	
Xylene (Total)	ug/L	60	60.6	101	75-125	
1,2-Dichloroethane-d4 (S)	%.			102	75-125	
4-Bromofluorobenzene (S)	%.			104	75-125	
Toluene-d8 (S)	%.			100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2958132 2958133

Parameter	Units	10433705013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	17.4	19.1	87	96	69-130	9	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	20.8	22.0	104	110	72-133	6	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	16.0	18.1	80	90	60-137	12	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	18.0	19.0	90	95	70-128	6	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	21.7	22.9	109	115	64-147	5	30	
1,1-Dichloroethane	ug/L	ND	20	20	20.9	21.9	104	110	64-136	5	30	
1,1-Dichloroethene	ug/L	ND	20	20	20.8	22.2	104	111	67-139	7	30	
1,1-Dichloropropene	ug/L	ND	20	20	21.7	23.1	109	116	69-131	6	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	13.6	15.8	68	79	60-138	15	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	17.3	18.5	87	93	67-129	7	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	14.9	17.4	75	87	71-125	16	30	
1,2,4-Trimethylbenzene	ug/L	1.2	20	20	19.1	21.7	89	103	67-130	13	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	40.7	44.0	81	88	52-141	8	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	18.8	19.5	94	97	66-130	4	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	17.0	19.0	85	95	72-126	11	30	
1,2-Dichloroethane	ug/L	ND	20	20	18.0	19.2	90	96	64-125	7	30	
1,2-Dichloropropane	ug/L	ND	20	20	18.5	19.9	92	99	65-128	7	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	17.7	19.9	89	99	63-139	11	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	16.3	18.4	81	92	70-128	12	30	
1,3-Dichloropropane	ug/L	ND	20	20	18.6	19.3	93	96	70-131	3	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	16.2	18.3	81	92	74-125	12	30	
2,2-Dichloropropane	ug/L	ND	20	20	23.8	25.5	119	128	58-137	7	30	
2-Butanone (MEK)	ug/L	ND	100	100	84.7	85.9	85	86	45-132	1	30	
2-Chlorotoluene	ug/L	ND	20	20	17.7	19.0	88	95	66-134	7	30	
4-Chlorotoluene	ug/L	ND	20	20	16.9	19.2	84	96	70-132	13	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	84.4	86.0	84	86	54-143	2	30	
Acetone	ug/L	ND	100	100	78.4	85.2	78	85	51-150	8	30	
Allyl chloride	ug/L	ND	20	20	16.9	18.4	85	92	52-150	8	30	
Benzene	ug/L	4.5	20	20	23.5	25.7	95	106	62-140	9	30	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 062175-05A-03 PCC-Kent
Pace Project No.: 10434153

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2958132 2958133

Parameter	Units	10433705013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromobenzene	ug/L	ND	20	20	16.9	18.9	84	94	70-128	11	30	
Bromochloromethane	ug/L	ND	20	20	20.0	21.4	100	107	65-131	7	30	
Bromodichloromethane	ug/L	ND	20	20	17.4	18.9	87	94	74-127	8	30	
Bromoform	ug/L	ND	20	20	16.5	16.9	83	84	59-125	2	30	
Bromomethane	ug/L	ND	20	20	21.1	21.4	105	107	30-149	1	30	
Carbon tetrachloride	ug/L	ND	20	20	21.2	21.8	106	109	67-134	3	30	
Chlorobenzene	ug/L	ND	20	20	18.1	19.4	90	97	72-131	7	30	
Chloroethane	ug/L	ND	20	20	21.4	21.6	107	108	55-150	1	30	
Chloroform	ug/L	ND	20	20	19.0	19.9	95	100	67-125	5	30	
Chloromethane	ug/L	ND	20	20	16.8	16.9	84	84	43-148	0	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.6	21.9	108	110	62-132	1	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	19.4	20.5	97	102	63-129	6	30	
Dibromochloromethane	ug/L	ND	20	20	17.0	18.6	85	93	67-127	9	30	
Dibromomethane	ug/L	ND	20	20	18.2	19.4	91	97	68-132	6	30	
Dichlorodifluoromethane	ug/L	1.1	20	20	24.3	24.1	116	115	59-144	1	30	
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	19.8	21.2	99	106	52-139	7	30	
Ethylbenzene	ug/L	7.9	20	20	25.5	28.5	88	103	75-131	11	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	16.3	18.8	82	94	58-146	14	30	
Isopropylbenzene (Cumene)	ug/L	1.1	20	20	20.2	21.7	96	103	71-132	7	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	20.3	21.4	102	107	65-130	5	30	
Methylene Chloride	ug/L	ND	20	20	18.4	19.9	92	99	66-125	8	30	
n-Butylbenzene	ug/L	ND	20	20	17.0	19.4	85	97	57-141	13	30	
n-Propylbenzene	ug/L	1.2	20	20	18.6	21.2	87	100	70-131	13	30	
Naphthalene	ug/L	ND	20	20	15.3	17.3	71	81	48-134	12	30	
p-Isopropyltoluene	ug/L	ND	20	20	18.1	20.4	90	102	66-136	12	30	
sec-Butylbenzene	ug/L	ND	20	20	18.4	21.1	91	104	69-134	14	30	
Styrene	ug/L	ND	20	20	18.7	20.1	93	101	65-134	7	30	
tert-Butylbenzene	ug/L	ND	20	20	17.6	19.9	88	99	71-130	12	30	
Tetrachloroethene	ug/L	ND	20	20	18.1	19.3	91	97	69-135	6	30	
Tetrahydrofuran	ug/L	ND	200	200	201	219	100	110	48-150	9	30	
Toluene	ug/L	ND	20	20	18.8	20.4	91	99	68-132	8	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.7	22.6	109	113	61-134	4	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	18.4	19.5	92	97	66-125	5	30	
Trichloroethene	ug/L	ND	20	20	19.9	20.9	100	105	64-136	5	30	
Trichlorofluoromethane	ug/L	ND	20	20	19.8	19.8	99	99	65-146	0	30	
Vinyl chloride	ug/L	ND	20	20	20.0	19.8	100	99	51-150	1	30	
Xylene (Total)	ug/L	ND	60	60	59.4	63.3	95	102	69-135	6	30	
1,2-Dichloroethane-d4 (S)	%.						103	101	75-125			
4-Bromofluorobenzene (S)	%.						100	103	75-125			
Toluene-d8 (S)	%.						99	99	75-125			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 062175-05A-03 PCC-Kent
Pace Project No.: 10434153

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
ES	The reported result is estimated because one or more of the constituent results are qualified as such.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
R1	RPD value was outside control limits.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

METHOD CROSS REFERENCE TABLE

Project: 062175-05A-03 PCC-Kent
Pace Project No.: 10434153

Parameter	Matrix	Analytical Method	Preparation Method
8260B VOC	Water	SW-846 8260B/5030B	N/A

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 062175-05A-03 PCC-Kent
Pace Project No.: 10434153

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10434153002	**MW-1**	EPA 3010	543066	EPA 6010D	543633
10434153003	**MW-3R**	EPA 3010	543066	EPA 6010D	543633
10434153004	**MW-6**	EPA 3010	543066	EPA 6010D	543633
10434153005	**MW-7**	EPA 3010	543066	EPA 6010D	543633
10434153006	**MW-9**	EPA 3010	543066	EPA 6010D	543633
10434153001	**TB-1**	EPA 8260B	543725		
10434153002	**MW-1**	EPA 8260B	543725		
10434153003	**MW-3R**	EPA 8260B	543966		
10434153004	**MW-6**	EPA 8260B	543966		
10434153005	**MW-7**	EPA 8260B	543966		
10434153006	**MW-9**	EPA 8260B	543966		

CHAIN-OF-CUSTODY / Analytical Request Do

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must

WO# : 10434153

10434153

Pace Analytical

Section A – Required Client Information:	Section B – Required Project Information:	Section C – Invoice Information:
Company: GHD Services	Report To: christina.mcclelland@ghd.com	Attention:
121 North 20th St	Copy To: jeffrey.cloud@ghd.com	Company Name: GHD Services
Lynnwood, WA 98036	Purchase Order No.	Address:
Email To: christina.mcclelland@ghd.com	Client Project ID: 062175-05A-03 PCC - Kent	Pace Quote Reference:
Phone: Fax	Container Order Number:	Pace Project Manager: Jenni Gross
Requested Due Date/TAT: 10 Day (Standard)		Pace Profile #:

Regulatory Agency

State / Location: Kent/ WA

Requested Analysis Filtered (Y/N)

SAMPLE ID

One Character per box. (A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM#	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: 8260 Full List VOCs	**6010 Dissolved As	Residual Chlorine (Y/N)	
1	TB-1	WT	G	6-4-18	0920	–	–		2				X					X			001
2	MW-1	WT	G		1320	6-4-18	1325		4	X			X					X	X		002
3	MW-3R	WT	G		1232		1235		4	X			X					X	X		003
4	MW-6	WT	G		1027		1030		4	X			X					X	X		004
5	MW-7	WT	G		1116		1120		4	X			X					X	X		005
6	MW-9	WT	G	↓	1151	↓	1155		4	X			X					X	X		006
7		WT	G				1235 TB														
8		WT	G																		
9		WT	G																		
10		OT																			
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
**Lab to filter and preserve		6-4-18	1205	PACE	6/5/18	1205
					6/6/18	9:30

SAMPLE CONDITIONS

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
1.1	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tony Dalri

SIGNATURE of SAMPLER:

DATE Signed: 6-4-18

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 02May2018 Page 1 of 2
	Document No.: **F-MN-L-213-rev.23**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: GHD

Project #: **WO#: 10434153**

PM: JMG **Due Date: 06/13/18**

CLIENT: GHD_PCC Aero

Courier: [X] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [ ] Pace [ ] SpeeDee [ ] Other:

Tracking Number: 7975 9640 7540

Custody Seal on Cooler/Box Present? [X] Yes [ ] No **Seals Intact?** [X] Yes [ ] No **Optional:** Proj. Due Date: Proj. Name:

Packing Material: [ ] Bubble Wrap [X] Bubble Bags [ ] None [ ] Other: **Temp Blank?** [ ] Yes [X] No

Thermometer Used: [ ] G87A9170600254 [X] G87A9155100842 **Type of Ice:** [X] Wet [ ] Blue [ ] None [ ] Dry [ ] Melted

Cooler Temp Read (°C): 1.1 **Cooler Temp Corrected (°C):** 1.1 **Biological Tissue Frozen?** [ ] Yes [ ] No [X] N/A

Temp should be above freezing to 6°C **Correction Factor:** true **Date and Initials of Person Examining Contents:** RG 6/6/18

USDA Regulated Soil ([X] N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? [ ] Yes [ ] No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? [ ] Yes [ ] No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present?	[X] Yes	[ ] No		1.
Chain of Custody Filled Out?	[X] Yes	[ ] No		2.
Chain of Custody Relinquished?	[X] Yes	[ ] No		3.
Sampler Name and/or Signature on COC?	[X] Yes	[ ] No	[ ] N/A	4.
Samples Arrived within Hold Time?	[X] Yes	[ ] No		5.
Short Hold Time Analysis (<72 hr)?	[ ] Yes	[X] No		6.
Rush Turn Around Time Requested?	[ ] Yes	[X] No		7.
Sufficient Volume?	[X] Yes	[ ] No		8.
Correct Containers Used?	[X] Yes	[ ] No		9.
-Pace Containers Used?	[X] Yes	[ ] No		
Containers Intact?	[X] Yes	[ ] No		10.
Filtered Volume Received for Dissolved Tests? 6/6/18	[ ] Yes	[X] No	[ ] N/A	11. Note if sediment is visible in the dissolved container
Is sufficient information available to reconcile the samples to the COC? Matrix: WT	[X] Yes	[ ] No		12.
All containers needing acid/base preservation have been checked?	[ ] Yes	[ ] No	[X] N/A	13. [ ] HNO_3 [ ] H_2SO_4 [ ] NaOH Positive for Res. Chlorine? Y N
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide)	[ ] Yes	[ ] No	[X] N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	[X] Yes	[ ] No	[ ] N/A	Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	[ ] Yes	[X] No	[ ] N/A	14.
Trip Blank Present?	[X] Yes	[ ] No	[ ] N/A	15.
Trip Blank Custody Seals Present?	[X] Yes	[ ] No	[ ] N/A	
Pace Trip Blank Lot # (if purchased): 161799				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** [ ] Yes [ ] No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Jenni Gross **Date:** 06/06/18

Note: Whenever there is a discrepancy affecting North Carolina c hold, incorrect preservative, out of temp, incorrect containers). a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of

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: 580-76723-1
Client Project/Site: 062175
Revision: 1

For:
GHD Services Inc.
4550 Kruse Way, Suite 300
Lake Oswego, Oregon 97035

Attn: Jeff Cloud

Kristine D. Allen

Authorized for release by:
5/3/2018 4:11:14 PM

Kristine Allen, Manager of Project Management
(253)248-4970
kristine.allen@testamericainc.com

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

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

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Client: GHD Services Inc.
Project/Site: 062175

TestAmerica Job ID: 580-76723-1

Job ID: 580-76723-1

Laboratory: TestAmerica Seattle

Narrative

Report was revised 5-10 to change reporting units.

Job Narrative
580-76723-1

Comments
No additional comments.

Receipt
The samples were received on 4/19/2018 3:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.1º C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-272545 recovered above the upper control limit for Methylene Chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 062175-20180419-SO-BP-BOT-2 (580-76723-1), 062175-20180419-SO-BP- (580-76723-4) and (CCVIS 580-272545/4).

Method(s) 8260C: The following sample is reported for 1,2-Dibromo-3-Chloropropane with low failing QC. The CCVIS recovered low biased at -24.5% and it was not detected in the CCVL. The sample was reanalyzed in batch 272545 with concurring results and QC passed criteria however, the internal standard (IS) in the sample failed low so the data is reported from the initial run. No vials remain. 062175-20180419-SO-BP-SSW-2 (580-76723-2)

Method(s) 8260C: The following sample was reanalyzed due to carryover in the initial batch. 062175-20180419-SO-BP-ESW-1 (580-76723-3)

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: 062175-20180419-SO-BP-GW (580-76723-5). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-272325 recovered above the upper control limit for Isopropylbenzene and 2,2-Dichloropropane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (CCVIS 580-272325/3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 062175

TestAmerica Job ID: 580-76723-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample ID: 062175-20180419-SO-BP-BOT-2
Date Collected: 04/19/18 09:30
Date Received: 04/19/18 15:00

Lab Sample ID: 580-76723-1
Matrix: Solid
Percent Solids: 74.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
Chloromethane	ND		0.0058		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
Vinyl chloride	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
Bromomethane	ND		0.0012		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
Chloroethane	ND		0.012		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
Trichlorofluoromethane	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
1,1-Dichloroethene	ND		0.0058		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
Methylene Chloride	ND		0.046		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
trans-1,2-Dichloroethene	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
1,1-Dichloroethane	ND		0.0012		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
2,2-Dichloropropane	ND		0.0058		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
cis-1,2-Dichloroethene	**0.014**		0.0035		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
Bromochloromethane	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
Chloroform	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
1,1,1-Trichloroethane	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
Carbon tetrachloride	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
1,1-Dichloropropene	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
Benzene	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
1,2-Dichloroethane	ND		0.0012		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
Trichloroethene	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
1,2-Dichloropropane	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
Dibromomethane	ND		0.0012		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
Bromodichloromethane	ND		0.0012		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
cis-1,3-Dichloropropene	ND		0.0012		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
Toluene	ND		0.012		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
trans-1,3-Dichloropropene	ND		0.012		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
1,1,2-Trichloroethane	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
Tetrachloroethene	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
1,3-Dichloropropane	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
Dibromochloromethane	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
1,2-Dibromoethane	ND		0.0012		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
Chlorobenzene	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
Ethylbenzene	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
1,1,1,2-Tetrachloroethane	ND		0.0035		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
1,1,2,2-Tetrachloroethane	ND		0.0046		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
m-Xylene & p-Xylene	ND		0.012		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
o-Xylene	ND		0.0058		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
Styrene	ND		0.0035		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
Bromoform	ND		0.0058		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
Isopropylbenzene	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
Bromobenzene	ND		0.012		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
N-Propylbenzene	ND		0.0058		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
1,2,3-Trichloropropane	ND		0.0058		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
2-Chlorotoluene	ND		0.0058		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
1,3,5-Trimethylbenzene	ND		0.0058		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
4-Chlorotoluene	ND		0.0058		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
t-Butylbenzene	ND		0.0035		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
1,2,4-Trimethylbenzene	ND		0.0058		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
sec-Butylbenzene	ND		0.0035		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1

Client: GHD Services Inc.
Project/Site: 062175

TestAmerica Job ID: 580-76723-1

Client Sample ID: 062175-20180419-SO-BP-BOT-2
Date Collected: 04/19/18 09:30
Date Received: 04/19/18 15:00

Lab Sample ID: 580-76723-1
Matrix: Solid
Percent Solids: 74.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		0.0058		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
4-Isopropyltoluene	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
1,4-Dichlorobenzene	ND		0.0058		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
n-Butylbenzene	ND		0.0035		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
1,2-Dichlorobenzene	ND		0.012		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
1,2-Dibromo-3-Chloropropane	ND		0.012		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
1,2,4-Trichlorobenzene	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
1,2,3-Trichlorobenzene	ND		0.0035		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
Hexachlorobutadiene	ND		0.0035		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
Naphthalene	ND		0.012		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1
Methyl tert-butyl ether	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*75 - 120*	*04/19/18 15:00*	*04/30/18 18:26*	*1*
4-Bromofluorobenzene (Surr)	*94*		*47 - 150*	*04/19/18 15:00*	*04/30/18 18:26*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 118*	*04/19/18 15:00*	*04/30/18 18:26*	*1*
Trifluorotoluene (Surr)	*95*		*60 - 150*	*04/19/18 15:00*	*04/30/18 18:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 121*	*04/19/18 15:00*	*04/30/18 18:26*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**74.0**		0.1		%			04/26/18 16:16	1
Percent Moisture	**26.0**		0.1		%			04/26/18 16:16	1

Client: GHD Services Inc.
Project/Site: 062175

TestAmerica Job ID: 580-76723-1

Client Sample ID: 062175-20180419-SO-BP-SSW-2
Date Collected: 04/19/18 10:15
Date Received: 04/19/18 15:00

Lab Sample ID: 580-76723-2
Matrix: Solid
Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
Chloromethane	ND		0.0044		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
Vinyl chloride	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
Bromomethane	ND		0.00087		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
1,1-Dichloroethane	**0.88**		0.044		mg/Kg	☼	04/30/18 16:13	05/01/18 14:14	1
Chloroethane	ND		0.0087		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
Trichlorofluoromethane	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
1,1-Dichloroethene	**0.068**		0.0044		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
Methylene Chloride	ND		0.035		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
trans-1,2-Dichloroethene	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
2,2-Dichloropropane	ND		0.0044		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
cis-1,2-Dichloroethene	**0.044**		0.0026		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
Bromochloromethane	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
Chloroform	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
1,1,1-Trichloroethane	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
Carbon tetrachloride	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
1,1-Dichloropropene	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
Benzene	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
1,2-Dichloroethane	**0.0032**		0.00087		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
Trichloroethene	**0.052**		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
1,2-Dichloropropane	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
Dibromomethane	ND		0.00087		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
Bromodichloromethane	ND		0.00087		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
cis-1,3-Dichloropropene	ND		0.00087		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
Toluene	ND		0.0087		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
trans-1,3-Dichloropropene	ND		0.0087		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
1,1,2-Trichloroethane	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
Tetrachloroethene	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
1,3-Dichloropropane	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
Dibromochloromethane	ND		0.0013		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
1,2-Dibromoethane	ND		0.00087		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
Chlorobenzene	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
Ethylbenzene	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
1,1,1,2-Tetrachloroethane	ND		0.0026		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
1,1,2,2-Tetrachloroethane	ND		0.0035		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
m-Xylene & p-Xylene	ND		0.0087		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
o-Xylene	ND		0.0044		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
Styrene	ND		0.0026		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
Bromoform	ND		0.0044		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
Isopropylbenzene	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
Bromobenzene	ND		0.0087		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
N-Propylbenzene	ND		0.0044		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
1,2,3-Trichloropropane	ND		0.0044		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
2-Chlorotoluene	ND		0.0044		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
1,3,5-Trimethylbenzene	ND		0.0044		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
4-Chlorotoluene	ND		0.0044		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
t-Butylbenzene	ND		0.0026		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
1,2,4-Trimethylbenzene	ND		0.0044		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
sec-Butylbenzene	ND		0.0026		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1

Client: GHD Services Inc.
Project/Site: 062175

TestAmerica Job ID: 580-76723-1

Client Sample ID: 062175-20180419-SO-BP-SSW-2
Date Collected: 04/19/18 10:15
Date Received: 04/19/18 15:00

Lab Sample ID: 580-76723-2
Matrix: Solid
Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		0.0044		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
4-Isopropyltoluene	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
1,4-Dichlorobenzene	ND		0.0044		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
n-Butylbenzene	ND		0.0026		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
1,2-Dichlorobenzene	ND		0.0087		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
1,2-Dibromo-3-Chloropropane	ND		0.0087		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
1,2,4-Trichlorobenzene	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
1,2,3-Trichlorobenzene	ND		0.0026		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
Hexachlorobutadiene	ND		0.0026		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
Naphthalene	ND		0.0087		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1
Methyl tert-butyl ether	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*75 - 120*	*04/19/18 15:00*	*04/26/18 17:55*	*1*
Toluene-d8 (Surr)	*95*		*75 - 120*	*04/30/18 16:13*	*05/01/18 14:14*	*1*
4-Bromofluorobenzene (Surr)	*102*		*47 - 150*	*04/30/18 16:13*	*05/01/18 14:14*	*1*
Dibromofluoromethane (Surr)	*89*		*80 - 118*	*04/30/18 16:13*	*05/01/18 14:14*	*1*
Trifluorotoluene (Surr)	*114*		*60 - 150*	*04/30/18 16:13*	*05/01/18 14:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*80 - 121*	*04/30/18 16:13*	*05/01/18 14:14*	*1*
4-Bromofluorobenzene (Surr)	*97*		*47 - 150*	*04/19/18 15:00*	*04/26/18 17:55*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 118*	*04/19/18 15:00*	*04/26/18 17:55*	*1*
Trifluorotoluene (Surr)	*93*		*60 - 150*	*04/19/18 15:00*	*04/26/18 17:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 121*	*04/19/18 15:00*	*04/26/18 17:55*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**88.1**		0.1		%			04/26/18 16:16	1
Percent Moisture	**11.9**		0.1		%			04/26/18 16:16	1

Client Sample ID: 062175-20180419-SO-BP-ESW-1
Date Collected: 04/19/18 11:30
Date Received: 04/19/18 15:00

Lab Sample ID: 580-76723-3
Matrix: Solid
Percent Solids: 88.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
Chloromethane	ND		0.0042		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
Vinyl chloride	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
Bromomethane	ND		0.00085		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
Chloroethane	ND		0.0085		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
Trichlorofluoromethane	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
1,1-Dichloroethene	ND		0.0042		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
Methylene Chloride	ND		0.034		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
trans-1,2-Dichloroethene	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
2,2-Dichloropropane	ND		0.0042		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
cis-1,2-Dichloroethene	**0.018**		0.0025		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
Bromochloromethane	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
Chloroform	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
1,1,1-Trichloroethane	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
Carbon tetrachloride	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
1,1-Dichloropropene	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
Benzene	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
1,2-Dichloroethane	ND		0.00085		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
Trichloroethene	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
1,2-Dichloropropane	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
Dibromomethane	ND		0.00085		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
Bromodichloromethane	ND		0.00085		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
cis-1,3-Dichloropropene	ND		0.00085		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
Toluene	ND		0.0085		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
trans-1,3-Dichloropropene	ND		0.0085		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
1,1,2-Trichloroethane	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
Tetrachloroethene	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
1,3-Dichloropropane	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
Dibromochloromethane	ND		0.0013		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
1,2-Dibromoethane	ND		0.00085		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
Chlorobenzene	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
Ethylbenzene	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
1,1,1,2-Tetrachloroethane	ND		0.0025		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
1,1,2,2-Tetrachloroethane	ND		0.0034		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
m-Xylene & p-Xylene	ND		0.0085		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
o-Xylene	ND		0.0042		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
Styrene	ND		0.0025		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
Bromoform	ND		0.0042		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
Isopropylbenzene	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
Bromobenzene	ND		0.0085		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
N-Propylbenzene	ND		0.0042		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
1,2,3-Trichloropropane	ND		0.0042		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
2-Chlorotoluene	ND		0.0042		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
1,3,5-Trimethylbenzene	ND		0.0042		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
4-Chlorotoluene	ND		0.0042		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
t-Butylbenzene	ND		0.0025		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
1,2,4-Trimethylbenzene	ND		0.0042		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
sec-Butylbenzene	ND		0.0025		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
1,3-Dichlorobenzene	ND		0.0042		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1

Client: GHD Services Inc.
Project/Site: 062175

TestAmerica Job ID: 580-76723-1

Client Sample ID: 062175-20180419-SO-BP-ESW-1
Date Collected: 04/19/18 11:30
Date Received: 04/19/18 15:00

Lab Sample ID: 580-76723-3
Matrix: Solid
Percent Solids: 88.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Isopropyltoluene	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
1,4-Dichlorobenzene	ND		0.0042		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
n-Butylbenzene	ND		0.0025		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
1,2-Dichlorobenzene	ND		0.0085		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
1,2,4-Trichlorobenzene	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
1,2,3-Trichlorobenzene	ND		0.0025		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
Hexachlorobutadiene	ND		0.0025		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
Naphthalene	ND		0.0085		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1
Methyl tert-butyl ether	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/26/18 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*75 - 120*	*04/19/18 15:00*	*04/26/18 18:22*	*1*
4-Bromofluorobenzene (Surr)	*90*		*47 - 150*	*04/19/18 15:00*	*04/26/18 18:22*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 118*	*04/19/18 15:00*	*04/26/18 18:22*	*1*
Trifluorotoluene (Surr)	*93*		*60 - 150*	*04/19/18 15:00*	*04/26/18 18:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 121*	*04/19/18 15:00*	*04/26/18 18:22*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.0095		mg/Kg	☼	04/19/18 15:00	04/30/18 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*75 - 120*	*04/19/18 15:00*	*04/30/18 19:22*	*1*
4-Bromofluorobenzene (Surr)	*88*		*47 - 150*	*04/19/18 15:00*	*04/30/18 19:22*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 118*	*04/19/18 15:00*	*04/30/18 19:22*	*1*
Trifluorotoluene (Surr)	*92*		*60 - 150*	*04/19/18 15:00*	*04/30/18 19:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 121*	*04/19/18 15:00*	*04/30/18 19:22*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**88.5**		0.1		%			04/26/18 16:16	1
Percent Moisture	**11.5**		0.1		%			04/26/18 16:16	1

Client Sample ID: 062175-20180419-SO-BP-
Date Collected: 04/19/18 11:40
Date Received: 04/19/18 15:00

Lab Sample ID: 580-76723-4
Matrix: Solid
Percent Solids: 72.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
Chloromethane	ND		0.0057		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
Vinyl chloride	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
Bromomethane	ND		0.0011		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
Chloroethane	ND		0.011		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
Trichlorofluoromethane	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
1,1-Dichloroethene	ND		0.0057		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
Methylene Chloride	ND		0.045		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
trans-1,2-Dichloroethene	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
1,1-Dichloroethane	ND		0.0011		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
2,2-Dichloropropane	ND		0.0057		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
cis-1,2-Dichloroethene	ND		0.0034		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
Bromochloromethane	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
Chloroform	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
1,1,1-Trichloroethane	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
Carbon tetrachloride	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
1,1-Dichloropropene	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
Benzene	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
1,2-Dichloroethane	ND		0.0011		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
Trichloroethene	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
1,2-Dichloropropane	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
Dibromomethane	ND		0.0011		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
Bromodichloromethane	ND		0.0011		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
cis-1,3-Dichloropropene	ND		0.0011		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
Toluene	ND		0.011		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
trans-1,3-Dichloropropene	ND		0.011		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
1,1,2-Trichloroethane	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
Tetrachloroethene	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
1,3-Dichloropropane	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
Dibromochloromethane	ND		0.0017		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
1,2-Dibromoethane	ND		0.0011		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
Chlorobenzene	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
Ethylbenzene	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
1,1,1,2-Tetrachloroethane	ND		0.0034		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
1,1,2,2-Tetrachloroethane	ND		0.0045		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
m-Xylene & p-Xylene	ND		0.011		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
o-Xylene	ND		0.0057		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
Styrene	ND		0.0034		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
Bromoform	ND		0.0057		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
Isopropylbenzene	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
Bromobenzene	ND		0.011		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
N-Propylbenzene	ND		0.0057		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
1,2,3-Trichloropropane	ND		0.0057		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
2-Chlorotoluene	ND		0.0057		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
1,3,5-Trimethylbenzene	ND		0.0057		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
4-Chlorotoluene	ND		0.0057		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
t-Butylbenzene	ND		0.0034		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
1,2,4-Trimethylbenzene	ND		0.0057		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
sec-Butylbenzene	ND		0.0034		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1

Client: GHD Services Inc.
Project/Site: 062175

TestAmerica Job ID: 580-76723-1

Client Sample ID: 062175-20180419-SO-BP-
Date Collected: 04/19/18 11:40
Date Received: 04/19/18 15:00

Lab Sample ID: 580-76723-4
Matrix: Solid
Percent Solids: 72.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		0.0057		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
4-Isopropyltoluene	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
1,4-Dichlorobenzene	ND		0.0057		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
n-Butylbenzene	ND		0.0034		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
1,2-Dichlorobenzene	ND		0.011		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
1,2-Dibromo-3-Chloropropane	ND		0.011		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
1,2,4-Trichlorobenzene	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
1,2,3-Trichlorobenzene	ND		0.0034		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
Hexachlorobutadiene	ND		0.0034		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
Naphthalene	ND		0.011		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1
Methyl tert-butyl ether	ND		0.0023		mg/Kg	☼	04/19/18 15:00	04/30/18 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*75 - 120*	*04/19/18 15:00*	*04/30/18 19:49*	*1*
4-Bromofluorobenzene (Surr)	*97*		*47 - 150*	*04/19/18 15:00*	*04/30/18 19:49*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 118*	*04/19/18 15:00*	*04/30/18 19:49*	*1*
Trifluorotoluene (Surr)	*94*		*60 - 150*	*04/19/18 15:00*	*04/30/18 19:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 121*	*04/19/18 15:00*	*04/30/18 19:49*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**72.0**		0.1		%			04/26/18 16:16	1
Percent Moisture	**28.0**		0.1		%			04/26/18 16:16	1

Client: GHD Services Inc.
Project/Site: 062175

TestAmerica Job ID: 580-76723-1

Client Sample ID: 062175-20180419-SO-BP-GW
Date Collected: 04/19/18 12:00
Date Received: 04/19/18 15:00

Lab Sample ID: 580-76723-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.30		ug/L			04/27/18 15:34	1
2-Chlorotoluene	ND		0.50		ug/L			04/27/18 15:34	1
1,2,3-Trichloropropane	ND		0.20		ug/L			04/27/18 15:34	1
Carbon tetrachloride	ND		0.20		ug/L			04/27/18 15:34	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			04/27/18 15:34	1
Chlorobenzene	ND		0.20		ug/L			04/27/18 15:34	1
Vinyl chloride	**0.25**		0.020		ug/L			04/27/18 15:34	1
sec-Butylbenzene	ND		1.0		ug/L			04/27/18 15:34	1
Dibromomethane	ND		0.20		ug/L			04/27/18 15:34	1
m-Xylene & p-Xylene	**0.50**		0.50		ug/L			04/27/18 15:34	1
o-Xylene	ND		0.50		ug/L			04/27/18 15:34	1
1,2,4-Trichlorobenzene	ND		0.30		ug/L			04/27/18 15:34	1
Styrene	ND		0.50		ug/L			04/27/18 15:34	1
Chlorobromomethane	ND		0.20		ug/L			04/27/18 15:34	1
Dichlorobromomethane	ND		0.20		ug/L			04/27/18 15:34	1
1,3-Dichlorobenzene	ND		0.30		ug/L			04/27/18 15:34	1
Benzene	**0.32**		0.20		ug/L			04/27/18 15:34	1
Chloroethane	**1.7**		0.50		ug/L			04/27/18 15:34	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			04/27/18 15:34	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			04/27/18 15:34	1
N-Propylbenzene	ND		0.30		ug/L			04/27/18 15:34	1
4-Isopropyltoluene	ND		0.30		ug/L			04/27/18 15:34	1
n-Butylbenzene	ND		0.50		ug/L			04/27/18 15:34	1
1,1-Dichloropropene	ND		0.20		ug/L			04/27/18 15:34	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			04/27/18 15:34	1
1,2,4-Trimethylbenzene	ND		0.30		ug/L			04/27/18 15:34	1
Toluene	**1.2**		0.20		ug/L			04/27/18 15:34	1
Naphthalene	ND		1.0		ug/L			04/27/18 15:34	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			04/27/18 15:34	1
1,3-Dichloropropane	ND		0.20		ug/L			04/27/18 15:34	1
Chloroform	ND		0.20		ug/L			04/27/18 15:34	1
4-Chlorotoluene	ND		0.30		ug/L			04/27/18 15:34	1
Chlorodibromomethane	ND		0.20		ug/L			04/27/18 15:34	1
Dichlorodifluoromethane	ND		0.40		ug/L			04/27/18 15:34	1
1,1,2-Trichloroethane	ND		0.20		ug/L			04/27/18 15:34	1
tert-Butylbenzene	ND		0.50		ug/L			04/27/18 15:34	1
Chloromethane	ND		0.50		ug/L			04/27/18 15:34	1
Methylene Chloride	ND		5.0		ug/L			04/27/18 15:34	1
1,1-Dichloroethene	**2.0**		0.20		ug/L			04/27/18 15:34	1
Isopropylbenzene	ND		1.0		ug/L			04/27/18 15:34	1
1,2-Dichloroethane	ND		0.20		ug/L			04/27/18 15:34	1
Tetrachloroethene	ND		0.50		ug/L			04/27/18 15:34	1
1,1,1-Trichloroethane	**0.75**		0.20		ug/L			04/27/18 15:34	1
2,2-Dichloropropane	ND		0.50		ug/L			04/27/18 15:34	1
Ethylene Dibromide	ND		0.10		ug/L			04/27/18 15:34	1
Bromoform	ND		0.50		ug/L			04/27/18 15:34	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			04/27/18 15:34	1
Trichlorofluoromethane	ND		0.50		ug/L			04/27/18 15:34	1
Trichloroethene	**14**		0.20		ug/L			04/27/18 15:34	1

Client: GHD Services Inc.
Project/Site: 062175

TestAmerica Job ID: 580-76723-1

Client Sample ID: 062175-20180419-SO-BP-GW — **Lab Sample ID: 580-76723-5**
Date Collected: 04/19/18 12:00 — **Matrix: Water**
Date Received: 04/19/18 15:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		0.20		ug/L			04/27/18 15:34	1
1,2-Dichloropropane	ND		0.20		ug/L			04/27/18 15:34	1
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			04/27/18 15:34	1
Ethylbenzene	ND		0.20		ug/L			04/27/18 15:34	1
trans-1,2-Dichloroethene	**3.0**		0.20		ug/L			04/27/18 15:34	1
Hexachlorobutadiene	ND		0.50		ug/L			04/27/18 15:34	1
1,1-Dichloroethane	**4.1**		0.20		ug/L			04/27/18 15:34	1
Bromomethane	ND		0.50		ug/L			04/27/18 15:34	1
1,4-Dichlorobenzene	ND		0.30		ug/L			04/27/18 15:34	1
Methyl tert-butyl ether	ND		0.30		ug/L			04/27/18 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*		*04/27/18 15:34*	*1*
Toluene-d8 (Surr)	*104*		*75 - 125*		*04/27/18 15:34*	*1*
Trifluorotoluene (Surr)	*107*		*74 - 118*		*04/27/18 15:34*	*1*
Dibromofluoromethane (Surr)	*95*		*42 - 132*		*04/27/18 15:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*46 - 150*		*04/27/18 15:34*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**69**		2.0		ug/L			04/27/18 16:54	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*81 - 120*		*04/27/18 16:54*	*10*
Toluene-d8 (Surr)	*104*		*75 - 125*		*04/27/18 16:54*	*10*
Trifluorotoluene (Surr)	*109*		*74 - 118*		*04/27/18 16:54*	*10*
Dibromofluoromethane (Surr)	*95*		*42 - 132*		*04/27/18 16:54*	*10*
1,2-Dichloroethane-d4 (Surr)	*96*		*46 - 150*		*04/27/18 16:54*	*10*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-272325/7
Matrix: Water
Analysis Batch: 272325

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		ug/L			04/27/18 13:29	1
2-Chlorotoluene	ND		0.50		ug/L			04/27/18 13:29	1
1,2,3-Trichloropropane	ND		0.20		ug/L			04/27/18 13:29	1
Carbon tetrachloride	ND		0.20		ug/L			04/27/18 13:29	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			04/27/18 13:29	1
Chlorobenzene	ND		0.20		ug/L			04/27/18 13:29	1
Vinyl chloride	ND		0.020		ug/L			04/27/18 13:29	1
sec-Butylbenzene	ND		1.0		ug/L			04/27/18 13:29	1
Dibromomethane	ND		0.20		ug/L			04/27/18 13:29	1
m-Xylene & p-Xylene	ND		0.50		ug/L			04/27/18 13:29	1
o-Xylene	ND		0.50		ug/L			04/27/18 13:29	1
1,2,4-Trichlorobenzene	ND		0.30		ug/L			04/27/18 13:29	1
Styrene	ND		0.50		ug/L			04/27/18 13:29	1
Chlorobromomethane	ND		0.20		ug/L			04/27/18 13:29	1
Dichlorobromomethane	ND		0.20		ug/L			04/27/18 13:29	1
1,3-Dichlorobenzene	ND		0.30		ug/L			04/27/18 13:29	1
Benzene	ND		0.20		ug/L			04/27/18 13:29	1
Chloroethane	ND		0.50		ug/L			04/27/18 13:29	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			04/27/18 13:29	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			04/27/18 13:29	1
N-Propylbenzene	ND		0.30		ug/L			04/27/18 13:29	1
4-Isopropyltoluene	ND		0.30		ug/L			04/27/18 13:29	1
n-Butylbenzene	ND		0.50		ug/L			04/27/18 13:29	1
1,1-Dichloropropene	ND		0.20		ug/L			04/27/18 13:29	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			04/27/18 13:29	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			04/27/18 13:29	1
1,2,4-Trimethylbenzene	ND		0.30		ug/L			04/27/18 13:29	1
Toluene	ND		0.20		ug/L			04/27/18 13:29	1
Naphthalene	ND		1.0		ug/L			04/27/18 13:29	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			04/27/18 13:29	1
1,3-Dichloropropane	ND		0.20		ug/L			04/27/18 13:29	1
Chloroform	ND		0.20		ug/L			04/27/18 13:29	1
4-Chlorotoluene	ND		0.30		ug/L			04/27/18 13:29	1
Chlorodibromomethane	ND		0.20		ug/L			04/27/18 13:29	1
Dichlorodifluoromethane	ND		0.40		ug/L			04/27/18 13:29	1
1,1,2-Trichloroethane	ND		0.20		ug/L			04/27/18 13:29	1
tert-Butylbenzene	ND		0.50		ug/L			04/27/18 13:29	1
Chloromethane	ND		0.50		ug/L			04/27/18 13:29	1
Methylene Chloride	ND		5.0		ug/L			04/27/18 13:29	1
1,1-Dichloroethene	ND		0.20		ug/L			04/27/18 13:29	1
Isopropylbenzene	ND		1.0		ug/L			04/27/18 13:29	1
1,2-Dichloroethane	ND		0.20		ug/L			04/27/18 13:29	1
Tetrachloroethene	ND		0.50		ug/L			04/27/18 13:29	1
1,1,1-Trichloroethane	ND		0.20		ug/L			04/27/18 13:29	1
2,2-Dichloropropane	ND		0.50		ug/L			04/27/18 13:29	1
Ethylene Dibromide	ND		0.10		ug/L			04/27/18 13:29	1
Bromoform	ND		0.50		ug/L			04/27/18 13:29	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			04/27/18 13:29	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-272325/7
Matrix: Water
Analysis Batch: 272325

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50		ug/L			04/27/18 13:29	1
Trichloroethene	ND		0.20		ug/L			04/27/18 13:29	1
Bromobenzene	ND		0.20		ug/L			04/27/18 13:29	1
1,2-Dichloropropane	ND		0.20		ug/L			04/27/18 13:29	1
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			04/27/18 13:29	1
Ethylbenzene	ND		0.20		ug/L			04/27/18 13:29	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			04/27/18 13:29	1
Hexachlorobutadiene	ND		0.50		ug/L			04/27/18 13:29	1
1,1-Dichloroethane	ND		0.20		ug/L			04/27/18 13:29	1
Bromomethane	ND		0.50		ug/L			04/27/18 13:29	1
1,4-Dichlorobenzene	ND		0.30		ug/L			04/27/18 13:29	1
Methyl tert-butyl ether	ND		0.30		ug/L			04/27/18 13:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*		*04/27/18 13:29*	*1*
Toluene-d8 (Surr)	*106*		*75 - 125*		*04/27/18 13:29*	*1*
Trifluorotoluene (Surr)	*107*		*74 - 118*		*04/27/18 13:29*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*04/27/18 13:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*46 - 150*		*04/27/18 13:29*	*1*

Lab Sample ID: LCS 580-272325/4
Matrix: Water
Analysis Batch: 272325

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	5.56		ug/L		111	73 - 120
2-Chlorotoluene	5.00	5.36		ug/L		107	68 - 130
1,2,3-Trichloropropane	5.00	4.99		ug/L		100	45 - 150
Carbon tetrachloride	5.00	5.10		ug/L		102	54 - 150
cis-1,3-Dichloropropene	5.00	5.10		ug/L		102	54 - 150
Chlorobenzene	5.00	5.18		ug/L		104	74 - 114
Vinyl chloride	5.00	5.11		ug/L		102	59 - 140
sec-Butylbenzene	5.00	5.59		ug/L		112	62 - 140
Dibromomethane	5.00	4.72		ug/L		94	65 - 137
m-Xylene & p-Xylene	5.00	5.41		ug/L		108	73 - 130
o-Xylene	5.00	5.49		ug/L		110	80 - 139
1,2,4-Trichlorobenzene	5.00	5.57		ug/L		111	60 - 138
Styrene	5.00	4.87		ug/L		97	68 - 136
Chlorobromomethane	5.00	4.95		ug/L		99	71 - 131
Dichlorobromomethane	5.00	4.96		ug/L		99	62 - 150
1,3-Dichlorobenzene	5.00	5.48		ug/L		110	76 - 120
Benzene	5.00	5.14		ug/L		103	73 - 120
Chloroethane	5.00	5.12		ug/L		102	58 - 130
trans-1,3-Dichloropropene	5.00	4.94		ug/L		99	40 - 150
1,2,3-Trichlorobenzene	5.00	5.52		ug/L		110	60 - 137
N-Propylbenzene	5.00	5.73		ug/L		115	61 - 142
4-Isopropyltoluene	5.00	5.40		ug/L		108	72 - 127
n-Butylbenzene	5.00	5.55		ug/L		111	66 - 125

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-272325/4
Matrix: Water
Analysis Batch: 272325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloropropene	5.00	5.10		ug/L		102	64 - 146
cis-1,2-Dichloroethene	5.00	5.12		ug/L		102	73 - 130
1,1,2,2-Tetrachloroethane	5.00	5.18		ug/L		104	60 - 134
1,2,4-Trimethylbenzene	5.00	5.73		ug/L		115	70 - 142
Toluene	5.00	5.24		ug/L		105	70 - 126
Naphthalene	5.00	5.51		ug/L		110	26 - 150
1,3,5-Trimethylbenzene	5.00	5.54		ug/L		111	70 - 145
1,3-Dichloropropane	5.00	4.74		ug/L		95	61 - 130
Chloroform	5.00	5.03		ug/L		101	71 - 130
4-Chlorotoluene	5.00	5.44		ug/L		109	75 - 130
Chlorodibromomethane	5.00	4.92		ug/L		98	46 - 150
Dichlorodifluoromethane	5.00	4.60		ug/L		92	45 - 150
1,1,2-Trichloroethane	5.00	4.89		ug/L		98	62 - 137
tert-Butylbenzene	5.00	5.13		ug/L		103	55 - 150
Chloromethane	5.00	5.13		ug/L		103	40 - 150
Methylene Chloride	5.00	5.27		ug/L		105	58 - 134
1,1-Dichloroethene	5.00	5.44		ug/L		109	64 - 125
Isopropylbenzene	5.00	5.66		ug/L		113	75 - 137
1,2-Dichloroethane	5.00	4.84		ug/L		97	63 - 150
Tetrachloroethene	5.00	5.24		ug/L		105	67 - 123
1,1,1-Trichloroethane	5.00	5.18		ug/L		104	56 - 150
2,2-Dichloropropane	5.00	5.65		ug/L		113	60 - 150
Ethylene Dibromide	5.00	4.88		ug/L		98	56 - 146
Bromoform	5.00	4.78		ug/L		96	51 - 137
1,2-Dibromo-3-Chloropropane	5.00	5.11		ug/L		102	34 - 150
Trichlorofluoromethane	5.00	5.08		ug/L		102	60 - 150
Trichloroethene	5.00	4.82		ug/L		96	72 - 123
Bromobenzene	5.00	5.30		ug/L		106	68 - 130
1,2-Dichloropropane	5.00	4.85		ug/L		97	72 - 120
1,1,1,2-Tetrachloroethane	5.00	5.24		ug/L		105	68 - 139
Ethylbenzene	5.00	5.50		ug/L		110	74 - 125
trans-1,2-Dichloroethene	5.00	5.10		ug/L		102	69 - 124
Hexachlorobutadiene	5.00	5.80		ug/L		116	38 - 150
1,1-Dichloroethane	5.00	5.07		ug/L		101	68 - 135
Bromomethane	5.00	5.19		ug/L		104	61 - 135
1,4-Dichlorobenzene	5.00	5.18		ug/L		104	77 - 120
Methyl tert-butyl ether	5.00	5.01		ug/L		100	56 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*
Toluene-d8 (Surr)	*100*		*75 - 125*
Trifluorotoluene (Surr)	*105*		*74 - 118*
Dibromofluoromethane (Surr)	*99*		*42 - 132*
1,2-Dichloroethane-d4 (Surr)	*95*		*46 - 150*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-272325/5
Matrix: Water
Analysis Batch: 272325

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	5.60		ug/L		112	73 - 120	1	14
2-Chlorotoluene	5.00	5.26		ug/L		105	68 - 130	2	20
1,2,3-Trichloropropane	5.00	5.14		ug/L		103	45 - 150	3	20
Carbon tetrachloride	5.00	5.11		ug/L		102	54 - 150	0	30
cis-1,3-Dichloropropene	5.00	5.07		ug/L		101	54 - 150	1	28
Chlorobenzene	5.00	5.29		ug/L		106	74 - 114	2	12
Vinyl chloride	5.00	5.05		ug/L		101	59 - 140	1	30
sec-Butylbenzene	5.00	5.51		ug/L		110	62 - 140	1	20
Dibromomethane	5.00	4.73		ug/L		95	65 - 137	0	20
m-Xylene & p-Xylene	5.00	5.47		ug/L		109	73 - 130	1	20
o-Xylene	5.00	5.53		ug/L		111	80 - 139	1	20
1,2,4-Trichlorobenzene	5.00	5.50		ug/L		110	60 - 138	1	20
Styrene	5.00	5.02		ug/L		100	68 - 136	3	20
Chlorobromomethane	5.00	5.15		ug/L		103	71 - 131	4	20
Dichlorobromomethane	5.00	4.92		ug/L		98	62 - 150	1	20
1,3-Dichlorobenzene	5.00	5.50		ug/L		110	76 - 120	0	12
Benzene	5.00	5.13		ug/L		103	73 - 120	0	20
Chloroethane	5.00	5.14		ug/L		103	58 - 130	0	35
trans-1,3-Dichloropropene	5.00	4.97		ug/L		99	40 - 150	1	30
1,2,3-Trichlorobenzene	5.00	5.52		ug/L		110	60 - 137	0	20
N-Propylbenzene	5.00	5.64		ug/L		113	61 - 142	1	20
4-Isopropyltoluene	5.00	5.31		ug/L		106	72 - 127	2	14
n-Butylbenzene	5.00	5.48		ug/L		110	66 - 125	1	20
1,1-Dichloropropene	5.00	5.11		ug/L		102	64 - 146	0	20
cis-1,2-Dichloroethene	5.00	5.12		ug/L		102	73 - 130	0	20
1,1,2,2-Tetrachloroethane	5.00	5.40		ug/L		108	60 - 134	4	25
1,2,4-Trimethylbenzene	5.00	5.62		ug/L		112	70 - 142	2	20
Toluene	5.00	5.29		ug/L		106	70 - 126	1	20
Naphthalene	5.00	5.48		ug/L		110	26 - 150	1	20
1,3,5-Trimethylbenzene	5.00	5.43		ug/L		109	70 - 145	2	20
1,3-Dichloropropane	5.00	5.07		ug/L		101	61 - 130	7	29
Chloroform	5.00	5.11		ug/L		102	71 - 130	2	20
4-Chlorotoluene	5.00	5.28		ug/L		106	75 - 130	3	20
Chlorodibromomethane	5.00	5.14		ug/L		103	46 - 150	4	20
Dichlorodifluoromethane	5.00	4.40		ug/L		88	45 - 150	5	29
1,1,2-Trichloroethane	5.00	5.03		ug/L		101	62 - 137	3	30
tert-Butylbenzene	5.00	5.06		ug/L		101	55 - 150	1	20
Chloromethane	5.00	4.98		ug/L		100	40 - 150	3	31
Methylene Chloride	5.00	5.39		ug/L		108	58 - 134	2	29
1,1-Dichloroethene	5.00	5.41		ug/L		108	64 - 125	1	28
Isopropylbenzene	5.00	5.75		ug/L		115	75 - 137	2	20
1,2-Dichloroethane	5.00	4.87		ug/L		97	63 - 150	0	29
Tetrachloroethene	5.00	5.19		ug/L		104	67 - 123	1	20
1,1,1-Trichloroethane	5.00	5.16		ug/L		103	56 - 150	0	29
2,2-Dichloropropane	5.00	5.88		ug/L		118	60 - 150	4	29
Ethylene Dibromide	5.00	5.11		ug/L		102	56 - 146	5	20
Bromoform	5.00	5.16		ug/L		103	51 - 137	8	20
1,2-Dibromo-3-Chloropropane	5.00	5.41		ug/L		108	34 - 150	6	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-272325/5
Matrix: Water
Analysis Batch: 272325

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichlorofluoromethane			5.00	5.30		ug/L		106	60 - 150	4	31
Trichloroethene			5.00	4.83		ug/L		97	72 - 123	0	20
Bromobenzene			5.00	5.34		ug/L		107	68 - 130	1	20
1,2-Dichloropropane			5.00	4.90		ug/L		98	72 - 120	1	20
1,1,1,2-Tetrachloroethane			5.00	5.41		ug/L		108	68 - 139	3	20
Ethylbenzene			5.00	5.60		ug/L		112	74 - 125	2	20
trans-1,2-Dichloroethene			5.00	5.18		ug/L		104	69 - 124	2	27
Hexachlorobutadiene			5.00	5.61		ug/L		112	38 - 150	3	20
1,1-Dichloroethane			5.00	5.14		ug/L		103	68 - 135	1	27
Bromomethane			5.00	5.20		ug/L		104	61 - 135	0	31
1,4-Dichlorobenzene			5.00	5.28		ug/L		106	77 - 120	2	11
Methyl tert-butyl ether			5.00	5.32		ug/L		106	56 - 150	6	26

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*81 - 120*
Toluene-d8 (Surr)	*101*		*75 - 125*
Trifluorotoluene (Surr)	*101*		*74 - 118*
Dibromofluoromethane (Surr)	*101*		*42 - 132*
1,2-Dichloroethane-d4 (Surr)	*97*		*46 - 150*

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

Lab Sample ID: MB 580-272317/1-A
Matrix: Solid
Analysis Batch: 272322

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 272317

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Chloromethane	ND		0.0050		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Vinyl chloride	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Bromomethane	ND		0.0010		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Chloroethane	ND		0.010		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Trichlorofluoromethane	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,1-Dichloroethene	ND		0.0050		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Methylene Chloride	ND		0.040		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
trans-1,2-Dichloroethene	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,1-Dichloroethane	ND		0.0010		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
2,2-Dichloropropane	ND		0.0050		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
cis-1,2-Dichloroethene	ND		0.0030		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Bromochloromethane	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Chloroform	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,1,1-Trichloroethane	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Carbon tetrachloride	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,1-Dichloropropene	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Benzene	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,2-Dichloroethane	ND		0.0010		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Trichloroethene	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,2-Dichloropropane	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1

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

Lab Sample ID: MB 580-272317/1-A
Matrix: Solid
Analysis Batch: 272322

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 272317

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		0.0010		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Bromodichloromethane	ND		0.0010		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
cis-1,3-Dichloropropene	ND		0.0010		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Toluene	ND		0.010		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
trans-1,3-Dichloropropene	ND		0.010		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,1,2-Trichloroethane	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Tetrachloroethene	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,3-Dichloropropane	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Dibromochloromethane	ND		0.0015		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,2-Dibromoethane	ND		0.0010		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Chlorobenzene	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Ethylbenzene	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,1,1,2-Tetrachloroethane	ND		0.0030		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,1,2,2-Tetrachloroethane	ND		0.0040		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
m-Xylene & p-Xylene	ND		0.010		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
o-Xylene	ND		0.0050		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Styrene	ND		0.0030		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Bromoform	ND		0.0050		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Isopropylbenzene	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Bromobenzene	ND		0.010		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
N-Propylbenzene	ND		0.0050		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,2,3-Trichloropropane	ND		0.0050		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
2-Chlorotoluene	ND		0.0050		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,3,5-Trimethylbenzene	ND		0.0050		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
4-Chlorotoluene	ND		0.0050		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
t-Butylbenzene	ND		0.0030		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,2,4-Trimethylbenzene	ND		0.0050		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
sec-Butylbenzene	ND		0.0030		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,3-Dichlorobenzene	ND		0.0050		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
4-Isopropyltoluene	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,4-Dichlorobenzene	ND		0.0050		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
n-Butylbenzene	ND		0.0030		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,2-Dichlorobenzene	ND		0.010		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,2-Dibromo-3-Chloropropane	ND		0.010		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,2,4-Trichlorobenzene	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
1,2,3-Trichlorobenzene	ND		0.0030		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Hexachlorobutadiene	ND		0.0030		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Naphthalene	ND		0.010		mg/Kg		04/26/18 09:24	04/26/18 11:44	1
Methyl tert-butyl ether	ND		0.0020		mg/Kg		04/26/18 09:24	04/26/18 11:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 120*	*04/26/18 09:24*	*04/26/18 11:44*	*1*
4-Bromofluorobenzene (Surr)	*99*		*47 - 150*	*04/26/18 09:24*	*04/26/18 11:44*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 118*	*04/26/18 09:24*	*04/26/18 11:44*	*1*
Trifluorotoluene (Surr)	*97*		*60 - 150*	*04/26/18 09:24*	*04/26/18 11:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 121*	*04/26/18 09:24*	*04/26/18 11:44*	*1*

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

Lab Sample ID: LCS 580-272317/2-A
Matrix: Solid
Analysis Batch: 272322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 272317

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	0.0200	0.0205		mg/Kg		103	33 - 137
Chloromethane	0.0200	0.0219		mg/Kg		110	53 - 145
Vinyl chloride	0.0200	0.0206		mg/Kg		103	28 - 150
Bromomethane	0.0200	0.0200		mg/Kg		100	57 - 146
Chloroethane	0.0200	0.0217		mg/Kg		108	55 - 150
Trichlorofluoromethane	0.0200	0.0200		mg/Kg		100	73 - 143
1,1-Dichloroethene	0.0200	0.0186		mg/Kg		93	77 - 137
Methylene Chloride	0.0200	0.0202	J	mg/Kg		101	66 - 150
trans-1,2-Dichloroethene	0.0200	0.0194		mg/Kg		97	71 - 150
1,1-Dichloroethane	0.0200	0.0204		mg/Kg		102	70 - 141
2,2-Dichloropropane	0.0200	0.0209		mg/Kg		105	54 - 150
cis-1,2-Dichloroethene	0.0200	0.0202		mg/Kg		101	74 - 138
Bromochloromethane	0.0200	0.0208		mg/Kg		104	76 - 150
Chloroform	0.0200	0.0207		mg/Kg		104	80 - 133
1,1,1-Trichloroethane	0.0200	0.0199		mg/Kg		99	78 - 150
Carbon tetrachloride	0.0200	0.0202		mg/Kg		101	77 - 150
1,1-Dichloropropene	0.0200	0.0204		mg/Kg		102	76 - 150
Benzene	0.0200	0.0204		mg/Kg		102	79 - 135
1,2-Dichloroethane	0.0200	0.0209		mg/Kg		104	68 - 150
Trichloroethene	0.0200	0.0197		mg/Kg		98	80 - 144
1,2-Dichloropropane	0.0200	0.0212		mg/Kg		106	75 - 136
Dibromomethane	0.0200	0.0201		mg/Kg		101	72 - 150
Bromodichloromethane	0.0200	0.0211		mg/Kg		106	79 - 132
cis-1,3-Dichloropropene	0.0200	0.0210		mg/Kg		105	70 - 122
Toluene	0.0200	0.0208		mg/Kg		104	80 - 125
trans-1,3-Dichloropropene	0.0200	0.0206		mg/Kg		103	75 - 121
1,1,2-Trichloroethane	0.0200	0.0197		mg/Kg		99	73 - 123
Tetrachloroethene	0.0200	0.0188		mg/Kg		94	61 - 150
1,3-Dichloropropane	0.0200	0.0208		mg/Kg		104	75 - 120
Dibromochloromethane	0.0200	0.0207		mg/Kg		103	75 - 125
1,2-Dibromoethane	0.0200	0.0192		mg/Kg		96	77 - 123
Chlorobenzene	0.0200	0.0198		mg/Kg		99	80 - 123
Ethylbenzene	0.0200	0.0199		mg/Kg		99	80 - 127
1,1,1,2-Tetrachloroethane	0.0200	0.0202		mg/Kg		101	79 - 128
1,1,2,2-Tetrachloroethane	0.0200	0.0182		mg/Kg		91	57 - 127
m-Xylene & p-Xylene	0.0200	0.0205		mg/Kg		102	80 - 128
o-Xylene	0.0200	0.0206		mg/Kg		103	80 - 125
Styrene	0.0200	0.0201		mg/Kg		100	79 - 129
Bromoform	0.0200	0.0187		mg/Kg		93	65 - 134
Isopropylbenzene	0.0200	0.0205		mg/Kg		103	80 - 128
Bromobenzene	0.0200	0.0195		mg/Kg		98	68 - 126
N-Propylbenzene	0.0200	0.0196		mg/Kg		98	74 - 127
1,2,3-Trichloropropane	0.0200	0.0180		mg/Kg		90	59 - 127
2-Chlorotoluene	0.0200	0.0194		mg/Kg		97	71 - 127
1,3,5-Trimethylbenzene	0.0200	0.0201		mg/Kg		100	72 - 128
4-Chlorotoluene	0.0200	0.0194		mg/Kg		97	68 - 126
t-Butylbenzene	0.0200	0.0199		mg/Kg		99	71 - 127
1,2,4-Trimethylbenzene	0.0200	0.0199		mg/Kg		99	73 - 127

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

Lab Sample ID: LCS 580-272317/2-A
Matrix: Solid
Analysis Batch: 272322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 272317

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
sec-Butylbenzene	0.0200	0.0200		mg/Kg		100	70 - 129
1,3-Dichlorobenzene	0.0200	0.0198		mg/Kg		99	52 - 150
4-Isopropyltoluene	0.0200	0.0199		mg/Kg		99	71 - 129
1,4-Dichlorobenzene	0.0200	0.0195		mg/Kg		98	71 - 123
n-Butylbenzene	0.0200	0.0197		mg/Kg		98	71 - 130
1,2-Dichlorobenzene	0.0200	0.0199		mg/Kg		100	67 - 126
1,2-Dibromo-3-Chloropropane	0.0200	0.0157		mg/Kg		79	53 - 129
1,2,4-Trichlorobenzene	0.0200	0.0193		mg/Kg		96	68 - 131
1,2,3-Trichlorobenzene	0.0200	0.0189		mg/Kg		94	60 - 129
Hexachlorobutadiene	0.0200	0.0188		mg/Kg		94	65 - 136
Naphthalene	0.0200	0.0168		mg/Kg		84	61 - 124
Methyl tert-butyl ether	0.0200	0.0202		mg/Kg		101	69 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*75 - 120*
4-Bromofluorobenzene (Surr)	*103*		*47 - 150*
Dibromofluoromethane (Surr)	*103*		*80 - 118*
Trifluorotoluene (Surr)	*98*		*60 - 150*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 121*

Lab Sample ID: LCSD 580-272317/3-A
Matrix: Solid
Analysis Batch: 272322

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 272317

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	0.0200	0.0202		mg/Kg		101	33 - 137	2	30
Chloromethane	0.0200	0.0216		mg/Kg		108	53 - 145	2	28
Vinyl chloride	0.0200	0.0205		mg/Kg		102	28 - 150	1	29
Bromomethane	0.0200	0.0208		mg/Kg		104	57 - 146	4	38
Chloroethane	0.0200	0.0204		mg/Kg		102	55 - 150	6	40
Trichlorofluoromethane	0.0200	0.0200		mg/Kg		100	73 - 143	0	26
1,1-Dichloroethene	0.0200	0.0183		mg/Kg		92	77 - 137	2	23
Methylene Chloride	0.0200	0.0201	J	mg/Kg		101	66 - 150	0	40
trans-1,2-Dichloroethene	0.0200	0.0190		mg/Kg		95	71 - 150	2	22
1,1-Dichloroethane	0.0200	0.0201		mg/Kg		101	70 - 141	2	30
2,2-Dichloropropane	0.0200	0.0203		mg/Kg		102	54 - 150	3	28
cis-1,2-Dichloroethene	0.0200	0.0202		mg/Kg		101	74 - 138	0	14
Bromochloromethane	0.0200	0.0212		mg/Kg		106	76 - 150	2	15
Chloroform	0.0200	0.0205		mg/Kg		102	80 - 133	1	13
1,1,1-Trichloroethane	0.0200	0.0192		mg/Kg		96	78 - 150	3	14
Carbon tetrachloride	0.0200	0.0193		mg/Kg		97	77 - 150	4	12
1,1-Dichloropropene	0.0200	0.0193		mg/Kg		97	76 - 150	5	11
Benzene	0.0200	0.0198		mg/Kg		99	79 - 135	3	10
1,2-Dichloroethane	0.0200	0.0212		mg/Kg		106	68 - 150	1	17
Trichloroethene	0.0200	0.0193		mg/Kg		96	80 - 144	2	10
1,2-Dichloropropane	0.0200	0.0208		mg/Kg		104	75 - 136	2	10
Dibromomethane	0.0200	0.0206		mg/Kg		103	72 - 150	2	14
Bromodichloromethane	0.0200	0.0208		mg/Kg		104	79 - 132	1	10

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

Lab Sample ID: LCSD 580-272317/3-A
Matrix: Solid
Analysis Batch: 272322

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 272317

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene			0.0200	0.0207		mg/Kg		104	70 - 122	1	16
Toluene			0.0200	0.0200		mg/Kg		100	80 - 125	4	16
trans-1,3-Dichloropropene			0.0200	0.0206		mg/Kg		103	75 - 121	0	17
1,1,2-Trichloroethane			0.0200	0.0198		mg/Kg		99	73 - 123	1	15
Tetrachloroethene			0.0200	0.0183		mg/Kg		91	61 - 150	3	16
1,3-Dichloropropane			0.0200	0.0211		mg/Kg		105	75 - 120	2	18
Dibromochloromethane			0.0200	0.0206		mg/Kg		103	75 - 125	0	17
1,2-Dibromoethane			0.0200	0.0202		mg/Kg		101	77 - 123	5	18
Chlorobenzene			0.0200	0.0194		mg/Kg		97	80 - 123	2	10
Ethylbenzene			0.0200	0.0194		mg/Kg		97	80 - 127	2	10
1,1,1,2-Tetrachloroethane			0.0200	0.0200		mg/Kg		100	79 - 128	1	11
1,1,2,2-Tetrachloroethane			0.0200	0.0193		mg/Kg		97	57 - 127	6	18
m-Xylene & p-Xylene			0.0200	0.0196		mg/Kg		98	80 - 128	4	13
o-Xylene			0.0200	0.0199		mg/Kg		99	80 - 125	4	14
Styrene			0.0200	0.0195		mg/Kg		98	79 - 129	3	15
Bromoform			0.0200	0.0191		mg/Kg		96	65 - 134	2	17
Isopropylbenzene			0.0200	0.0198		mg/Kg		99	80 - 128	4	17
Bromobenzene			0.0200	0.0200		mg/Kg		100	68 - 126	2	19
N-Propylbenzene			0.0200	0.0190		mg/Kg		95	74 - 127	3	17
1,2,3-Trichloropropane			0.0200	0.0191		mg/Kg		96	59 - 127	6	16
2-Chlorotoluene			0.0200	0.0194		mg/Kg		97	71 - 127	0	16
1,3,5-Trimethylbenzene			0.0200	0.0195		mg/Kg		97	72 - 128	3	16
4-Chlorotoluene			0.0200	0.0194		mg/Kg		97	68 - 126	0	16
t-Butylbenzene			0.0200	0.0196		mg/Kg		98	71 - 127	2	13
1,2,4-Trimethylbenzene			0.0200	0.0193		mg/Kg		97	73 - 127	3	12
sec-Butylbenzene			0.0200	0.0193		mg/Kg		97	70 - 129	3	12
1,3-Dichlorobenzene			0.0200	0.0193		mg/Kg		97	52 - 150	2	12
4-Isopropyltoluene			0.0200	0.0193		mg/Kg		97	71 - 129	3	11
1,4-Dichlorobenzene			0.0200	0.0194		mg/Kg		97	71 - 123	1	12
n-Butylbenzene			0.0200	0.0186		mg/Kg		93	71 - 130	6	12
1,2-Dichlorobenzene			0.0200	0.0198		mg/Kg		99	67 - 126	0	12
1,2-Dibromo-3-Chloropropane			0.0200	0.0180		mg/Kg		90	53 - 129	14	20
1,2,4-Trichlorobenzene			0.0200	0.0194		mg/Kg		97	68 - 131	0	16
1,2,3-Trichlorobenzene			0.0200	0.0197		mg/Kg		98	60 - 129	4	18
Hexachlorobutadiene			0.0200	0.0185		mg/Kg		92	65 - 136	2	19
Naphthalene			0.0200	0.0182		mg/Kg		91	61 - 124	8	17
Methyl tert-butyl ether			0.0200	0.0210		mg/Kg		105	69 - 150	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*75 - 120*
4-Bromofluorobenzene (Surr)	*100*		*47 - 150*
Dibromofluoromethane (Surr)	*103*		*80 - 118*
Trifluorotoluene (Surr)	*98*		*60 - 150*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 121*

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

Lab Sample ID: MB 580-272547/1-A
Matrix: Solid
Analysis Batch: 272545

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 272547

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Chloromethane	ND		0.0050		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Vinyl chloride	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Bromomethane	ND		0.0010		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Chloroethane	ND		0.010		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Trichlorofluoromethane	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,1-Dichloroethene	ND		0.0050		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Methylene Chloride	ND		0.040		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
trans-1,2-Dichloroethene	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,1-Dichloroethane	ND		0.0010		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
2,2-Dichloropropane	ND		0.0050		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
cis-1,2-Dichloroethene	ND		0.0030		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Bromochloromethane	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Chloroform	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,1,1-Trichloroethane	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Carbon tetrachloride	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,1-Dichloropropene	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Benzene	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,2-Dichloroethane	ND		0.0010		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Trichloroethene	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,2-Dichloropropane	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Dibromomethane	ND		0.0010		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Bromodichloromethane	ND		0.0010		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
cis-1,3-Dichloropropene	ND		0.0010		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Toluene	ND		0.010		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
trans-1,3-Dichloropropene	ND		0.010		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,1,2-Trichloroethane	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Tetrachloroethene	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,3-Dichloropropane	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Dibromochloromethane	ND		0.0015		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,2-Dibromoethane	ND		0.0010		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Chlorobenzene	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Ethylbenzene	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,1,1,2-Tetrachloroethane	ND		0.0030		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,1,2,2-Tetrachloroethane	ND		0.0040		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
m-Xylene & p-Xylene	ND		0.010		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
o-Xylene	ND		0.0050		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Styrene	ND		0.0030		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Bromoform	ND		0.0050		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Isopropylbenzene	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Bromobenzene	ND		0.010		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
N-Propylbenzene	ND		0.0050		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,2,3-Trichloropropane	ND		0.0050		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
2-Chlorotoluene	ND		0.0050		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,3,5-Trimethylbenzene	ND		0.0050		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
4-Chlorotoluene	ND		0.0050		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
t-Butylbenzene	ND		0.0030		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,2,4-Trimethylbenzene	ND		0.0050		mg/Kg		04/30/18 10:37	04/30/18 12:43	1

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

Lab Sample ID: MB 580-272547/1-A
Matrix: Solid
Analysis Batch: 272545

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 272547

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.0030		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,3-Dichlorobenzene	ND		0.0050		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
4-Isopropyltoluene	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,4-Dichlorobenzene	ND		0.0050		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
n-Butylbenzene	ND		0.0030		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,2-Dichlorobenzene	ND		0.010		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,2-Dibromo-3-Chloropropane	ND		0.010		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,2,4-Trichlorobenzene	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
1,2,3-Trichlorobenzene	ND		0.0030		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Hexachlorobutadiene	ND		0.0030		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Naphthalene	ND		0.010		mg/Kg		04/30/18 10:37	04/30/18 12:43	1
Methyl tert-butyl ether	ND		0.0020		mg/Kg		04/30/18 10:37	04/30/18 12:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*75 - 120*	*04/30/18 10:37*	*04/30/18 12:43*	*1*
4-Bromofluorobenzene (Surr)	*97*		*47 - 150*	*04/30/18 10:37*	*04/30/18 12:43*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 118*	*04/30/18 10:37*	*04/30/18 12:43*	*1*
Trifluorotoluene (Surr)	*95*		*60 - 150*	*04/30/18 10:37*	*04/30/18 12:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 121*	*04/30/18 10:37*	*04/30/18 12:43*	*1*

Lab Sample ID: LCS 580-272547/2-A
Matrix: Solid
Analysis Batch: 272545

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 272547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	0.0200	0.0180		mg/Kg		90	33 - 137
Chloromethane	0.0200	0.0207		mg/Kg		104	53 - 145
Vinyl chloride	0.0200	0.0189		mg/Kg		94	28 - 150
Bromomethane	0.0200	0.0186		mg/Kg		93	57 - 146
Chloroethane	0.0200	0.0196		mg/Kg		98	55 - 150
Trichlorofluoromethane	0.0200	0.0181		mg/Kg		90	73 - 143
1,1-Dichloroethene	0.0200	0.0172		mg/Kg		86	77 - 137
Methylene Chloride	0.0200	0.0226	J	mg/Kg		113	66 - 150
trans-1,2-Dichloroethene	0.0200	0.0183		mg/Kg		91	71 - 150
1,1-Dichloroethane	0.0200	0.0197		mg/Kg		98	70 - 141
2,2-Dichloropropane	0.0200	0.0203		mg/Kg		102	54 - 150
cis-1,2-Dichloroethene	0.0200	0.0195		mg/Kg		97	74 - 138
Bromochloromethane	0.0200	0.0196		mg/Kg		98	76 - 150
Chloroform	0.0200	0.0201		mg/Kg		101	80 - 133
1,1,1-Trichloroethane	0.0200	0.0185		mg/Kg		93	78 - 150
Carbon tetrachloride	0.0200	0.0192		mg/Kg		96	77 - 150
1,1-Dichloropropene	0.0200	0.0190		mg/Kg		95	76 - 150
Benzene	0.0200	0.0197		mg/Kg		98	79 - 135
1,2-Dichloroethane	0.0200	0.0207		mg/Kg		104	68 - 150
Trichloroethene	0.0200	0.0180		mg/Kg		90	80 - 144
1,2-Dichloropropane	0.0200	0.0208		mg/Kg		104	75 - 136
Dibromomethane	0.0200	0.0186		mg/Kg		93	72 - 150
Bromodichloromethane	0.0200	0.0208		mg/Kg		104	79 - 132

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

Lab Sample ID: LCS 580-272547/2-A
Matrix: Solid
Analysis Batch: 272545

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 272547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	0.0200	0.0210		mg/Kg		105	70 - 122
Toluene	0.0200	0.0197		mg/Kg		98	80 - 125
trans-1,3-Dichloropropene	0.0200	0.0201		mg/Kg		101	75 - 121
1,1,2-Trichloroethane	0.0200	0.0191		mg/Kg		95	73 - 123
Tetrachloroethene	0.0200	0.0178		mg/Kg		89	61 - 150
1,3-Dichloropropane	0.0200	0.0205		mg/Kg		102	75 - 120
Dibromochloromethane	0.0200	0.0201		mg/Kg		100	75 - 125
1,2-Dibromoethane	0.0200	0.0185		mg/Kg		93	77 - 123
Chlorobenzene	0.0200	0.0188		mg/Kg		94	80 - 123
Ethylbenzene	0.0200	0.0192		mg/Kg		96	80 - 127
1,1,1,2-Tetrachloroethane	0.0200	0.0195		mg/Kg		97	79 - 128
1,1,2,2-Tetrachloroethane	0.0200	0.0178		mg/Kg		89	57 - 127
m-Xylene & p-Xylene	0.0200	0.0191		mg/Kg		95	80 - 128
o-Xylene	0.0200	0.0194		mg/Kg		97	80 - 125
Styrene	0.0200	0.0189		mg/Kg		95	79 - 129
Bromoform	0.0200	0.0176		mg/Kg		88	65 - 134
Isopropylbenzene	0.0200	0.0192		mg/Kg		96	80 - 128
Bromobenzene	0.0200	0.0185		mg/Kg		92	68 - 126
N-Propylbenzene	0.0200	0.0183		mg/Kg		92	74 - 127
1,2,3-Trichloropropane	0.0200	0.0171		mg/Kg		85	59 - 127
2-Chlorotoluene	0.0200	0.0181		mg/Kg		90	71 - 127
1,3,5-Trimethylbenzene	0.0200	0.0189		mg/Kg		94	72 - 128
4-Chlorotoluene	0.0200	0.0181		mg/Kg		91	68 - 126
t-Butylbenzene	0.0200	0.0187		mg/Kg		93	71 - 127
1,2,4-Trimethylbenzene	0.0200	0.0184		mg/Kg		92	73 - 127
sec-Butylbenzene	0.0200	0.0185		mg/Kg		93	70 - 129
1,3-Dichlorobenzene	0.0200	0.0182		mg/Kg		91	52 - 150
4-Isopropyltoluene	0.0200	0.0186		mg/Kg		93	71 - 129
1,4-Dichlorobenzene	0.0200	0.0183		mg/Kg		92	71 - 123
n-Butylbenzene	0.0200	0.0179		mg/Kg		90	71 - 130
1,2-Dichlorobenzene	0.0200	0.0187		mg/Kg		93	67 - 126
1,2-Dibromo-3-Chloropropane	0.0200	0.0158		mg/Kg		79	53 - 129
1,2,4-Trichlorobenzene	0.0200	0.0184		mg/Kg		92	68 - 131
1,2,3-Trichlorobenzene	0.0200	0.0187		mg/Kg		94	60 - 129
Hexachlorobutadiene	0.0200	0.0178		mg/Kg		89	65 - 136
Naphthalene	0.0200	0.0165		mg/Kg		82	61 - 124
Methyl tert-butyl ether	0.0200	0.0196		mg/Kg		98	69 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*75 - 120*
4-Bromofluorobenzene (Surr)	*101*		*47 - 150*
Dibromofluoromethane (Surr)	*104*		*80 - 118*
Trifluorotoluene (Surr)	*97*		*60 - 150*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 121*

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

Lab Sample ID: LCSD 580-272547/3-A
Matrix: Solid
Analysis Batch: 272545

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 272547

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	0.0200	0.0180		mg/Kg		90	33 - 137	0	30
Chloromethane	0.0200	0.0203		mg/Kg		101	53 - 145	2	28
Vinyl chloride	0.0200	0.0186		mg/Kg		93	28 - 150	1	29
Bromomethane	0.0200	0.0187		mg/Kg		93	57 - 146	1	38
Chloroethane	0.0200	0.0186		mg/Kg		93	55 - 150	5	40
Trichlorofluoromethane	0.0200	0.0182		mg/Kg		91	73 - 143	1	26
1,1-Dichloroethene	0.0200	0.0176		mg/Kg		88	77 - 137	2	23
Methylene Chloride	0.0200	0.0234	J	mg/Kg		117	66 - 150	3	40
trans-1,2-Dichloroethene	0.0200	0.0187		mg/Kg		93	71 - 150	2	22
1,1-Dichloroethane	0.0200	0.0201		mg/Kg		101	70 - 141	2	30
2,2-Dichloropropane	0.0200	0.0199		mg/Kg		100	54 - 150	2	28
cis-1,2-Dichloroethene	0.0200	0.0203		mg/Kg		101	74 - 138	4	14
Bromochloromethane	0.0200	0.0207		mg/Kg		104	76 - 150	6	15
Chloroform	0.0200	0.0206		mg/Kg		103	80 - 133	2	13
1,1,1-Trichloroethane	0.0200	0.0188		mg/Kg		94	78 - 150	2	14
Carbon tetrachloride	0.0200	0.0186		mg/Kg		93	77 - 150	3	12
1,1-Dichloropropene	0.0200	0.0190		mg/Kg		95	76 - 150	0	11
Benzene	0.0200	0.0195		mg/Kg		98	79 - 135	1	10
1,2-Dichloroethane	0.0200	0.0215		mg/Kg		107	68 - 150	4	17
Trichloroethene	0.0200	0.0183		mg/Kg		91	80 - 144	1	10
1,2-Dichloropropane	0.0200	0.0209		mg/Kg		104	75 - 136	0	10
Dibromomethane	0.0200	0.0199		mg/Kg		99	72 - 150	7	14
Bromodichloromethane	0.0200	0.0206		mg/Kg		103	79 - 132	1	10
cis-1,3-Dichloropropene	0.0200	0.0210		mg/Kg		105	70 - 122	0	16
Toluene	0.0200	0.0196		mg/Kg		98	80 - 125	1	16
trans-1,3-Dichloropropene	0.0200	0.0208		mg/Kg		104	75 - 121	3	17
1,1,2-Trichloroethane	0.0200	0.0199		mg/Kg		99	73 - 123	4	15
Tetrachloroethene	0.0200	0.0173		mg/Kg		87	61 - 150	2	16
1,3-Dichloropropane	0.0200	0.0212		mg/Kg		106	75 - 120	3	18
Dibromochloromethane	0.0200	0.0205		mg/Kg		103	75 - 125	2	17
1,2-Dibromoethane	0.0200	0.0194		mg/Kg		97	77 - 123	5	18
Chlorobenzene	0.0200	0.0192		mg/Kg		96	80 - 123	2	10
Ethylbenzene	0.0200	0.0191		mg/Kg		95	80 - 127	0	10
1,1,1,2-Tetrachloroethane	0.0200	0.0199		mg/Kg		100	79 - 128	2	11
1,1,2,2-Tetrachloroethane	0.0200	0.0186		mg/Kg		93	57 - 127	4	18
m-Xylene & p-Xylene	0.0200	0.0193		mg/Kg		96	80 - 128	1	13
o-Xylene	0.0200	0.0199		mg/Kg		100	80 - 125	3	14
Styrene	0.0200	0.0192		mg/Kg		96	79 - 129	2	15
Bromoform	0.0200	0.0189		mg/Kg		94	65 - 134	7	17
Isopropylbenzene	0.0200	0.0194		mg/Kg		97	80 - 128	1	17
Bromobenzene	0.0200	0.0190		mg/Kg		95	68 - 126	3	19
N-Propylbenzene	0.0200	0.0184		mg/Kg		92	74 - 127	1	17
1,2,3-Trichloropropane	0.0200	0.0181		mg/Kg		90	59 - 127	6	16
2-Chlorotoluene	0.0200	0.0185		mg/Kg		92	71 - 127	2	16
1,3,5-Trimethylbenzene	0.0200	0.0187		mg/Kg		93	72 - 128	1	16
4-Chlorotoluene	0.0200	0.0185		mg/Kg		92	68 - 126	2	16
t-Butylbenzene	0.0200	0.0182		mg/Kg		91	71 - 127	2	13
1,2,4-Trimethylbenzene	0.0200	0.0187		mg/Kg		93	73 - 127	1	12

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

Lab Sample ID: LCSD 580-272547/3-A
Matrix: Solid
Analysis Batch: 272545

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 272547

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene			0.0200	0.0186		mg/Kg		93	70 - 129	0	12
1,3-Dichlorobenzene			0.0200	0.0188		mg/Kg		94	52 - 150	3	12
4-Isopropyltoluene			0.0200	0.0187		mg/Kg		93	71 - 129	1	11
1,4-Dichlorobenzene			0.0200	0.0189		mg/Kg		94	71 - 123	3	12
n-Butylbenzene			0.0200	0.0183		mg/Kg		92	71 - 130	2	12
1,2-Dichlorobenzene			0.0200	0.0193		mg/Kg		97	67 - 126	3	12
1,2-Dibromo-3-Chloropropane			0.0200	0.0181		mg/Kg		91	53 - 129	14	20
1,2,4-Trichlorobenzene			0.0200	0.0185		mg/Kg		92	68 - 131	0	16
1,2,3-Trichlorobenzene			0.0200	0.0191		mg/Kg		95	60 - 129	2	18
Hexachlorobutadiene			0.0200	0.0177		mg/Kg		88	65 - 136	1	19
Naphthalene			0.0200	0.0175		mg/Kg		87	61 - 124	6	17
Methyl tert-butyl ether			0.0200	0.0208		mg/Kg		104	69 - 150	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*75 - 120*
4-Bromofluorobenzene (Surr)	*102*		*47 - 150*
Dibromofluoromethane (Surr)	*104*		*80 - 118*
Trifluorotoluene (Surr)	*96*		*60 - 150*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 121*

Method: D 2216 - Percent Moisture

Lab Sample ID: 580-76723-4 DU
Matrix: Solid
Analysis Batch: 272382

Client Sample ID: 062175-20180419-SO-BP-
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	72.0			69.2		%				4	20
Percent Moisture	28.0			30.8		%				9	20

Client Sample ID: 062175-20180419-SO-BP-BOT-2 — **Lab Sample ID: 580-76723-1**
Date Collected: 04/19/18 09:30 — **Matrix: Solid**
Date Received: 04/19/18 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	272382	04/26/18 16:16	TTN	TAL SEA

Client Sample ID: 062175-20180419-SO-BP-BOT-2 — **Lab Sample ID: 580-76723-1**
Date Collected: 04/19/18 09:30 — **Matrix: Solid**
Date Received: 04/19/18 15:00 — **Percent Solids: 74.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			272547	04/19/18 15:00	HDK	TAL SEA
Total/NA	Analysis	8260C		1	272545	04/30/18 18:26	T1W	TAL SEA

Client Sample ID: 062175-20180419-SO-BP-SSW-2 — **Lab Sample ID: 580-76723-2**
Date Collected: 04/19/18 10:15 — **Matrix: Solid**
Date Received: 04/19/18 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	272382	04/26/18 16:16	TTN	TAL SEA

Client Sample ID: 062175-20180419-SO-BP-SSW-2 — **Lab Sample ID: 580-76723-2**
Date Collected: 04/19/18 10:15 — **Matrix: Solid**
Date Received: 04/19/18 15:00 — **Percent Solids: 88.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			272317	04/19/18 15:00	HDK	TAL SEA
Total/NA	Analysis	8260C		1	272322	04/26/18 17:55	T1W	TAL SEA
Total/NA	Prep	5035			272605	04/30/18 16:13	DSO	TAL SEA
Total/NA	Analysis	8260C		1	272689	05/01/18 14:14	W1T	TAL SEA

Client Sample ID: 062175-20180419-SO-BP-ESW-1 — **Lab Sample ID: 580-76723-3**
Date Collected: 04/19/18 11:30 — **Matrix: Solid**
Date Received: 04/19/18 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	272382	04/26/18 16:16	TTN	TAL SEA

Client Sample ID: 062175-20180419-SO-BP-ESW-1 — **Lab Sample ID: 580-76723-3**
Date Collected: 04/19/18 11:30 — **Matrix: Solid**
Date Received: 04/19/18 15:00 — **Percent Solids: 88.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			272317	04/19/18 15:00	HDK	TAL SEA
Total/NA	Analysis	8260C		1	272322	04/26/18 18:22	T1W	TAL SEA
Total/NA	Prep	5035	RA		272547	04/19/18 15:00	HDK	TAL SEA

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 062175

TestAmerica Job ID: 580-76723-1

Client Sample ID: 062175-20180419-SO-BP-ESW-1

Lab Sample ID: 580-76723-3
Date Collected: 04/19/18 11:30
Matrix: Solid
Date Received: 04/19/18 15:00
Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C	RA	1	272545	04/30/18 19:22	T1W	TAL SEA

Client Sample ID: 062175-20180419-SO-BP-

Lab Sample ID: 580-76723-4
Date Collected: 04/19/18 11:40
Matrix: Solid
Date Received: 04/19/18 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	272382	04/26/18 16:16	TTN	TAL SEA

Client Sample ID: 062175-20180419-SO-BP-

Lab Sample ID: 580-76723-4
Date Collected: 04/19/18 11:40
Matrix: Solid
Date Received: 04/19/18 15:00
Percent Solids: 72.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			272547	04/19/18 15:00	HDK	TAL SEA
Total/NA	Analysis	8260C		1	272545	04/30/18 19:49	T1W	TAL SEA

Client Sample ID: 062175-20180419-SO-BP-GW

Lab Sample ID: 580-76723-5
Date Collected: 04/19/18 12:00
Matrix: Water
Date Received: 04/19/18 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	272325	04/27/18 15:34	HDK	TAL SEA
Total/NA	Analysis	8260C	DL	10	272325	04/27/18 16:54	HDK	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: 062175

TestAmerica Job ID: 580-76723-1

Laboratory: TestAmerica Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska (UST)	State Program	10	17-024	01-19-19
ANAB	DoD ELAP		L2236	01-19-19
ANAB	ISO/IEC 17025		L2236	01-19-19
California	State Program	9	2901	11-05-18
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-05-18
US Fish & Wildlife	Federal		LE058448-0	10-31-18
USDA	Federal		P330-14-00126	02-10-20
Washington	State Program	10	C553	02-17-19

Sample Summary

Client: GHD Services Inc.
Project/Site: 062175

TestAmerica Job ID: 580-76723-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-76723-1	062175-20180419-SO-BP-BOT-2	Solid	04/19/18 09:30	04/19/18 15:00
580-76723-2	062175-20180419-SO-BP-SSW-2	Solid	04/19/18 10:15	04/19/18 15:00
580-76723-3	062175-20180419-SO-BP-ESW-1	Solid	04/19/18 11:30	04/19/18 15:00
580-76723-4	062175-20180419-SO-BP-	Solid	04/19/18 11:40	04/19/18 15:00
580-76723-5	062175-20180419-SO-BP-GW	Water	04/19/18 12:00	04/19/18 15:00

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush
☐ Short Hold

Chain of Custody Record

Client: GHD Limited
Client Contact: Christina McClelland
Date: 2018/04/19
Chain of Custody Number: 34654
Address: 20818 4th Ave W #90
Telephone Number (Area Code)/Fax Number: 1-804-237-0303
Lab Number:
Page 1 of 1
City: Lynwood | State: WA | Zip Code: 98036
Sampler: Becky Paulk
Lab Contact: Kris Allen
Project Name and Location (State): 062175
Billing Contact:
Contract/Purchase Order/Quote No.: 062175-2017-02

Loc: 580
76723

Analysis (Attach list if more space is needed): VOC 8260; RCRA 5 Metals

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	~~H2SO4~~ Nitric Acid	HNO3	HCl	NaOH	ZnAc/NaOH	Methanol	VOC 8260	RCRA 5 Metals	Special Instructions/ Conditions of Receipt
062175-20180419-SO-BP-BOT-2	2018/04/19	9:30				X	3						1	X		
062175-20180419-SO-BP-SSW-2	↓	10:15				X	3						1	X		
062175-20180419-SO-BP-ESW-1	↓	11:30				X	3						1	X		
062175-20180419-SO-BP-	↓	11:40				X	3						1	X		
062175-20180419-W-BP-GW	↓	12:00		X	~~X~~			1		2					X	~~see note~~ BP

580-76723 Chain of Custody

Therm. ID IR4 Cor 5.1° Unc 4.9°
Cooler Dsc: Sm Blue
Wet/Packs Packing: Bub
C.D.
Custody Seal: Yes__ No ✓

Cooler: ☐ Yes ☐ No Cooler Temp: ______

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ______ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☐ Other ______

QC Requirements (Specify):

	Sign/Print	Date	Time		Sign/Print	Date	Time
1. Relinquished By	[signature] / Becky Paulk	2018/04/19	3:00	1. Received By	[signature] Ken Hobbs	4-19-18	1500
2. Relinquished By				2. Received By			
3. Relinquished By				3. Received By			

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 580-76723-1

Login Number: 76723
List Number: 1
Creator: Hobbs, Kenneth F

List Source: TestAmerica Seattle

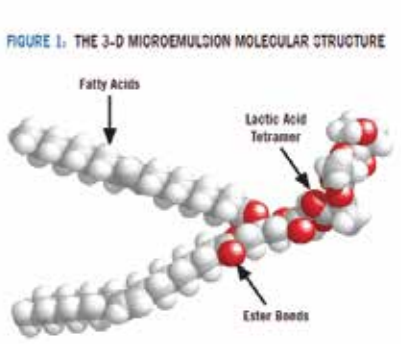
Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix E
3DMe Specification Sheet

3-D Microemulsion® Factory Emulsified Technical Description

3-D Microemulsion (3DME®) is comprised of a patented molecular structure containing oleic acids (i.e., oil component) and lactates/polylactates, which are molecularly bound to one another (figure 1). The 3DME molecule contains both a soluble (hydrophilic) and in-soluble (lipophilic) region. These two regions of the molecule are designed to be balanced in size and relative strength. The balanced hydrophilic/lipophilic regions of 3DME result in an electron donor with physical properties allowing it to initially adsorb to the aquifer material in the area of application, then slowly redistribute via very small 3DME "bundles" called micelles. These 3DME micelles spontaneously form within sections of the aquifer where concentrations of 3DME reach several hundred parts per million. The micelles' small size and mobility allow it to move with groundwater flow through the aquifer matrix, passing easily through the pore throats in between soil grains resulting in the further redistribution of 3DME within the aquifer. This allows for advective distribution of the oleic acids which are otherwise insoluble and unable to distribute in this manner, allowing for increased persistence of the lactate/polylactates component due to their initial attachment to the oleic acids.

Example of 3-D Microemulsion



Due to its patented molecular structure, 3DME offers far greater transport when compared to blended emulsified vegetable oil (EVO) products, which fail to distribute beyond the limits of pumping. 3DME also provides greater persistence when compared to soluble substrates such as lactates or simple sugars. The 3DME molecular structures capitalize on the best features of the two electron-donor types while at the same time, minimize their limitations. 3DME is delivered to the site as a ready-to-apply emulsion that is simply diluted with water to generate a large volume of a 3DME colloidal suspension.

Suspension of 3DME generated by this mixing range from micelles on the order of .02 microns to .05 microns in diameter, to "swollen" micelles, (termed "microemulsions") which are on the order of .05 to 5 microns in diameter. Once injected into the subsurface in high volumes, the colloidal suspension mixes and dilutes in existing pore waters. The micelles/microemulsions on the injection front will then begin to sorb onto the surfaces of soils as a result of zeta potential attraction and organic matter within the soils themselves. As the sorption continues, the 3DME will "coat" pore surfaces developing a layer of molecules and in some cases a bilayer. This sorption process continues as the micelles/microemulsion moves outward and disassociates into their hydrophilic/hydrophobic components. The specialized chemistry of 3DME results in a staged release of electron donors: free lactate (immediate); polylactate esters (mid-range) and free fatty acids & fatty acid esters (long-term). Material longevity of three years or greater has been seen at most sites as determined from biogeochemical analyses.

For a list of treatable contaminants with the use of 3DME, view the Range of Treatable Contaminants Guide

Chemical Composition

- Hydrogen Release Compound Partitioning Electron Donor – CAS #823190-10-9
- Sodium Lactate – CAS# 72-17-3
- Water – CAS# – 7732-18-5

3-D Microemulsion® Factory Emulsified Technical Description

Properties

- Density – Approximately 1.0 grams per cubic centimeter (relative to water)
- pH – Neutral (approximately 6.5 to 7.5 standard units)
- Solubility – Soluble in Water
- Appearance – White emulsion
- Odor – Not detectable
- Vapor Pressure – None
- Non-hazardous

Storage and Handling Guidelines

Storage
Store in original tightly closed container
Store in a cool, dry, well-ventilated place
Store away from incompatible materials
Recommended storage containers: plastic lined steel, plastic, glass, aluminum, stainless steel, or reinforced fiberglass

Handling
Avoid contact with eyes, skin, and clothing
Provide adequate ventilation
Wear appropriate personal protective equipment
Observe good industrial hygiene practices

Applications

- 3DME is diluted with water prior to application. Resulting emulsion has viscosity similar to water.
- Easily injects into formation through direct push injection points, injection wells or other injection delivery systems.

Application instructions for this product are contained here 3DME FE Application Instructions.

Health and Safety

Material is food grade and relatively safe to handle. We recommend avoiding contact with eyes and prolonged contact with skin. OSHA Level D personal protection equipment including vinyl or rubber gloves, and eye protection are recommended when handling this product. Please review the Material Safety Data Sheet for additional storage, usage, and handling requirements here: SDS-3DME FE.

REGENESIS

www.regenesis.com
1011 Calle Sombra, San Clemente CA 92673
949.366.8000

Appendix F
Field Data Sheets

WELL GAUGING DATA

Project # 180531-LB1 Date 5/31/18 Client GHD

Site PCC KENT - 125 2ND AVE N., KENT, WA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-1	0727	2					8.57	16.81		
MW-3R	0718	2					7.71	9.41		
MW-6	1108	2					9.22	14.48		
MW-7	0734	2					8.81	14.61		
MW-9	0723	2					7.69	14.10	↓	

WELL DEVELOPMENT DATA SHEET

Project #: 180531-LB1	Client: GHD
Developer: LB	Date Developed: 5/31/18
Well I.D. MW-1	Well Diameter: (circle one) (2) 3 4 6 __
Total Well Depth: Before 16.81 After 16.98	Depth to Water: Before 8.57 After 10.39
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF):
{12 x (d^2/4) x π} /231
where
12 = in / foot
d = diameter (in.)
π = 3.1416
231 = in 3/gal

Well dia.		VCF
2"	=	0.16
3"	=	0.37
4"	=	0.65
6"	=	1.47
10"	=	4.08
12"	=	6.87

1.5	X	10	=	15
1 Case Volume		Specified Volumes		gallons

Purging Device: Bailer ☐ Electric Submersible ☐
Middleburg ☒ Suction Pump ☐

Type of Installed Pump _____
Other equipment used SURGE BLOCK

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1406	—	SURGE WELL		W/ SURGE BLOCK	FOR 10 MIN	—
1421	—	START	PURGE @	APPROX	0.5 GPM	—
1425	60.6	6.40	1329	>1000	1.5	SILTY, DARK GREY
1428	59.8	6.27	1310	>1000	3.0	SILTY, DARK GREY
1432	58.8	6.27	1354	>1000	4.5	SILTY, DARK GREY
	—	SURGED	WELL W/	PUMP	—	—
1435	59.2	6.30	1326	>1000	6.0	SILTY, DARK GREY
1437	59.3	6.38	1331	>1000	7.5	SILTY, GREY
1441	59.3	6.39	1343	>1000	9.0	SILTY, GREY
	—	SURGED	WELL	W/ PUMP	—	—
1444	59.8	6.40	1357	>1000	10.5	✗ HARD BOTTOM ✗, SILTY, GREY
1447	61.3	6.41	1343	989	12.0	SILTY, GREY
1450	61.9	6.41	1337	244	13.5	LITTLE SILTY, LIGHT GREY
Did Well Dewater?		If yes, note above. NO		Gallons Actually Evacuated:		18

WELL DEVELOPMENT DATA SHEET

Well I.D. MW-1	PAGE 2 OF 2
Project #: 180531-LB1	Client: GHD

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1354	62.2	6.42	1333	93	15.0	CLOUDY
1357	61.5	6.50	1323	36	16.5	CLEAR
1400	60.8	6.49	1328	27	18.0	
	—	DEVELOPMENT	COMPLETE			—
						DTW: 10.39
						TWD: 16.98

WELL DEVELOPMENT DATA SHEET

Project #: 180531-LB1	Client: GHD
Developer: LB	Date Developed: 5/31/18
Well I.D. MW-3R	Well Diameter: (circle one) (2) 3 4 6 ___
Total Well Depth: Before 9.41 After 14.82	Depth to Water: Before 7.71 After 10.69
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF):	Well dia.		VCF
{12 x (d^2/4) x π} /231	2"	=	0.16
where	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
π = 3.1416	10"	=	4.08
231 = in 3/gal	12"	=	6.87

0.5	X	10	=	5
1 Case Volume		Specified Volumes		gallons

Purging Device: Bailer ☒ Electric Submersible ☐
Middleburg ☒ Suction Pump ☐

Type of Installed Pump _____
Other equipment used SURGE BLOCK

TIME	TEMP (F)	pH	Cond. (mS or (µS))	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
0742	———	SURGE	WELL	W/ SURGE BLOCK		FOR 10 MIN ———
0755	———	START	PURGE			
0801	57.0	6.35	1059	>1000	0.5	VERY SILTY, GREY
0805	56.9	6.30	1037	>1000	1.0	VERY SILTY, GREY
0809	56.8	6.29	1340	>1000	1.5	VERY SILTY, GREY
	———	SURGE	WELL W/	PUMP	———	———
0812	56.6	6.33	1305	>1000	2.0	VERY SILTY, GREY
0815	56.5	6.32	1312	>1000	2.5	VERY SILTY, GREY
0818	56.7	6.28	1361	>1000	3.0	VERY SILTY, GREY
	———	SURGE	WELL W/	PUMP	———	———
0821	56.0	6.34	1295	>1000	3.5	~~HARD BOTTOM~~ VERY SILTY
0825	56.1	6.31	1301	>1000	4.0	VERY SILTY, GREY
0828	56.4	6.32	1313	>1000	4.5	VERY SILTY, GREY
Did Well Dewater?		If yes, note above. NO		Gallons Actually Evacuated:		10

WELL DEVELOPMENT DATA SHEET

Well I.D. MW-3R	PAGE 2 OF 2
Project #: 180531-LB1	Client: GHD

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
0831	56.2	6.31	1346	>1000	5.0	VERY SILTY, GREY
	———	SURGED	WELL	W/ PUMP	———	———
0834	56.2	6.27	1370	>1000	5.5	SILTY, GREY
0837	56.1	6.25	1369	>1000	6.0	SILTY, GREY
0840	56.1	6.28	1371	>1000	6.5	LESS SILTY, LIGHT GREY
0843	56.1	6.28	1367	911	7.0	LESS SILTY, LIGHT GREY
0846	56.2	6.27	1358	>1000	7.5	LESS SILTY
0849	56.5	6.28	1357	445	8.0	CLOUDY
0852	56.7	6.29	1363	96	8.5	SLIGHTY CLOUDY
0855	56.9	6.27	1361	92	9.0	CLEAR
0858	57.1	6.31	1356	38	9.5	CLEAR
0901	57.1	6.30	1355	33	10.0	CLEAR
		———	DEVELOPMENT		COMPLETE	———
						DTW: 10.69
						TWD: 14.82

WELL DEVELOPMENT DATA SHEET

Project #: 180531-LB1	Client: GHD
Developer: LB	Date Developed: LB
Well I.D. MW-6	Well Diameter: (circle one) (2) 3 4 6 ___
Total Well Depth: Before 14.48 After 14.63	Depth to Water: Before 9.22 After 10.21
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF):
{12 x (d^2/4) x π} /231
where
12 = in / foot
d = diameter (in.)
π = 3.1416
231 = in 3/gal

Well dia.		VCF
2"	=	0.16
3"	=	0.37
4"	=	0.65
6"	=	1.47
10"	=	4.08
12"	=	6.87

1	X	10	=	10
1 Case Volume		Specified Volumes		gallons

Purging Device: Bailer ☐ Electric Submersible ☐
Middleburg ☒ Suction Pump ☐

Type of Installed Pump ___
Other equipment used SURGE BLOCK

TIME	TEMP (F)	pH	Cond. (mS or (µS))	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1120	———	SURGE	WELL W/	SURGE	BLOCK	FOR 10 MIN ———
1133	———	PURGE	STARTED	@ APPROX	0.25 GPM	———
1136	58.1	6.61	1208	>1000	1	BLACK, SILTY
1140	58.8	6.41	1206	>1000	2	BLACK, SILTY
1144	58.2	6.42	1198	>1000	3	BLACK, SILTY
———	———	SURGED	WELL	W/ PUMP	———	———
1148	58.5	6.42	1195	>1000	4	~~HARD BOTTOM~~, SILTY
1152	58.4	6.47	1144	>1000	5	DARK GREY, SILTY
1156	58.1	6.48	1140	>1000	6	DARK GREY, SILTY
1200	57.9	6.48	1138	>1000	7	DARK GREY, LITTLE SILTY
	———	SURGED	WELL	W/ PUMP	———	———
1204	57.7	6.49	1133	>1000	8	DARK GREY, SILTY
1208	58.1	6.49	1143	>1000	9	GREY, SILTY
Did Well Dewater?		If yes, note above. NO		Gallons Actually Evacuated:		14

WELL DEVELOPMENT DATA SHEET

Well I.D. MW-6	PAGE 2 OF 2
Project #: 180531-LB1	Client: GHD

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1212	58.6	6.49	1149	>1000	10	GREY, ~~CLOUDY~~ LITTLE SILTY
1216	58.7	6.48	1133	772	11	GREY, CLOUDY
1220	58.8	6.46	1136	96	12	CLEAR
1225	58.7	6.45	1137	31	13	CLEAR
1229	58.7	6.44	1138	28	14	
	—	DEVELOPMENT		COMPLETE	—	
						DTW: ~~10.63~~ 10.21
						TWB: 14.63

WELL DEVELOPMENT DATA SHEET

Project #: 180531-LB1	Client: GHD
Developer: LB	Date Developed: 5/31/18
Well I.D. MW-7	Well Diameter: (circle one) (2) 3 4 6 ___
Total Well Depth: Before 14.61 After 14.81	Depth to Water: Before 8.81 After 11.72
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF):
{12 x (d^2/4) x π} /231
where
12 = in / foot
d = diameter (in.)
π = 3.1416
231 = in 3/gal

Well dia.		VCF
2"	=	0.16
3"	=	0.37
4"	=	0.65
6"	=	1.47
10"	=	4.08
12"	=	6.87

1	X	10	=	10
1 Case Volume		Specified Volumes		gallons

Purging Device: Bailer ☐ Electric Submersible ☐
Middleburg ☒ Suction Pump ☐

Type of Installed Pump ____
Other equipment used SURGE BLOCK

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1246	———	SURGE	WELL	W/ SURGE	BLOCK FOR	10 MIN. ———
1300	———	START	PURGE	@ APPROX	0.5 ~~0.25~~ GPM	———
1302	60.0	6.49	1127	>1000	1	SILTY, DARK GREY
1305	59.7	6.37	1129	>1000	2	SILTY, DARK GREY
1309	59.4	6.35	1126	>1000	3	SILTY, DARK GREY
	———	SURGED	WELL	W/ PUMP	———	
1313	60.0	6.34	1123	>1000	4	*HARD BOTTOM X, LITTLE SILTY
1317	61.1	6.35	1121	>1000	5	SILTY, GREY
1322	60.6	6.35	1119	>1000	6	SILTY, GREY
	———	SURGED	WELL	W/ PUMP	———	
1326	61.7	6.33	1091	>1000	7	LITTLE SILTY, GREY
1330	62.4	6.30	1108	>1000	8	CLOUDY, GREY
1334	62.7	6.31	1098	220	9	CLOUDY, LIGHT GREY
Did Well Dewater?		If yes, note above. NO		Gallons Actually Evacuated:		12

WELL DEVELOPMENT DATA SHEET

Well I.D. MW-7	PAGE 2 OF 2
Project #: 180531-LB1	Client: GHD

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1338	61.6	633	1091	58	10	CLEAR,
1342	61.8	631	1087	22	11	CLEAR
1346	61.7	634	1086	21	12	
		— DEVELOPMENT COMPLETE —				
						DTW: 11.72
						TWD: 14.81

WELL DEVELOPMENT DATA SHEET

Project #: 180531-LB1	Client: GHD
Developer: LB	Date Developed: 5/31/18
Well I.D. MW-9	Well Diameter: (circle one) (2) 3 4 6 ___
Total Well Depth: Before 14.10 After 14.51	Depth to Water: Before 7.69 After 10.65
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF):
{12 x (d^2/4) x π} /231
where
12 = in / foot
d = diameter (in.)
π = 3.1416
231 = in 3/gal

Well dia.		VCF
2"	=	0.16
3"	=	0.37
4"	=	0.65
6"	=	1.47
10"	=	4.08
12"	=	6.87

1.25	X	10	=	12.5
1 Case Volume		Specified Volumes		gallons

Purging Device: Bailer ☐ Electric Submersible ☐
Middleburg ☒ Suction Pump ☐

Type of Installed Pump ___
Other equipment used SURGE BLOCK

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
0932	———	SURGE WELL		W/ SURGE BLOCK	FOR 10 MIN	———
0934	———	START PURGE		@ APPOX	0.25 GPM	———
0939	57.2	6.51	1207	>1000	1.25	~~DARK~~ SILTY, DARK GREY
0943	57.7	6.65	1220	>1000	2.50	SILTY, GREY, DTW: 10.73
0947	57.4	6.64	1216	>1000	3.75	SILTY, GREY
	———	SURGED WELL		W/ PUMP	———	———
0951	57.3	6.65	1242	>1000	5.00	SILTY, GREY, DTW: 10.74
0956	57.4	6.64	1246	>1000	6.25	LITTLE SILTY, GREY
1000	57.5	6.63	1245	>1000	7.50	SILTY, GREY, DTW: 10.74
	———	SURGED	WELL	W/ PUMP	———	———
1005	57.5	6.63	1240	>1000	8.75	* HARD BOTTOM ~~X~~, SILTY
1009	57.6	6.62	1232	>1000	10.00	LITTLE SILTY, LIGHT GREY
1013	57.5	6.61	1225	>1000	11.25	LITTLE SILTY
Did Well Dewater?		If yes, note above.		Gallons Actually Evacuated:		20.0

WELL DEVELOPMENT DATA SHEET

Well I.D. MW-9	PAGE 2 OF 2
Project #: 180531-LB1	Client: GHD

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1017	57.6	6.60	1229	>1000	12.50	CLOUDY, LIGHT GREY
	—	SURGED	WELL	W/ PUMP	—	—
1021	57.5	6.63	1241	>1000	13.75	LIGHT SILT, LIGHT GREY
1025	57.3	6.62	1235	>1000	15.00	CLOUDY
1030	57.2	6.62	1235	351	16.25	CLOUDY
1034	57.5	6.64	1231	76	17.50	CLEAR
1038	57.4	6.63	1232	40	18.75	CLEAR
1042	57.4	6.62	1233	38	20.0	
	—	DEVELOPMENT		COMPLETE	—	—
						DTW: 10.65
						TWD: 14.51

WELLHEAD INSPECTION FORM

Client: GHD Site: PCC KENT - 1215 2ND AVE N., KENT, WA Date: 5/31/18

Job #: 180531-LB1 Technician: L. BURES Page 1 of 1

Well ID	Well Inspected - No Corrective Action Required	Check indicates deficiency: Cap non-functional	Lock non-functional	Lock missing	Bolts missing (list qty)	Tabs stripped (list qty)	Tabs broken (list qty)	Annular seal incomplete	Apron damaged	Rim / Lid broken	Trip Hazard	Below Grade	Other (explain in notes)	Well Not Inspected (explain in notes)	Notes (list if cap or lick replaced, if there are access issues associated with repairs, if traffic control is required, if stand pipe damaged, or any specific details not covered by checklist)
MW-1	X														
MW-3R	X														
MW-6							1/2			X					LID NOT SECURABLE
MW-7	X														
MW-9	X														

NOTES:

WELL GAUGING DATA

Project # 180604TD-1 Date 6-4-18 Client GHD

Site PCC Kent 1215 W 2nd Ave N Kent WA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or (TOC)	Notes
MW-1	0956	2					8.70	17.00		
MW-3R	0952	2					8.20	14.88		
MW-6	1002	2					9.50	14.71		
MW-7	0941	2					9.02	14.75		
MW-9	0946	2					8.00	14.54	↓	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 180604TD-1	Client: GHD
Sampler: TD	Gauging Date: 6-4-18
Well I.D.: MW-1	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 17.00	Depth to Water (ft.): 8.70
Depth to Free Product: -	Thickness of Free Product (feet): -
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump | (Peristaltic Pump) | Bladder Pump
Sampling Method: Dedicated Tubing | (New Tubing) | Other ___

Start Purge Time: 1303 Flow Rate: 100 mL/min Pump Depth: 15'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
1308	17.4	6.67	1479	50	2.74	-157.0	600	8.98
1311	17.9	6.57	1445	53	1.80	-150.6	900	9.06
1314	17.8	6.55	1447	50	1.73	-145.2	1200	9.08
1317	17.8	6.54	1448	48	1.71	-143.2	1500	9.09
1320	17.8	6.54	1449	47	1.69	-142.6	1800	9.09

Did well dewater? Yes (No) Amount actually evacuated: 1800 mL

Sampling Time: 1325 Sampling Date: 6-4-18

Sample I.D.: MW-1 Laboratory: Pace

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 180604 TD-1	Client: GHD
Sampler: TD	Gauging Date: 6-4-18
Well I.D.: MW-3R	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 14.88	Depth to Water (ft.): 8.20
Depth to Free Product: -	Thickness of Free Product (feet): -
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: Dedicated Tubing (New Tubing) Other ____

Start Purge Time: 1215 Flow Rate: 100 mL/min Pump Depth: 13'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or (µS)/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
1220	15.5	6.55	1317	45	3.61	-209.6	600	8.42
1223	15.2	6.46	1323	43	2.61	-165.7	900	8.49
1226	15.1	6.45	1326	42	2.46	-149.2	1200	8.50
1229	15.1	6.44	1327	42	2.43	-145.3	1500	8.50
1232	15.1	6.44	1328	41	2.40	-144.0	1800	8.50

Did well dewater? Yes (No) Amount actually evacuated: 1800 mL

Sampling Time: 1235 Sampling Date: 6-4-18

Sample I.D.: MW-3R Laboratory: Pace

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See CoC

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 180604TD-1	Client: GHD
Sampler: TD	Gauging Date: 6-4-18
Well I.D.: MW-6	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 14.71	Depth to Water (ft.): 9.50
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: 451 556

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: Dedicated Tubing (New Tubing) Other ____

Start Purge Time: 1011 Flow Rate: 600 mL/min Pump Depth: 13'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1015	14.4	6.46	1195	36	2.50	-200.7	600	9.90
1018	14.1	5.93	1157	33	1.90	-162.1	900	10.02
1021	14.0	5.90	1154	30	1.86	-160.0	1200	10.04
1024	14.0	5.88	1153	29	1.83	-157.2	1500	10.06
1027	14.0	5.88	1150	29	1.80	-156.9	1800	10.06

Did well dewater? Yes (No) Amount actually evacuated: 1800 mL

Sampling Time: 1030 Sampling Date: 6-4-18

Sample I.D.: MW-6 Laboratory: Pace

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 180604 TD-1	Client: GHD
Sampler: TD	Gauging Date: 6-4-18
Well I.D.: MW-7	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 14.75	Depth to Water (ft.): 9.02
Depth to Free Product: -	Thickness of Free Product (feet): -
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: Dedicated Tubing (New Tubing) Other ____

Start Purge Time: 1100 Flow Rate: 100 mL/min Pump Depth: 13'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1104	15.0	6.60	1103	39	3.16	-172.1	600	9.40
1107	14.9	6.57	1099	36	2.64	-186.1	900	9.53
1110	14.7	6.60	1096	35	2.53	-189.3	1200	9.55
1113	14.7	6.61	1094	34	2.50	-191.2	1500	9.56
1116	14.7	6.61	1093	33	2.48	-191.9	1800	9.56

Did well dewater? Yes (No) Amount actually evacuated: 1800 mL

Sampling Time: 1120 Sampling Date: 6-4-18

Sample I.D.: MW-7 Laboratory: Pace

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 180604 TD-1	Client: GHD
Sampler: TD	Gauging Date: 6-4-18
Well I.D.: MW-9	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 14.54	Depth to Water (ft.): 8.00
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: Dedicated Tubing (New Tubing) Other ___

Start Purge Time: 1135 Flow Rate: 100 mL/min Pump Depth: 13'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or (µS)/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
1139	14.1	6.65	1154	42	2.34	-178.0	600	8.26
1142	15.4	6.58	1150	40	2.10	-168.1	900	8.31
1145	15.5	6.56	1148	39	2.06	-165.2	1200	8.33
1148	15.4	6.56	1149	39	2.04	-164.0	1500	8.33
1151	15.4	6.56	1149	38	2.02	-163.5	1800	8.33

Did well dewater? Yes (No) Amount actually evacuated: 1800 mL

Sampling Time: 1155 Sampling Date: 6-4-18

Sample I.D.: MW-9 Laboratory: Pace

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: GHD Services	Report To: christina.mcclelland@ghd.com	Attention:
121 North 20th St	Copy To: jeffrey.cloud@ghd.com	Company Name: GHD Services
Lynnwood, WA 98036		Address:
Email To: christina.mcclelland@ghd.com	Purchase Order No.	Pace Quote Reference:
Phone: Fax	Client Project ID: 062175-05A-03 PCC - Kent	Pace Project Manager: Jenni Gross
Requested Due Date/TAT: 10 Day (Standard)	Container Order Number:	Pace Profile #:

Regulatory Agency:

State / Location: Kent/ WA

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	8260 Full List VOCs	**6010 Dissolved As	Residual Chlorine (Y/N)
1	TB-1	WT	G	6-4-18	0920	-	-		2				X					X	X		
2	MW-1	WT	G		1320	6-4-18	1325		4	X			X					X	X	X	
3	MW-3R	WT	G		1232		1235		4	X			X					X	X	X	
4	MW-6	WT	G		1027		1030		4	X			X					X	X	X	
5	MW-7	WT	G		1116		1120		4	X			X					X	X	X	
6	MW-9	WT	G	↓	1151	↓	1155		4	X			X					X	X	X	
7		WT	G				1235 TB														
8		WT	G																		
9		WT	G																		
10		OT																			
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
**Lab to filter and preserve	[signature] /GTI	6-4-18	1205	[signature] PACE	6-5-18	1205	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tony Dalri

SIGNATURE of SAMPLER: [signature]

DATE Signed: 6-4-18

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	A-

WELLHEAD INSPECTION FORM

Client: GHD Site: PCC Kent Date: 6-4-18

Job #: 180604TD-1 Technician: T. Dalri Page 1 of 1

Well ID	Well Inspected - No Corrective Action Required	Check indicates deficiency: Cap non-functional	Lock non-functional	Lock missing	Bolts missing (list qty)	Tabs stripped (list qty)	Tabs broken (list qty)	Annular seal incomplete	Apron damaged	Rim / Lid broken	Trip Hazard	Below Grade	Other (explain in notes)	Well Not Inspected (explain in notes)	Notes (list if cap or lick replaced, if there are access issues associated with repairs, if traffic control is required, if stand pipe damaged, or any specific details not covered by checklist)
MW-1	X														
MW-3R	X														
MW-6	X														
MW-7	X														
MW-9	X														

NOTES:

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME GHD @ PCC Kent				PROJECT NUMBER 180604TD-1			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
ysi 556	09610001	6-4-18 1006	pH 7.00 10.00 4.00	pH 7.02 10.01 4.01	✓	19.6°C	TD
			Cond 39.0 mS/cm	Cond 39.2 mS/cm	✓	19.5°C	TD
			ORP 238 DO 100%	ORP 238 DO 98.3%	✓	19.5°C	TD