

Mr. Pete Campbell
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Subject:

ART Fifth Annual Monitoring Report
Former TBE Machine Shop Property
Mile 22.5 Kenai Spur Highway
Nikiski, Alaska

ENVIRONMENT

Date:
August 12, 2021

Dear Mr. Campbell:

Contact:
Matthew Pelton

This letter report has been prepared on behalf of the General Electric Company (GE) to document groundwater monitoring in September 2020 following shut down of the Accelerated Remediation Technologies (ART) in-well treatment system installed at the Former TBE Machine Shop Property located at 49200 Kenai Spur Highway (milepost 22.5) in Nikiski, Alaska (Figure 1). Monitoring included routine system inspections and groundwater gauging/sampling. Annual monitoring was performed in accordance with the Alaska Department of Environmental Conservation- (ADEC-) approved *ART Third Annual Monitoring Report, Revision No. 1* (Arcadis U.S., Inc., February 2019). Pursuant to 18 Alaska Administrative Code 75.335, the work described in this report was conducted under the supervision of a Qualified Person. The report is organized to provide a summary of activities in the following sections:

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Our ref:
ARC11033

- System Operation and Maintenance
- Annual Groundwater Monitoring
- Investigation-derived Waste (IDW) Management
- Data Quality Assurance (QA)/Quality Control (QC) Summary
- Recommendations
- Summary

SYSTEM OPERATION AND MAINTENANCE

As presented in the *ART Post-System Startup Report* (Arcadis U.S., Inc. [Arcadis], August 2014), the ART system was installed in May 2014 and system startup activities were conducted in June 2014. The system was in continuous operation from June 18, 2014 to June 6, 2016, when the system was shutdown, with no significant issues noted and no down time, aside from routine maintenance periods. During the operation of the ART system, groundwater was sampled for volatile organic compounds (VOCs), diesel-range organics (DRO), gasoline-range organics (GRO), and field measurements of water quality parameters and ferrous iron on a quarterly basis. Based on these results, the system was shut down and post-shutdown monitoring was proposed in the *ART Second Annual Monitoring Report, Former TBE Machine Shop Property* (Arcadis, 2016). ADEC concurred with proposed post-shutdown monitoring in an e-mail from Mr. Pete Campbell (ADEC) to Mr. Matthew Pelton (Arcadis) dated September 9, 2016.

ANNUAL GROUNDWATER MONITORING

Annual groundwater sampling was conducted on September 16, 2020. The sampling event included static water level measurements at all 11 monitoring wells shown on Figure 1, as well as groundwater sampling.

Static water level measurements were recorded at each monitoring well prior to sampling. Water levels are summarized in Table 1. Samples were collected from the wells following purging using low flow techniques. Field measurements of water quality parameters were also collected. Samples were submitted for laboratory analysis of VOCs by United States Environmental Protection Agency (USEPA) SW-846 Method 8260B, GRO by AK Method 101, and DRO by AK Method 102. As documented in a September 24, 2020 e-mail correspondence from Matt Pelton (Arcadis) to ADEC, samples were shipped to the laboratory via FedEx Priority overnight on September 17th. However, due to FedEx delays likely caused by the 2020 wildfires in the northwest, samples were not received until September 21st, resulting in the laboratory receiving samples at temperatures above the acceptable range for organics. In addition, due to a laboratory error, VOC samples were analyzed outside of the 14-day hold time. Per the ADEC September 24, 2020 e-mail response to Matt Pelton, ADEC indicated that while the warmed samples had lost some of their integrity, it was not necessary to re-sample in 2020. Arcadis instructed the laboratory to run and report the 2020 sample analytical data for the purpose of documenting the event; however, as described in detail in the Data QA/QC Summary section, all detected results have been qualified with a J flag (i.e., estimated value), and all non-detected data has been rejected during the validation process.

A summary of groundwater data for samples collected in 2020 is provided in Table 2. A summary of all groundwater data to date since baseline sampling in 2014, conducted shortly before system startup, is provided in Table 3. Laboratory analytical results are provided in Attachment 1. Laboratory Data Review Checklists are provided in Attachment 2.

VOC concentrations in samples collected from monitoring wells MW-3, MW-6, and MW-8 through MW-11 have never exceeded groundwater cleanup levels, including samples collected in 2020 (although, as noted, these results were rejected). Eight VOCs have historically been detected in one or more of the remaining monitoring wells (MW-1, MW-2, MW-4, MW-5, and MW-7) at concentrations above groundwater cleanup levels: 1,2,4-Trimethylbenzene, cis-1,2-dichloroethene (cis-DCE), ethylbenzene,

naphthalene, tetrachloroethene (PCE), trichloroethene (TCE), vinyl chloride, and total xylenes. Of these VOCs, only three were detected at estimated concentrations above cleanup levels in samples collected in 2020:

- cis-DCE in MW-1 and MW-5
- Ethylbenzene in MW-5
- TCE in MW-1 and MW-4

While 2020 samples were analyzed above temperature and outside of hold time as noted previously, the 2020 J-flagged (detected) data are generally consistent with historical groundwater concentrations for VOCs in samples collected from monitoring wells MW-1, MW-4, and MW-5. Groundwater concentrations at most wells remain below or within one order of magnitude of the cleanup levels. Concentrations of cis-DCE in samples collected from MW-1 have decreased from the atypically high results observed in September of 2017. Similarly, samples collected from MW-5 have had declining concentrations of cis-DCE from 2017 up to and including the 2020 sample. Overall, decreases in concentrations indicate that attenuation of cis-DCE exceeds the rate of generation via any operative anaerobic reductive dechlorination. The decrease in TCE concentration observed in well MW-1 is consistent with anaerobic reductive dechlorination. Conditions continue to be amenable to attenuation via reductive dechlorination. As the chlorinated solvent data from this most recent event is estimated, any significant conclusions regarding concentration trends will be deferred until after the next sampling event.

While GRO remains below the cleanup standard in all wells, DRO in MW-5 was slightly above the standard, at a concentration of 1.6 mg/L (flagged as estimated) versus a standard of 1.5 mg/L.

IDW MANAGEMENT

Groundwater from well purging was treated on-site by pumping through a carbon-filled drum. Treated groundwater was discharged to the ground per prior ADEC approval.

DATA QA/QC SUMMARY

As required by ADEC (Technical Memorandum 06-002, dated August 20, 2009), Arcadis completed a laboratory data review checklist for each Eurofins TestAmerica Laboratories, Inc. (Eurofins) laboratory report generated as part of the monitoring activities. The laboratory reports are included as Attachment 1 and the data review checklists are included as Attachment 2. The following QA summary describes parameters related to the quality and usability of the data presented in this report.

Sample Handling

Samples collected as part of the sampling program were shipped overnight via FedEx to Eurofins in Seattle, Washington to perform the requested analyses, using the methods specified in the chain of custody records.

Sample receipt forms for each work order were reviewed to verify that samples were received in good condition and within the acceptable temperature range. As noted above, due to FedEx shipping/delivery delays and laboratory error, 2020 samples were received above temperature range and VOC analysis was

conducted outside of hold time. Therefore, all non-detected results were rejected, while all detected results were J-flagged to indicate an estimated value.

Sensitivity

Laboratory method blanks were analyzed in association with samples collected for the sampling program to check for contributions to the analytical results possibly attributable to laboratory-based contamination. A trip blank was submitted with groundwater samples for VOC and/or GRO analysis to verify that cross-contamination did not occur during sample handling and transport. There were no method blank or trip blank detections affecting data quality for the reporting period. An equipment rinsate blank was submitted for DRO, GRO, and VOC analysis to verify that proper equipment decontamination procedures were performed.

Precision

Field duplicate samples were collected at a frequency of approximately 20 percent of the overall number of samples collected during the August sampling event. The data meet precision objectives for field duplicate and matrix spike (MS) and matrix spike duplicate (MSD) RPDs, although all detectable results were flagged as estimated.

Accuracy

Accuracy is evaluated using percent recoveries for laboratory control samples such as LCS, LCSD, MS, and MSD. The LCS and/or LCSD percent recoveries were outside the laboratory upper control limit for at least one analyte for the 2020 groundwater sampling event. However, no samples were affected because the analytes were biased high and associated samples were not detected. The MS and/or MSD percent recoveries were outside laboratory control limits for at least one analyte for the 2020 groundwater sampling event. However, the associated sample result was a non-detection, and non-detected results were already rejected as previously noted.

Completeness

The detected results appear to be valid and usable, and meet the ADEC completeness goal. However, non-detect results were rejected due to sample temperatures and hold times as indicated in the sample handling section.

RECOMMENDATIONS

Groundwater samples were collected at the site in 2020 in accordance with the ADEC-approved *ART Third Annual Monitoring Report, Revision No. 1* (Arcadis U.S., Inc., February 2019). No evidence of significant rebound was observed during the 2020 post-ART system shutdown monitoring period. However, as discussed above, sample integrity was compromised due to samples being analyzed out of temperature range and outside of hold time, resulting in detected results being J-flagged, and non-detected results being rejected. The 2020 data are presented in this report for documentation purposes. The recommendations

Mr. Campbell
August 12, 2021

outlined in the *ART Third Annual Monitoring Report* (Arcadis U.S., Inc., February 2019) proposed annual groundwater monitoring in 2019 and 2020. Given the compromised integrity of samples collected in 2020, GE proposes an additional annual monitoring and reporting event in 2021 for groundwater rebound and long-term groundwater quality trends with the ART system off. Groundwater monitoring recommendations beyond 2021 will be outlined in the 2021 post-ART system annual monitoring report.

Samples will be collected from wells MW-1 through MW-11 in 2021. Sampling will be performed in late summer/early fall, which is historically the time of year in which higher concentrations are observed in groundwater. Wells will be sampled for VOCs, DRO, and GRO. Field parameters to be collected include dissolved oxygen, oxidation-reduction potential, pH, specific conductivity, temperature, and turbidity. No collection of ferrous iron or HPC data is proposed.

The ART system wells did not reduce concentrations of contaminants to below standards over the course of their operation. While the ART system operation may have provided some benefit, it is unclear what the contribution of the ART system was to the overall improvement in groundwater concentrations of PCE and TCE. The formation of cis-DCE is indicative of anaerobic degradation of PCE and TCE; something which would not be expected to be enhanced, but rather hindered by, the ART system. At the present time, the predominate remaining chlorinated VOC is cis-DCE, which is amenable to both aerobic and anaerobic biodegradation. As the site conditions are amenable to cis-DCE formation, it is recommended that nothing be done to interfere with anaerobic reductive chlorination processes. Operation of the ART system may be counterproductive in that it produces, at least locally, conditions that are not favorable for anaerobic reductive dechlorination. All of the remaining constituents are amenable to non-biological attenuation mechanisms. Given the current concentrations and types of VOCs that now predominate, conditions are well suited to monitored natural attenuation as the sole remedy going forward.

SUMMARY

Routine groundwater monitoring has been conducted on site since the shutdown of the ART system in June 2016. Results have remained consistent with historical data and annual monitoring is proposed for 2021. If you have any questions or concerns, please feel free to call me at 919-415-2308 or Mr. Bob Witsell of GE at 706-331-0347.

Sincerely,

Arcadis U.S., Inc.



Matthew Pelton
Project Manager

Mr. Campbell
August 12, 2021

Copies:

Bob Witsell (GE)

Rebecca Andresen (Arcadis)

Enclosures:

Tables

- 1 Monitoring Well Construction Information and Groundwater Elevations
- 2 Summary of 2020 Groundwater Sample Analytical Results – Detects Only
- 3 Summary of Historical Groundwater Sample Analytical Results – Detects Only

Figure

- 1 Site Plan

Attachments

- 1 Laboratory Report
- 2 Laboratory Data Review Checklists

TABLES



Table 1
Monitoring Well Construction Information and Groundwater Elevations
Annual Monitoring Reptot
Former TBE Machine Shop, Nikiski, AK



Location ID	Ground Surface Elevation (ft amsl)	Top of Casing Elevation (ft amsl)	June 10, 2014		September 9, 2014		December 3, 2014		March 2, 2015	
			Depth to Water (ft btoc)	GW Elevation (ft amsl)	Depth to Water (ft btoc)	GW Elevation (ft amsl)	Depth to Water (ft btoc)	GW Elevation (ft amsl)	Depth to Water (ft btoc)	GW Elevation (ft amsl)
MW-1	127.46	130.16	41.24	88.92	41.35	88.81	41.24	88.92	42.18	87.98
MW-2	127.72	130.61	41.68	88.93	41.78	88.83	41.69	88.92	42.62	87.99
MW-3	128.44	131.42	42.43	88.99	42.58	88.84	42.48	88.94	43.42	88.00
MW-4	128.45	131.33	42.38	88.95	42.48	88.85	42.35	88.98	43.32	88.01
MW-5	127.93	131.07	41.2	89.87	42.23	88.84	42.1	88.97	43.06	88.01
MW-6	127.68	130.82	41.87	88.95	41.97	88.85	41.89	88.93	42.82	88.00
MW-7	128.44	131.75	42.82	88.93	42.93	88.82	42.81	88.94	43.75	88.00
MW-8	128.65	131.33	42.39	88.94	42.52	88.81	42.36	88.97	43.33	88.00
MW-9	129.07	131.89	42.94	88.95	43.08	88.81	42.95	88.94	43.9	87.99
MW-10	126.67	129.3	40.34	88.96	40.45	88.85	40.36	88.94	41.28	88.02
MW-11	125.3	128.3	39.32	88.98	39.42	88.88	39.35	88.95	40.25	88.05

Notes:

TOC Elevations are taken from the 2011 land survey reported by URS in the 2011 Groundwater Characterization Report.

Survey coordinates provided in Alaska State Plane Zone 4, NAD 27.

ft amsl - feet above mean sea level

ft btoc - feet below top of casing

NAD 27 - North American Datum of 1927

Table 1
Monitoring Well Construction Information and Groundwater Elevations
Annual Monitoring Reptot
Former TBE Machine Shop, Nikiski, AK



Location ID	Ground Surface Elevation (ft amsl)	Top of Casing Elevation (ft amsl)	May 27, 2015		September 9, 2015		December 1, 2015		March 15, 2016	
			Depth to Water (ft btoc)	GW Elevation (ft amsl)	Depth to Water (ft btoc)	GW Elevation (ft amsl)	Depth to Water (ft btoc)	GW Elevation (ft amsl)	Depth to Water (ft btoc)	GW Elevation (ft amsl)
MW-1	127.46	130.16	42.29	87.87	43.10	87.06	40.82	89.34	41.96	88.20
MW-2	127.72	130.61	42.67	87.94	44.51	86.10	41.27	89.34	42.39	88.22
MW-3	128.44	131.42	43.51	87.91	44.33	87.09	42.05	89.37	43.20	88.22
MW-4	128.45	131.33	43.47	87.86	44.27	87.06	41.96	89.37	43.09	88.24
MW-5	127.93	131.07	43.18	87.89	44.00	87.07	41.70	89.37	42.84	88.23
MW-6	127.68	130.82	42.89	87.93	43.71	87.11	41.47	89.35	42.60	88.22
MW-7	128.44	131.75	43.65	88.10	44.67	87.08	42.42	89.33	43.53	88.22
MW-8	128.65	131.33	43.48	87.85	44.30	87.03	42.00	89.33	42.09	89.24
MW-9	129.07	131.89	43.97	87.92	44.78	87.11	42.57	89.32	43.65	88.24
MW-10	126.67	129.3	41.36	87.94	42.23	87.07	39.96	89.34	41.07	88.23
MW-11	125.3	128.3	40.21	88.09	41.11	87.19	38.91	89.39	46.07	82.23

Notes:

TOC Elevations are taken from the 2011 land survey reported by URS in the 2011 Groundwater Characterization Report.

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Table 1
Monitoring Well Construction Information and Groundwater Elevations
Annual Monitoring Rept
Former TBE Machine Shop, Nikiski, AK



Location ID	Ground Surface Elevation (ft amsl)	Top of Casing Elevation (ft amsl)	June 8, 2016		September 12, 2016		March 1, 2017		September 5, 2017	
			Depth to Water (ft btoc)	GW Elevation (ft amsl)	Depth to Water (ft btoc)	GW Elevation (ft amsl)	Depth to Water (ft btoc)	GW Elevation (ft amsl)	Depth to Water (ft btoc)	GW Elevation (ft amsl)
MW-1	127.46	130.16	43.20	86.96	42.11	88.05	42.87	87.29	43.40	86.76
MW-2	127.72	130.61	42.24	88.37	42.50	88.11	42.28	88.33	43.83	86.78
MW-3	128.44	131.42	43.06	88.36	42.65	88.77	44.10	87.32	44.25	87.17
MW-4	128.45	131.33	43.00	88.33	43.22	88.11	44.02	87.31	44.55	86.78
MW-5	127.93	131.07	42.67	88.40	42.93	88.14	43.72	87.35	44.28	86.79
MW-6	127.68	130.82	42.45	88.37	42.09	88.73	43.50	87.32	44.03	86.79
MW-7	128.44	131.75	43.40	88.35	43.64	88.11	44.40	87.35	44.98	86.77
MW-8	128.65	131.33	43.00	88.33	42.90	88.43	44.03	87.30	44.60	86.73
MW-9	129.07	131.89	46.32	85.57	43.75	88.14	44.50	87.39	45.08	86.81
MW-10	126.67	129.3	43.45	85.85	41.14	88.16	41.94	87.36	42.49	86.81
MW-11	125.3	128.3	42.95	85.35	40.09	88.21	40.87	87.43	42.41	85.89

Notes:

TOC Elevations are taken from the 2011 land survey reported by URS in the 2011 Groundwater Characterization Report.

Survey coordinates provided in Alaska State Plane Zone 4, NAD 27.

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NAD 27 - North American Datum of 1927

Table 1
Monitoring Well Construction Information and Groundwater Elevations
Annual Monitoring Report
Former TBE Machine Shop, Nikiski, AK



Location ID	Ground Surface Elevation (ft amsl)	Top of Casing Elevation (ft amsl)	March 19, 2018		August 1, 2019		September 16, 2020	
			Depth to Water (ft btoc)	GW Elevation (ft amsl)	Depth to Water (ft btoc)	GW Elevation (ft amsl)	Depth to Water (ft btoc)	GW Elevation (ft amsl)
MW-1	127.46	130.16	42.77	87.39	42.02	88.14	41.98	88.18
MW-2	127.72	130.61	43.20	87.41	42.44	88.17	42.39	88.22
MW-3	128.44	131.42	44.00	87.42	43.25	88.17	43.21	88.21
MW-4	128.45	131.33	43.90	87.43	43.14	88.19	43.13	88.20
MW-5	127.93	131.07	43.65	87.42	42.88	88.19	42.88	88.19
MW-6	127.68	130.82	43.40	87.42	42.65	88.17	42.60	88.22
MW-7	128.44	131.75	44.34	87.41	43.57	88.18	43.55	88.20
MW-8	128.65	131.33	43.90	87.43	43.15	88.18	43.14	88.19
MW-9	129.07	131.89	44.44	87.45	43.70	88.19	43.64	88.25
MW-10	126.67	129.3	41.86	87.44	41.10	88.20	41.01	88.29
MW-11	125.3	128.3	40.81	87.49	40.08	88.22	40.02	88.28

Notes:

TOC Elevations are taken from the 2011 land survey reported by URS in the 2011 Groundwater Characterization Report.

Survey coordinates provided in Alaska State Plane Zone 4, NAD 27.

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NAD 27 - North American Datum of 1927

Table 2
 Summary of 2020 Groundwater Sample Analytical Results
 Annual Monitoring Report
 Former TBE Machine Shop, Nikiski, AK

Location ID: Date Collected: Sample Name:	Groundwater Cleanup Level	Units	MW-1 09/16/20 MW-1-W-200916	MW-2 09/16/20 MW-2-W-200916	MW-3 09/16/20 MW-3-W-200916	MW-4 09/16/20 MW-4-W-200916	MW-5 09/16/20 MW-5-W-200916	MW-6 09/16/20 MW-6-W-200916	MW-7 09/16/20 MW-7-W-200916	MW-8 09/16/20 MW-8-W-200916	MW-9 09/16/20 MW-9-W-200916	MW-10 09/16/20 MW-10-W-200916	MW-11 09/16/20 MW-11-W-200916
Detected Volatile Organic Compounds													
m-Xylene & p-Xylene	--	µg/L	R	7.1 J	R	R [R]	130 J [110 J]	R	R	R	R	R	R
1,1,1-Trichloroethane	8,000	µg/L	R	R	R	R [R]	R [R]	R	R	R	R	R	R
1,1-Dichloroethane	28	µg/L	4.7 J	3.9 J	4.1 J	R [R]	R [R]	R	R	R	R	R	R
1,1-Dichloroethene	280	µg/L	R	R	R	R [R]	R [R]	R	R	R	R	R	R
1,2,4-Trimethylbenzene	56	µg/L	R	R	R	R [R]	20 J [18 J]	R	R	R	R	R	R
1,2-Dichlorobenzene	300	µg/L	R	R	R	R [R]	R [R]	R	R	R	R	R	R
1,2-Dichloroethene (cis) (DCE)	36	µg/L	110 J	27 J	5.1 J	R [R]	50 J [37 J]	R	R	R	R	R	R
1,3,5-Trimethylbenzene	60	µg/L	R	R	R	R [R]	15 J [14 J]	R	R	R	R	R	R
1,4-Dichlorobenzene	4.8	µg/L	R	R	R	R [R]	R [R]	R	R	R	R	R	R
2-Phenylbutane	2,000	µg/L	R	R	R	R [R]	R [R]	R	R	R	R	R	R
Cymene	--	µg/L	R	R	R	R [R]	3 J [R]	R	R	R	R	R	R
Ethylbenzene	15	µg/L	R	6.8 J	R	R [R]	89 J [78 J]	R	R	R	R	R	R
Isopropylbenzene (Cumene)	450	µg/L	R	R	R	R [R]	R [R]	R	R	R	R	R	R
Naphthalene	1.7	µg/L	R	R	R	R [R]	R [R]	R	R	R	R	R	R
n-Butylbenzene	1,000	µg/L	R	R	R	R [R]	R [R]	R	R	R	R	R	R
n-Propylbenzene	660	µg/L	R	R	R	R [R]	R [R]	R	R	R	R	R	R
Styrene	1,200	µg/L	R	R	R	R [R]	R [R]	R	R	R	R	R	R
tert-Butylbenzene	690	µg/L	R	R	R	R [R]	R [R]	R	R	R	R	R	R
Tetrachloroethene (PCE)	41	µg/L	24 J	R	R	14 J [14 J]	R [R]	R	10 J	R	R	R	R
Toluene	1,100	µg/L	R	R	R	R [R]	R [R]	R	R	R	R	R	R
Trichloroethene (TCE)	2.8	µg/L	12 J	R	R	4.6 J [4.1 J]	R [R]	R	R	R	R	R	R
Vinyl chloride	0.19	µg/L	R	R	R	R [R]	R [R]	R	R	R	R	R	R
Xylenes (o)	--	µg/L	R	2.2 J	R	R [R]	4.5 J [3.6 J]	R	R	R	R	R	R
Xylenes (total)	190	µg/L	R	9.3 J	R	R [R]	134.5 J [113.6 J]	R	R	R	R	R	R
Detected Gasoline Range Organics													
Gasoline Range Organics (GRO)-C6-C10	2.2	mg/L	R	R	R	R [R]	0.61 J [0.61 J]	R	R	R	R	R	R
Detected Diesel Range Organics													
Diesel Range Organics (DRO nC10-<nC25)	1.5	mg/L	0.72 J	0.26 J	0.26 J	0.35 J [0.42 J]	1.6 J [1.4 J]	0.12 J	R	R	R	R	0.12 J
Detected Field Parameters													
Dissolved oxygen	--	mg/L	0	0	0	0.051	0	0	0	2.86	0	0	0
ORP	--	mV	105	-50	78	257	37	225	51	234	59	69	73
pH	--	SU	5.67	6.16	5.06	4.94	5.68	4.9	5.55	5.27	5.38	5.19	5.12
Specific conductivity	--	mS/cm	0.285	0.507	0.269	0.092	0.299	0.135	0.194	0.086	0.149	0.125	0.198
Temperature	--	°C	11.73	3.99	3.8	9.73	9.09	8.3	3.83	8.46	4.8	3.38	4.75
Turbidity	--	NTU	37.5	0	13.3	45.5	51.5	21.6	1.2	8.6	0.7	18	15.3

Notes:

1. Groundwater cleanup levels are the Alaska Department of Environmental Conservation's Groundwater Cleanup Levels (Article 3 - 18 AAC 75.345), revised October 2018.

Duplicate sample concentrations are presented in brackets.

Exceedances are bolded and shaded.

- = No cleanup level available
- B = Compound was found in the blank and the sample.
- F1 - MS and/or MSD Recovery exceeds the control limits.
- H = sample was prepped or analyzed beyond the specified hold time
- J = estimated value
- U = not detected
- Y = The chromatographic response resembles a typical fuel pattern.
- NA = not analyzed
- Hcn = Sample was prepped or analyzed beyond the specified holding time. Due to the very short holding time of 8 hours, samples could not be analyzed within the hold time.
- * = LCS or LCSD exceeds the control limits
- µg/L = micrograms per liter
- mg/L = milligrams per liter
- CFU/mL = colony forming units per milliliter
- mV = Millivolts
- S.U. = Standard unit
- mS/cm = Millisiemen per centimeter
- °C = Degree Celsius
- NTU = Nephelometric turbidity units

Table 3
 Summary of Historical Groundwater Sample Analytical Results
 Annual Monitoring Report
 Former TBE Machine Shop, Nikiski, AK



Location ID: Date Collected: Sample Name:	Groundwater Cleanup Level	Units	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1		
			06/10/14	09/09/14	12/05/14	03/02/15	05/27/15	09/09/15	12/02/15	03/15/16	06/07/16	09/13/16	03/02/17	09/05/17	03/21/18	08/01/19	09/16/20			
			MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1
			Baseline																	
ART System Operating																	Post-ART Shutdown			
Detected Volatile Organic Compounds																				
m-Xylene & p-Xylene	--	µg/L	2 U [2 U]	2 U* [2 U]	2 U [2 U]	3 U [3 U]	12	160 H	3 U	13	10 [8.9]	530	270	810	20	3 U		R		
1,1,1-Trichloroethane	8,000	µg/L	7.5 [7.5]	5.2 [5.4]	4.1 [4.5]	4.5 [4.2]	3.8	4.2	3 U	5	3 U [3 U]	3.5	3.1	300 U	3.9	3 U		R		
1,1-Dichloroethane	28	µg/L	3.3 [3.5]	6.2 [6.3]	5 [4.3]	4.6 [4.4]	8.1	7.3	2 U	4.8	2.7 [2]	7.8	7.4	13	6.9	4.8		4.7 J		
1,1-Dichloroethene	280	µg/L	1 U [1 U]	1 U [1 U]	1 U* [1 U*]	2 U [2 U]	2 U*	2 U	2 U	1 U	2 U [2 U]	2 U	2 U	4 U	4 U	4 U		R		
1,2,4-Trimethylbenzene	56	µg/L	1 U [1 U]	1 U* [1 U]	1 U [1 U]	3 U [3 U]	9.2	29	3 U	2.6	3 U [3 U]	57	38		3.7	3 U		R		
1,2-Dichlorobenzene	300	µg/L	1 U [1 U]	1 U* [1 U]	1 U [1 U]	2 U [2 U]	2 U	2 U	2 U	1 U	2 U [2 U]	2.1	2 U	2.7	2 U	2 U		R		
1,2-Dichloroethene (cis) (DCE)	36	µg/L	5.3 [5.6]	17 [17]	22 [18]	27 [25]	56	57	1 U	56	35 [30]	130	140	420	180	100		110 J		
1,3,5-Trimethylbenzene	60	µg/L	1 U [1 U]	1 U* [1 U]	1 U [1 U]	3 U [3 U]	3 U	9.5	3 U	1 U	3 U [3 U]	21	11	31	3 U	3 U		R		
1,4-Dichlorobenzene	4.8	µg/L	1 U [1 U]	1 U* [1 U]	1 U [1 U]	2 U [2 U]	2 U	2 U	1 U	1 U	4 U [4 U]	4 U	4 U	4 U	4 U	4 U		R		
2-Phenylbutane	2,000	µg/L	1 U [1 U]	1 U* [1 U]	1 U [1 U]	3 U [3 U]	3 U	3 U	3 U	1 U	3 U [3 U]	3.3	3 U	3 U	3 U	3 U		R		
Cymene	--	µg/L	1 U [1 U]	1 U* [1 U]	1 U [1 U]	3 U [3 U]	3 U	3 U	3 U	1 U	3 U [3 U]	3.4	3 U	4.9	3 U	3 U		R		
Ethylbenzene	15	µg/L	1 U [1 U]	1 U* [1 U]	1 U [1 U]	3 U [3 U]	26	140 H	3 U	14	8.6 [7.1]	360	230	540	15	3 U		R		
Isopropylbenzene (Cumene)	450	µg/L	1 U [1 U]	1 U* [1 U]	1 U [1 U]	2 U [2 U]	4.3	3.9	2 U	1.2	2 U [2 U]	6.4	3.7	7.5	2 U	2 U		R		
Naphthalene	1.7	µg/L	3 U [3 U]	3 U* [3 U]	3 U [3 U]	2 U [2 U]	2 U*	2 U	2 U	1 U	2 U [2 U]	3.8	2 U	4.8	4 U	4 U		R		
n-Butylbenzene	1,000	µg/L	2 U [2 U]	2 U* [2 U]	2 U [2 U]	3 U [3 U]	3 U	3 U	3 U	1 U	3 U [3 U]	8	3 U	11	3 U	3 U		R		
n-Propylbenzene	660	µg/L	1 U [1 U]	1 U* [1 U]	1 U [1 U]	3 U [3 U]	3 U	3 U	3 U	1 U	3 U [3 U]	6.4	3.4	8.7	3 U	3 U		R		
Styrene	1,200	µg/L	5 U [5 U]	5 U* [5 U]	5 U [5 U]	5 U [5 U]	5 U	5 U	5 U	1 U	5 U [5 U]	5 U	5 U	5 U	5 U	5 U		R		
tert-Butylbenzene	690	µg/L	1 U [1 U]	1 U* [1 U]	1 U [1 U]	3 U [3 U]	3 U	3 U	3 U	1 U	3 U [3 U]	3 U	3 U	3 U	3 U	3 U		R		
Tetrachloroethene (PCE)	41	µg/L	34 [31]	38* [41]	58 [57]	59 [51]	71	59	3 U	56	22 [21]	58	50	51	40	30		24 J		
Toluene	1,100	µg/L	1 U [1 U]	1 U* [1 U]	1 U [1 U]	2 U [2 U]	2 U	8.1	2 U	1 U	2 U [2 U]	25	9.7	34	2 U	2 U		R		
Trichloroethene (TCE)	2.8	µg/L	18 [18]	19 [21]	20 [19]	21 [21]	26	27	3 U*	21	9.8 [9.2]	32	22	33	19	14		12 J		
Vinyl chloride	0.19	µg/L	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U [1 U]	1 U	1 U	1 U	1 U	1 U [1 U]	1 U	1 U	1 U	1 U	1 U		R		
Xylenes (o)	--	µg/L	1 U [1 U]	1 U* [1 U]	1 U* [1 U*]	2 U [2 U]	19	72	2 U	6.6	3.5 [2.9]	170	120	260	9.8	2 U		R		
Xylenes (total)	190	µg/L	2 U [2 U]	2 U [2 U]	2 U [2 U]	3 U [3 U]	31	232	3 U	19.6	13.5 [11.8]	700	390	1,070	29.8	3 U		R		
Detected Miscellaneous Compounds																				
Ferrous Iron	--	mg/L	2.8	0.1	0.4	0.6	3.6	3.3	3.1	3	2.4	NA	NA	NA	NA	NA	NA	NA		
Heterotrophic Plate Count	--	CFU/mL	210 Hcn	NA	NA	NA	3,100 H	NA	NA	NA	760 H	NA	NA	NA	NA	NA	NA	NA		
Detected Gasoline Range Organics																				
Gasoline Range Organics (GRO)-C6-C10	2.2	mg/L	0.05 U [0.05 U]	0.05 U [0.05 U]	NA	NA	0.18	NA	NA	NA	0.066 [0.05 U]	NA	1.2	3.6	1 U	0.25 U		R		
Detected Diesel Range Organics																				
Diesel Range Organics (DRO nC10- <i>n</i> C25)	1.5	mg/L	0.38 U [0.39 U]	0.66 Y [0.78 Y]	NA	NA	0.94 Y	NA	NA	NA	0.48 [0.36]	NA	1.2	3.5	0.92*	0.99		0.72 J		
Detected Field Parameters																				
Dissolved oxygen	--	mg/L	0.65	1.09	1.13	0.91	0.96	0.85	0.68	0.38	0.62	3.37	2.03	0.38	1.87	0.21		0		
ORP	--	mV	247.9	143.7	161.7	173.9	113.9	51	-194.7	100.4	9.15	23.2	54.6	-29.2	80.6	130		105		
pH	--	SU	3.77	5.63	5.78	5.66	5.9	6	6.11	6	6.42	6.29	NA	6.25	5.98	5.98		5.67		
Specific conductivity	--	mS/cm	0.205	0.231	0.172	0.177	0.229	0.248	0.378	0.311	0.283	0.386	0.463	0.5	0.223	0.431		0.285		
Temperature	--	°C	5.94	8.07	4.53	4.55	5.97	6.61	5.08	5.69	9.15	9.15	4.33	7.69	2.17	7.63		11.73		
Turbidity	--	NTU	4.39	45.1	1.3	4.8	2.9	5.46	13.9	28.9	66.1	37.6	0	NM	11.65	7.4		37.5		

Notes:
 1. Groundwater cleanup levels are the Alaska Department of Environmental Conservation's Groundwater Cleanup Levels (Article 3 - 18 AAC 75.345), revised October 2018.
 Duplicate sample concentrations are presented in brackets.
Exceedances are bolded and shaded.
 -- = No cleanup level available
 B = Compound was found in the blank and the sample.
 F1 - MS and/or MSD Recovery exceeds the control limits.
 H = sample was prepped or analyzed beyond the specified hold time
 J = estimated value
 U = not detected
 Y = The chromatographic response resembles a typical fuel pattern.
 NA = not analyzed
 Hcn = Sample was prepped or analyzed beyond the specified holding time. Due to the very short holding time of 8 hours, samples could not be analyzed within the hold time.
 * = LCS or LCSD exceeds the control limits
 µg/L = micrograms per liter
 mg/L = milligrams per liter
 CFU/mL = colony forming units per milliliter
 mV = Millivolts
 S.U. = Standard unit
 mS/cm = Millisiemen per centimeter
 °C = Degree Celsius
 NTU = Nephelometric turbidity units

Table 3
 Summary of Historical Groundwater Sample Analytical Results
 Annual Monitoring Report
 Former TBE Machine Shop, Nikiski, AK

Location ID: Date Collected: Sample Name:	Groundwater Cleanup Level	Units	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	
			06/10/14	09/09/14	12/05/14	03/02/15	05/27/15	09/09/15	12/02/15	03/15/16	06/08/16	09/13/16	03/01/17	09/06/17	03/21/18	08/01/19	09/16/20	
			MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2-W-060816	MW-2-W-091316	MW-2	MW-2-W-090617	MW-2	MW-2-W-190801	MW-2-W-200916	
ART System Operating											Post-ART Shutdown							
Detected Volatile Organic Compounds																		
m-Xylene & p-Xylene	--	µg/L	3.6	36 *	230	310	3 U	4.2	3 U [3 U]	760	96	7.2 [7.6]	110	3 U	96	31	7.1 J	
1,1,1-Trichloroethane	8,000	µg/L	1.5	1.6	2	3 U	3 U	3 U	3 U [3 U]	20 U	3 U	3 U [3 U]	3 U	3 UF1*	3 U	3 U	R	
1,1-Dichloroethane	28	µg/L	7.1	6.5	6.1	4.9	4.7	4.4	5.1 [4.9]	20 U	6.2	4.8 [4.8]	5.5	3.9	7	4.6	3.9 J	
1,1-Dichloroethene	280	µg/L	1 U	1 U	1 U*	2 U	2 U*	2 U	2 U [2 U]	20 U	2 U	2 U [2 U]	2 U	4 U	4 U	4 U	R	
1,2,4-Trimethylbenzene	56	µg/L	9.3	39 *	96	84	14	7.1	3 U [3 U]	88	19	3 [3]	22	3 U	17	4.1	R	
1,2-Dichlorobenzene	300	µg/L	1.3	2.8 *	5.6	5.8	2.2	2 U	2 U [2 U]	20 U	2 U	2 U [2 U]	2 U	2 U	2 U	2 U	R	
1,2-Dichloroethene (cis) (DCE)	36	µg/L	84	110	150	170	78	52	25 [25]	430	160	61 [62]	110	30	72	34	27 J	
1,3,5-Trimethylbenzene	60	µg/L	1 U	7 *	20	24	3 U	3 U	3 U [3 U]	25	4.7	3 U [3 U]	6.7	3 U	5.6	3 U	R	
1,4-Dichlorobenzene	4.8	µg/L	1 U	1 U*	1 U	2	2 U	2 U	2 U [2 U]	20 U	4 U	4 U [4 U]	4 U	4 U	4 U	4 U	R	
2-Phenylbutane	2,000	µg/L	1.1	1 U*	1 U	4.7	3 U	3 U	3 U [3 U]	20 U	3 U	3 U [3 U]	3 U	3 U	3 U	3 U	R	
Cymene	--	µg/L	1 U	1 U*	2.4	3.1	3 U	3 U	3 U [3 U]	20 U	3 U	3 U [3 U]	3 U	3 U	3 U	3 U	R	
Ethylbenzene	15	µg/L	10	92 *	350	420	18	6.2	3 U [3 U]	590	95	8.6 [9.1]	91	3 U	83	23	6.8 J	
Isopropylbenzene (Cumene)	450	µg/L	2.8	5.9 *	9.9	9.3	4.9	3.8	2 U [2 U]	20 U	2.4	2 U [2 U]	2.3	2 U	2 U	2 U	R	
Naphthalene	1.7	µg/L	3 U	3 *	6.6	6	2 U*	2 U	2 U [2 U]	20 U	2 U	2 U [2 U]	2 U	4 U	4 U	4 U	R	
n-Butylbenzene	1,000	µg/L	2 U	3.7 *	2 U	3 U	3 U	3 U	3 U [3 U]	20 U	3 U	3 U [3 U]	3 U	3 U	3 U	3 U	R	
n-Propylbenzene	660	µg/L	1 U	2.1 *	7	6.7	3 U	3 U	3 U [3 U]	20 U	3 U	3 U [3 U]	3 U	3 U	3 U	3 U	R	
Styrene	1,200	µg/L	5 U	5 U*	5 U	5 U	5 U	5 U	5 U [5 U]	20 U	5 U	5 U [5 U]	5 U	5 U	5 U	5 U	R	
tert-Butylbenzene	690	µg/L	1 U	1 U*	1.1	3 U	3 U	3 U	3 U [3 U]	20 U	3 U	3 U [3 U]	3 U	3 U	3 U	3 U	R	
Tetrachloroethene (PCE)	41	µg/L	6.6	5.7 *	15	3 U	3 U	3 U	3 U [3 U]	20 U	3 U	3 U [3 U]	3 U	3 U	3 U	3 U	R	
Toluene	1,100	µg/L	1 U	1 U*	11	9.3	2 U	2 U	2 U [2 U]	20 U	2	2 U [2 U]	2.3	2 U	2 U	2 U	R	
Trichloroethene (TCE)	2.8	µg/L	12	8.4	14	3 U	3 U	3 U	3 U [3 U]	20 U	3 U	3 U [3 U]	3 U	3 U	3 U	3 U	R	
Vinyl chloride	0.19	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U [1 U]	20 U	1 U	1 U [1 U]	1 U	1 U	1 U	1 U	R	
Xylenes (o)	--	µg/L	90	150 *	380	370	31	9.3	2 U [2 U]	410	70	5.6 [5.8]	65	2 U	30	14	2.2 J	
Xylenes (total)	190	µg/L	93.6	186	610	680	31	13.5	3 U [3 U]	1,170	166	12.8 [13.4]	175	3 U	126	45	9.3 J	
Detected Miscellaneous Compounds																		
Ferrous Iron	--	mg/L	3.2	1.8	2.8	2	5.8	5.5	5.5	4.5	4.6	NA	NA	NA	NA	NA	NA	
Heterotrophic Plate Count	--	CFU/mL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Detected Gasoline Range Organics																		
Gasoline Range Organics (GRO)-C6-C10	2.2	mg/L	0.3	0.56	NA	NA	0.18	NA	NA	NA	0.58	NA	0.65	1 U	1 U	0.25 U	R	
Detected Diesel Range Organics																		
Diesel Range Organics (DRO nC10-nC25)	1.5	mg/L	1.3	0.8 Y	NA	NA	0.58 Y	NA	NA	NA	0.53	NA	0.47	0.89 F1	0.33 *	0.36	0.26 J	
Detected Field Parameters																		
Dissolved oxygen	--	mg/L	3.31	0.63	0.99	0.58	1.69	0.74	0.54	0.54	0.88	4.82	1.15	0.73	0.95	0.1	0	
ORP	--	mV	30.3	4.4	73.8	74.3	87.2	-18.5	-125.6	15.2	29.6	52.6	61.9	-14.9	-58.2	-25	-50	
pH	--	SU	6.43	6.25	6.31	6.19	6.13	6.14	6.02	6.23	7.13	6.07	NA	6.04	6.02	6.16	6.16	
Specific conductivity	--	mS/cm	0.549	0.449	0.391	0.373	0.381	0.361	0.52	0.61	0.529	0.475	0.628	0.484	0.293	0.601	0.507	
Temperature	--	°C	5.88	8.81	4.58	4.65	6.27	6.27	4.24	5.66	14.32	9.42	3.85	7.53	2.44	7.13	3.99	
Turbidity	--	NTU	6.43	6.5	26.2	4.2	4.8	4.93	15.5	5.7	9.47	12	45.7	NM	12.11	9.6	0	

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			06/10/14	05/27/15	06/08/16	03/02/17	03/21/18	08/01/19	09/16/20	06/10/14	09/09/14	12/05/14	03/02/15	05/27/15	09/08/15	12/02/15	12/02/15	03/15/16	06/07/16		
			MW-3	MW-3	MW-3-W-060816	MW-3	MW-3	MW-3-W-190801	MW-3-W-200916	Baseline	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4-RA	MW-4	MW-4-W-060716		
			ART System Operating				Post-ART Shutdown				ART System Operating										
Detected Volatile Organic Compounds																					
m-Xylene & p-Xylene	--	µg/L	2 U	3 U	3 U	3 U [3 U]	3 U	3 U	R	2 U	2 U	2 U	3 U	3 U [3 U]	3 U	130	3 UH	1 U	3 U		
1,1,1-Trichloroethane	8,000	µg/L	2.6	3 U	3 U	3 U [3 U]	3 U	3 U	R	2.9	5.7	3.4	3.2	3.9 [4]	3.8	4.8	4.1 H	3.6	3		
1,1-Dichloroethane	28	µg/L	3.2	3.9	6.1	5.4 [5.6]	5.2	3.9	4.1 J	1 U	1 U	1 U	2 U	2 U [2 U]	2 U	11	2 UH	1 U	2 U		
1,1-Dichloroethene	280	µg/L	1 U	2 U*	2 U*F1	2 U [2 U]	4 U	4 U	R	1 U	1 U	1 U*	2 U	2 U* [2 U*]	2 U	2 U	2 UH	1 U	2 U		
1,2,4-Trimethylbenzene	56	µg/L	1 U	3 U	3 U	3 U [3 U]	3 U	3 U	R	1 U	1 U*	1 U	3 U	3 U [3 U]	3 U	24	3 UH	1 U	3 U		
1,2-Dichlorobenzene	300	µg/L	1 U	2 U	2 U	2 U [2 U]	2 U	2 U	R	1 U	1 U*	1 U	2 U	2 U [2 U]	2 U	2 U	2 UH	1 U	2 U		
1,2-Dichloroethene (DCE)	36	µg/L	2	3	4.6 F1	4.9 [4.5]	5.3	5.2	5.1 J	1 U	1 U*	1 U	1 U	1 U [1 U]	1 U	88	1 UH	1 U	1 U		
1,3,5-Trimethylbenzene	60	µg/L	1 U	3 U	3 U	3 U [3 U]	3 U	3 U	R	1 U	1 U*	1 U	3 U	3 U [3 U]	3 U	6.7	3 UH	1 U	3 U		
1,4-Dichlorobenzene	4.8	µg/L	1 U	2 U	4 U	4 U [4 U]	4 U	4 U	R	1 U	1 U*	1 U	2 U	2 U [2 U]	2 U	2 U	2 UH	1 U	4 U		
2-Phenylbutane	2,000	µg/L	1 U	3 U	3 U	3 U [3 U]	3 U	3 U	R	1 U	1 U*	1 U	3 U	3 U [3 U]	3 U	3 U	3 UH	1 U	3 U		
Oxylene	--	µg/L	1 U	3 U	3 U*	3 U [3 U]	3 U	3 U	R	1 U	1 U*	1 U	3 U	3 U [3 U]	3 U	3 U	3 UH	1 U	3 U		
Ethylbenzene	15	µg/L	1 U	3 U	3 U	3 U [3 U]	3 U	3 U	R	1 U	1 U	1 U	3 U	3 U [3 U]	3 U	130	3 UH	1 U	3 U		
Isopropylbenzene (Cumene)	450	µg/L	1 U	2 U	2 U	2 U [2 U]	2 U	2 U	R	1 U	1 U	1 U	2 U	2 U [2 U]	2 U	3.6	2 UH	1 U	2 U		
Naphthalene	1.7	µg/L	3 U	2 U*	2 U	2 U [2 U]	4 U	4 U	R	3 U	3 U*	3 U	2 U	2 U* [2 U*]	2 U	2 U	2 UH	1 U	2 U		
n-Butylbenzene	1,000	µg/L	2 U	3 U	3 U	3 U [3 U]	3 U	3 U	R	2 U	2 U*	2 U	3 U	3 U [3 U]	3 U	3 U	3 UH	1 U	3 U		
n-Propylbenzene	660	µg/L	1 U	3 U	3 U	3 U [3 U]	3 U	3 U	R	1 U	1 U*	1 U	3 U	3 U [3 U]	3 U	3 U	3 UH	1 U	3 U		
Styrene	1,200	µg/L	5 U	5 U	5 U	5 U [5 U]	5 U	5 U	R	5 U	5 U	5 U	5 U	5 U [5 U]	5 U	5 U	5 UH	1 U	5 U		
tert-Butylbenzene	690	µg/L	1 U	3 U	3 U	3 U [3 U]	3 U	3 U	R	1 U	1 U*	1 U	3 U	3 U [3 U]	3 U	3 U	3 UH	1 U	3 U		
Tetrachloroethene (PCE)	41	µg/L	2.4	3 U	3 U	3 U [3 U]	3 U	3 U	R	11	14	14	13	16 [16]	14	52	15 H	14	14		
Toluene	1,100	µg/L	1 U	2 U	2 U	2 U [2 U]	2 U	2 U	R	1 U	1 U	1 U	2 U	2 U [2 U]	2 U	8.2	2 UH	1 U	2 U		
Trichloroethene (TCE)	2.8	µg/L	1.2	3 U	3 U	3 U [3 U]	3 U	3 U	R	3.2	4.9	3.4	3.3	4.5 [4.3]	3.7	4.6 H	NA	3.5	3.9		
Vinyl chloride	0.19	µg/L	1 U	1 U	1 UF1	1 U [1 U]	1 U	1 U	R	1 U	1 U	1 U	1 U	1 U [1 U]	1 U	1 U	NA	1 U	1 U		
Xylenes (o)	--	µg/L	1 U	2 U	2 U	2 U [2 U]	2 U	2 U	R	1 U	1 U	1 U*	2 U	2 U [2 U]	2 U	2 U	2 UH	1 U	2 U		
Xylenes (total)	190	µg/L	2 U	3 U	3 U	3 U [3 U]	3 U	3 U	R	2 U	2 U	2 U*	3 U	3 U [3 U]	3 U	76	3 U	1 U	3 U		
Detected Miscellaneous Compounds																					
Ferrous Iron	--	mg/L	0.6	0.2	0.2	NA	NA	NA	NA	NA	0.6	0	0	0	0.2	0.2	0	NA	0	0	
Heterotrophic Plate Count	--	CFU/mL	NA	NA	NA	NA	NA	NA	NA	NA	110 Hcn	NA	NA	NA	130 H	NA	NA	NA	NA	3,700 H	
Detected Gasoline Range Organics																					
Gasoline Range Organics (GRO)-C6-C10	2.2	mg/L	0.05 U	0.05 U	0.05 U	0.05 U [0.05 U]	1 U	0.25 U	R	0.05 U	0.05 U	NA	NA	0.05 U [0.05 U]	NA	NA	NA	NA	0.05 U		
Detected Diesel Range Organics																					
Diesel Range Organics (DRO) nC10-nC25	1.5	mg/L	0.39 U	0.37 Y	0.29	0.3 [0.28]	0.19 *	0.39	0.26 J	0.38 U	0.23 Y	NA	NA	0.33 Y [0.37 Y]	NA	NA	NA	NA	0.57		
Detected Field Parameters																					
Dissolved oxygen	--	mg/L	1.09	0.52	0.68	3.15	0.91	0	0	2.54	1.42	3.52	2.83	1.39	2.89	3.02	NA	3.9	3		
ORP	--	mV	184.9	150.9	-59.1	103.1	162.1	188	78	214	155.5	198.5	119.2	203	231	-108.6	NA	168.7	72.15		
pH	--	SU	5.33	5.37	5.66	NA	5.39	5.38	5.06	5.55	5.51	4.18	5.48	5.25	5.38	5.61	NA	5.6	5.46		
Specific conductivity	--	mS/cm	0.098	0.111	0.175	0.315	0.189	0.291	0.269	0.085	0.119	0.082	0.067	0.104	0.104	0.134	NA	0.112	0.144		
Temperature	--	°C	5.85	5.84	6.12	3.51	2.36	6.61	3.8	5.89	7.54	4.17	4.33	6.17	6.1	4.56	NA	4.97	7.69		
Turbidity	--	NTU	4.87	15.9	102	0.01	55.32	11.9	13.3	30.9	28.5	104.7	47.1	32.2	9.95	45.2	NA	21.2	95.1		

Notes:
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 -- = No cleanup level available
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 NA = not analyzed
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 * = LCS or LCSO exceeds the control limits
 µg/L = micrograms per liter
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 mV = Millivolts
 S.U. = Standard unit
 mS/cm = Millisiemens per centimeter
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 Former TBE Machine Shop, Nikiski, AK



Location ID: Date Collected: Sample Name:	Groundwater Cleanup Level	Units	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	
			09/13/16 MW-4-W-091316	03/01/17 MW-4	09/05/17 MW-4-W-090517	03/20/18 MW-4	08/01/19 MW-4-W-190801	09/16/20 MW-4-W-200916	06/10/14 MW-5	09/09/14 MW-5	12/05/14 MW-5	03/02/15 MW-5	05/27/15 MW-5	09/09/15 MW-5	12/01/15 MW-5	03/15/16 MW-5	06/08/16 MW-5-W-060816		
Post-ART Shutdown										ART System Operating									
Baseline										ART System Operating									
Detected Volatile Organic Compounds																			
m-Xylene & p-Xylene	--	µg/L	3 U	3 U [3 U]	3 U [3 U]	3 U	3 U [3 U]	R [R]		250	320	390	250 F1	330 H	310 H [310 H]	340 [310]	230 [240]	230 [230]	
1,1,1-Trichloroethane	8,000	µg/L	3	3 U [3 U]	3.3 [3.4]	3.3	3 U [3 U]	R [R]		1.7	1 U	1 U*	3 U	3 U	3 U [3 U]	3 U [3 U]	5 U [5 U]	3 U [3 U]	
1,1-Dichloroethane	28	µg/L	2 U	2 U [2 U]	2 U [2 U]	2 U	2 U [2 U]	R [R]		1 U	1 U	1 U	2 U	2 U	2 U [2 U]	2 U [2 U]	5 U [5 U]	2 U [2 U]	
1,1-Dichloroethene	280	µg/L	2 U	2 U [2 U]	4 U [4 U]	4 U	4 U [4 U]	R [R]		1.8	1 U	1 U*	2 U	2 U*	2 U [2 U]	2 U [2 U]	5 U [5 U]	2 U [2 U]	
1,2,4-Trimethylbenzene	56	µg/L	3 U	3 U [3 U]	3 U [3 U]	3 U	3 U [3 U]	R [R]		6.7	28	35	32 F1	55	24 [22]	21 [24]	16 [16]	11 [12]	
1,2-Dichlorobenzene	300	µg/L	2 U	2 U [2 U]	2 U [2 U]	2 U	2 U [2 U]	R [R]		2.7	2.3	2.3	2 U	3.4	2 [2 U]	2 U [2 U]	5 U [5 U]	2 U [2 U]	
1,2-Dichloroethene (cis) (DCE)	60	µg/L	1 U*	1 U [1 U]	1 U [1 U]	3 U	3 U [3 U]	R [R]		370	88	140	520 F1	520 H	430 H [440 H]	120 [120]	120 [120]	230 [240]	
1,3,5-Trimethylbenzene	60	µg/L	3 U	3 U [3 U]	3 U [3 U]	3 U	3 U [3 U]	R [R]		15	17	23	22 F1	29	18 [17]	15 [17]	13 [13]	9.4 [9.8]	
1,4-Dichlorobenzene	4.8	µg/L	4 U	4 U [4 U]	4 U [4 U]	4 U	4 U [4 U]	R [R]		10	1 U	1 U	5 F1	6.6	7.5 [7]	5.2 [2 U]	5 U [5 U]	4 U [4 U]	
2-Phenylbutane	2,000	µg/L	3 U	3 U [3 U]	3 U [3 U]	3 U	3 U [3 U]	R [R]		1 U	1 U	3 U	3 U	3 U [3 U]	3 U [3 U]	5 U [5 U]	3 U [3 U]	3 U [3 U]	
Cymene	---	µg/L	3 U	3 U [3 U]	3 U [3 U]	3 U	3 U [3 U]	R [R]		1 U	1.5	1.7	3 U	3.3	3 U [3 U]	3 U [3 U]	5 U [5 U]	3 U [3 U]	
Ethylbenzene	15	µg/L	3 U	3 U [3 U]	3 U [3 U]	3 U	3 U [3 U]	R [R]		200	230	280	180 F1	310 H	220 H [220 H]	250 [220]	150 [160]	170 [170]	
Isopropylbenzene (Cumene)	450	µg/L	2 U	2 U [2 U]	2 U [2 U]	2 U	2 U [2 U]	R [R]		1 U	1.3	1.5	2 U	2 U	2 U [2 U]	2 U [2 U]	5 U [5 U]	2 U [2 U]	
Naphthalene	1.7	µg/L	2 U	2 U [2 U]	4 U [4 U]	4 U	4 U [4 U]	R [R]		3.1	4.2	3.4	2 U	5.8 H	2.4 [2.3]	2 [2.4]	5 U [5 U]	2 U [2 U]	
n-Butylbenzene	1,000	µg/L	3 U	3 U [3 U]	3 U [3 U]	3 U	3 U [3 U]	R [R]		2	10	2 U	3 U	3 U	12 [11]	9.1 [9.8]	5 U [5 U]	8.3 [8.2]	
n-Propylbenzene	660	µg/L	3 U	3 U [3 U]	3 U [3 U]	3 U	3 U [3 U]	R [R]		1 U	1.5	1.8	3 U	3 U	3 U [3 U]	3 U [3 U]	5 U [5 U]	3 U [3 U]	
Styrene	1,200	µg/L	5 U	5 U [5 U]	5 U [5 U]	5 U	5 U [5 U]	R [R]		5 U	5 U	5 U	5 U	5 U	5 U [5 U]	5 U [5 U]	5 U [5 U]	5 U [5 U]	
tert-Butylbenzene	690	µg/L	3 U	3 U [3 U]	3 U [3 U]	3 U	3 U [3 U]	R [R]		1.2	1 U	1.1	3 U	3 U	3 U [3 U]	3 U [3 U]	5 U [5 U]	3 U [3 U]	
Tetrachloroethene (PCE)	41	µg/L	13	12 [12]	14 [12]	14	14 [14]	14 J [14 J]		98	59	50	3	3 U	3 U [3 U]	6.7 [6.4]	5 U [5 U]	3 U [3 U]	
Toluene	1,100	µg/L	2 U	2 U [2 U]	2 U [2 U]	2 U	2 U [2 U]	R [R]		4.2	5.6	1.5	2 U	7	3.5 [3.4]	2 U [2 U]	5 U [5 U]	2 U [2 U]	
Trichloroethene (TCE)	2.8	µg/L	4.2	3.5 [3.6]	4.9 [4.5]	4.6	4.2 [4.4]	4.6 J [4.1 J]		20	23	16	3 UF1	3 U	3 U [3 U]	3.1 [3.2]	5 U [5 U]	3 U [3 U]	
Vinyl chloride	0.19	µg/L	1 U	1 U [1 U]	1 U [1 U]	1 U	1 U [1 U]	R [R]		1 U	1 U	1 U	1 U	1 U	1 U [1 U]	1.7 [1.5]	5 U [5 U]	1 U [1 U]	
Xylenes (o)	--	µg/L	2 U	2 U [2 U]	2 U	2 U	2 U [2 U]	R [R]		160	120	120	99 F1	290 H	140 H [140 H]	120 [130]	82 [85]	86 [89]	
Xylenes (total)	190	µg/L	3 U	3 U [3 U]	3 U [3 U]	3 U	3 U [3 U]	R [R]		410	440	510	349	620	450 [450]	460 [440]	312 [325]	316 [319]	
Detected Miscellaneous Compounds																			
Ferrous Iron	--	mg/L	NA	NA	NA	NA	NA	NA	NA	2.2	4.2	2.4	2.2	4	4.2	5	3.8	3	
Heterotrophic Plate Count	--	CFU/mL	NA	NA	NA	NA	NA	NA	NA	790 Hcn	NA	NA	NA	130 H	NA	NA	NA	620 H	
Detected Gasoline Range Organics																			
Gasoline Range Organics (GRO)-C6-C10	2.2	mg/L	NA	0.05 U [0.05 U]	1 U [1 U]	1 U	0.25 U [0.25 U]	R [R]		1.7	1.8 B	1.4	1.3	2.9	2.1 [2]	1.6 [1.7]	1.2 [1.2]	1.2 [1.2]	
Detected Diesel Range Organics																			
Diesel Range Organics (DRO nC10- α nC25)	1.5	mg/L	NA	0.44 [0.5]	0.33 [0.34]	0.27 *	0.31 [0.37]	0.35 J [0.42 J]		1.6	1.2 Y	1.1 Y	0.69 Y	1.2 Y	1.1 Y [1.2 Y]	0.87 [0.89]	1 [1.2]	0.92 [0.85]	
Detected Field Parameters																			
Dissolved oxygen	--	mg/L	4.25	4.3	1.42	5.12	3.28	0.051	0.51	0.54	1.61	0.62	0.67	0.44	0.89	0.49	0.46	0.46	
ORP	--	mV	91.6	101.9	194.8	220.7	205	257	-95.2	-1.3	19.5	58.7	32.7	-32.6	-231.2	-40.6	-100.9	-100.9	
pH	--	SU	5.55	NA	5.26	5.52	5.55	4.94	5.52	5.97	6.04	5.98	6.01	6.12	6.28	6.07	7.29	7.29	
Specific conductivity	--	mS/cm	0.177	0.146	0.191	0.06	0.145	0.092	0.18	0.157	0.122	0.132	0.115	0.149	0.209	0.259	0.225	0.225	
Temperature	--	°C	8.42	3.52	7.68	2.81	7.31	9.73	6.37	10.02	8.25	8.51	10.73	10.52	8.63	10.62	13.25	13.25	
Turbidity	--	NTU	214	149	NM	90.1	16.4	45.5	31.9	43.1	4.7	3.1	0.9	6.82	10.9	29.5	7.91	7.91	

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Location ID: Date Collected: Sample Name:	Groundwater Cleanup Level	Units	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6		
			09/13/16 MW-5-W-091316	03/01/17 MW-5	09/06/17 MW-5-W-090617	03/21/18 MW-5	08/01/19 MW-5-W-190801	09/16/20 MW-5-W-200916	06/10/14 MW-6	05/27/15 MW-6	06/08/16 MW-6-W-060816	03/01/17 MW-6	03/21/18 MW-6	08/01/19 MW-6-W-190801	09/16/20 MW-6-W-200916		
			Post-ART Shutdown						Baseline			ART System Operating			Post-ART Shutdown		
Detected Volatile Organic Compounds																	
m-Xylene & p-Xylene	--	µg/L	330	240	310 [310]	350 [390]	340	130 J [110 J]	2 U	3 U	3 U	3 U	3 U	3 U	R		
1,1,1-Trichloroethane	8,000	µg/L	3 U	3 U	3 U* [3 U*]	3 U [3 U]	3 U	R [R]	1 U	3 U	3 U	3 U	3 U	3 U	R		
1,1-Dichloroethane	28	µg/L	2 U	2 U	200 U [200 U]	2 U [2 U]	2 U	R [R]	1 U	2 U	2 U	2 U	2 U	2 U	R		
1,1-Dichloroethene	280	µg/L	2 UF1	2 U	4 U [4 U]	4 U [4 U]	4 U	R [R]	1 U	2 U*	2 U	2 U	4 U	4 U	R		
1,2,4-Trimethylbenzene	56	µg/L	20 F1	15	300 U [300 U]	32 [29]	19	20 J [18 J]	1 U	3 U	3 U	3 U	3 U	3 U	R		
1,2-Dichlorobenzene	300	µg/L	2 U	2 U	2 U [2 U]	2 U [2 U*]	2 U	R [R]	1 U	2 U	2 U	2 U	2 U	2 U	R		
1,2-Dichloroethene (cis) (DCE)	36	µg/L	500	290	220 [210]	150 [170]	46	50 J [37 J]	1 U	1 U	1 U	1 U	3 U	3 U	R		
1,3,5-Trimethylbenzene	60	µg/L	14 F1	12	300 U [300 U]	17 [17*]	13	15 J [14 J]	1 U	3 U	3 U	3 U	3 U	3 U	R		
1,4-Dichlorobenzene	4.8	µg/L	4.2	4 U	400 U [400 U]	4.4 [4.5]	4 U	R [R]	1 U	2 U	4 U	4 U	4 U	4 U	R		
2-Phenylbutane	2,000	µg/L	3 U	3 U	3 U [3 U]	3 U [3 U]	3 U	R [R]	1 U	3 U	3 U	3 U	3 U	3 U	R		
Cymene	--	µg/L	3 U	3 U	3 U [3 U]	3.4 [3.2*]	3 U	3 J [R]	1 U	3 U	3 U	3 U	3 U	3 U	R		
Ethylbenzene	15	µg/L	240	180	300 U [300 U]	240 [270]	220	89 J [78 J]	1 U	3 U	3 U	3 U	3 U	3 U	R		
Isopropylbenzene (Cumene)	450	µg/L	2 U	2 U	2 U [2 U]	2 U [2 U]	2 U	R [R]	1 U	2 U	2 U	2 U	2 U	2 U	R		
Naphthalene	1.7	µg/L	3.2	2 U	4 U [4 U]	4 U [4 U*]	4 U	R [R]	3 U	2 U*	2 U	2 U	4 U	4 U	R		
n-Butylbenzene	1,000	µg/L	10	3 U	300 U [300 U]	3 U [3 U]	3 U	R [R]	2 U	3 U	3 U	3 U	3 U	3 U	R		
n-Propylbenzene	660	µg/L	3 U	3 U	3 U [3 U]	3 U [3 U*]	3 U	R [R]	1 U	3 U	3 U	3 U	3 U	3 U	R		
Styrene	1,200	µg/L	5 U	5 U	5 U [5 U]	5 U [5 U]	340	R [R]	5 U	5 U	5 U	5 U	5 U	5 U	R		
tert-Butylbenzene	690	µg/L	3 U	3 U	3 U [3 U]	3 U [3 U*]	3 U	R [R]	1 U	3 U	3 U	3 U	3 U	3 U	R		
Tetrachloroethene (PCE)	41	µg/L	3 U	3 U	3 U [3 U]	3 U [3 U]	3 U	R [R]	1 U	3 U	3 U	3 U	3 U	3 U	R		
Toluene	1,100	µg/L	3.1	2 U	200 U [200 U]	2 U [2 U*]	2 U	R [R]	1 U	2 U	2 U	2 U	2 U	2 U	R		
Trichloroethene (TCE)	2.8	µg/L	3 U	3 U	3 U [3 U]	3 U [3 U]	3 U	R [R]	1 U	3 U	3 U	3 U	3 U	3 U	R		
Vinyl chloride	0.19	µg/L	1 U	1 U	1 U [1 U]	1 U [1 U]	1 U	R [R]	1 U	1 U	1 U	1 U	1 U	1 U	R		
Xylenes (o)	--	µg/L	160	100	200 U [200 U]	84 [88]	12	4.5 J [3.6 J]	1 U	2 U	2 U	2 U	2 U	2 U	R		
Xylenes (total)	190	µg/L	490	340	310 [310]	434 [478]	352	134.5 J [113.6 J]	2 U	3 U	3 U	3 U	3 U	3 U	R		
Detected Miscellaneous Compounds																	
Ferrous Iron	--	mg/L	NA	NA	NA	NA	NA	NA	0.2	0.6	3.2	NA	NA	NA	NA		
Heterotrophic Plate Count	--	CFU/mL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Detected Gasoline Range Organics																	
Gasoline Range Organics (GRO)-C6-C10	2.2	mg/L	1.7	1.4	1.7 [1.7]	1.7 [1.7]	1.5	0.61 J [0.61 J]	0.05 U	0.05 U	0.05 U	0.05 U	1 U	0.25 U	R		
Detected Diesel Range Organics																	
Diesel Range Organics (DRO) nC10- <i>n</i> C25	1.5	mg/L	1.3	0.96	1.4 [1.4]	0.65* [0.35*]	1.6	1.6 J [1.4 J]	0.38 U	0.21 Y	0.15	0.2	0.13 U*	0.12	0.12 J		
Detected Field Parameters																	
Dissolved oxygen	--	mg/L	5.81	1.31	0.71	2.19	0	0	1.75	3.31	0.81	1.95	1.91	0	0		
ORP	--	mV	52.1	6.32	-40.2	6.9	13	37	217.9	163	-40.3	81.5	176.5	131	225		
pH	--	S.U.	6.13	NA	6.07	5.99	6.07	5.68	5.28	5.28	6.98	NA	5.55	5.6	4.9		
Specific conductivity	--	mS/cm	0.29	0.36	0.432	0.178	0.348	0.299	0.126	0.115	0.137	0.217	0.102	0.196	0.135		
Temperature	--	°C	9.71	3.27	7.6	2.61	7.42	9.09	5.47	6.27	14.1	3.3	1.4	7.11	8.3		
Turbidity	--	NTU	29.6	95.2	NM	14.07	24.8	51.5	177	149.3	229	3.2	12.21	60.1	21.6		

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 Annual Monitoring Report
 Former TBE Machine Shop, Nikiski, AK



Location ID: Date Collected: Sample Name:	Groundwater Cleanup Level	Units	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7		
			06/11/14	09/10/14	12/05/14	03/02/15	05/27/15	09/09/15	12/01/15	03/15/16	06/08/16	09/13/16	03/01/17	09/05/17	03/20/18	09/01/19	09/16/20			
			MW-7 Baseline	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7-W-060816	MW-7-W-091316	MW-7	MW-7-W-090517	MW-7-W-190801	MW-7-W-200916				
ART System Operating											Post-ART Shutdown									
Detected Volatile Organic Compounds																				
m-Xylene & p-Xylene	--	µg/L	2 U	2 U	2 U	3 U	3 U	3 U	3 U	1 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	R		
1,1,1-Trichloroethane	8,000	µg/L	2.4	1 U	1 U*	3 U	3 U	3 U	3 U	1 U	3 U	3 U	3 U	3 U*	3 U	3 U	3 U	R		
1,1-Dichloroethane	28	µg/L	1 U	1 U	1 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	R		
1,1-Dichloroethene	280	µg/L	1 U	1 U	1 U*	2 U	2 U*	2 U	2 U	1 U	2 U	2 U	2 U	4 U	4 U	4 U	4 U	R		
1,2,4-Trimethylbenzene	56	µg/L	1 U	1 U	1 U	3 U	3 U	3 U	3 U	1 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	R		
1,2-Dichlorobenzene	300	µg/L	1 U	1 U	1 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	R		
1,2-Dichloroethene (cis) (DCE)	36	µg/L	1 U	1 U	3.6	2.7	1.5	1	1 U	1.2	1.5	1 U	1 U	1 U	1 U	3 U	3 U	R		
1,3,5-Trimethylbenzene	60	µg/L	1 U	1 U	1 U	3 U	3 U	3 U	3 U	1 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	R		
1,4-Dichlorobenzene	4.8	µg/L	1 U	1 U	1 U	2 U	2 U	2 U	2 U	1 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	R		
2-Phenylbutane	2,000	µg/L	1 U	1 U	1 U	3 U	3 U	3 U	3 U	1 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	R		
Cymene	--	µg/L	1 U	1 U	1 U	3 U	3 U	3 U	3 U	1 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	R		
Ethylbenzene	15	µg/L	1 U	1 U	1 U	3 U	3 U	3 U	3 U	1 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	R		
Isopropylbenzene (Cumene)	450	µg/L	1 U	1 U	1 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	R		
Naphthalene	1.7	µg/L	3 U	3 U	3 U	2 U	2 U*	2 U	2 U	1 U	2 U	2 U	2 U	4 U	4 U	4 U	4 U	R		
n-Butylbenzene	1,000	µg/L	2 U	2 U	2 U	3 U	3 U	3 U	3 U	1 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	R		
n-Propylbenzene	660	µg/L	1 U	1 U	1 U	3 U	3 U	3 U	3 U	1 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	R		
Styrene	1,200	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	R		
tert-Butylbenzene	690	µg/L	1 U	1 U	1 U	3 U	3 U	3 U	3 U	1 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	R		
Tetrachloroethene (PCE)	41	µg/L	24	17	21	18	25	24	23	24	18	13	14	17	12	12	12	10 J		
Toluene	1,100	µg/L	1 U	1 U	1 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	R		
Trichloroethene (TCE)	2.8	µg/L	1.7	2.8	2.1	3 U	3 U	3 U	3.1	2.3	3 U	3 U	3 U	3 U	3 U	3 U	3 U	R		
Vinyl chloride	0.19	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	R		
Xylenes (o)	--	µg/L	1 U	1 U	1 U*	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	R		
Xylenes (total)	190	µg/L	2 U	2 U	2 U	3 U	3 U	3 U	3 U	1 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	R		
Detected Miscellaneous Compounds																				
Ferrous Iron	--	mg/L	0.4	1.2	0	0.2	0.2	0.2	0	0	0	NA	NA	NA	NA	NA	NA	NA		
Heterotrophic Plate Count	--	CFU/mL	18 Hcn	NA	NA	NA	7.5 H	NA	NA	NA	93 H	NA	NA	NA	NA	NA	NA	NA		
Detected Gasoline Range Organics																				
Gasoline Range Organics (GRO)-C6-C10	2.2	mg/L	0.05 U	0.05 U	NA	NA	0.05 U	NA	NA	NA	0.05 U	NA	0.05 U	1 U	1 U	0.25 U		R		
Detected Diesel Range Organics																				
Diesel Range Organics (DRO nC10- <i>n</i> C25)	1.5	mg/L	0.39 U	0.15 Y	NA	NA	0.2 U	NA	NA	NA	0.1 U	NA	0.1 UF1	0.11 U	0.12 U*	0.11 U		R		
Detected Field Parameters																				
Dissolved oxygen	--	mg/L	3.67	7.16	3.69	3.59	1.82	1.02	2.3	1.9	2.5	8.38	4.13	1.01	0.98	0.5		0		
ORP	--	mV	212.1	82.9	184.7	119.2	102.4	150.1	-165.3	-150.1	-86.2	161.6	105.9	155	194	153		51		
pH	--	SU	4.8	5.97	5.93	5.92	5.5	6.02	6.02	6.1	6.95	4.76	NA	5.7	5.87	6		5.55		
Specific conductivity	--	mS/cm	0.124	0.099	0.084	0.078	0.12	0.137	0.207	0.161	0.138	0.211	0.242	0.212	0.096	0.233		0.194		
Temperature	--	°C	5.69	9.24	5.87	8.13	1.1	9.29	7.43	5.91	13.42	8.45	2.99	7.19	2.53	8.07		3.83		
Turbidity	--	NTU	36	23	26.7	13.6	0	10.1	158.2	181.2	196	67.7	159	NM	5.2	1		1.2		

Notes:
 1. Groundwater cleanup levels are the Alaska Department of Environmental Conservation's Groundwater Cleanup Levels (Article 3 - 18 AAC 75.345), revised October 2018.
 Duplicate sample concentrations are presented in brackets.
Exceedances are bolded and shaded.
 -- = No cleanup level available
 B = Compound was found in the blank and the sample.
 F1 - MS and/or MSD Recovery exceeds the control limits.
 H = sample was prepped or analyzed beyond the specified hold time
 J = estimated value
 U = not detected
 Y = The chromatographic response resembles a typical fuel pattern.
 NA = not analyzed
 Hcn = Sample was prepped or analyzed beyond the specified holding time. Due to the very short holding time of 8 hours, samples could not be analyzed within the hold time.
 * = LCS or LCSD exceeds the control limits
 µg/L = micrograms per liter
 mg/L = milligrams per liter
 CFU/mL = colony forming units per milliliter
 mV = Millivolts
 S.U. = Standard unit
 mS/cm = Millisiemen per centimeter
 °C = Degree Celsius
 NTU = Nephelometric turbidity units

Table 3
 Summary of Historical Groundwater Sample Analytical Results
 Annual Monitoring Report
 Former TBE Machine Shop, Nikiski, AK

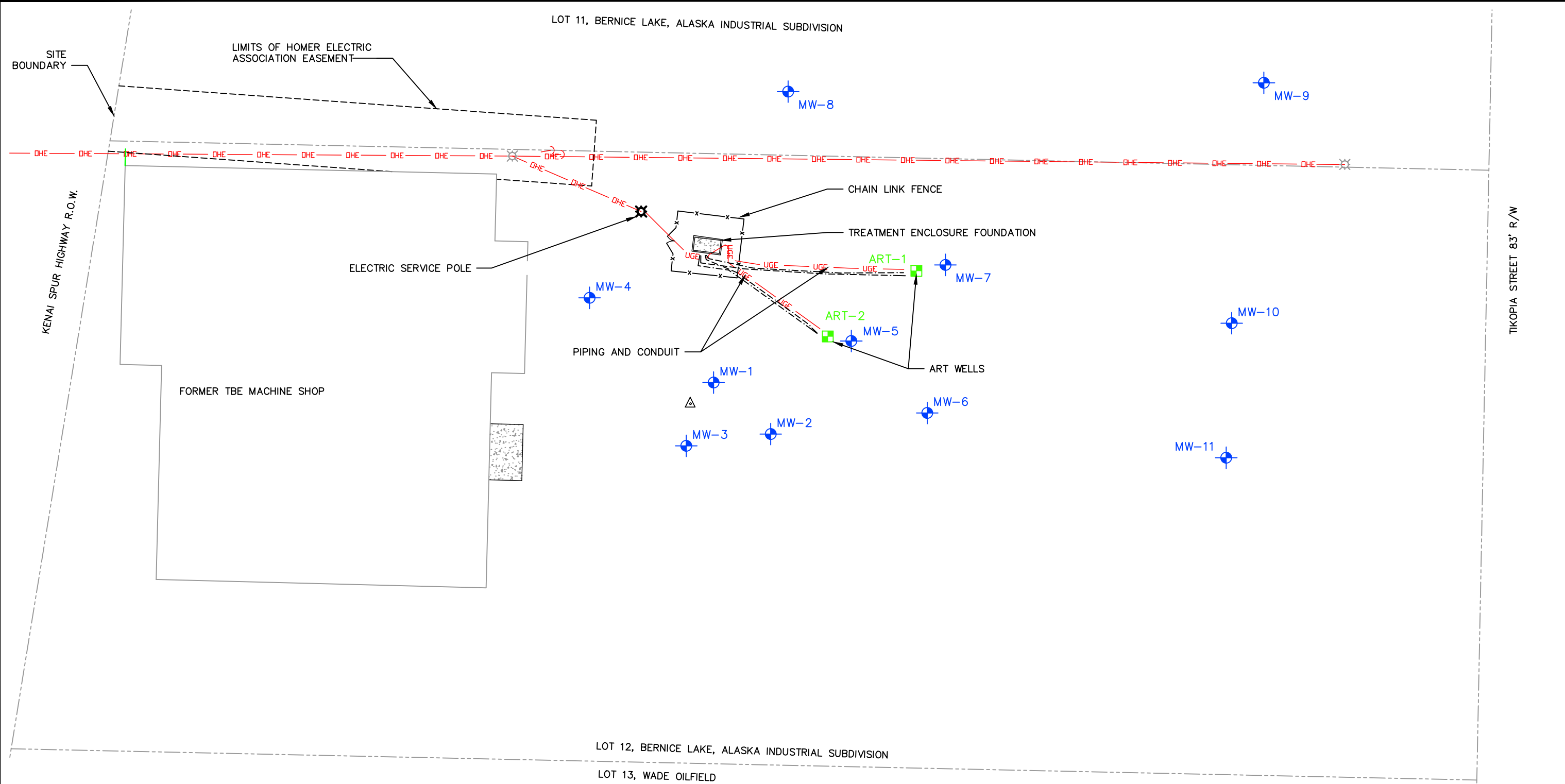
Location ID: Date Collected: Sample Name:	Groundwater Cleanup Level	Units	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	
			06/11/14	05/27/15	06/07/16	03/01/17	03/20/18	08/01/19	09/16/20	06/11/14	05/27/15	06/08/16	03/02/17	03/20/18	08/01/19	09/16/20	
			MW-8	MW-8	MW-8-W-060716	MW-8	MW-8	MW-8-W-190801	MW-8-W-200916	MW-9	MW-9	MW-9-W-060816	MW-9	MW-9	MW-9-W-190801	MW-9-W-200916	
			Baseline	ART System Operating	Post-ART Shutdown					Baseline	ART System Operating	Post-ART Shutdown					
Detected Volatile Organic Compounds																	
m-Xylene & p-Xylene	--	µg/L	2 U	3 U [3 U]	3 U	3 U	3 U [3 U*]	3 U	R	2 U	3 U	3 U	3 U	3 U	3 U	3 UF1	R
1,1,1-Trichloroethane	8,000	µg/L	1 U	3 U [3 U]	3 U	3 U	3 U [3 U]	3 U	R	1 U	3 U	3 U	3 U	3 U	3 U	3 U	R
1,1-Dichloroethane	28	µg/L	1 U	2 U [2 U]	2 U	2 U	2 U [2 U]	2 U	R	1 U	2 U	2 U	2 U	2 U	2 U	2 U	R
1,1-Dichloroethene	280	µg/L	1 U	2 U* [2 U*]	2 U	2 U	4 U [4 U]	4 U	R	1 U	2 U*	2 U*	2 U	4 U	4 U	4 U	R
1,2,4-Trimethylbenzene	56	µg/L	1 U	3 U [3 U]	3 U	3 U	3 U [3 U*]	3 U	R	1 U	3 U	3 U	3 U	3 U	3 U	3 UF1	R
1,2-Dichlorobenzene	300	µg/L	1 U	2 U [2 U]	2 U	2 U	2 U [2 U*]	2 U	R	1 U	2 U	2 U	2 U	2 U	2 U	2 UF1	R
1,2-Dichloroethene (cis) (DCE)	36	µg/L	1 U	1 U [1 U]	1 U	1 U	3 U [3 U*]	3 U	R	1 U	1 U	1 U	1 U	3 U	3 U	3 U	R
1,3,5-Trimethylbenzene	60	µg/L	1 U	3 U [3 U]	3 U	3 U	3 U [3 U*]	3 U	R	1 U	3 U	3 U	3 U	3 U	3 U	3 UF1	R
1,4-Dichlorobenzene	4.8	µg/L	1 U	2 U [2 U]	2 U	4 U	4 U [4 U*]	4 U	R	1 U	2 U	4 U	4 U	4 U	4 U	4 UF1	R
2-Phenylbutane	2,000	µg/L	1 U	3 U [3 U]	3 U	3 U	3 U [3 U*]	3 U	R	1 U	3 U	3 U	3 U	3 U	3 U	3 UF1	R
Cymene	--	µg/L	1 U	3 U [3 U]	3 U	3 U	3 U [3 U*]	3 U	R	1 U	3 U	3 U*	3 U	3 U	3 U	3 UF1	R
Ethylbenzene	15	µg/L	1 U	3 U [3 U]	3 U	3 U	3 U [3 U*]	3 U	R	1 U	3 U	3 U	3 U	3 U	3 U	3 UF1	R
Isopropylbenzene (Cumene)	450	µg/L	1 U	2 U [2 U]	2 U	2 U	2 U [2 U*]	2 U	R	1 U	2 U	2 U	2 U	2 U	2 U	2 UF1	R
Naphthalene	1.7	µg/L	3 U	2 U* [2 U*]	2 U	2 U	4 U [4 U]	4 U	R	3 U	2 U*	2 U	2 U	4 U	4 U	4 U	R
n-Butylbenzene	1,000	µg/L	2 U	3 U [3 U]	3 U	3 U	3 U [3 U*]	3 U	R	2 U	3 U	3 U	3 U	3 U	3 U	3 UF1	R
n-Propylbenzene	660	µg/L	1 U	3 U [3 U]	3 U	3 U	3 U [3 U*]	3 U	R	1 U	3 U	3 U	3 U	3 U	3 U	3 UF1	R
Styrene	1,200	µg/L	5 U	5 U [5 U]	5 U	5 U	5 U [5 U*]	5 U	R	5 U	5 U	5 U	5 U	5 U	5 U	5 U	R
tert-Butylbenzene	690	µg/L	1 U	3 U [3 U]	3 U	3 U	3 U [3 U*]	3 U	R	1 U	3 U	3 U	3 U	3 U	3 U	3 UF1	R
Tetrachloroethene (PCE)	41	µg/L	1 U	3 U [3 U]	3 U	3 U	3 U [3 U*]	3 U	R	1 U	3 U	3 U	3 U	3 U	3 U	3 U	R
Toluene	1,100	µg/L	1 U	2 U [2 U]	2 U	2 U	2 U [2 U*]	2 U	R	1 U	2 U	2 U	2 U	2 U	2 U	2 UF1	R
Trichloroethene (TCE)	2.8	µg/L	1 U	3 U [3 U]	3 U	3 U	3 U [3 U*]	3 U	R	1 U	3 U	3 U	3 U	3 U	3 U	3 U	R
Vinyl chloride	0.19	µg/L	1 U	1 U [1 U]	1 U	1 U	1 U [1 U]	1 U	R	1 U	1 U	1 U	1 U	1 U	1 U	1 U	R
Xylenes (o)	--	µg/L	1 U	2 U [2 U]	2 U	2 U	2 U [2 U*]	2 U	R	1 U	2 U	2 U	2 U	2 U	2 U	2 U	R
Xylenes (total)	190	µg/L	2 U	3 U [3 U]	3 U	3 U	3 U [3 U]	3 U	R	2 U	3 U	3 U	3 U	3 U	3 U	3 U	R
Detected Miscellaneous Compounds																	
Ferrous Iron	--	mg/L	0.4	0.2	0.2	NA	NA	NA	NA	0.4	0	0	NA	NA	NA	NA	NA
Heterotrophic Plate Count	--	CFU/mL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Detected Gasoline Range Organics																	
Gasoline Range Organics (GRO)-C6-C10	2.2	mg/L	0.05 U	0.05 U [0.05 U]	0.05 U	0.05 U	1 U [1 U]	0.25 U	R	0.05 U	0.05 U	0.05 U	0.05 U	1 U	0.25 U		R
Detected Diesel Range Organics																	
Diesel Range Organics (DRO) nC10-nC25	1.5	mg/L	0.38 U	0.2 U [0.2 U]	0.11 U	0.1 U	0.11 U* [0.12 U*]	0.11 U	R	0.39 U	0.21 U	0.11 U	0.11 U	0.12 U*	0.11 U		R
Detected Field Parameters																	
Dissolved oxygen	--	mg/L	6.55	6.91	5.03	5.21	6.29	4.36	2.86	4.27	4.23	2.08	4.1	3.02	2.48		0
ORP	--	mV	212.1	110.4	67.1	77.8	202	178	234	290	138.7	-69.7	87.5	195.9	268.9		59
pH	--	S.U.	5.44	5.62	5.69	NA	5.88	6	5.27	3.22	5.46	7.52	NA	5.78	5.59		5.38
Specific conductivity	--	mS/cm	0.062	0.067	0.071	0.121	0.061	0.142	0.086	0.108	0.093	0.079	0.128	0.056	90.4		0.149
Temperature	--	°C	6.29	5.2	9.9	3.41	2.12	7.42	8.46	4.84	4.48	7.67	3.31	0.88	6.5		4.8
Turbidity	--	NTU	22.2	49	39.5	0.11	10.89	0.1	8.6	4.21	0	9.8	0	14.16	0		0.7

Notes:
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 S.U. = Standard unit
 mS/cm = Millisiemen per centimeter
 °C = Degree Celsius
 NTU = Nephelometric turbidity units

FIGURE



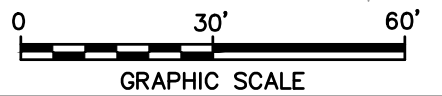
CITY: SYRACUSE, NY DIV/GROUP: EBC-IMDV DR: L. POSENAUER PM: M. PELTON LYS: (C) ON: OFF: REF: C:\Users\lpoenaue\BIM\360\Arcadis\ANA - GE CORP ENV PROJ\Project Files\GE KENAI\01\2019\3000632701-DWG\GE-KENAI-01-SITE MAP.dwg LAYOUT: 11/21/2019 11:06 AM BY: POSENAUER, LISA XREFS: GE-KENAI-XBASE



- LEGEND:**
- EXISTING GROUNDWATER MONITORING WELL
 - TREATMENT WELL
 - EXISTING POWER POLE
 - SERVICE POWER POLE
 - OVERHEAD ELECTRIC
 - UNDERGROUND ELECTRIC
 - SVE AND AIR SPARGE PIPING
 - CHAIN LINK FENCE

NOTE:

1. BASE MAP SURVEY PROVIDED BY McLANE CONSULTING INC., AT A SCALE OF 1"=40'. COORDINATES ARE ALASKA STATE PLANE ZONE 4 NAD83. ELEVATIONS ARE NAVD88 IN FEET COMPUTED FROM AN OPUS SOLUTION USING GEOD09. BASIS OF HORIZONTAL CONTROL NAD83 POSITION (EPOCH 2003) AND VERTICAL CONTROL (NAVD88) WAS AN OPUS SOLUTION FROM CORS STATIONS ANC2 ANC AIRPORT 2 CORS ARP, TSEA ANCHORAGE CORS ARP AND UAAG U ALASKA COOP CORS ARP TO ESTABLISH THE POSITION AND ELEVATION OF CP-4.



GENERAL ELECTRIC COMPANY
FORMER MACHINE SHOP
NIKISKI, ALASKA

SITE MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE 1

ATTACHMENT 1

Laboratory Report



ANALYTICAL REPORT

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

Laboratory Job ID: 580-97589-2

Client Project/Site: Former TBE Machine Shop- GE Kenai

For:

ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Anna Hagemeister



Authorized for release by:
10/20/2020 5:01:52 PM

Nathan Lewis, Project Manager I
(253)922-2310
Nathan.Lewis@Eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions	4
Client Sample Results	5
QC Sample Results	35
Chronicle	43
Certification Summary	46
Sample Summary	47
Receipt Checklists	48

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Job ID: 580-97589-2

Laboratory: Eurofins TestAmerica, Seattle

Narrative

Job Narrative 580-97589-2

Comments

No additional comments.

Receipt

The samples were received on 9/21/2020 9:30 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 14.3° C and 15.8° C.

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: MW-1-W-200916 (580-97589-1), MW-2-W-200916 (580-97589-2), MW-3-W-200916 (580-97589-3), MW-4-W-200916 (580-97589-4), MW-5-W-200916 (580-97589-5), MW-6-W-200916 (580-97589-6), MW-7-W-200916 (580-97589-7), MW-8-W-200916 (580-97589-8), MW-9-W-200916 (580-97589-9), MW-9-W-200916 (580-97589-9[MS]), MW-9-W-200916 (580-97589-9[MSD]), MW-10-W-200916 (580-97589-10), MW-11-W-200916 (580-97589-11), BD-1-W-200916 (580-97589-12), BD-2-W-200916 (580-97589-13), EQB-1-W-200916 (580-97589-14) and Trip Blank (580-97589-15).

GC/MS VOA

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 580-340878 recovered outside control limits for the following analytes: 1,1,1,2-Tetrachloroethane, 1,1-Dichloroethene, 2-Chlorotoluene, Dichlorodifluoromethane, n-Butylbenzene, Trichlorofluoromethane and Vinyl chloride. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 580-340878 recovered outside control limits for the following analytes: 1,1-Dichloroethene, Bromomethane, Chloromethane, Dichlorodifluoromethane and Vinyl chloride.

Method 8260D: The following samples were analyzed outside of analytical holding time due to sample login error: MW-1-W-200916 (580-97589-1), MW-2-W-200916 (580-97589-2), MW-3-W-200916 (580-97589-3), MW-4-W-200916 (580-97589-4), MW-5-W-200916 (580-97589-5), MW-6-W-200916 (580-97589-6), MW-7-W-200916 (580-97589-7), MW-8-W-200916 (580-97589-8), MW-9-W-200916 (580-97589-9), MW-9-W-200916 (580-97589-9[MS]), MW-9-W-200916 (580-97589-9[MSD]), MW-10-W-200916 (580-97589-10), MW-11-W-200916 (580-97589-11), BD-1-W-200916 (580-97589-12), BD-2-W-200916 (580-97589-13), EQB-1-W-200916 (580-97589-14) and Trip Blank (580-97589-15).

Method 8260D: Surrogate recovery for the following sample was outside control limits: MW-5-W-200916 (580-97589-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

VOA Prep

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

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate recovery exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-1-W-200916

Lab Sample ID: 580-97589-1

Date Collected: 09/16/20 13:30

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H * *1	10	0.53	ug/L			10/15/20 15:09	1
Chloromethane	ND	H *1	20	0.28	ug/L			10/15/20 15:09	1
Vinyl chloride	ND	H * *1	1.0	0.22	ug/L			10/15/20 15:09	1
Bromomethane	ND	H *1	6.0	0.21	ug/L			10/15/20 15:09	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 15:09	1
Trichlorofluoromethane	ND	H *	3.0	0.63	ug/L			10/15/20 15:09	1
1,1-Dichloroethene	ND	H * *1	4.0	0.28	ug/L			10/15/20 15:09	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 15:09	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 15:09	1
trans-1,2-Dichloroethene	0.40	J H	3.0	0.39	ug/L			10/15/20 15:09	1
1,1-Dichloroethane	4.7	H	2.0	0.22	ug/L			10/15/20 15:09	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 15:09	1
cis-1,2-Dichloroethene	110	H	3.0	0.69	ug/L			10/15/20 15:09	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 15:09	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 15:09	1
1,1,1-Trichloroethane	1.8	J H	3.0	0.39	ug/L			10/15/20 15:09	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 15:09	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 15:09	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 15:09	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 15:09	1
Trichloroethene	12	H	3.0	0.26	ug/L			10/15/20 15:09	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 15:09	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 15:09	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 15:09	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 15:09	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 15:09	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 15:09	1
1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 15:09	1
Tetrachloroethene	24	H	3.0	0.41	ug/L			10/15/20 15:09	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 15:09	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 15:09	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 15:09	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 15:09	1
1,1,1,2-Tetrachloroethane	ND	H *	2.0	0.18	ug/L			10/15/20 15:09	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 15:09	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 15:09	1
o-Xylene	ND	H	2.0	0.39	ug/L			10/15/20 15:09	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 15:09	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 15:09	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 15:09	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 15:09	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 15:09	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 15:09	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 15:09	1
2-Chlorotoluene	ND	H *	3.0	0.51	ug/L			10/15/20 15:09	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 15:09	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 15:09	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 15:09	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 15:09	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-1-W-200916

Lab Sample ID: 580-97589-1

Date Collected: 09/16/20 13:30

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.93	J H	3.0	0.49	ug/L			10/15/20 15:09	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 15:09	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 15:09	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 15:09	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 15:09	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 15:09	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 15:09	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 15:09	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 15:09	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 15:09	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 15:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		10/15/20 15:09	1
1,2-Dichloroethane-d4 (Surr)	104		80 - 126		10/15/20 15:09	1
4-Bromofluorobenzene (Surr)	90		80 - 120		10/15/20 15:09	1
Dibromofluoromethane (Surr)	102		80 - 120		10/15/20 15:09	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-2-W-200916

Lab Sample ID: 580-97589-2

Date Collected: 09/16/20 14:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H **1	10	0.53	ug/L			10/15/20 15:34	1
Chloromethane	ND	H *1	20	0.28	ug/L			10/15/20 15:34	1
Vinyl chloride	ND	H **1	1.0	0.22	ug/L			10/15/20 15:34	1
Bromomethane	ND	H *1	6.0	0.21	ug/L			10/15/20 15:34	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 15:34	1
Trichlorofluoromethane	ND	H *	3.0	0.63	ug/L			10/15/20 15:34	1
1,1-Dichloroethene	ND	H **1	4.0	0.28	ug/L			10/15/20 15:34	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 15:34	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 15:34	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 15:34	1
1,1-Dichloroethane	3.9	H	2.0	0.22	ug/L			10/15/20 15:34	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 15:34	1
cis-1,2-Dichloroethene	27	H	3.0	0.69	ug/L			10/15/20 15:34	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 15:34	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 15:34	1
1,1,1-Trichloroethane	ND	H	3.0	0.39	ug/L			10/15/20 15:34	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 15:34	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 15:34	1
Benzene	0.27	J H	3.0	0.24	ug/L			10/15/20 15:34	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 15:34	1
Trichloroethene	ND	H	3.0	0.26	ug/L			10/15/20 15:34	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 15:34	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 15:34	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 15:34	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 15:34	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 15:34	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 15:34	1
1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 15:34	1
Tetrachloroethene	ND	H	3.0	0.41	ug/L			10/15/20 15:34	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 15:34	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 15:34	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 15:34	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 15:34	1
1,1,1,2-Tetrachloroethane	ND	H *	2.0	0.18	ug/L			10/15/20 15:34	1
Ethylbenzene	6.8	H	3.0	0.50	ug/L			10/15/20 15:34	1
m-Xylene & p-Xylene	7.1	H	3.0	0.75	ug/L			10/15/20 15:34	1
o-Xylene	2.2	H	2.0	0.39	ug/L			10/15/20 15:34	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 15:34	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 15:34	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 15:34	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 15:34	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 15:34	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 15:34	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 15:34	1
2-Chlorotoluene	ND	H *	3.0	0.51	ug/L			10/15/20 15:34	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 15:34	1
1,3,5-Trimethylbenzene	0.58	J H	3.0	0.55	ug/L			10/15/20 15:34	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 15:34	1
1,2,4-Trimethylbenzene	1.8	J H	3.0	0.61	ug/L			10/15/20 15:34	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-2-W-200916

Lab Sample ID: 580-97589-2

Date Collected: 09/16/20 14:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.76	J H	3.0	0.49	ug/L			10/15/20 15:34	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 15:34	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 15:34	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 15:34	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 15:34	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 15:34	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 15:34	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 15:34	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 15:34	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 15:34	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 15:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	99		80 - 120		10/15/20 15:34	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	102		80 - 126		10/15/20 15:34	1
<i>4-Bromofluorobenzene (Surr)</i>	95		80 - 120		10/15/20 15:34	1
<i>Dibromofluoromethane (Surr)</i>	99		80 - 120		10/15/20 15:34	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-3-W-200916

Lab Sample ID: 580-97589-3

Date Collected: 09/16/20 09:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H **1	10	0.53	ug/L			10/15/20 15:58	1
Chloromethane	ND	H *1	20	0.28	ug/L			10/15/20 15:58	1
Vinyl chloride	ND	H **1	1.0	0.22	ug/L			10/15/20 15:58	1
Bromomethane	ND	H *1	6.0	0.21	ug/L			10/15/20 15:58	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 15:58	1
Trichlorofluoromethane	ND	H *	3.0	0.63	ug/L			10/15/20 15:58	1
1,1-Dichloroethene	ND	H **1	4.0	0.28	ug/L			10/15/20 15:58	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 15:58	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 15:58	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 15:58	1
1,1-Dichloroethane	4.1	H	2.0	0.22	ug/L			10/15/20 15:58	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 15:58	1
cis-1,2-Dichloroethene	5.1	H	3.0	0.69	ug/L			10/15/20 15:58	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 15:58	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 15:58	1
1,1,1-Trichloroethane	1.3	J H	3.0	0.39	ug/L			10/15/20 15:58	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 15:58	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 15:58	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 15:58	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 15:58	1
Trichloroethene	1.2	J H	3.0	0.26	ug/L			10/15/20 15:58	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 15:58	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 15:58	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 15:58	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 15:58	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 15:58	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 15:58	1
1,1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 15:58	1
Tetrachloroethene	2.2	J H	3.0	0.41	ug/L			10/15/20 15:58	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 15:58	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 15:58	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 15:58	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 15:58	1
1,1,1,2-Tetrachloroethane	ND	H *	2.0	0.18	ug/L			10/15/20 15:58	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 15:58	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 15:58	1
o-Xylene	ND	H	2.0	0.39	ug/L			10/15/20 15:58	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 15:58	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 15:58	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 15:58	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 15:58	1
1,1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 15:58	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 15:58	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 15:58	1
2-Chlorotoluene	ND	H *	3.0	0.51	ug/L			10/15/20 15:58	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 15:58	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 15:58	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 15:58	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 15:58	1

Eurolins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-3-W-200916

Lab Sample ID: 580-97589-3

Date Collected: 09/16/20 09:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H	3.0	0.49	ug/L			10/15/20 15:58	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 15:58	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 15:58	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 15:58	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 15:58	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 15:58	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 15:58	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 15:58	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 15:58	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 15:58	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120		10/15/20 15:58	1
1,2-Dichloroethane-d4 (Surr)	102		80 - 126		10/15/20 15:58	1
4-Bromofluorobenzene (Surr)	104		80 - 120		10/15/20 15:58	1
Dibromofluoromethane (Surr)	100		80 - 120		10/15/20 15:58	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-4-W-200916

Lab Sample ID: 580-97589-4

Date Collected: 09/16/20 08:50

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H **1	10	0.53	ug/L			10/15/20 16:24	1
Chloromethane	ND	H *1	20	0.28	ug/L			10/15/20 16:24	1
Vinyl chloride	ND	H **1	1.0	0.22	ug/L			10/15/20 16:24	1
Bromomethane	ND	H *1	6.0	0.21	ug/L			10/15/20 16:24	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 16:24	1
Trichlorofluoromethane	ND	H *	3.0	0.63	ug/L			10/15/20 16:24	1
1,1-Dichloroethene	ND	H **1	4.0	0.28	ug/L			10/15/20 16:24	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 16:24	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 16:24	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 16:24	1
1,1-Dichloroethane	ND	H	2.0	0.22	ug/L			10/15/20 16:24	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 16:24	1
cis-1,2-Dichloroethene	ND	H	3.0	0.69	ug/L			10/15/20 16:24	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 16:24	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 16:24	1
1,1,1-Trichloroethane	2.6	J H	3.0	0.39	ug/L			10/15/20 16:24	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 16:24	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 16:24	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 16:24	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 16:24	1
Trichloroethene	4.6	H	3.0	0.26	ug/L			10/15/20 16:24	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 16:24	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 16:24	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 16:24	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 16:24	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 16:24	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 16:24	1
1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 16:24	1
Tetrachloroethene	14	H	3.0	0.41	ug/L			10/15/20 16:24	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 16:24	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 16:24	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 16:24	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 16:24	1
1,1,1,2-Tetrachloroethane	ND	H *	2.0	0.18	ug/L			10/15/20 16:24	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 16:24	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 16:24	1
o-Xylene	ND	H	2.0	0.39	ug/L			10/15/20 16:24	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 16:24	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 16:24	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 16:24	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 16:24	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 16:24	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 16:24	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 16:24	1
2-Chlorotoluene	ND	H *	3.0	0.51	ug/L			10/15/20 16:24	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 16:24	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 16:24	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 16:24	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 16:24	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-4-W-200916

Lab Sample ID: 580-97589-4

Date Collected: 09/16/20 08:50

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H	3.0	0.49	ug/L			10/15/20 16:24	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 16:24	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 16:24	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 16:24	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 16:24	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 16:24	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 16:24	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 16:24	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 16:24	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 16:24	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 16:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120		10/15/20 16:24	1
1,2-Dichloroethane-d4 (Surr)	105		80 - 126		10/15/20 16:24	1
4-Bromofluorobenzene (Surr)	94		80 - 120		10/15/20 16:24	1
Dibromofluoromethane (Surr)	99		80 - 120		10/15/20 16:24	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-5-W-200916

Lab Sample ID: 580-97589-5

Date Collected: 09/16/20 12:10

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H * *1	10	0.53	ug/L			10/15/20 16:49	1
Chloromethane	ND	H *1	20	0.28	ug/L			10/15/20 16:49	1
Vinyl chloride	ND	H * *1	1.0	0.22	ug/L			10/15/20 16:49	1
Bromomethane	ND	H *1	6.0	0.21	ug/L			10/15/20 16:49	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 16:49	1
Trichlorofluoromethane	ND	H *	3.0	0.63	ug/L			10/15/20 16:49	1
1,1-Dichloroethene	ND	H * *1	4.0	0.28	ug/L			10/15/20 16:49	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 16:49	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 16:49	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 16:49	1
1,1-Dichloroethane	1.2	J H	2.0	0.22	ug/L			10/15/20 16:49	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 16:49	1
cis-1,2-Dichloroethene	50	H	3.0	0.69	ug/L			10/15/20 16:49	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 16:49	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 16:49	1
1,1,1-Trichloroethane	ND	H	3.0	0.39	ug/L			10/15/20 16:49	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 16:49	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 16:49	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 16:49	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 16:49	1
Trichloroethene	ND	H	3.0	0.26	ug/L			10/15/20 16:49	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 16:49	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 16:49	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 16:49	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 16:49	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 16:49	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 16:49	1
1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 16:49	1
Tetrachloroethene	ND	H	3.0	0.41	ug/L			10/15/20 16:49	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 16:49	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 16:49	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 16:49	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 16:49	1
1,1,1,2-Tetrachloroethane	ND	H *	2.0	0.18	ug/L			10/15/20 16:49	1
Ethylbenzene	89	H	3.0	0.50	ug/L			10/15/20 16:49	1
m-Xylene & p-Xylene	130	H	3.0	0.75	ug/L			10/15/20 16:49	1
o-Xylene	4.5	H	2.0	0.39	ug/L			10/15/20 16:49	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 16:49	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 16:49	1
Isopropylbenzene	1.0	J H	2.0	0.44	ug/L			10/15/20 16:49	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 16:49	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 16:49	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 16:49	1
N-Propylbenzene	0.73	J H	3.0	0.50	ug/L			10/15/20 16:49	1
2-Chlorotoluene	ND	H *	3.0	0.51	ug/L			10/15/20 16:49	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 16:49	1
1,3,5-Trimethylbenzene	15	H	3.0	0.55	ug/L			10/15/20 16:49	1
tert-Butylbenzene	1.2	J H	3.0	0.58	ug/L			10/15/20 16:49	1
1,2,4-Trimethylbenzene	20	H	3.0	0.61	ug/L			10/15/20 16:49	1

Eurolins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-5-W-200916

Lab Sample ID: 580-97589-5

Date Collected: 09/16/20 12:10

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H	3.0	0.49	ug/L			10/15/20 16:49	1
4-Isopropyltoluene	3.0	H	3.0	0.28	ug/L			10/15/20 16:49	1
1,3-Dichlorobenzene	0.33	J H	2.0	0.18	ug/L			10/15/20 16:49	1
1,4-Dichlorobenzene	2.4	J H	4.0	0.46	ug/L			10/15/20 16:49	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 16:49	1
1,2-Dichlorobenzene	1.2	J H	2.0	0.46	ug/L			10/15/20 16:49	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 16:49	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 16:49	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 16:49	1
Naphthalene	2.2	J H	4.0	0.93	ug/L			10/15/20 16:49	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 16:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	113		80 - 120		10/15/20 16:49	1
1,2-Dichloroethane-d4 (Surr)	103		80 - 126		10/15/20 16:49	1
4-Bromofluorobenzene (Surr)	128	X	80 - 120		10/15/20 16:49	1
Dibromofluoromethane (Surr)	113		80 - 120		10/15/20 16:49	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-6-W-200916

Lab Sample ID: 580-97589-6

Date Collected: 09/16/20 10:15

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H **1	10	0.53	ug/L			10/15/20 17:13	1
Chloromethane	ND	H *1	20	0.28	ug/L			10/15/20 17:13	1
Vinyl chloride	ND	H **1	1.0	0.22	ug/L			10/15/20 17:13	1
Bromomethane	ND	H *1	6.0	0.21	ug/L			10/15/20 17:13	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 17:13	1
Trichlorofluoromethane	ND	H *	3.0	0.63	ug/L			10/15/20 17:13	1
1,1-Dichloroethene	ND	H **1	4.0	0.28	ug/L			10/15/20 17:13	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 17:13	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 17:13	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 17:13	1
1,1-Dichloroethane	ND	H	2.0	0.22	ug/L			10/15/20 17:13	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 17:13	1
cis-1,2-Dichloroethene	ND	H	3.0	0.69	ug/L			10/15/20 17:13	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 17:13	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 17:13	1
1,1,1-Trichloroethane	ND	H	3.0	0.39	ug/L			10/15/20 17:13	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 17:13	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 17:13	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 17:13	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 17:13	1
Trichloroethene	ND	H	3.0	0.26	ug/L			10/15/20 17:13	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 17:13	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 17:13	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 17:13	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 17:13	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 17:13	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 17:13	1
1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 17:13	1
Tetrachloroethene	ND	H	3.0	0.41	ug/L			10/15/20 17:13	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 17:13	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 17:13	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 17:13	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 17:13	1
1,1,1,2-Tetrachloroethane	ND	H *	2.0	0.18	ug/L			10/15/20 17:13	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 17:13	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 17:13	1
o-Xylene	ND	H	2.0	0.39	ug/L			10/15/20 17:13	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 17:13	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 17:13	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 17:13	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 17:13	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 17:13	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 17:13	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 17:13	1
2-Chlorotoluene	ND	H *	3.0	0.51	ug/L			10/15/20 17:13	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 17:13	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 17:13	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 17:13	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 17:13	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-6-W-200916

Lab Sample ID: 580-97589-6

Date Collected: 09/16/20 10:15

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H	3.0	0.49	ug/L			10/15/20 17:13	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 17:13	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 17:13	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 17:13	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 17:13	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 17:13	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 17:13	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 17:13	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 17:13	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 17:13	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 17:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120		10/15/20 17:13	1
1,2-Dichloroethane-d4 (Surr)	104		80 - 126		10/15/20 17:13	1
4-Bromofluorobenzene (Surr)	97		80 - 120		10/15/20 17:13	1
Dibromofluoromethane (Surr)	108		80 - 120		10/15/20 17:13	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-7-W-200916

Lab Sample ID: 580-97589-7

Date Collected: 09/16/20 13:30

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H **1	10	0.53	ug/L			10/15/20 17:39	1
Chloromethane	ND	H *1	20	0.28	ug/L			10/15/20 17:39	1
Vinyl chloride	ND	H **1	1.0	0.22	ug/L			10/15/20 17:39	1
Bromomethane	ND	H *1	6.0	0.21	ug/L			10/15/20 17:39	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 17:39	1
Trichlorofluoromethane	ND	H *	3.0	0.63	ug/L			10/15/20 17:39	1
1,1-Dichloroethene	ND	H **1	4.0	0.28	ug/L			10/15/20 17:39	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 17:39	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 17:39	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 17:39	1
1,1-Dichloroethane	ND	H	2.0	0.22	ug/L			10/15/20 17:39	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 17:39	1
cis-1,2-Dichloroethene	ND	H	3.0	0.69	ug/L			10/15/20 17:39	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 17:39	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 17:39	1
1,1,1-Trichloroethane	0.70	J H	3.0	0.39	ug/L			10/15/20 17:39	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 17:39	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 17:39	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 17:39	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 17:39	1
Trichloroethene	0.86	J H	3.0	0.26	ug/L			10/15/20 17:39	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 17:39	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 17:39	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 17:39	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 17:39	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 17:39	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 17:39	1
1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 17:39	1
Tetrachloroethene	10	H	3.0	0.41	ug/L			10/15/20 17:39	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 17:39	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 17:39	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 17:39	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 17:39	1
1,1,1,2-Tetrachloroethane	ND	H *	2.0	0.18	ug/L			10/15/20 17:39	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 17:39	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 17:39	1
o-Xylene	ND	H	2.0	0.39	ug/L			10/15/20 17:39	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 17:39	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 17:39	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 17:39	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 17:39	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 17:39	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 17:39	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 17:39	1
2-Chlorotoluene	ND	H *	3.0	0.51	ug/L			10/15/20 17:39	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 17:39	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 17:39	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 17:39	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 17:39	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-7-W-200916

Lab Sample ID: 580-97589-7

Date Collected: 09/16/20 13:30

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H	3.0	0.49	ug/L			10/15/20 17:39	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 17:39	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 17:39	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 17:39	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 17:39	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 17:39	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 17:39	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 17:39	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 17:39	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 17:39	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		10/15/20 17:39	1
1,2-Dichloroethane-d4 (Surr)	107		80 - 126		10/15/20 17:39	1
4-Bromofluorobenzene (Surr)	95		80 - 120		10/15/20 17:39	1
Dibromofluoromethane (Surr)	99		80 - 120		10/15/20 17:39	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-8-W-200916

Lab Sample ID: 580-97589-8

Date Collected: 09/16/20 11:10

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H **1	10	0.53	ug/L			10/15/20 18:03	1
Chloromethane	ND	H *1	20	0.28	ug/L			10/15/20 18:03	1
Vinyl chloride	ND	H **1	1.0	0.22	ug/L			10/15/20 18:03	1
Bromomethane	ND	H *1	6.0	0.21	ug/L			10/15/20 18:03	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 18:03	1
Trichlorofluoromethane	ND	H *	3.0	0.63	ug/L			10/15/20 18:03	1
1,1-Dichloroethene	ND	H **1	4.0	0.28	ug/L			10/15/20 18:03	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 18:03	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 18:03	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 18:03	1
1,1-Dichloroethane	ND	H	2.0	0.22	ug/L			10/15/20 18:03	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 18:03	1
cis-1,2-Dichloroethene	ND	H	3.0	0.69	ug/L			10/15/20 18:03	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 18:03	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 18:03	1
1,1,1-Trichloroethane	ND	H	3.0	0.39	ug/L			10/15/20 18:03	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 18:03	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 18:03	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 18:03	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 18:03	1
Trichloroethene	ND	H	3.0	0.26	ug/L			10/15/20 18:03	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 18:03	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 18:03	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 18:03	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 18:03	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 18:03	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 18:03	1
1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 18:03	1
Tetrachloroethene	ND	H	3.0	0.41	ug/L			10/15/20 18:03	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 18:03	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 18:03	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 18:03	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 18:03	1
1,1,1,2-Tetrachloroethane	ND	H *	2.0	0.18	ug/L			10/15/20 18:03	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 18:03	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 18:03	1
o-Xylene	ND	H	2.0	0.39	ug/L			10/15/20 18:03	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 18:03	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 18:03	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 18:03	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 18:03	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 18:03	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 18:03	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 18:03	1
2-Chlorotoluene	ND	H *	3.0	0.51	ug/L			10/15/20 18:03	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 18:03	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 18:03	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 18:03	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 18:03	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-8-W-200916

Lab Sample ID: 580-97589-8

Date Collected: 09/16/20 11:10

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H	3.0	0.49	ug/L			10/15/20 18:03	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 18:03	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 18:03	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 18:03	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 18:03	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 18:03	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 18:03	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 18:03	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 18:03	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 18:03	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120		10/15/20 18:03	1
1,2-Dichloroethane-d4 (Surr)	106		80 - 126		10/15/20 18:03	1
4-Bromofluorobenzene (Surr)	102		80 - 120		10/15/20 18:03	1
Dibromofluoromethane (Surr)	103		80 - 120		10/15/20 18:03	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-9-W-200916

Lab Sample ID: 580-97589-9

Date Collected: 09/16/20 12:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H **1	10	0.53	ug/L			10/15/20 18:28	1
Chloromethane	ND	H *1	20	0.28	ug/L			10/15/20 18:28	1
Vinyl chloride	ND	H **1	1.0	0.22	ug/L			10/15/20 18:28	1
Bromomethane	ND	H *1	6.0	0.21	ug/L			10/15/20 18:28	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 18:28	1
Trichlorofluoromethane	ND	H *	3.0	0.63	ug/L			10/15/20 18:28	1
1,1-Dichloroethene	ND	H **1	4.0	0.28	ug/L			10/15/20 18:28	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 18:28	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 18:28	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 18:28	1
1,1-Dichloroethane	ND	H F1	2.0	0.22	ug/L			10/15/20 18:28	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 18:28	1
cis-1,2-Dichloroethene	ND	H	3.0	0.69	ug/L			10/15/20 18:28	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 18:28	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 18:28	1
1,1,1-Trichloroethane	ND	H	3.0	0.39	ug/L			10/15/20 18:28	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 18:28	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 18:28	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 18:28	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 18:28	1
Trichloroethene	ND	H	3.0	0.26	ug/L			10/15/20 18:28	1
1,2-Dichloropropane	ND	H F1	1.0	0.18	ug/L			10/15/20 18:28	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 18:28	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 18:28	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 18:28	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 18:28	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 18:28	1
1,1,2-Trichloroethane	ND	H F1	1.0	0.24	ug/L			10/15/20 18:28	1
Tetrachloroethene	ND	H	3.0	0.41	ug/L			10/15/20 18:28	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 18:28	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 18:28	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 18:28	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 18:28	1
1,1,1,2-Tetrachloroethane	ND	H * F1	2.0	0.18	ug/L			10/15/20 18:28	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 18:28	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 18:28	1
o-Xylene	ND	H F1	2.0	0.39	ug/L			10/15/20 18:28	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 18:28	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 18:28	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 18:28	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 18:28	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 18:28	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 18:28	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 18:28	1
2-Chlorotoluene	ND	H *	3.0	0.51	ug/L			10/15/20 18:28	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 18:28	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 18:28	1
tert-Butylbenzene	ND	H F1	3.0	0.58	ug/L			10/15/20 18:28	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 18:28	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-9-W-200916

Lab Sample ID: 580-97589-9

Date Collected: 09/16/20 12:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H	3.0	0.49	ug/L			10/15/20 18:28	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 18:28	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 18:28	1
1,4-Dichlorobenzene	ND	H F1	4.0	0.46	ug/L			10/15/20 18:28	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 18:28	1
1,2-Dichlorobenzene	ND	H F1	2.0	0.46	ug/L			10/15/20 18:28	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 18:28	1
1,2,4-Trichlorobenzene	ND	H F1	2.0	0.33	ug/L			10/15/20 18:28	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 18:28	1
Naphthalene	ND	H F1	4.0	0.93	ug/L			10/15/20 18:28	1
1,2,3-Trichlorobenzene	ND	H F1	5.0	0.43	ug/L			10/15/20 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		10/15/20 18:28	1
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		10/15/20 18:28	1
4-Bromofluorobenzene (Surr)	95		80 - 120		10/15/20 18:28	1
Dibromofluoromethane (Surr)	97		80 - 120		10/15/20 18:28	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-10-W-200916

Lab Sample ID: 580-97589-10

Date Collected: 09/16/20 11:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H **1	10	0.53	ug/L			10/15/20 19:43	1
Chloromethane	ND	H *1	20	0.28	ug/L			10/15/20 19:43	1
Vinyl chloride	ND	H **1	1.0	0.22	ug/L			10/15/20 19:43	1
Bromomethane	ND	H *1	6.0	0.21	ug/L			10/15/20 19:43	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 19:43	1
Trichlorofluoromethane	ND	H *	3.0	0.63	ug/L			10/15/20 19:43	1
1,1-Dichloroethene	ND	H **1	4.0	0.28	ug/L			10/15/20 19:43	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 19:43	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 19:43	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 19:43	1
1,1-Dichloroethane	ND	H	2.0	0.22	ug/L			10/15/20 19:43	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 19:43	1
cis-1,2-Dichloroethene	ND	H	3.0	0.69	ug/L			10/15/20 19:43	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 19:43	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 19:43	1
1,1,1-Trichloroethane	ND	H	3.0	0.39	ug/L			10/15/20 19:43	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 19:43	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 19:43	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 19:43	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 19:43	1
Trichloroethene	ND	H	3.0	0.26	ug/L			10/15/20 19:43	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 19:43	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 19:43	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 19:43	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 19:43	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 19:43	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 19:43	1
1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 19:43	1
Tetrachloroethene	ND	H	3.0	0.41	ug/L			10/15/20 19:43	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 19:43	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 19:43	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 19:43	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 19:43	1
1,1,1,2-Tetrachloroethane	ND	H *	2.0	0.18	ug/L			10/15/20 19:43	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 19:43	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 19:43	1
o-Xylene	ND	H	2.0	0.39	ug/L			10/15/20 19:43	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 19:43	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 19:43	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 19:43	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 19:43	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 19:43	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 19:43	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 19:43	1
2-Chlorotoluene	ND	H *	3.0	0.51	ug/L			10/15/20 19:43	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 19:43	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 19:43	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 19:43	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 19:43	1

Eurolins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-10-W-200916

Lab Sample ID: 580-97589-10

Date Collected: 09/16/20 11:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H	3.0	0.49	ug/L			10/15/20 19:43	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 19:43	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 19:43	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 19:43	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 19:43	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 19:43	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 19:43	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 19:43	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 19:43	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 19:43	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120		10/15/20 19:43	1
1,2-Dichloroethane-d4 (Surr)	104		80 - 126		10/15/20 19:43	1
4-Bromofluorobenzene (Surr)	99		80 - 120		10/15/20 19:43	1
Dibromofluoromethane (Surr)	102		80 - 120		10/15/20 19:43	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-11-W-200916

Lab Sample ID: 580-97589-11

Date Collected: 09/16/20 10:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H **1	10	0.53	ug/L			10/15/20 20:07	1
Chloromethane	ND	H *1	20	0.28	ug/L			10/15/20 20:07	1
Vinyl chloride	ND	H **1	1.0	0.22	ug/L			10/15/20 20:07	1
Bromomethane	ND	H *1	6.0	0.21	ug/L			10/15/20 20:07	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 20:07	1
Trichlorofluoromethane	ND	H *	3.0	0.63	ug/L			10/15/20 20:07	1
1,1-Dichloroethene	ND	H **1	4.0	0.28	ug/L			10/15/20 20:07	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 20:07	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 20:07	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 20:07	1
1,1-Dichloroethane	ND	H	2.0	0.22	ug/L			10/15/20 20:07	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 20:07	1
cis-1,2-Dichloroethene	ND	H	3.0	0.69	ug/L			10/15/20 20:07	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 20:07	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 20:07	1
1,1,1-Trichloroethane	ND	H	3.0	0.39	ug/L			10/15/20 20:07	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 20:07	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 20:07	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 20:07	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 20:07	1
Trichloroethene	ND	H	3.0	0.26	ug/L			10/15/20 20:07	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 20:07	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 20:07	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 20:07	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 20:07	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 20:07	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 20:07	1
1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 20:07	1
Tetrachloroethene	ND	H	3.0	0.41	ug/L			10/15/20 20:07	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 20:07	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 20:07	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 20:07	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 20:07	1
1,1,1,2-Tetrachloroethane	ND	H *	2.0	0.18	ug/L			10/15/20 20:07	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 20:07	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 20:07	1
o-Xylene	ND	H	2.0	0.39	ug/L			10/15/20 20:07	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 20:07	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 20:07	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 20:07	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 20:07	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 20:07	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 20:07	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 20:07	1
2-Chlorotoluene	ND	H *	3.0	0.51	ug/L			10/15/20 20:07	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 20:07	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 20:07	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 20:07	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 20:07	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-11-W-200916

Lab Sample ID: 580-97589-11

Date Collected: 09/16/20 10:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H	3.0	0.49	ug/L			10/15/20 20:07	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 20:07	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 20:07	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 20:07	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 20:07	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 20:07	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 20:07	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 20:07	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 20:07	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 20:07	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 20:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120		10/15/20 20:07	1
1,2-Dichloroethane-d4 (Surr)	105		80 - 126		10/15/20 20:07	1
4-Bromofluorobenzene (Surr)	93		80 - 120		10/15/20 20:07	1
Dibromofluoromethane (Surr)	99		80 - 120		10/15/20 20:07	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: BD-1-W-200916

Lab Sample ID: 580-97589-12

Date Collected: 09/16/20 00:01

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H **1	10	0.53	ug/L			10/15/20 20:32	1
Chloromethane	ND	H *1	20	0.28	ug/L			10/15/20 20:32	1
Vinyl chloride	ND	H **1	1.0	0.22	ug/L			10/15/20 20:32	1
Bromomethane	ND	H *1	6.0	0.21	ug/L			10/15/20 20:32	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 20:32	1
Trichlorofluoromethane	ND	H *	3.0	0.63	ug/L			10/15/20 20:32	1
1,1-Dichloroethene	ND	H **1	4.0	0.28	ug/L			10/15/20 20:32	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 20:32	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 20:32	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 20:32	1
1,1-Dichloroethane	ND	H	2.0	0.22	ug/L			10/15/20 20:32	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 20:32	1
cis-1,2-Dichloroethene	ND	H	3.0	0.69	ug/L			10/15/20 20:32	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 20:32	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 20:32	1
1,1,1-Trichloroethane	2.4	J H	3.0	0.39	ug/L			10/15/20 20:32	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 20:32	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 20:32	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 20:32	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 20:32	1
Trichloroethene	4.1	H	3.0	0.26	ug/L			10/15/20 20:32	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 20:32	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 20:32	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 20:32	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 20:32	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 20:32	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 20:32	1
1,1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 20:32	1
Tetrachloroethene	14	H	3.0	0.41	ug/L			10/15/20 20:32	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 20:32	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 20:32	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 20:32	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 20:32	1
1,1,1,2-Tetrachloroethane	ND	H *	2.0	0.18	ug/L			10/15/20 20:32	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 20:32	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 20:32	1
o-Xylene	ND	H	2.0	0.39	ug/L			10/15/20 20:32	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 20:32	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 20:32	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 20:32	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 20:32	1
1,1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 20:32	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 20:32	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 20:32	1
2-Chlorotoluene	ND	H *	3.0	0.51	ug/L			10/15/20 20:32	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 20:32	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 20:32	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 20:32	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 20:32	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: BD-1-W-200916

Lab Sample ID: 580-97589-12

Date Collected: 09/16/20 00:01

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H	3.0	0.49	ug/L			10/15/20 20:32	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 20:32	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 20:32	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 20:32	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 20:32	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 20:32	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 20:32	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 20:32	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 20:32	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 20:32	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 20:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		10/15/20 20:32	1
1,2-Dichloroethane-d4 (Surr)	103		80 - 126		10/15/20 20:32	1
4-Bromofluorobenzene (Surr)	94		80 - 120		10/15/20 20:32	1
Dibromofluoromethane (Surr)	105		80 - 120		10/15/20 20:32	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: BD-2-W-200916

Lab Sample ID: 580-97589-13

Date Collected: 09/16/20 00:01

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H * *1	10	0.53	ug/L			10/15/20 20:58	1
Chloromethane	ND	H *1	20	0.28	ug/L			10/15/20 20:58	1
Vinyl chloride	ND	H * *1	1.0	0.22	ug/L			10/15/20 20:58	1
Bromomethane	ND	H *1	6.0	0.21	ug/L			10/15/20 20:58	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 20:58	1
Trichlorofluoromethane	ND	H *	3.0	0.63	ug/L			10/15/20 20:58	1
1,1-Dichloroethene	ND	H * *1	4.0	0.28	ug/L			10/15/20 20:58	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 20:58	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 20:58	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 20:58	1
1,1-Dichloroethane	0.89	J H	2.0	0.22	ug/L			10/15/20 20:58	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 20:58	1
cis-1,2-Dichloroethene	37	H	3.0	0.69	ug/L			10/15/20 20:58	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 20:58	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 20:58	1
1,1,1-Trichloroethane	ND	H	3.0	0.39	ug/L			10/15/20 20:58	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 20:58	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 20:58	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 20:58	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 20:58	1
Trichloroethene	ND	H	3.0	0.26	ug/L			10/15/20 20:58	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 20:58	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 20:58	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 20:58	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 20:58	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 20:58	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 20:58	1
1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 20:58	1
Tetrachloroethene	ND	H	3.0	0.41	ug/L			10/15/20 20:58	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 20:58	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 20:58	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 20:58	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 20:58	1
1,1,1,2-Tetrachloroethane	ND	H *	2.0	0.18	ug/L			10/15/20 20:58	1
Ethylbenzene	78	H	3.0	0.50	ug/L			10/15/20 20:58	1
m-Xylene & p-Xylene	110	H	3.0	0.75	ug/L			10/15/20 20:58	1
o-Xylene	3.6	H	2.0	0.39	ug/L			10/15/20 20:58	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 20:58	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 20:58	1
Isopropylbenzene	0.73	J H	2.0	0.44	ug/L			10/15/20 20:58	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 20:58	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 20:58	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 20:58	1
N-Propylbenzene	0.72	J H	3.0	0.50	ug/L			10/15/20 20:58	1
2-Chlorotoluene	ND	H *	3.0	0.51	ug/L			10/15/20 20:58	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 20:58	1
1,3,5-Trimethylbenzene	14	H	3.0	0.55	ug/L			10/15/20 20:58	1
tert-Butylbenzene	1.1	J H	3.0	0.58	ug/L			10/15/20 20:58	1
1,2,4-Trimethylbenzene	18	H	3.0	0.61	ug/L			10/15/20 20:58	1

Eurolins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: BD-2-W-200916

Lab Sample ID: 580-97589-13

Date Collected: 09/16/20 00:01

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H	3.0	0.49	ug/L			10/15/20 20:58	1
4-Isopropyltoluene	2.6	J H	3.0	0.28	ug/L			10/15/20 20:58	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 20:58	1
1,4-Dichlorobenzene	2.7	J H	4.0	0.46	ug/L			10/15/20 20:58	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 20:58	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 20:58	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 20:58	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 20:58	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 20:58	1
Naphthalene	2.0	J H	4.0	0.93	ug/L			10/15/20 20:58	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 20:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		80 - 120		10/15/20 20:58	1
1,2-Dichloroethane-d4 (Surr)	106		80 - 126		10/15/20 20:58	1
4-Bromofluorobenzene (Surr)	113		80 - 120		10/15/20 20:58	1
Dibromofluoromethane (Surr)	101		80 - 120		10/15/20 20:58	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: EQB-1-W-200916

Lab Sample ID: 580-97589-14

Date Collected: 09/16/20 08:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H **1	10	0.53	ug/L			10/15/20 21:22	1
Chloromethane	ND	H *1	20	0.28	ug/L			10/15/20 21:22	1
Vinyl chloride	ND	H **1	1.0	0.22	ug/L			10/15/20 21:22	1
Bromomethane	ND	H *1	6.0	0.21	ug/L			10/15/20 21:22	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 21:22	1
Trichlorofluoromethane	ND	H *	3.0	0.63	ug/L			10/15/20 21:22	1
1,1-Dichloroethene	ND	H **1	4.0	0.28	ug/L			10/15/20 21:22	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 21:22	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 21:22	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 21:22	1
1,1-Dichloroethane	ND	H	2.0	0.22	ug/L			10/15/20 21:22	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 21:22	1
cis-1,2-Dichloroethene	ND	H	3.0	0.69	ug/L			10/15/20 21:22	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 21:22	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 21:22	1
1,1,1-Trichloroethane	ND	H	3.0	0.39	ug/L			10/15/20 21:22	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 21:22	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 21:22	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 21:22	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 21:22	1
Trichloroethene	ND	H	3.0	0.26	ug/L			10/15/20 21:22	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 21:22	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 21:22	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 21:22	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 21:22	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 21:22	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 21:22	1
1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 21:22	1
Tetrachloroethene	ND	H	3.0	0.41	ug/L			10/15/20 21:22	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 21:22	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 21:22	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 21:22	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 21:22	1
1,1,1,2-Tetrachloroethane	ND	H *	2.0	0.18	ug/L			10/15/20 21:22	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 21:22	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 21:22	1
o-Xylene	ND	H	2.0	0.39	ug/L			10/15/20 21:22	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 21:22	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 21:22	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 21:22	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 21:22	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 21:22	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 21:22	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 21:22	1
2-Chlorotoluene	ND	H *	3.0	0.51	ug/L			10/15/20 21:22	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 21:22	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 21:22	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 21:22	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 21:22	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: EQB-1-W-200916

Lab Sample ID: 580-97589-14

Date Collected: 09/16/20 08:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H	3.0	0.49	ug/L			10/15/20 21:22	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 21:22	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 21:22	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 21:22	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 21:22	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 21:22	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 21:22	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 21:22	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 21:22	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 21:22	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 21:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		10/15/20 21:22	1
1,2-Dichloroethane-d4 (Surr)	107		80 - 126		10/15/20 21:22	1
4-Bromofluorobenzene (Surr)	95		80 - 120		10/15/20 21:22	1
Dibromofluoromethane (Surr)	109		80 - 120		10/15/20 21:22	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: Trip Blank

Lab Sample ID: 580-97589-15

Date Collected: 09/16/20 00:01

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H **1	10	0.53	ug/L			10/15/20 14:44	1
Chloromethane	ND	H *1	20	0.28	ug/L			10/15/20 14:44	1
Vinyl chloride	ND	H **1	1.0	0.22	ug/L			10/15/20 14:44	1
Bromomethane	ND	H *1	6.0	0.21	ug/L			10/15/20 14:44	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 14:44	1
Trichlorofluoromethane	ND	H *	3.0	0.63	ug/L			10/15/20 14:44	1
1,1-Dichloroethene	ND	H **1	4.0	0.28	ug/L			10/15/20 14:44	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 14:44	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 14:44	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 14:44	1
1,1-Dichloroethane	ND	H	2.0	0.22	ug/L			10/15/20 14:44	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 14:44	1
cis-1,2-Dichloroethene	ND	H	3.0	0.69	ug/L			10/15/20 14:44	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 14:44	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 14:44	1
1,1,1-Trichloroethane	ND	H	3.0	0.39	ug/L			10/15/20 14:44	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 14:44	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 14:44	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 14:44	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 14:44	1
Trichloroethene	ND	H	3.0	0.26	ug/L			10/15/20 14:44	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 14:44	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 14:44	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 14:44	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 14:44	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 14:44	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 14:44	1
1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 14:44	1
Tetrachloroethene	ND	H	3.0	0.41	ug/L			10/15/20 14:44	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 14:44	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 14:44	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 14:44	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 14:44	1
1,1,1,2-Tetrachloroethane	ND	H *	2.0	0.18	ug/L			10/15/20 14:44	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 14:44	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 14:44	1
o-Xylene	ND	H	2.0	0.39	ug/L			10/15/20 14:44	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 14:44	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 14:44	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 14:44	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 14:44	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 14:44	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 14:44	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 14:44	1
2-Chlorotoluene	ND	H *	3.0	0.51	ug/L			10/15/20 14:44	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 14:44	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 14:44	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 14:44	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 14:44	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: Trip Blank

Lab Sample ID: 580-97589-15

Date Collected: 09/16/20 00:01

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H	3.0	0.49	ug/L			10/15/20 14:44	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 14:44	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 14:44	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 14:44	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 14:44	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 14:44	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 14:44	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 14:44	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 14:44	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 14:44	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		10/15/20 14:44	1
1,2-Dichloroethane-d4 (Surr)	103		80 - 126		10/15/20 14:44	1
4-Bromofluorobenzene (Surr)	93		80 - 120		10/15/20 14:44	1
Dibromofluoromethane (Surr)	99		80 - 120		10/15/20 14:44	1

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

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

Lab Sample ID: MB 580-340878/5
Matrix: Water
Analysis Batch: 340878

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Dichlorodifluoromethane	ND		10	0.53	ug/L			10/15/20 11:49	1
Chloromethane	ND		20	0.28	ug/L			10/15/20 11:49	1
Vinyl chloride	ND		1.0	0.22	ug/L			10/15/20 11:49	1
Bromomethane	ND		6.0	0.21	ug/L			10/15/20 11:49	1
Chloroethane	ND		5.0	0.35	ug/L			10/15/20 11:49	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			10/15/20 11:49	1
1,1-Dichloroethene	ND		4.0	0.28	ug/L			10/15/20 11:49	1
Methylene Chloride	ND		5.0	1.4	ug/L			10/15/20 11:49	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			10/15/20 11:49	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			10/15/20 11:49	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			10/15/20 11:49	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			10/15/20 11:49	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			10/15/20 11:49	1
Chlorobromomethane	ND		2.0	0.29	ug/L			10/15/20 11:49	1
Chloroform	ND		5.0	0.26	ug/L			10/15/20 11:49	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			10/15/20 11:49	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			10/15/20 11:49	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			10/15/20 11:49	1
Benzene	ND		3.0	0.24	ug/L			10/15/20 11:49	1
1,2-Dichloroethane	ND		2.0	0.42	ug/L			10/15/20 11:49	1
Trichloroethene	ND		3.0	0.26	ug/L			10/15/20 11:49	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			10/15/20 11:49	1
Dibromomethane	ND		2.0	0.34	ug/L			10/15/20 11:49	1
Dichlorobromomethane	ND		2.0	0.29	ug/L			10/15/20 11:49	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/15/20 11:49	1
Toluene	ND		2.0	0.39	ug/L			10/15/20 11:49	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			10/15/20 11:49	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			10/15/20 11:49	1
Tetrachloroethene	ND		3.0	0.41	ug/L			10/15/20 11:49	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			10/15/20 11:49	1
Chlorodibromomethane	ND		2.0	0.43	ug/L			10/15/20 11:49	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			10/15/20 11:49	1
Chlorobenzene	ND		2.0	0.44	ug/L			10/15/20 11:49	1
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			10/15/20 11:49	1
Ethylbenzene	ND		3.0	0.50	ug/L			10/15/20 11:49	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			10/15/20 11:49	1
o-Xylene	ND		2.0	0.39	ug/L			10/15/20 11:49	1
Styrene	ND		5.0	1.0	ug/L			10/15/20 11:49	1
Bromoform	ND		3.0	0.56	ug/L			10/15/20 11:49	1
Isopropylbenzene	ND		2.0	0.44	ug/L			10/15/20 11:49	1
Bromobenzene	ND		2.0	0.43	ug/L			10/15/20 11:49	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			10/15/20 11:49	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			10/15/20 11:49	1
N-Propylbenzene	ND		3.0	0.50	ug/L			10/15/20 11:49	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			10/15/20 11:49	1
4-Chlorotoluene	ND		2.0	0.38	ug/L			10/15/20 11:49	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			10/15/20 11:49	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			10/15/20 11:49	1

Eurofins TestAmerica, Seattle

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

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

Lab Sample ID: MB 580-340878/5
Matrix: Water
Analysis Batch: 340878

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			10/15/20 11:49	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			10/15/20 11:49	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			10/15/20 11:49	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			10/15/20 11:49	1
1,4-Dichlorobenzene	ND		4.0	0.46	ug/L			10/15/20 11:49	1
n-Butylbenzene	ND		3.0	0.44	ug/L			10/15/20 11:49	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			10/15/20 11:49	1
1,2-Dibromo-3-Chloropropane	ND		10	0.57	ug/L			10/15/20 11:49	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			10/15/20 11:49	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			10/15/20 11:49	1
Naphthalene	ND		4.0	0.93	ug/L			10/15/20 11:49	1
1,2,3-Trichlorobenzene	ND		5.0	0.43	ug/L			10/15/20 11:49	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	104		80 - 120		10/15/20 11:49	1
1,2-Dichloroethane-d4 (Surr)	101		80 - 126		10/15/20 11:49	1
4-Bromofluorobenzene (Surr)	99		80 - 120		10/15/20 11:49	1
Dibromofluoromethane (Surr)	107		80 - 120		10/15/20 11:49	1

Lab Sample ID: LCS 580-340878/6
Matrix: Water
Analysis Batch: 340878

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	10.0	9.82	J	ug/L		98	52 - 135
Vinyl chloride	10.0	11.4		ug/L		114	65 - 130
Bromomethane	10.0	10.4		ug/L		104	66 - 125
Chloroethane	10.0	10.6		ug/L		106	65 - 132
Trichlorofluoromethane	10.0	12.6		ug/L		126	64 - 130
1,1-Dichloroethene	10.0	11.9		ug/L		119	70 - 129
Methylene Chloride	10.0	10.4		ug/L		104	77 - 120
Methyl tert-butyl ether	10.0	10.1		ug/L		101	72 - 130
trans-1,2-Dichloroethene	10.0	10.5		ug/L		105	70 - 130
1,1-Dichloroethane	10.0	10.5		ug/L		105	81 - 129
2,2-Dichloropropane	10.0	12.4		ug/L		124	53 - 150
cis-1,2-Dichloroethene	10.0	10.4		ug/L		104	76 - 129
Chlorobromomethane	10.0	9.71		ug/L		97	78 - 120
Chloroform	10.0	10.5		ug/L		105	73 - 127
1,1,1-Trichloroethane	10.0	11.8		ug/L		118	74 - 130
Carbon tetrachloride	10.0	11.7		ug/L		117	72 - 129
1,1-Dichloropropene	10.0	11.8		ug/L		118	74 - 131
Benzene	10.0	10.5		ug/L		105	82 - 122
1,2-Dichloroethane	10.0	9.91		ug/L		99	76 - 126
Trichloroethene	10.0	10.8		ug/L		108	81 - 125
1,2-Dichloropropane	10.0	10.0		ug/L		100	80 - 126
Dibromomethane	10.0	10.8		ug/L		108	80 - 120
Dichlorobromomethane	10.0	10.1		ug/L		101	75 - 124

Eurofins TestAmerica, Seattle

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

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

Lab Sample ID: LCS 580-340878/6
Matrix: Water
Analysis Batch: 340878

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	10.0	10.2		ug/L		102	77 - 120
Toluene	10.0	11.0		ug/L		110	80 - 120
trans-1,3-Dichloropropene	10.0	10.8		ug/L		108	70 - 122
1,1,2-Trichloroethane	10.0	10.5		ug/L		105	80 - 121
Tetrachloroethene	10.0	11.2		ug/L		112	76 - 120
1,3-Dichloropropane	10.0	9.84		ug/L		98	79 - 120
Chlorodibromomethane	10.0	10.5		ug/L		105	60 - 125
Ethylene Dibromide	10.0	10.1		ug/L		101	79 - 120
Chlorobenzene	10.0	10.9		ug/L		109	80 - 120
1,1,1,2-Tetrachloroethane	10.0	11.7		ug/L		117	79 - 120
Ethylbenzene	10.0	10.8		ug/L		108	80 - 120
m-Xylene & p-Xylene	10.0	11.2		ug/L		112	80 - 120
o-Xylene	10.0	11.4		ug/L		114	80 - 125
Styrene	10.0	10.8		ug/L		108	76 - 127
Bromoform	10.0	9.97		ug/L		100	28 - 139
Isopropylbenzene	10.0	12.3		ug/L		123	75 - 129
Bromobenzene	10.0	10.2		ug/L		102	80 - 120
1,1,2,2-Tetrachloroethane	10.0	11.2		ug/L		112	74 - 124
1,2,3-Trichloropropane	10.0	10.4		ug/L		104	76 - 124
N-Propylbenzene	10.0	11.7		ug/L		117	80 - 128
2-Chlorotoluene	10.0	12.0		ug/L		120	80 - 120
4-Chlorotoluene	10.0	9.56		ug/L		96	80 - 120
1,3,5-Trimethylbenzene	10.0	12.3		ug/L		123	80 - 131
tert-Butylbenzene	10.0	11.1		ug/L		111	80 - 129
1,2,4-Trimethylbenzene	10.0	11.5		ug/L		115	80 - 131
sec-Butylbenzene	10.0	11.4		ug/L		114	78 - 131
4-Isopropyltoluene	10.0	11.5		ug/L		115	77 - 131
1,3-Dichlorobenzene	10.0	10.0		ug/L		100	69 - 127
1,4-Dichlorobenzene	10.0	10.7		ug/L		107	80 - 120
n-Butylbenzene	10.0	12.1	*	ug/L		121	78 - 120
1,2-Dichlorobenzene	10.0	10.9		ug/L		109	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	10.0		ug/L		100	65 - 125
1,2,4-Trichlorobenzene	10.0	9.84		ug/L		98	73 - 128
Hexachlorobutadiene	10.0	11.3		ug/L		113	74 - 125
Naphthalene	10.0	10.1		ug/L		101	75 - 134
1,2,3-Trichlorobenzene	10.0	10.7		ug/L		107	74 - 139

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	101		80 - 120
1,2-Dichloroethane-d4 (Surr)	97		80 - 126
4-Bromofluorobenzene (Surr)	95		80 - 120
Dibromofluoromethane (Surr)	96		80 - 120

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

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

Lab Sample ID: LCSD 580-340878/7
Matrix: Water
Analysis Batch: 340878

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
Dichlorodifluoromethane	10.0	13.7	**1	ug/L		137	47 - 133	16	15
Chloromethane	10.0	11.9	J *1	ug/L		119	52 - 135	19	14
Vinyl chloride	10.0	13.7	**1	ug/L		137	65 - 130	19	14
Bromomethane	10.0	12.2	*1	ug/L		122	66 - 125	17	14
Chloroethane	10.0	11.5		ug/L		115	65 - 132	9	18
Trichlorofluoromethane	10.0	13.9	*	ug/L		139	64 - 130	10	14
1,1-Dichloroethene	10.0	14.4	**1	ug/L		144	70 - 129	19	17
Methylene Chloride	10.0	11.2		ug/L		112	77 - 120	7	18
Methyl tert-butyl ether	10.0	11.3		ug/L		113	72 - 130	12	18
trans-1,2-Dichloroethene	10.0	11.4		ug/L		114	70 - 130	8	21
1,1-Dichloroethane	10.0	11.0		ug/L		110	81 - 129	5	15
2,2-Dichloropropane	10.0	14.1		ug/L		141	53 - 150	12	15
cis-1,2-Dichloroethene	10.0	10.9		ug/L		109	76 - 129	5	15
Chlorobromomethane	10.0	10.8		ug/L		108	78 - 120	10	13
Chloroform	10.0	11.1		ug/L		111	73 - 127	6	14
1,1,1-Trichloroethane	10.0	12.6		ug/L		126	74 - 130	6	11
Carbon tetrachloride	10.0	12.5		ug/L		125	72 - 129	7	11
1,1-Dichloropropene	10.0	11.8		ug/L		118	74 - 131	0	14
Benzene	10.0	11.2		ug/L		112	82 - 122	6	14
1,2-Dichloroethane	10.0	10.1		ug/L		101	76 - 126	2	11
Trichloroethene	10.0	11.3		ug/L		113	81 - 125	5	13
1,2-Dichloropropane	10.0	10.2		ug/L		102	80 - 126	2	14
Dibromomethane	10.0	10.2		ug/L		102	80 - 120	6	11
Dichlorobromomethane	10.0	10.7		ug/L		107	75 - 124	6	13
cis-1,3-Dichloropropene	10.0	10.8		ug/L		108	77 - 120	6	20
Toluene	10.0	11.6		ug/L		116	80 - 120	5	13
trans-1,3-Dichloropropene	10.0	10.6		ug/L		106	70 - 122	2	14
1,1,2-Trichloroethane	10.0	10.6		ug/L		106	80 - 121	1	14
Tetrachloroethene	10.0	11.3		ug/L		113	76 - 120	0	13
1,3-Dichloropropane	10.0	10.8		ug/L		108	79 - 120	9	13
Chlorodibromomethane	10.0	10.9		ug/L		109	60 - 125	4	13
Ethylene Dibromide	10.0	11.2		ug/L		112	79 - 120	10	12
Chlorobenzene	10.0	11.1		ug/L		111	80 - 120	2	10
1,1,1,2-Tetrachloroethane	10.0	12.4	*	ug/L		124	79 - 120	6	10
Ethylbenzene	10.0	11.3		ug/L		113	80 - 120	4	14
m-Xylene & p-Xylene	10.0	11.3		ug/L		113	80 - 120	1	14
o-Xylene	10.0	11.7		ug/L		117	80 - 125	2	16
Styrene	10.0	10.9		ug/L		109	76 - 127	1	16
Bromoform	10.0	11.3		ug/L		113	28 - 139	13	15
Isopropylbenzene	10.0	12.8		ug/L		128	75 - 129	4	12
Bromobenzene	10.0	10.7		ug/L		107	80 - 120	5	13
1,1,2,2-Tetrachloroethane	10.0	11.6		ug/L		116	74 - 124	3	18
1,2,3-Trichloropropane	10.0	10.8		ug/L		108	76 - 124	4	16
N-Propylbenzene	10.0	11.6		ug/L		116	80 - 128	0	13
2-Chlorotoluene	10.0	12.3	*	ug/L		123	80 - 120	2	15
4-Chlorotoluene	10.0	9.93		ug/L		99	80 - 120	4	14
1,3,5-Trimethylbenzene	10.0	12.5		ug/L		125	80 - 131	1	14
tert-Butylbenzene	10.0	11.7		ug/L		117	80 - 129	5	14

Eurofins TestAmerica, Seattle

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

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

Lab Sample ID: LCSD 580-340878/7
Matrix: Water
Analysis Batch: 340878

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
1,2,4-Trimethylbenzene	10.0	11.9		ug/L		119	80 - 131	3	16
sec-Butylbenzene	10.0	12.0		ug/L		120	78 - 131	5	15
4-Isopropyltoluene	10.0	11.7		ug/L		117	77 - 131	1	20
1,3-Dichlorobenzene	10.0	10.2		ug/L		102	69 - 127	1	14
1,4-Dichlorobenzene	10.0	10.7		ug/L		107	80 - 120	1	17
n-Butylbenzene	10.0	12.3 *		ug/L		123	78 - 120	2	14
1,2-Dichlorobenzene	10.0	11.1		ug/L		111	80 - 120	2	15
1,2-Dibromo-3-Chloropropane	10.0	11.9		ug/L		119	65 - 125	17	17
1,2,4-Trichlorobenzene	10.0	11.2		ug/L		112	73 - 128	13	20
Hexachlorobutadiene	10.0	11.9		ug/L		119	74 - 125	5	22
Naphthalene	10.0	11.6		ug/L		116	75 - 134	14	23
1,2,3-Trichlorobenzene	10.0	11.7		ug/L		117	74 - 139	10	26

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
Toluene-d8 (Surr)	104		80 - 120
1,2-Dichloroethane-d4 (Surr)	103		80 - 126
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	106		80 - 120

Lab Sample ID: 580-97589-9 MS
Matrix: Water
Analysis Batch: 340878

Client Sample ID: MW-9-W-200916
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	ND	H * *1	10.0	8.42	J H	ug/L		84	47 - 133
Chloromethane	ND	H *1	10.0	8.62	J H	ug/L		86	52 - 135
Vinyl chloride	ND	H * *1	10.0	9.56	H	ug/L		96	65 - 130
Bromomethane	ND	H *1	10.0	8.59	H	ug/L		86	66 - 125
Chloroethane	ND	H	10.0	8.21	H	ug/L		82	65 - 132
Trichlorofluoromethane	ND	H *	10.0	8.86	H	ug/L		89	64 - 130
1,1-Dichloroethene	ND	H * *1	10.0	9.09	H	ug/L		91	70 - 129
Methylene Chloride	ND	H	10.0	7.95	H	ug/L		79	77 - 120
Methyl tert-butyl ether	ND	H	10.0	7.31	H	ug/L		73	72 - 130
trans-1,2-Dichloroethene	ND	H	10.0	8.84	H	ug/L		88	70 - 130
1,1-Dichloroethane	ND	H F1	10.0	7.86	H F1	ug/L		79	81 - 129
2,2-Dichloropropane	ND	H	10.0	8.84	H	ug/L		88	53 - 150
cis-1,2-Dichloroethene	ND	H	10.0	7.85	H	ug/L		78	76 - 129
Chlorobromomethane	ND	H	10.0	7.89	H	ug/L		79	78 - 120
Chloroform	ND	H	10.0	7.98	H	ug/L		80	73 - 127
1,1,1-Trichloroethane	ND	H	10.0	8.72	H	ug/L		87	74 - 130
Carbon tetrachloride	ND	H	10.0	8.22	H	ug/L		82	72 - 129
1,1-Dichloropropene	ND	H	10.0	9.20	H	ug/L		92	74 - 131
Benzene	ND	H	10.0	8.30	H	ug/L		83	82 - 122
1,2-Dichloroethane	ND	H	10.0	8.40	H	ug/L		84	76 - 126
Trichloroethene	ND	H	10.0	8.33	H	ug/L		83	81 - 125
1,2-Dichloropropane	ND	H F1	10.0	8.03	H	ug/L		80	80 - 126
Dibromomethane	ND	H	10.0	8.41	H	ug/L		84	80 - 120
Dichlorobromomethane	ND	H	10.0	7.65	H	ug/L		76	75 - 124

Eurofins TestAmerica, Seattle

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

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

Lab Sample ID: 580-97589-9 MS

Client Sample ID: MW-9-W-200916

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 340878

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				
cis-1,3-Dichloropropene	ND	H	10.0	9.13	H	ug/L		91	77 - 120
Toluene	ND	H	10.0	8.58	H	ug/L		86	80 - 120
trans-1,3-Dichloropropene	ND	H	10.0	8.69	H	ug/L		87	70 - 122
1,1,2-Trichloroethane	ND	H F1	10.0	8.72	H	ug/L		87	80 - 121
Tetrachloroethene	ND	H	10.0	8.83	H	ug/L		88	76 - 120
1,3-Dichloropropane	ND	H	10.0	8.38	H	ug/L		84	79 - 120
Chlorodibromomethane	ND	H	10.0	8.37	H	ug/L		84	60 - 125
Ethylene Dibromide	ND	H	10.0	8.38	H	ug/L		84	79 - 120
Chlorobenzene	ND	H	10.0	8.51	H	ug/L		85	80 - 120
1,1,1,2-Tetrachloroethane	ND	H * F1	10.0	7.70	H F1	ug/L		77	79 - 120
Ethylbenzene	ND	H	10.0	8.73	H	ug/L		87	80 - 120
m-Xylene & p-Xylene	ND	H	10.0	8.63	H	ug/L		86	80 - 120
o-Xylene	ND	H F1	10.0	7.90	H F1	ug/L		79	80 - 125
Styrene	ND	H	10.0	8.38	H	ug/L		84	76 - 127
Bromoform	ND	H	10.0	7.91	H	ug/L		79	28 - 139
Isopropylbenzene	ND	H	10.0	8.43	H	ug/L		84	75 - 129
Bromobenzene	ND	H	10.0	8.60	H	ug/L		86	80 - 120
1,1,2,2-Tetrachloroethane	ND	H	10.0	8.86	H	ug/L		89	74 - 124
1,2,3-Trichloropropane	ND	H	10.0	8.49	H	ug/L		85	76 - 124
N-Propylbenzene	ND	H	10.0	8.84	H	ug/L		88	80 - 128
2-Chlorotoluene	ND	H *	10.0	8.97	H	ug/L		90	80 - 120
4-Chlorotoluene	ND	H	10.0	9.33	H	ug/L		93	80 - 120
1,3,5-Trimethylbenzene	ND	H	10.0	8.78	H	ug/L		88	80 - 131
tert-Butylbenzene	ND	H F1	10.0	8.27	H	ug/L		83	80 - 129
1,2,4-Trimethylbenzene	ND	H	10.0	8.42	H	ug/L		84	80 - 131
sec-Butylbenzene	ND	H	10.0	8.24	H	ug/L		82	78 - 131
4-Isopropyltoluene	ND	H	10.0	8.17	H	ug/L		82	77 - 131
1,3-Dichlorobenzene	ND	H	10.0	7.82	H	ug/L		78	69 - 127
1,4-Dichlorobenzene	ND	H F1	10.0	8.37	H	ug/L		84	80 - 120
n-Butylbenzene	ND	H *	10.0	8.80	H	ug/L		88	78 - 120
1,2-Dichlorobenzene	ND	H F1	10.0	7.87	H F1	ug/L		79	80 - 120
1,2-Dibromo-3-Chloropropane	ND	H	10.0	7.17	J H	ug/L		72	65 - 125
1,2,4-Trichlorobenzene	ND	H F1	10.0	6.42	H F1	ug/L		64	73 - 128
Hexachlorobutadiene	ND	H	10.0	9.67	H	ug/L		97	74 - 125
Naphthalene	ND	H F1	10.0	6.97	H F1	ug/L		70	75 - 134
1,2,3-Trichlorobenzene	ND	H F1	10.0	7.30	H F1	ug/L		73	74 - 139

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	100		80 - 120
1,2-Dichloroethane-d4 (Surr)	100		80 - 126
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	94		80 - 120

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

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

Lab Sample ID: 580-97589-9 MSD
Matrix: Water
Analysis Batch: 340878

Client Sample ID: MW-9-W-200916
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier		Result	Qualifier				Limits		Limit
Dichlorodifluoromethane	ND	H * * 1	10.0	7.95	J H	ug/L		80	47 - 133	6	15
Chloromethane	ND	H * 1	10.0	7.99	J H	ug/L		80	52 - 135	8	14
Vinyl chloride	ND	H * * 1	10.0	8.86	H	ug/L		89	65 - 130	8	14
Bromomethane	ND	H * 1	10.0	8.04	H	ug/L		80	66 - 125	7	14
Chloroethane	ND	H	10.0	8.24	H	ug/L		82	65 - 132	0	18
Trichlorofluoromethane	ND	H *	10.0	9.19	H	ug/L		92	64 - 130	4	14
1,1-Dichloroethene	ND	H * * 1	10.0	9.59	H	ug/L		96	70 - 129	5	17
Methylene Chloride	ND	H	10.0	8.39	H	ug/L		84	77 - 120	5	18
Methyl tert-butyl ether	ND	H	10.0	7.34	H	ug/L		73	72 - 130	0	18
trans-1,2-Dichloroethene	ND	H	10.0	9.23	H	ug/L		92	70 - 130	4	21
1,1-Dichloroethane	ND	H F 1	10.0	8.19	H	ug/L		82	81 - 129	4	15
2,2-Dichloropropane	ND	H	10.0	8.65	H	ug/L		86	53 - 150	2	15
cis-1,2-Dichloroethene	ND	H	10.0	8.98	H	ug/L		90	76 - 129	13	15
Chlorobromomethane	ND	H	10.0	9.02	H	ug/L		90	78 - 120	13	13
Chloroform	ND	H	10.0	8.69	H	ug/L		87	73 - 127	9	14
1,1,1-Trichloroethane	ND	H	10.0	8.90	H	ug/L		89	74 - 130	2	11
Carbon tetrachloride	ND	H	10.0	9.20	H	ug/L		92	72 - 129	11	11
1,1-Dichloropropene	ND	H	10.0	8.86	H	ug/L		89	74 - 131	4	14
Benzene	ND	H	10.0	8.44	H	ug/L		84	82 - 122	2	14
1,2-Dichloroethane	ND	H	10.0	8.31	H	ug/L		83	76 - 126	1	11
Trichloroethene	ND	H	10.0	8.73	H	ug/L		87	81 - 125	5	13
1,2-Dichloropropane	ND	H F 1	10.0	7.81	H F 1	ug/L		78	80 - 126	3	14
Dibromomethane	ND	H	10.0	8.16	H	ug/L		82	80 - 120	3	11
Dichlorobromomethane	ND	H	10.0	8.17	H	ug/L		82	75 - 124	7	13
cis-1,3-Dichloropropene	ND	H	10.0	8.00	H	ug/L		80	77 - 120	13	20
Toluene	ND	H	10.0	8.18	H	ug/L		82	80 - 120	5	13
trans-1,3-Dichloropropene	ND	H	10.0	7.92	H	ug/L		79	70 - 122	9	14
1,1,2-Trichloroethane	ND	H F 1	10.0	7.94	H F 1	ug/L		79	80 - 121	9	14
Tetrachloroethene	ND	H	10.0	8.28	H	ug/L		83	76 - 120	6	13
1,3-Dichloropropane	ND	H	10.0	8.11	H	ug/L		81	79 - 120	3	13
Chlorodibromomethane	ND	H	10.0	7.86	H	ug/L		79	60 - 125	6	13
Ethylene Dibromide	ND	H	10.0	8.22	H	ug/L		82	79 - 120	2	12
Chlorobenzene	ND	H	10.0	8.10	H	ug/L		81	80 - 120	5	10
1,1,1,2-Tetrachloroethane	ND	H * F 1	10.0	8.15	H	ug/L		81	79 - 120	6	10
Ethylbenzene	ND	H	10.0	8.08	H	ug/L		81	80 - 120	8	14
m-Xylene & p-Xylene	ND	H	10.0	8.27	H	ug/L		83	80 - 120	4	14
o-Xylene	ND	H F 1	10.0	8.02	H	ug/L		80	80 - 125	2	16
Styrene	ND	H	10.0	8.02	H	ug/L		80	76 - 127	4	16
Bromoform	ND	H	10.0	8.06	H	ug/L		81	28 - 139	2	15
Isopropylbenzene	ND	H	10.0	8.44	H	ug/L		84	75 - 129	0	12
Bromobenzene	ND	H	10.0	8.04	H	ug/L		80	80 - 120	7	13
1,1,2,2-Tetrachloroethane	ND	H	10.0	8.33	H	ug/L		83	74 - 124	6	18
1,2,3-Trichloropropane	ND	H	10.0	8.47	H	ug/L		85	76 - 124	0	16
N-Propylbenzene	ND	H	10.0	8.62	H	ug/L		86	80 - 128	2	13
2-Chlorotoluene	ND	H *	10.0	8.54	H	ug/L		85	80 - 120	5	15
4-Chlorotoluene	ND	H	10.0	8.41	H	ug/L		84	80 - 120	10	14
1,3,5-Trimethylbenzene	ND	H	10.0	8.57	H	ug/L		86	80 - 131	2	14
tert-Butylbenzene	ND	H F 1	10.0	7.72	H F 1	ug/L		77	80 - 129	7	14

Eurofins TestAmerica, Seattle

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

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

Lab Sample ID: 580-97589-9 MSD

Client Sample ID: MW-9-W-200916

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 340878

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier		Result	Qualifier				Limits		Limit
1,2,4-Trimethylbenzene	ND	H	10.0	8.20	H	ug/L		82	80 - 131	3	16
sec-Butylbenzene	ND	H	10.0	8.01	H	ug/L		80	78 - 131	3	15
4-Isopropyltoluene	ND	H	10.0	7.93	H	ug/L		79	77 - 131	3	20
1,3-Dichlorobenzene	ND	H	10.0	7.39	H	ug/L		74	69 - 127	6	14
1,4-Dichlorobenzene	ND	H F1	10.0	7.74	H F1	ug/L		77	80 - 120	8	17
n-Butylbenzene	ND	H *	10.0	7.85	H	ug/L		78	78 - 120	11	14
1,2-Dichlorobenzene	ND	H F1	10.0	7.93	H F1	ug/L		79	80 - 120	1	15
1,2-Dibromo-3-Chloropropane	ND	H	10.0	8.14	J H	ug/L		81	65 - 125	13	17
1,2,4-Trichlorobenzene	ND	H F1	10.0	6.58	H F1	ug/L		66	73 - 128	2	20
Hexachlorobutadiene	ND	H	10.0	7.88	H	ug/L		79	74 - 125	20	22
Naphthalene	ND	H F1	10.0	7.36	H F1	ug/L		74	75 - 134	5	23
1,2,3-Trichlorobenzene	ND	H F1	10.0	7.68	H	ug/L		77	74 - 139	5	26
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
<i>Toluene-d8 (Surr)</i>	103		80 - 120								
<i>1,2-Dichloroethane-d4 (Surr)</i>	101		80 - 126								
<i>4-Bromofluorobenzene (Surr)</i>	100		80 - 120								
<i>Dibromofluoromethane (Surr)</i>	102		80 - 120								

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-1-W-200916

Date Collected: 09/16/20 13:30

Date Received: 09/21/20 09:30

Lab Sample ID: 580-97589-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 15:09	JSM	TAL SEA

Client Sample ID: MW-2-W-200916

Date Collected: 09/16/20 14:00

Date Received: 09/21/20 09:30

Lab Sample ID: 580-97589-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 15:34	JSM	TAL SEA

Client Sample ID: MW-3-W-200916

Date Collected: 09/16/20 09:00

Date Received: 09/21/20 09:30

Lab Sample ID: 580-97589-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 15:58	JSM	TAL SEA

Client Sample ID: MW-4-W-200916

Date Collected: 09/16/20 08:50

Date Received: 09/21/20 09:30

Lab Sample ID: 580-97589-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 16:24	JSM	TAL SEA

Client Sample ID: MW-5-W-200916

Date Collected: 09/16/20 12:10

Date Received: 09/21/20 09:30

Lab Sample ID: 580-97589-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 16:49	JSM	TAL SEA

Client Sample ID: MW-6-W-200916

Date Collected: 09/16/20 10:15

Date Received: 09/21/20 09:30

Lab Sample ID: 580-97589-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 17:13	JSM	TAL SEA

Client Sample ID: MW-7-W-200916

Date Collected: 09/16/20 13:30

Date Received: 09/21/20 09:30

Lab Sample ID: 580-97589-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 17:39	JSM	TAL SEA

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-8-W-200916

Lab Sample ID: 580-97589-8

Date Collected: 09/16/20 11:10

Matrix: Water

Date Received: 09/21/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 18:03	JSM	TAL SEA

Client Sample ID: MW-9-W-200916

Lab Sample ID: 580-97589-9

Date Collected: 09/16/20 12:00

Matrix: Water

Date Received: 09/21/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 18:28	JSM	TAL SEA

Client Sample ID: MW-10-W-200916

Lab Sample ID: 580-97589-10

Date Collected: 09/16/20 11:00

Matrix: Water

Date Received: 09/21/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 19:43	JSM	TAL SEA

Client Sample ID: MW-11-W-200916

Lab Sample ID: 580-97589-11

Date Collected: 09/16/20 10:00

Matrix: Water

Date Received: 09/21/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 20:07	JSM	TAL SEA

Client Sample ID: BD-1-W-200916

Lab Sample ID: 580-97589-12

Date Collected: 09/16/20 00:01

Matrix: Water

Date Received: 09/21/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 20:32	JSM	TAL SEA

Client Sample ID: BD-2-W-200916

Lab Sample ID: 580-97589-13

Date Collected: 09/16/20 00:01

Matrix: Water

Date Received: 09/21/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 20:58	JSM	TAL SEA

Client Sample ID: EQB-1-W-200916

Lab Sample ID: 580-97589-14

Date Collected: 09/16/20 08:00

Matrix: Water

Date Received: 09/21/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 21:22	JSM	TAL SEA

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: Trip Blank

Lab Sample ID: 580-97589-15

Date Collected: 09/16/20 00:01

Matrix: Water

Date Received: 09/21/20 09:30

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Analysis	8260D		1	340878	10/15/20 14:44	JSM	TAL SEA

Laboratory References:

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



Accreditation/Certification Summary

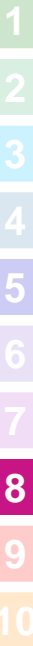
Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Laboratory: Eurofins TestAmerica, Seattle

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-024	02-19-22
ANAB	Dept. of Defense ELAP	L2236	01-19-22
ANAB	ISO/IEC 17025	L2236	01-19-22
California	State	2901	11-05-20
Montana (UST)	State	NA	04-13-21
Oregon	NELAP	WA100007	11-06-20
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-20-00031	02-10-23
Washington	State	C553	02-18-21



Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-97589-1	MW-1-W-200916	Water	09/16/20 13:30	09/21/20 09:30	
580-97589-2	MW-2-W-200916	Water	09/16/20 14:00	09/21/20 09:30	
580-97589-3	MW-3-W-200916	Water	09/16/20 09:00	09/21/20 09:30	
580-97589-4	MW-4-W-200916	Water	09/16/20 08:50	09/21/20 09:30	
580-97589-5	MW-5-W-200916	Water	09/16/20 12:10	09/21/20 09:30	
580-97589-6	MW-6-W-200916	Water	09/16/20 10:15	09/21/20 09:30	
580-97589-7	MW-7-W-200916	Water	09/16/20 13:30	09/21/20 09:30	
580-97589-8	MW-8-W-200916	Water	09/16/20 11:10	09/21/20 09:30	
580-97589-9	MW-9-W-200916	Water	09/16/20 12:00	09/21/20 09:30	
580-97589-10	MW-10-W-200916	Water	09/16/20 11:00	09/21/20 09:30	
580-97589-11	MW-11-W-200916	Water	09/16/20 10:00	09/21/20 09:30	
580-97589-12	BD-1-W-200916	Water	09/16/20 00:01	09/21/20 09:30	
580-97589-13	BD-2-W-200916	Water	09/16/20 00:01	09/21/20 09:30	
580-97589-14	EQB-1-W-200916	Water	09/16/20 08:00	09/21/20 09:30	
580-97589-15	Trip Blank	Water	09/16/20 00:01	09/21/20 09:30	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 580-97589-2

Login Number: 97589

List Source: Eurofins TestAmerica, Seattle

List Number: 1

Creator: Hobbs, Kenneth F

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	
Cooler Temperature 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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

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

Laboratory Job ID: 580-97589-2

Client Project/Site: Former TBE Machine Shop- GE Kenai

For:

ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Anna Hagemeister



*Authorized for release by:
10/20/2020 5:01:52 PM*

Nathan Lewis, Project Manager I
(253)922-2310
Nathan.Lewis@Eurofinset.com

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

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



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions	4
Client Sample Results	5
QC Sample Results	35
Chronicle	43
Certification Summary	46
Sample Summary	47
Receipt Checklists	48

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Job ID: 580-97589-2

Laboratory: Eurofins TestAmerica, Seattle

Narrative

Job Narrative 580-97589-2

Comments

No additional comments.

Receipt

The samples were received on 9/21/2020 9:30 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 14.3° C and 15.8° C.

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: MW-1-W-200916 (580-97589-1), MW-2-W-200916 (580-97589-2), MW-3-W-200916 (580-97589-3), MW-4-W-200916 (580-97589-4), MW-5-W-200916 (580-97589-5), MW-6-W-200916 (580-97589-6), MW-7-W-200916 (580-97589-7), MW-8-W-200916 (580-97589-8), MW-9-W-200916 (580-97589-9), MW-9-W-200916 (580-97589-9[MS]), MW-9-W-200916 (580-97589-9[MSD]), MW-10-W-200916 (580-97589-10), MW-11-W-200916 (580-97589-11), BD-1-W-200916 (580-97589-12), BD-2-W-200916 (580-97589-13), EQB-1-W-200916 (580-97589-14) and Trip Blank (580-97589-15).

GC/MS VOA

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 580-340878 recovered outside control limits for the following analytes: 1,1,1,2-Tetrachloroethane, 1,1-Dichloroethene, 2-Chlorotoluene, Dichlorodifluoromethane, n-Butylbenzene, Trichlorofluoromethane and Vinyl chloride. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 580-340878 recovered outside control limits for the following analytes: 1,1-Dichloroethene, Bromomethane, Chloromethane, Dichlorodifluoromethane and Vinyl chloride.

Method 8260D: The following samples were analyzed outside of analytical holding time due to sample login error: MW-1-W-200916 (580-97589-1), MW-2-W-200916 (580-97589-2), MW-3-W-200916 (580-97589-3), MW-4-W-200916 (580-97589-4), MW-5-W-200916 (580-97589-5), MW-6-W-200916 (580-97589-6), MW-7-W-200916 (580-97589-7), MW-8-W-200916 (580-97589-8), MW-9-W-200916 (580-97589-9), MW-9-W-200916 (580-97589-9[MS]), MW-9-W-200916 (580-97589-9[MSD]), MW-10-W-200916 (580-97589-10), MW-11-W-200916 (580-97589-11), BD-1-W-200916 (580-97589-12), BD-2-W-200916 (580-97589-13), EQB-1-W-200916 (580-97589-14) and Trip Blank (580-97589-15).

Method 8260D: Surrogate recovery for the following sample was outside control limits: MW-5-W-200916 (580-97589-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

VOA Prep

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

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate recovery exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-1-W-200916

Lab Sample ID: 580-97589-1

Date Collected: 09/16/20 13:30

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H * *1	10	0.53	ug/L			10/15/20 15:09	1
Chloromethane	ND	H *1	20	0.28	ug/L			10/15/20 15:09	1
Vinyl chloride	ND	H * *1	1.0	0.22	ug/L			10/15/20 15:09	1
Bromomethane	ND	H *1	6.0	0.21	ug/L			10/15/20 15:09	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 15:09	1
Trichlorofluoromethane	ND	H *	3.0	0.63	ug/L			10/15/20 15:09	1
1,1-Dichloroethene	ND	H * *1	4.0	0.28	ug/L			10/15/20 15:09	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 15:09	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 15:09	1
trans-1,2-Dichloroethene	0.40	J H	3.0	0.39	ug/L			10/15/20 15:09	1
1,1-Dichloroethane	4.7	H	2.0	0.22	ug/L			10/15/20 15:09	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 15:09	1
cis-1,2-Dichloroethene	110	H	3.0	0.69	ug/L			10/15/20 15:09	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 15:09	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 15:09	1
1,1,1-Trichloroethane	1.8	J H	3.0	0.39	ug/L			10/15/20 15:09	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 15:09	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 15:09	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 15:09	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 15:09	1
Trichloroethene	12	H	3.0	0.26	ug/L			10/15/20 15:09	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 15:09	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 15:09	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 15:09	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 15:09	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 15:09	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 15:09	1
1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 15:09	1
Tetrachloroethene	24	H	3.0	0.41	ug/L			10/15/20 15:09	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 15:09	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 15:09	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 15:09	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 15:09	1
1,1,1,2-Tetrachloroethane	ND	H *	2.0	0.18	ug/L			10/15/20 15:09	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 15:09	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 15:09	1
o-Xylene	ND	H	2.0	0.39	ug/L			10/15/20 15:09	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 15:09	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 15:09	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 15:09	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 15:09	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 15:09	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 15:09	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 15:09	1
2-Chlorotoluene	ND	H *	3.0	0.51	ug/L			10/15/20 15:09	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 15:09	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 15:09	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 15:09	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 15:09	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-1-W-200916

Lab Sample ID: 580-97589-1

Date Collected: 09/16/20 13:30

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.93	J H	3.0	0.49	ug/L			10/15/20 15:09	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 15:09	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 15:09	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 15:09	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 15:09	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 15:09	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 15:09	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 15:09	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 15:09	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 15:09	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 15:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		10/15/20 15:09	1
1,2-Dichloroethane-d4 (Surr)	104		80 - 126		10/15/20 15:09	1
4-Bromofluorobenzene (Surr)	90		80 - 120		10/15/20 15:09	1
Dibromofluoromethane (Surr)	102		80 - 120		10/15/20 15:09	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-2-W-200916

Lab Sample ID: 580-97589-2

Date Collected: 09/16/20 14:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H **1	10	0.53	ug/L			10/15/20 15:34	1
Chloromethane	ND	H *1	20	0.28	ug/L			10/15/20 15:34	1
Vinyl chloride	ND	H **1	1.0	0.22	ug/L			10/15/20 15:34	1
Bromomethane	ND	H *1	6.0	0.21	ug/L			10/15/20 15:34	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 15:34	1
Trichlorofluoromethane	ND	H *	3.0	0.63	ug/L			10/15/20 15:34	1
1,1-Dichloroethene	ND	H **1	4.0	0.28	ug/L			10/15/20 15:34	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 15:34	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 15:34	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 15:34	1
1,1-Dichloroethane	3.9	H	2.0	0.22	ug/L			10/15/20 15:34	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 15:34	1
cis-1,2-Dichloroethene	27	H	3.0	0.69	ug/L			10/15/20 15:34	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 15:34	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 15:34	1
1,1,1-Trichloroethane	ND	H	3.0	0.39	ug/L			10/15/20 15:34	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 15:34	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 15:34	1
Benzene	0.27	J H	3.0	0.24	ug/L			10/15/20 15:34	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 15:34	1
Trichloroethene	ND	H	3.0	0.26	ug/L			10/15/20 15:34	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 15:34	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 15:34	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 15:34	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 15:34	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 15:34	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 15:34	1
1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 15:34	1
Tetrachloroethene	ND	H	3.0	0.41	ug/L			10/15/20 15:34	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 15:34	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 15:34	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 15:34	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 15:34	1
1,1,1,2-Tetrachloroethane	ND	H *	2.0	0.18	ug/L			10/15/20 15:34	1
Ethylbenzene	6.8	H	3.0	0.50	ug/L			10/15/20 15:34	1
m-Xylene & p-Xylene	7.1	H	3.0	0.75	ug/L			10/15/20 15:34	1
o-Xylene	2.2	H	2.0	0.39	ug/L			10/15/20 15:34	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 15:34	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 15:34	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 15:34	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 15:34	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 15:34	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 15:34	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 15:34	1
2-Chlorotoluene	ND	H *	3.0	0.51	ug/L			10/15/20 15:34	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 15:34	1
1,3,5-Trimethylbenzene	0.58	J H	3.0	0.55	ug/L			10/15/20 15:34	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 15:34	1
1,2,4-Trimethylbenzene	1.8	J H	3.0	0.61	ug/L			10/15/20 15:34	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-2-W-200916

Lab Sample ID: 580-97589-2

Date Collected: 09/16/20 14:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.76	J H	3.0	0.49	ug/L			10/15/20 15:34	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 15:34	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 15:34	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 15:34	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 15:34	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 15:34	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 15:34	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 15:34	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 15:34	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 15:34	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 15:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	99		80 - 120		10/15/20 15:34	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	102		80 - 126		10/15/20 15:34	1
<i>4-Bromofluorobenzene (Surr)</i>	95		80 - 120		10/15/20 15:34	1
<i>Dibromofluoromethane (Surr)</i>	99		80 - 120		10/15/20 15:34	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-3-W-200916

Lab Sample ID: 580-97589-3

Date Collected: 09/16/20 09:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H **1	10	0.53	ug/L			10/15/20 15:58	1
Chloromethane	ND	H *1	20	0.28	ug/L			10/15/20 15:58	1
Vinyl chloride	ND	H **1	1.0	0.22	ug/L			10/15/20 15:58	1
Bromomethane	ND	H *1	6.0	0.21	ug/L			10/15/20 15:58	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 15:58	1
Trichlorofluoromethane	ND	H *	3.0	0.63	ug/L			10/15/20 15:58	1
1,1-Dichloroethene	ND	H **1	4.0	0.28	ug/L			10/15/20 15:58	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 15:58	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 15:58	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 15:58	1
1,1-Dichloroethane	4.1	H	2.0	0.22	ug/L			10/15/20 15:58	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 15:58	1
cis-1,2-Dichloroethene	5.1	H	3.0	0.69	ug/L			10/15/20 15:58	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 15:58	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 15:58	1
1,1,1-Trichloroethane	1.3	J H	3.0	0.39	ug/L			10/15/20 15:58	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 15:58	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 15:58	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 15:58	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 15:58	1
Trichloroethene	1.2	J H	3.0	0.26	ug/L			10/15/20 15:58	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 15:58	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 15:58	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 15:58	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 15:58	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 15:58	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 15:58	1
1,1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 15:58	1
Tetrachloroethene	2.2	J H	3.0	0.41	ug/L			10/15/20 15:58	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 15:58	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 15:58	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 15:58	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 15:58	1
1,1,1,2-Tetrachloroethane	ND	H *	2.0	0.18	ug/L			10/15/20 15:58	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 15:58	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 15:58	1
o-Xylene	ND	H	2.0	0.39	ug/L			10/15/20 15:58	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 15:58	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 15:58	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 15:58	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 15:58	1
1,1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 15:58	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 15:58	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 15:58	1
2-Chlorotoluene	ND	H *	3.0	0.51	ug/L			10/15/20 15:58	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 15:58	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 15:58	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 15:58	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 15:58	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-3-W-200916

Lab Sample ID: 580-97589-3

Date Collected: 09/16/20 09:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H	3.0	0.49	ug/L			10/15/20 15:58	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 15:58	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 15:58	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 15:58	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 15:58	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 15:58	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 15:58	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 15:58	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 15:58	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 15:58	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120		10/15/20 15:58	1
1,2-Dichloroethane-d4 (Surr)	102		80 - 126		10/15/20 15:58	1
4-Bromofluorobenzene (Surr)	104		80 - 120		10/15/20 15:58	1
Dibromofluoromethane (Surr)	100		80 - 120		10/15/20 15:58	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-4-W-200916

Lab Sample ID: 580-97589-4

Date Collected: 09/16/20 08:50

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H **1	10	0.53	ug/L			10/15/20 16:24	1
Chloromethane	ND	H *1	20	0.28	ug/L			10/15/20 16:24	1
Vinyl chloride	ND	H **1	1.0	0.22	ug/L			10/15/20 16:24	1
Bromomethane	ND	H *1	6.0	0.21	ug/L			10/15/20 16:24	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 16:24	1
Trichlorofluoromethane	ND	H *	3.0	0.63	ug/L			10/15/20 16:24	1
1,1-Dichloroethene	ND	H **1	4.0	0.28	ug/L			10/15/20 16:24	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 16:24	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 16:24	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 16:24	1
1,1-Dichloroethane	ND	H	2.0	0.22	ug/L			10/15/20 16:24	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 16:24	1
cis-1,2-Dichloroethene	ND	H	3.0	0.69	ug/L			10/15/20 16:24	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 16:24	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 16:24	1
1,1,1-Trichloroethane	2.6	J H	3.0	0.39	ug/L			10/15/20 16:24	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 16:24	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 16:24	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 16:24	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 16:24	1
Trichloroethene	4.6	H	3.0	0.26	ug/L			10/15/20 16:24	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 16:24	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 16:24	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 16:24	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 16:24	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 16:24	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 16:24	1
1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 16:24	1
Tetrachloroethene	14	H	3.0	0.41	ug/L			10/15/20 16:24	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 16:24	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 16:24	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 16:24	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 16:24	1
1,1,1,2-Tetrachloroethane	ND	H *	2.0	0.18	ug/L			10/15/20 16:24	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 16:24	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 16:24	1
o-Xylene	ND	H	2.0	0.39	ug/L			10/15/20 16:24	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 16:24	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 16:24	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 16:24	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 16:24	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 16:24	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 16:24	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 16:24	1
2-Chlorotoluene	ND	H *	3.0	0.51	ug/L			10/15/20 16:24	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 16:24	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 16:24	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 16:24	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 16:24	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-4-W-200916

Lab Sample ID: 580-97589-4

Date Collected: 09/16/20 08:50

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H	3.0	0.49	ug/L			10/15/20 16:24	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 16:24	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 16:24	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 16:24	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 16:24	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 16:24	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 16:24	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 16:24	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 16:24	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 16:24	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 16:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120		10/15/20 16:24	1
1,2-Dichloroethane-d4 (Surr)	105		80 - 126		10/15/20 16:24	1
4-Bromofluorobenzene (Surr)	94		80 - 120		10/15/20 16:24	1
Dibromofluoromethane (Surr)	99		80 - 120		10/15/20 16:24	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-5-W-200916

Lab Sample ID: 580-97589-5

Date Collected: 09/16/20 12:10

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H **1	10	0.53	ug/L			10/15/20 16:49	1
Chloromethane	ND	H *1	20	0.28	ug/L			10/15/20 16:49	1
Vinyl chloride	ND	H **1	1.0	0.22	ug/L			10/15/20 16:49	1
Bromomethane	ND	H *1	6.0	0.21	ug/L			10/15/20 16:49	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 16:49	1
Trichlorofluoromethane	ND	H *	3.0	0.63	ug/L			10/15/20 16:49	1
1,1-Dichloroethene	ND	H **1	4.0	0.28	ug/L			10/15/20 16:49	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 16:49	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 16:49	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 16:49	1
1,1-Dichloroethane	1.2	J H	2.0	0.22	ug/L			10/15/20 16:49	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 16:49	1
cis-1,2-Dichloroethene	50	H	3.0	0.69	ug/L			10/15/20 16:49	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 16:49	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 16:49	1
1,1,1-Trichloroethane	ND	H	3.0	0.39	ug/L			10/15/20 16:49	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 16:49	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 16:49	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 16:49	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 16:49	1
Trichloroethene	ND	H	3.0	0.26	ug/L			10/15/20 16:49	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 16:49	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 16:49	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 16:49	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 16:49	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 16:49	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 16:49	1
1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 16:49	1
Tetrachloroethene	ND	H	3.0	0.41	ug/L			10/15/20 16:49	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 16:49	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 16:49	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 16:49	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 16:49	1
1,1,1,2-Tetrachloroethane	ND	H *	2.0	0.18	ug/L			10/15/20 16:49	1
Ethylbenzene	89	H	3.0	0.50	ug/L			10/15/20 16:49	1
m-Xylene & p-Xylene	130	H	3.0	0.75	ug/L			10/15/20 16:49	1
o-Xylene	4.5	H	2.0	0.39	ug/L			10/15/20 16:49	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 16:49	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 16:49	1
Isopropylbenzene	1.0	J H	2.0	0.44	ug/L			10/15/20 16:49	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 16:49	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 16:49	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 16:49	1
N-Propylbenzene	0.73	J H	3.0	0.50	ug/L			10/15/20 16:49	1
2-Chlorotoluene	ND	H *	3.0	0.51	ug/L			10/15/20 16:49	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 16:49	1
1,3,5-Trimethylbenzene	15	H	3.0	0.55	ug/L			10/15/20 16:49	1
tert-Butylbenzene	1.2	J H	3.0	0.58	ug/L			10/15/20 16:49	1
1,2,4-Trimethylbenzene	20	H	3.0	0.61	ug/L			10/15/20 16:49	1

Eurolins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-5-W-200916

Lab Sample ID: 580-97589-5

Date Collected: 09/16/20 12:10

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H	3.0	0.49	ug/L			10/15/20 16:49	1
4-Isopropyltoluene	3.0	H	3.0	0.28	ug/L			10/15/20 16:49	1
1,3-Dichlorobenzene	0.33	J H	2.0	0.18	ug/L			10/15/20 16:49	1
1,4-Dichlorobenzene	2.4	J H	4.0	0.46	ug/L			10/15/20 16:49	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 16:49	1
1,2-Dichlorobenzene	1.2	J H	2.0	0.46	ug/L			10/15/20 16:49	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 16:49	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 16:49	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 16:49	1
Naphthalene	2.2	J H	4.0	0.93	ug/L			10/15/20 16:49	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 16:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	113		80 - 120		10/15/20 16:49	1
1,2-Dichloroethane-d4 (Surr)	103		80 - 126		10/15/20 16:49	1
4-Bromofluorobenzene (Surr)	128	X	80 - 120		10/15/20 16:49	1
Dibromofluoromethane (Surr)	113		80 - 120		10/15/20 16:49	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-6-W-200916

Lab Sample ID: 580-97589-6

Date Collected: 09/16/20 10:15

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H **1	10	0.53	ug/L			10/15/20 17:13	1
Chloromethane	ND	H *1	20	0.28	ug/L			10/15/20 17:13	1
Vinyl chloride	ND	H **1	1.0	0.22	ug/L			10/15/20 17:13	1
Bromomethane	ND	H *1	6.0	0.21	ug/L			10/15/20 17:13	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 17:13	1
Trichlorofluoromethane	ND	H *	3.0	0.63	ug/L			10/15/20 17:13	1
1,1-Dichloroethene	ND	H **1	4.0	0.28	ug/L			10/15/20 17:13	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 17:13	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 17:13	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 17:13	1
1,1-Dichloroethane	ND	H	2.0	0.22	ug/L			10/15/20 17:13	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 17:13	1
cis-1,2-Dichloroethene	ND	H	3.0	0.69	ug/L			10/15/20 17:13	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 17:13	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 17:13	1
1,1,1-Trichloroethane	ND	H	3.0	0.39	ug/L			10/15/20 17:13	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 17:13	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 17:13	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 17:13	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 17:13	1
Trichloroethene	ND	H	3.0	0.26	ug/L			10/15/20 17:13	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 17:13	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 17:13	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 17:13	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 17:13	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 17:13	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 17:13	1
1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 17:13	1
Tetrachloroethene	ND	H	3.0	0.41	ug/L			10/15/20 17:13	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 17:13	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 17:13	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 17:13	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 17:13	1
1,1,1,2-Tetrachloroethane	ND	H *	2.0	0.18	ug/L			10/15/20 17:13	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 17:13	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 17:13	1
o-Xylene	ND	H	2.0	0.39	ug/L			10/15/20 17:13	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 17:13	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 17:13	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 17:13	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 17:13	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 17:13	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 17:13	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 17:13	1
2-Chlorotoluene	ND	H *	3.0	0.51	ug/L			10/15/20 17:13	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 17:13	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 17:13	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 17:13	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 17:13	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-6-W-200916

Lab Sample ID: 580-97589-6

Date Collected: 09/16/20 10:15

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H	3.0	0.49	ug/L			10/15/20 17:13	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 17:13	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 17:13	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 17:13	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 17:13	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 17:13	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 17:13	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 17:13	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 17:13	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 17:13	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 17:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120		10/15/20 17:13	1
1,2-Dichloroethane-d4 (Surr)	104		80 - 126		10/15/20 17:13	1
4-Bromofluorobenzene (Surr)	97		80 - 120		10/15/20 17:13	1
Dibromofluoromethane (Surr)	108		80 - 120		10/15/20 17:13	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-7-W-200916

Lab Sample ID: 580-97589-7

Date Collected: 09/16/20 13:30

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H **1	10	0.53	ug/L			10/15/20 17:39	1
Chloromethane	ND	H *1	20	0.28	ug/L			10/15/20 17:39	1
Vinyl chloride	ND	H **1	1.0	0.22	ug/L			10/15/20 17:39	1
Bromomethane	ND	H *1	6.0	0.21	ug/L			10/15/20 17:39	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 17:39	1
Trichlorofluoromethane	ND	H *	3.0	0.63	ug/L			10/15/20 17:39	1
1,1-Dichloroethene	ND	H **1	4.0	0.28	ug/L			10/15/20 17:39	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 17:39	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 17:39	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 17:39	1
1,1-Dichloroethane	ND	H	2.0	0.22	ug/L			10/15/20 17:39	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 17:39	1
cis-1,2-Dichloroethene	ND	H	3.0	0.69	ug/L			10/15/20 17:39	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 17:39	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 17:39	1
1,1,1-Trichloroethane	0.70	J H	3.0	0.39	ug/L			10/15/20 17:39	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 17:39	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 17:39	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 17:39	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 17:39	1
Trichloroethene	0.86	J H	3.0	0.26	ug/L			10/15/20 17:39	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 17:39	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 17:39	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 17:39	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 17:39	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 17:39	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 17:39	1
1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 17:39	1
Tetrachloroethene	10	H	3.0	0.41	ug/L			10/15/20 17:39	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 17:39	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 17:39	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 17:39	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 17:39	1
1,1,1,2-Tetrachloroethane	ND	H *	2.0	0.18	ug/L			10/15/20 17:39	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 17:39	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 17:39	1
o-Xylene	ND	H	2.0	0.39	ug/L			10/15/20 17:39	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 17:39	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 17:39	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 17:39	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 17:39	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 17:39	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 17:39	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 17:39	1
2-Chlorotoluene	ND	H *	3.0	0.51	ug/L			10/15/20 17:39	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 17:39	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 17:39	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 17:39	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 17:39	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-7-W-200916

Lab Sample ID: 580-97589-7

Date Collected: 09/16/20 13:30

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H	3.0	0.49	ug/L			10/15/20 17:39	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 17:39	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 17:39	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 17:39	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 17:39	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 17:39	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 17:39	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 17:39	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 17:39	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 17:39	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		10/15/20 17:39	1
1,2-Dichloroethane-d4 (Surr)	107		80 - 126		10/15/20 17:39	1
4-Bromofluorobenzene (Surr)	95		80 - 120		10/15/20 17:39	1
Dibromofluoromethane (Surr)	99		80 - 120		10/15/20 17:39	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-8-W-200916

Lab Sample ID: 580-97589-8

Date Collected: 09/16/20 11:10

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H **1	10	0.53	ug/L			10/15/20 18:03	1
Chloromethane	ND	H *1	20	0.28	ug/L			10/15/20 18:03	1
Vinyl chloride	ND	H **1	1.0	0.22	ug/L			10/15/20 18:03	1
Bromomethane	ND	H *1	6.0	0.21	ug/L			10/15/20 18:03	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 18:03	1
Trichlorofluoromethane	ND	H *	3.0	0.63	ug/L			10/15/20 18:03	1
1,1-Dichloroethene	ND	H **1	4.0	0.28	ug/L			10/15/20 18:03	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 18:03	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 18:03	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 18:03	1
1,1-Dichloroethane	ND	H	2.0	0.22	ug/L			10/15/20 18:03	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 18:03	1
cis-1,2-Dichloroethene	ND	H	3.0	0.69	ug/L			10/15/20 18:03	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 18:03	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 18:03	1
1,1,1-Trichloroethane	ND	H	3.0	0.39	ug/L			10/15/20 18:03	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 18:03	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 18:03	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 18:03	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 18:03	1
Trichloroethene	ND	H	3.0	0.26	ug/L			10/15/20 18:03	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 18:03	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 18:03	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 18:03	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 18:03	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 18:03	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 18:03	1
1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 18:03	1
Tetrachloroethene	ND	H	3.0	0.41	ug/L			10/15/20 18:03	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 18:03	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 18:03	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 18:03	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 18:03	1
1,1,1,2-Tetrachloroethane	ND	H *	2.0	0.18	ug/L			10/15/20 18:03	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 18:03	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 18:03	1
o-Xylene	ND	H	2.0	0.39	ug/L			10/15/20 18:03	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 18:03	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 18:03	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 18:03	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 18:03	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 18:03	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 18:03	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 18:03	1
2-Chlorotoluene	ND	H *	3.0	0.51	ug/L			10/15/20 18:03	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 18:03	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 18:03	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 18:03	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 18:03	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-8-W-200916

Lab Sample ID: 580-97589-8

Date Collected: 09/16/20 11:10

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H	3.0	0.49	ug/L			10/15/20 18:03	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 18:03	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 18:03	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 18:03	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 18:03	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 18:03	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 18:03	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 18:03	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 18:03	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 18:03	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120		10/15/20 18:03	1
1,2-Dichloroethane-d4 (Surr)	106		80 - 126		10/15/20 18:03	1
4-Bromofluorobenzene (Surr)	102		80 - 120		10/15/20 18:03	1
Dibromofluoromethane (Surr)	103		80 - 120		10/15/20 18:03	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-9-W-200916

Lab Sample ID: 580-97589-9

Date Collected: 09/16/20 12:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H * *1	10	0.53	ug/L			10/15/20 18:28	1
Chloromethane	ND	H *1	20	0.28	ug/L			10/15/20 18:28	1
Vinyl chloride	ND	H * *1	1.0	0.22	ug/L			10/15/20 18:28	1
Bromomethane	ND	H *1	6.0	0.21	ug/L			10/15/20 18:28	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 18:28	1
Trichlorofluoromethane	ND	H *	3.0	0.63	ug/L			10/15/20 18:28	1
1,1-Dichloroethene	ND	H * *1	4.0	0.28	ug/L			10/15/20 18:28	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 18:28	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 18:28	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 18:28	1
1,1-Dichloroethane	ND	H F1	2.0	0.22	ug/L			10/15/20 18:28	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 18:28	1
cis-1,2-Dichloroethene	ND	H	3.0	0.69	ug/L			10/15/20 18:28	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 18:28	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 18:28	1
1,1,1-Trichloroethane	ND	H	3.0	0.39	ug/L			10/15/20 18:28	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 18:28	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 18:28	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 18:28	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 18:28	1
Trichloroethene	ND	H	3.0	0.26	ug/L			10/15/20 18:28	1
1,2-Dichloropropane	ND	H F1	1.0	0.18	ug/L			10/15/20 18:28	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 18:28	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 18:28	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 18:28	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 18:28	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 18:28	1
1,1,2-Trichloroethane	ND	H F1	1.0	0.24	ug/L			10/15/20 18:28	1
Tetrachloroethene	ND	H	3.0	0.41	ug/L			10/15/20 18:28	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 18:28	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 18:28	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 18:28	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 18:28	1
1,1,1,2-Tetrachloroethane	ND	H * F1	2.0	0.18	ug/L			10/15/20 18:28	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 18:28	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 18:28	1
o-Xylene	ND	H F1	2.0	0.39	ug/L			10/15/20 18:28	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 18:28	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 18:28	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 18:28	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 18:28	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 18:28	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 18:28	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 18:28	1
2-Chlorotoluene	ND	H *	3.0	0.51	ug/L			10/15/20 18:28	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 18:28	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 18:28	1
tert-Butylbenzene	ND	H F1	3.0	0.58	ug/L			10/15/20 18:28	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 18:28	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-9-W-200916

Lab Sample ID: 580-97589-9

Date Collected: 09/16/20 12:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H	3.0	0.49	ug/L			10/15/20 18:28	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 18:28	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 18:28	1
1,4-Dichlorobenzene	ND	H F1	4.0	0.46	ug/L			10/15/20 18:28	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 18:28	1
1,2-Dichlorobenzene	ND	H F1	2.0	0.46	ug/L			10/15/20 18:28	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 18:28	1
1,2,4-Trichlorobenzene	ND	H F1	2.0	0.33	ug/L			10/15/20 18:28	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 18:28	1
Naphthalene	ND	H F1	4.0	0.93	ug/L			10/15/20 18:28	1
1,2,3-Trichlorobenzene	ND	H F1	5.0	0.43	ug/L			10/15/20 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		10/15/20 18:28	1
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		10/15/20 18:28	1
4-Bromofluorobenzene (Surr)	95		80 - 120		10/15/20 18:28	1
Dibromofluoromethane (Surr)	97		80 - 120		10/15/20 18:28	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-10-W-200916

Lab Sample ID: 580-97589-10

Date Collected: 09/16/20 11:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H **1	10	0.53	ug/L			10/15/20 19:43	1
Chloromethane	ND	H *1	20	0.28	ug/L			10/15/20 19:43	1
Vinyl chloride	ND	H **1	1.0	0.22	ug/L			10/15/20 19:43	1
Bromomethane	ND	H *1	6.0	0.21	ug/L			10/15/20 19:43	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 19:43	1
Trichlorofluoromethane	ND	H *	3.0	0.63	ug/L			10/15/20 19:43	1
1,1-Dichloroethene	ND	H **1	4.0	0.28	ug/L			10/15/20 19:43	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 19:43	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 19:43	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 19:43	1
1,1-Dichloroethane	ND	H	2.0	0.22	ug/L			10/15/20 19:43	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 19:43	1
cis-1,2-Dichloroethene	ND	H	3.0	0.69	ug/L			10/15/20 19:43	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 19:43	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 19:43	1
1,1,1-Trichloroethane	ND	H	3.0	0.39	ug/L			10/15/20 19:43	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 19:43	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 19:43	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 19:43	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 19:43	1
Trichloroethene	ND	H	3.0	0.26	ug/L			10/15/20 19:43	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 19:43	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 19:43	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 19:43	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 19:43	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 19:43	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 19:43	1
1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 19:43	1
Tetrachloroethene	ND	H	3.0	0.41	ug/L			10/15/20 19:43	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 19:43	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 19:43	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 19:43	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 19:43	1
1,1,1,2-Tetrachloroethane	ND	H *	2.0	0.18	ug/L			10/15/20 19:43	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 19:43	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 19:43	1
o-Xylene	ND	H	2.0	0.39	ug/L			10/15/20 19:43	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 19:43	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 19:43	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 19:43	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 19:43	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 19:43	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 19:43	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 19:43	1
2-Chlorotoluene	ND	H *	3.0	0.51	ug/L			10/15/20 19:43	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 19:43	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 19:43	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 19:43	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 19:43	1

Eurolins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-10-W-200916

Lab Sample ID: 580-97589-10

Date Collected: 09/16/20 11:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H	3.0	0.49	ug/L			10/15/20 19:43	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 19:43	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 19:43	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 19:43	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 19:43	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 19:43	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 19:43	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 19:43	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 19:43	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 19:43	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120		10/15/20 19:43	1
1,2-Dichloroethane-d4 (Surr)	104		80 - 126		10/15/20 19:43	1
4-Bromofluorobenzene (Surr)	99		80 - 120		10/15/20 19:43	1
Dibromofluoromethane (Surr)	102		80 - 120		10/15/20 19:43	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-11-W-200916

Lab Sample ID: 580-97589-11

Date Collected: 09/16/20 10:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H **1	10	0.53	ug/L			10/15/20 20:07	1
Chloromethane	ND	H *1	20	0.28	ug/L			10/15/20 20:07	1
Vinyl chloride	ND	H **1	1.0	0.22	ug/L			10/15/20 20:07	1
Bromomethane	ND	H *1	6.0	0.21	ug/L			10/15/20 20:07	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 20:07	1
Trichlorofluoromethane	ND	H *	3.0	0.63	ug/L			10/15/20 20:07	1
1,1-Dichloroethene	ND	H **1	4.0	0.28	ug/L			10/15/20 20:07	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 20:07	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 20:07	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 20:07	1
1,1-Dichloroethane	ND	H	2.0	0.22	ug/L			10/15/20 20:07	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 20:07	1
cis-1,2-Dichloroethene	ND	H	3.0	0.69	ug/L			10/15/20 20:07	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 20:07	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 20:07	1
1,1,1-Trichloroethane	ND	H	3.0	0.39	ug/L			10/15/20 20:07	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 20:07	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 20:07	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 20:07	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 20:07	1
Trichloroethene	ND	H	3.0	0.26	ug/L			10/15/20 20:07	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 20:07	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 20:07	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 20:07	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 20:07	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 20:07	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 20:07	1
1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 20:07	1
Tetrachloroethene	ND	H	3.0	0.41	ug/L			10/15/20 20:07	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 20:07	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 20:07	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 20:07	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 20:07	1
1,1,1,2-Tetrachloroethane	ND	H *	2.0	0.18	ug/L			10/15/20 20:07	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 20:07	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 20:07	1
o-Xylene	ND	H	2.0	0.39	ug/L			10/15/20 20:07	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 20:07	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 20:07	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 20:07	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 20:07	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 20:07	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 20:07	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 20:07	1
2-Chlorotoluene	ND	H *	3.0	0.51	ug/L			10/15/20 20:07	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 20:07	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 20:07	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 20:07	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 20:07	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-11-W-200916

Lab Sample ID: 580-97589-11

Date Collected: 09/16/20 10:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H	3.0	0.49	ug/L			10/15/20 20:07	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 20:07	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 20:07	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 20:07	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 20:07	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 20:07	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 20:07	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 20:07	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 20:07	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 20:07	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 20:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120		10/15/20 20:07	1
1,2-Dichloroethane-d4 (Surr)	105		80 - 126		10/15/20 20:07	1
4-Bromofluorobenzene (Surr)	93		80 - 120		10/15/20 20:07	1
Dibromofluoromethane (Surr)	99		80 - 120		10/15/20 20:07	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: BD-1-W-200916

Lab Sample ID: 580-97589-12

Date Collected: 09/16/20 00:01

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H **1	10	0.53	ug/L			10/15/20 20:32	1
Chloromethane	ND	H *1	20	0.28	ug/L			10/15/20 20:32	1
Vinyl chloride	ND	H **1	1.0	0.22	ug/L			10/15/20 20:32	1
Bromomethane	ND	H *1	6.0	0.21	ug/L			10/15/20 20:32	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 20:32	1
Trichlorofluoromethane	ND	H *	3.0	0.63	ug/L			10/15/20 20:32	1
1,1-Dichloroethene	ND	H **1	4.0	0.28	ug/L			10/15/20 20:32	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 20:32	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 20:32	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 20:32	1
1,1-Dichloroethane	ND	H	2.0	0.22	ug/L			10/15/20 20:32	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 20:32	1
cis-1,2-Dichloroethene	ND	H	3.0	0.69	ug/L			10/15/20 20:32	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 20:32	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 20:32	1
1,1,1-Trichloroethane	2.4	J H	3.0	0.39	ug/L			10/15/20 20:32	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 20:32	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 20:32	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 20:32	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 20:32	1
Trichloroethene	4.1	H	3.0	0.26	ug/L			10/15/20 20:32	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 20:32	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 20:32	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 20:32	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 20:32	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 20:32	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 20:32	1
1,1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 20:32	1
Tetrachloroethene	14	H	3.0	0.41	ug/L			10/15/20 20:32	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 20:32	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 20:32	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 20:32	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 20:32	1
1,1,1,2-Tetrachloroethane	ND	H *	2.0	0.18	ug/L			10/15/20 20:32	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 20:32	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 20:32	1
o-Xylene	ND	H	2.0	0.39	ug/L			10/15/20 20:32	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 20:32	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 20:32	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 20:32	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 20:32	1
1,1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 20:32	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 20:32	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 20:32	1
2-Chlorotoluene	ND	H *	3.0	0.51	ug/L			10/15/20 20:32	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 20:32	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 20:32	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 20:32	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 20:32	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: BD-1-W-200916

Lab Sample ID: 580-97589-12

Date Collected: 09/16/20 00:01

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H	3.0	0.49	ug/L			10/15/20 20:32	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 20:32	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 20:32	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 20:32	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 20:32	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 20:32	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 20:32	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 20:32	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 20:32	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 20:32	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 20:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		10/15/20 20:32	1
1,2-Dichloroethane-d4 (Surr)	103		80 - 126		10/15/20 20:32	1
4-Bromofluorobenzene (Surr)	94		80 - 120		10/15/20 20:32	1
Dibromofluoromethane (Surr)	105		80 - 120		10/15/20 20:32	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: BD-2-W-200916

Lab Sample ID: 580-97589-13

Date Collected: 09/16/20 00:01

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H **1	10	0.53	ug/L			10/15/20 20:58	1
Chloromethane	ND	H *1	20	0.28	ug/L			10/15/20 20:58	1
Vinyl chloride	ND	H **1	1.0	0.22	ug/L			10/15/20 20:58	1
Bromomethane	ND	H *1	6.0	0.21	ug/L			10/15/20 20:58	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 20:58	1
Trichlorofluoromethane	ND	H *	3.0	0.63	ug/L			10/15/20 20:58	1
1,1-Dichloroethene	ND	H **1	4.0	0.28	ug/L			10/15/20 20:58	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 20:58	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 20:58	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 20:58	1
1,1-Dichloroethane	0.89	J H	2.0	0.22	ug/L			10/15/20 20:58	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 20:58	1
cis-1,2-Dichloroethene	37	H	3.0	0.69	ug/L			10/15/20 20:58	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 20:58	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 20:58	1
1,1,1-Trichloroethane	ND	H	3.0	0.39	ug/L			10/15/20 20:58	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 20:58	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 20:58	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 20:58	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 20:58	1
Trichloroethene	ND	H	3.0	0.26	ug/L			10/15/20 20:58	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 20:58	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 20:58	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 20:58	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 20:58	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 20:58	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 20:58	1
1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 20:58	1
Tetrachloroethene	ND	H	3.0	0.41	ug/L			10/15/20 20:58	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 20:58	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 20:58	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 20:58	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 20:58	1
1,1,1,2-Tetrachloroethane	ND	H *	2.0	0.18	ug/L			10/15/20 20:58	1
Ethylbenzene	78	H	3.0	0.50	ug/L			10/15/20 20:58	1
m-Xylene & p-Xylene	110	H	3.0	0.75	ug/L			10/15/20 20:58	1
o-Xylene	3.6	H	2.0	0.39	ug/L			10/15/20 20:58	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 20:58	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 20:58	1
Isopropylbenzene	0.73	J H	2.0	0.44	ug/L			10/15/20 20:58	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 20:58	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 20:58	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 20:58	1
N-Propylbenzene	0.72	J H	3.0	0.50	ug/L			10/15/20 20:58	1
2-Chlorotoluene	ND	H *	3.0	0.51	ug/L			10/15/20 20:58	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 20:58	1
1,3,5-Trimethylbenzene	14	H	3.0	0.55	ug/L			10/15/20 20:58	1
tert-Butylbenzene	1.1	J H	3.0	0.58	ug/L			10/15/20 20:58	1
1,2,4-Trimethylbenzene	18	H	3.0	0.61	ug/L			10/15/20 20:58	1

Eurolins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: BD-2-W-200916

Lab Sample ID: 580-97589-13

Date Collected: 09/16/20 00:01

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H	3.0	0.49	ug/L			10/15/20 20:58	1
4-Isopropyltoluene	2.6	J H	3.0	0.28	ug/L			10/15/20 20:58	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 20:58	1
1,4-Dichlorobenzene	2.7	J H	4.0	0.46	ug/L			10/15/20 20:58	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 20:58	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 20:58	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 20:58	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 20:58	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 20:58	1
Naphthalene	2.0	J H	4.0	0.93	ug/L			10/15/20 20:58	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 20:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		80 - 120		10/15/20 20:58	1
1,2-Dichloroethane-d4 (Surr)	106		80 - 126		10/15/20 20:58	1
4-Bromofluorobenzene (Surr)	113		80 - 120		10/15/20 20:58	1
Dibromofluoromethane (Surr)	101		80 - 120		10/15/20 20:58	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: EQB-1-W-200916

Lab Sample ID: 580-97589-14

Date Collected: 09/16/20 08:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H **1	10	0.53	ug/L			10/15/20 21:22	1
Chloromethane	ND	H *1	20	0.28	ug/L			10/15/20 21:22	1
Vinyl chloride	ND	H **1	1.0	0.22	ug/L			10/15/20 21:22	1
Bromomethane	ND	H *1	6.0	0.21	ug/L			10/15/20 21:22	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 21:22	1
Trichlorofluoromethane	ND	H *	3.0	0.63	ug/L			10/15/20 21:22	1
1,1-Dichloroethene	ND	H **1	4.0	0.28	ug/L			10/15/20 21:22	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 21:22	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 21:22	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 21:22	1
1,1-Dichloroethane	ND	H	2.0	0.22	ug/L			10/15/20 21:22	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 21:22	1
cis-1,2-Dichloroethene	ND	H	3.0	0.69	ug/L			10/15/20 21:22	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 21:22	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 21:22	1
1,1,1-Trichloroethane	ND	H	3.0	0.39	ug/L			10/15/20 21:22	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 21:22	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 21:22	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 21:22	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 21:22	1
Trichloroethene	ND	H	3.0	0.26	ug/L			10/15/20 21:22	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 21:22	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 21:22	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 21:22	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 21:22	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 21:22	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 21:22	1
1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 21:22	1
Tetrachloroethene	ND	H	3.0	0.41	ug/L			10/15/20 21:22	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 21:22	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 21:22	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 21:22	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 21:22	1
1,1,1,2-Tetrachloroethane	ND	H *	2.0	0.18	ug/L			10/15/20 21:22	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 21:22	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 21:22	1
o-Xylene	ND	H	2.0	0.39	ug/L			10/15/20 21:22	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 21:22	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 21:22	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 21:22	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 21:22	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 21:22	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 21:22	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 21:22	1
2-Chlorotoluene	ND	H *	3.0	0.51	ug/L			10/15/20 21:22	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 21:22	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 21:22	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 21:22	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 21:22	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: EQB-1-W-200916

Lab Sample ID: 580-97589-14

Date Collected: 09/16/20 08:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H	3.0	0.49	ug/L			10/15/20 21:22	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 21:22	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 21:22	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 21:22	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 21:22	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 21:22	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 21:22	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 21:22	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 21:22	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 21:22	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 21:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		10/15/20 21:22	1
1,2-Dichloroethane-d4 (Surr)	107		80 - 126		10/15/20 21:22	1
4-Bromofluorobenzene (Surr)	95		80 - 120		10/15/20 21:22	1
Dibromofluoromethane (Surr)	109		80 - 120		10/15/20 21:22	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: Trip Blank

Lab Sample ID: 580-97589-15

Date Collected: 09/16/20 00:01

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H **1	10	0.53	ug/L			10/15/20 14:44	1
Chloromethane	ND	H *1	20	0.28	ug/L			10/15/20 14:44	1
Vinyl chloride	ND	H **1	1.0	0.22	ug/L			10/15/20 14:44	1
Bromomethane	ND	H *1	6.0	0.21	ug/L			10/15/20 14:44	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 14:44	1
Trichlorofluoromethane	ND	H *	3.0	0.63	ug/L			10/15/20 14:44	1
1,1-Dichloroethene	ND	H **1	4.0	0.28	ug/L			10/15/20 14:44	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 14:44	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 14:44	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 14:44	1
1,1-Dichloroethane	ND	H	2.0	0.22	ug/L			10/15/20 14:44	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 14:44	1
cis-1,2-Dichloroethene	ND	H	3.0	0.69	ug/L			10/15/20 14:44	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 14:44	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 14:44	1
1,1,1-Trichloroethane	ND	H	3.0	0.39	ug/L			10/15/20 14:44	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 14:44	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 14:44	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 14:44	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 14:44	1
Trichloroethene	ND	H	3.0	0.26	ug/L			10/15/20 14:44	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 14:44	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 14:44	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 14:44	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 14:44	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 14:44	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 14:44	1
1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 14:44	1
Tetrachloroethene	ND	H	3.0	0.41	ug/L			10/15/20 14:44	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 14:44	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 14:44	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 14:44	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 14:44	1
1,1,1,2-Tetrachloroethane	ND	H *	2.0	0.18	ug/L			10/15/20 14:44	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 14:44	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 14:44	1
o-Xylene	ND	H	2.0	0.39	ug/L			10/15/20 14:44	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 14:44	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 14:44	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 14:44	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 14:44	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 14:44	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 14:44	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 14:44	1
2-Chlorotoluene	ND	H *	3.0	0.51	ug/L			10/15/20 14:44	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 14:44	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 14:44	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 14:44	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 14:44	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: Trip Blank

Lab Sample ID: 580-97589-15

Date Collected: 09/16/20 00:01

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H	3.0	0.49	ug/L			10/15/20 14:44	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 14:44	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 14:44	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 14:44	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 14:44	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 14:44	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 14:44	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 14:44	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 14:44	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 14:44	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		10/15/20 14:44	1
1,2-Dichloroethane-d4 (Surr)	103		80 - 126		10/15/20 14:44	1
4-Bromofluorobenzene (Surr)	93		80 - 120		10/15/20 14:44	1
Dibromofluoromethane (Surr)	99		80 - 120		10/15/20 14:44	1

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

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

Lab Sample ID: MB 580-340878/5
Matrix: Water
Analysis Batch: 340878

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Dichlorodifluoromethane	ND		10	0.53	ug/L			10/15/20 11:49	1
Chloromethane	ND		20	0.28	ug/L			10/15/20 11:49	1
Vinyl chloride	ND		1.0	0.22	ug/L			10/15/20 11:49	1
Bromomethane	ND		6.0	0.21	ug/L			10/15/20 11:49	1
Chloroethane	ND		5.0	0.35	ug/L			10/15/20 11:49	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			10/15/20 11:49	1
1,1-Dichloroethene	ND		4.0	0.28	ug/L			10/15/20 11:49	1
Methylene Chloride	ND		5.0	1.4	ug/L			10/15/20 11:49	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			10/15/20 11:49	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			10/15/20 11:49	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			10/15/20 11:49	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			10/15/20 11:49	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			10/15/20 11:49	1
Chlorobromomethane	ND		2.0	0.29	ug/L			10/15/20 11:49	1
Chloroform	ND		5.0	0.26	ug/L			10/15/20 11:49	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			10/15/20 11:49	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			10/15/20 11:49	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			10/15/20 11:49	1
Benzene	ND		3.0	0.24	ug/L			10/15/20 11:49	1
1,2-Dichloroethane	ND		2.0	0.42	ug/L			10/15/20 11:49	1
Trichloroethene	ND		3.0	0.26	ug/L			10/15/20 11:49	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			10/15/20 11:49	1
Dibromomethane	ND		2.0	0.34	ug/L			10/15/20 11:49	1
Dichlorobromomethane	ND		2.0	0.29	ug/L			10/15/20 11:49	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/15/20 11:49	1
Toluene	ND		2.0	0.39	ug/L			10/15/20 11:49	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			10/15/20 11:49	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			10/15/20 11:49	1
Tetrachloroethene	ND		3.0	0.41	ug/L			10/15/20 11:49	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			10/15/20 11:49	1
Chlorodibromomethane	ND		2.0	0.43	ug/L			10/15/20 11:49	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			10/15/20 11:49	1
Chlorobenzene	ND		2.0	0.44	ug/L			10/15/20 11:49	1
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			10/15/20 11:49	1
Ethylbenzene	ND		3.0	0.50	ug/L			10/15/20 11:49	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			10/15/20 11:49	1
o-Xylene	ND		2.0	0.39	ug/L			10/15/20 11:49	1
Styrene	ND		5.0	1.0	ug/L			10/15/20 11:49	1
Bromoform	ND		3.0	0.56	ug/L			10/15/20 11:49	1
Isopropylbenzene	ND		2.0	0.44	ug/L			10/15/20 11:49	1
Bromobenzene	ND		2.0	0.43	ug/L			10/15/20 11:49	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			10/15/20 11:49	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			10/15/20 11:49	1
N-Propylbenzene	ND		3.0	0.50	ug/L			10/15/20 11:49	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			10/15/20 11:49	1
4-Chlorotoluene	ND		2.0	0.38	ug/L			10/15/20 11:49	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			10/15/20 11:49	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			10/15/20 11:49	1

Eurofins TestAmerica, Seattle

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

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

Lab Sample ID: MB 580-340878/5
Matrix: Water
Analysis Batch: 340878

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			10/15/20 11:49	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			10/15/20 11:49	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			10/15/20 11:49	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			10/15/20 11:49	1
1,4-Dichlorobenzene	ND		4.0	0.46	ug/L			10/15/20 11:49	1
n-Butylbenzene	ND		3.0	0.44	ug/L			10/15/20 11:49	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			10/15/20 11:49	1
1,2-Dibromo-3-Chloropropane	ND		10	0.57	ug/L			10/15/20 11:49	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			10/15/20 11:49	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			10/15/20 11:49	1
Naphthalene	ND		4.0	0.93	ug/L			10/15/20 11:49	1
1,2,3-Trichlorobenzene	ND		5.0	0.43	ug/L			10/15/20 11:49	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	104		80 - 120		10/15/20 11:49	1
1,2-Dichloroethane-d4 (Surr)	101		80 - 126		10/15/20 11:49	1
4-Bromofluorobenzene (Surr)	99		80 - 120		10/15/20 11:49	1
Dibromofluoromethane (Surr)	107		80 - 120		10/15/20 11:49	1

Lab Sample ID: LCS 580-340878/6
Matrix: Water
Analysis Batch: 340878

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	10.0	9.82	J	ug/L		98	52 - 135
Vinyl chloride	10.0	11.4		ug/L		114	65 - 130
Bromomethane	10.0	10.4		ug/L		104	66 - 125
Chloroethane	10.0	10.6		ug/L		106	65 - 132
Trichlorofluoromethane	10.0	12.6		ug/L		126	64 - 130
1,1-Dichloroethene	10.0	11.9		ug/L		119	70 - 129
Methylene Chloride	10.0	10.4		ug/L		104	77 - 120
Methyl tert-butyl ether	10.0	10.1		ug/L		101	72 - 130
trans-1,2-Dichloroethene	10.0	10.5		ug/L		105	70 - 130
1,1-Dichloroethane	10.0	10.5		ug/L		105	81 - 129
2,2-Dichloropropane	10.0	12.4		ug/L		124	53 - 150
cis-1,2-Dichloroethene	10.0	10.4		ug/L		104	76 - 129
Chlorobromomethane	10.0	9.71		ug/L		97	78 - 120
Chloroform	10.0	10.5		ug/L		105	73 - 127
1,1,1-Trichloroethane	10.0	11.8		ug/L		118	74 - 130
Carbon tetrachloride	10.0	11.7		ug/L		117	72 - 129
1,1-Dichloropropene	10.0	11.8		ug/L		118	74 - 131
Benzene	10.0	10.5		ug/L		105	82 - 122
1,2-Dichloroethane	10.0	9.91		ug/L		99	76 - 126
Trichloroethene	10.0	10.8		ug/L		108	81 - 125
1,2-Dichloropropane	10.0	10.0		ug/L		100	80 - 126
Dibromomethane	10.0	10.8		ug/L		108	80 - 120
Dichlorobromomethane	10.0	10.1		ug/L		101	75 - 124

Eurofins TestAmerica, Seattle

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

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

Lab Sample ID: LCS 580-340878/6
Matrix: Water
Analysis Batch: 340878

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	10.0	10.2		ug/L		102	77 - 120
Toluene	10.0	11.0		ug/L		110	80 - 120
trans-1,3-Dichloropropene	10.0	10.8		ug/L		108	70 - 122
1,1,2-Trichloroethane	10.0	10.5		ug/L		105	80 - 121
Tetrachloroethene	10.0	11.2		ug/L		112	76 - 120
1,3-Dichloropropane	10.0	9.84		ug/L		98	79 - 120
Chlorodibromomethane	10.0	10.5		ug/L		105	60 - 125
Ethylene Dibromide	10.0	10.1		ug/L		101	79 - 120
Chlorobenzene	10.0	10.9		ug/L		109	80 - 120
1,1,1,2-Tetrachloroethane	10.0	11.7		ug/L		117	79 - 120
Ethylbenzene	10.0	10.8		ug/L		108	80 - 120
m-Xylene & p-Xylene	10.0	11.2		ug/L		112	80 - 120
o-Xylene	10.0	11.4		ug/L		114	80 - 125
Styrene	10.0	10.8		ug/L		108	76 - 127
Bromoform	10.0	9.97		ug/L		100	28 - 139
Isopropylbenzene	10.0	12.3		ug/L		123	75 - 129
Bromobenzene	10.0	10.2		ug/L		102	80 - 120
1,1,2,2-Tetrachloroethane	10.0	11.2		ug/L		112	74 - 124
1,2,3-Trichloropropane	10.0	10.4		ug/L		104	76 - 124
N-Propylbenzene	10.0	11.7		ug/L		117	80 - 128
2-Chlorotoluene	10.0	12.0		ug/L		120	80 - 120
4-Chlorotoluene	10.0	9.56		ug/L		96	80 - 120
1,3,5-Trimethylbenzene	10.0	12.3		ug/L		123	80 - 131
tert-Butylbenzene	10.0	11.1		ug/L		111	80 - 129
1,2,4-Trimethylbenzene	10.0	11.5		ug/L		115	80 - 131
sec-Butylbenzene	10.0	11.4		ug/L		114	78 - 131
4-Isopropyltoluene	10.0	11.5		ug/L		115	77 - 131
1,3-Dichlorobenzene	10.0	10.0		ug/L		100	69 - 127
1,4-Dichlorobenzene	10.0	10.7		ug/L		107	80 - 120
n-Butylbenzene	10.0	12.1	*	ug/L		121	78 - 120
1,2-Dichlorobenzene	10.0	10.9		ug/L		109	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	10.0		ug/L		100	65 - 125
1,2,4-Trichlorobenzene	10.0	9.84		ug/L		98	73 - 128
Hexachlorobutadiene	10.0	11.3		ug/L		113	74 - 125
Naphthalene	10.0	10.1		ug/L		101	75 - 134
1,2,3-Trichlorobenzene	10.0	10.7		ug/L		107	74 - 139

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	101		80 - 120
1,2-Dichloroethane-d4 (Surr)	97		80 - 126
4-Bromofluorobenzene (Surr)	95		80 - 120
Dibromofluoromethane (Surr)	96		80 - 120

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

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

Lab Sample ID: LCSD 580-340878/7
Matrix: Water
Analysis Batch: 340878

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
Dichlorodifluoromethane	10.0	13.7	**1	ug/L		137	47 - 133	16	15
Chloromethane	10.0	11.9	J *1	ug/L		119	52 - 135	19	14
Vinyl chloride	10.0	13.7	**1	ug/L		137	65 - 130	19	14
Bromomethane	10.0	12.2	*1	ug/L		122	66 - 125	17	14
Chloroethane	10.0	11.5		ug/L		115	65 - 132	9	18
Trichlorofluoromethane	10.0	13.9	*	ug/L		139	64 - 130	10	14
1,1-Dichloroethene	10.0	14.4	**1	ug/L		144	70 - 129	19	17
Methylene Chloride	10.0	11.2		ug/L		112	77 - 120	7	18
Methyl tert-butyl ether	10.0	11.3		ug/L		113	72 - 130	12	18
trans-1,2-Dichloroethene	10.0	11.4		ug/L		114	70 - 130	8	21
1,1-Dichloroethane	10.0	11.0		ug/L		110	81 - 129	5	15
2,2-Dichloropropane	10.0	14.1		ug/L		141	53 - 150	12	15
cis-1,2-Dichloroethene	10.0	10.9		ug/L		109	76 - 129	5	15
Chlorobromomethane	10.0	10.8		ug/L		108	78 - 120	10	13
Chloroform	10.0	11.1		ug/L		111	73 - 127	6	14
1,1,1-Trichloroethane	10.0	12.6		ug/L		126	74 - 130	6	11
Carbon tetrachloride	10.0	12.5		ug/L		125	72 - 129	7	11
1,1-Dichloropropene	10.0	11.8		ug/L		118	74 - 131	0	14
Benzene	10.0	11.2		ug/L		112	82 - 122	6	14
1,2-Dichloroethane	10.0	10.1		ug/L		101	76 - 126	2	11
Trichloroethene	10.0	11.3		ug/L		113	81 - 125	5	13
1,2-Dichloropropane	10.0	10.2		ug/L		102	80 - 126	2	14
Dibromomethane	10.0	10.2		ug/L		102	80 - 120	6	11
Dichlorobromomethane	10.0	10.7		ug/L		107	75 - 124	6	13
cis-1,3-Dichloropropene	10.0	10.8		ug/L		108	77 - 120	6	20
Toluene	10.0	11.6		ug/L		116	80 - 120	5	13
trans-1,3-Dichloropropene	10.0	10.6		ug/L		106	70 - 122	2	14
1,1,2-Trichloroethane	10.0	10.6		ug/L		106	80 - 121	1	14
Tetrachloroethene	10.0	11.3		ug/L		113	76 - 120	0	13
1,3-Dichloropropane	10.0	10.8		ug/L		108	79 - 120	9	13
Chlorodibromomethane	10.0	10.9		ug/L		109	60 - 125	4	13
Ethylene Dibromide	10.0	11.2		ug/L		112	79 - 120	10	12
Chlorobenzene	10.0	11.1		ug/L		111	80 - 120	2	10
1,1,1,2-Tetrachloroethane	10.0	12.4	*	ug/L		124	79 - 120	6	10
Ethylbenzene	10.0	11.3		ug/L		113	80 - 120	4	14
m-Xylene & p-Xylene	10.0	11.3		ug/L		113	80 - 120	1	14
o-Xylene	10.0	11.7		ug/L		117	80 - 125	2	16
Styrene	10.0	10.9		ug/L		109	76 - 127	1	16
Bromoform	10.0	11.3		ug/L		113	28 - 139	13	15
Isopropylbenzene	10.0	12.8		ug/L		128	75 - 129	4	12
Bromobenzene	10.0	10.7		ug/L		107	80 - 120	5	13
1,1,2,2-Tetrachloroethane	10.0	11.6		ug/L		116	74 - 124	3	18
1,2,3-Trichloropropane	10.0	10.8		ug/L		108	76 - 124	4	16
N-Propylbenzene	10.0	11.6		ug/L		116	80 - 128	0	13
2-Chlorotoluene	10.0	12.3	*	ug/L		123	80 - 120	2	15
4-Chlorotoluene	10.0	9.93		ug/L		99	80 - 120	4	14
1,3,5-Trimethylbenzene	10.0	12.5		ug/L		125	80 - 131	1	14
tert-Butylbenzene	10.0	11.7		ug/L		117	80 - 129	5	14

Eurofins TestAmerica, Seattle

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

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

Lab Sample ID: LCSD 580-340878/7
Matrix: Water
Analysis Batch: 340878

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
1,2,4-Trimethylbenzene	10.0	11.9		ug/L		119	80 - 131	3	16
sec-Butylbenzene	10.0	12.0		ug/L		120	78 - 131	5	15
4-Isopropyltoluene	10.0	11.7		ug/L		117	77 - 131	1	20
1,3-Dichlorobenzene	10.0	10.2		ug/L		102	69 - 127	1	14
1,4-Dichlorobenzene	10.0	10.7		ug/L		107	80 - 120	1	17
n-Butylbenzene	10.0	12.3 *		ug/L		123	78 - 120	2	14
1,2-Dichlorobenzene	10.0	11.1		ug/L		111	80 - 120	2	15
1,2-Dibromo-3-Chloropropane	10.0	11.9		ug/L		119	65 - 125	17	17
1,2,4-Trichlorobenzene	10.0	11.2		ug/L		112	73 - 128	13	20
Hexachlorobutadiene	10.0	11.9		ug/L		119	74 - 125	5	22
Naphthalene	10.0	11.6		ug/L		116	75 - 134	14	23
1,2,3-Trichlorobenzene	10.0	11.7		ug/L		117	74 - 139	10	26

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
Toluene-d8 (Surr)	104		80 - 120
1,2-Dichloroethane-d4 (Surr)	103		80 - 126
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	106		80 - 120

Lab Sample ID: 580-97589-9 MS
Matrix: Water
Analysis Batch: 340878

Client Sample ID: MW-9-W-200916
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	ND	H * *1	10.0	8.42	J H	ug/L		84	47 - 133
Chloromethane	ND	H *1	10.0	8.62	J H	ug/L		86	52 - 135
Vinyl chloride	ND	H * *1	10.0	9.56	H	ug/L		96	65 - 130
Bromomethane	ND	H *1	10.0	8.59	H	ug/L		86	66 - 125
Chloroethane	ND	H	10.0	8.21	H	ug/L		82	65 - 132
Trichlorofluoromethane	ND	H *	10.0	8.86	H	ug/L		89	64 - 130
1,1-Dichloroethene	ND	H * *1	10.0	9.09	H	ug/L		91	70 - 129
Methylene Chloride	ND	H	10.0	7.95	H	ug/L		79	77 - 120
Methyl tert-butyl ether	ND	H	10.0	7.31	H	ug/L		73	72 - 130
trans-1,2-Dichloroethene	ND	H	10.0	8.84	H	ug/L		88	70 - 130
1,1-Dichloroethane	ND	H F1	10.0	7.86	H F1	ug/L		79	81 - 129
2,2-Dichloropropane	ND	H	10.0	8.84	H	ug/L		88	53 - 150
cis-1,2-Dichloroethene	ND	H	10.0	7.85	H	ug/L		78	76 - 129
Chlorobromomethane	ND	H	10.0	7.89	H	ug/L		79	78 - 120
Chloroform	ND	H	10.0	7.98	H	ug/L		80	73 - 127
1,1,1-Trichloroethane	ND	H	10.0	8.72	H	ug/L		87	74 - 130
Carbon tetrachloride	ND	H	10.0	8.22	H	ug/L		82	72 - 129
1,1-Dichloropropene	ND	H	10.0	9.20	H	ug/L		92	74 - 131
Benzene	ND	H	10.0	8.30	H	ug/L		83	82 - 122
1,2-Dichloroethane	ND	H	10.0	8.40	H	ug/L		84	76 - 126
Trichloroethene	ND	H	10.0	8.33	H	ug/L		83	81 - 125
1,2-Dichloropropane	ND	H F1	10.0	8.03	H	ug/L		80	80 - 126
Dibromomethane	ND	H	10.0	8.41	H	ug/L		84	80 - 120
Dichlorobromomethane	ND	H	10.0	7.65	H	ug/L		76	75 - 124

Eurofins TestAmerica, Seattle

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

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

Lab Sample ID: 580-97589-9 MS

Client Sample ID: MW-9-W-200916

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 340878

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				
cis-1,3-Dichloropropene	ND	H	10.0	9.13	H	ug/L		91	77 - 120
Toluene	ND	H	10.0	8.58	H	ug/L		86	80 - 120
trans-1,3-Dichloropropene	ND	H	10.0	8.69	H	ug/L		87	70 - 122
1,1,2-Trichloroethane	ND	H F1	10.0	8.72	H	ug/L		87	80 - 121
Tetrachloroethene	ND	H	10.0	8.83	H	ug/L		88	76 - 120
1,3-Dichloropropane	ND	H	10.0	8.38	H	ug/L		84	79 - 120
Chlorodibromomethane	ND	H	10.0	8.37	H	ug/L		84	60 - 125
Ethylene Dibromide	ND	H	10.0	8.38	H	ug/L		84	79 - 120
Chlorobenzene	ND	H	10.0	8.51	H	ug/L		85	80 - 120
1,1,1,2-Tetrachloroethane	ND	H * F1	10.0	7.70	H F1	ug/L		77	79 - 120
Ethylbenzene	ND	H	10.0	8.73	H	ug/L		87	80 - 120
m-Xylene & p-Xylene	ND	H	10.0	8.63	H	ug/L		86	80 - 120
o-Xylene	ND	H F1	10.0	7.90	H F1	ug/L		79	80 - 125
Styrene	ND	H	10.0	8.38	H	ug/L		84	76 - 127
Bromoform	ND	H	10.0	7.91	H	ug/L		79	28 - 139
Isopropylbenzene	ND	H	10.0	8.43	H	ug/L		84	75 - 129
Bromobenzene	ND	H	10.0	8.60	H	ug/L		86	80 - 120
1,1,2,2-Tetrachloroethane	ND	H	10.0	8.86	H	ug/L		89	74 - 124
1,2,3-Trichloropropane	ND	H	10.0	8.49	H	ug/L		85	76 - 124
N-Propylbenzene	ND	H	10.0	8.84	H	ug/L		88	80 - 128
2-Chlorotoluene	ND	H *	10.0	8.97	H	ug/L		90	80 - 120
4-Chlorotoluene	ND	H	10.0	9.33	H	ug/L		93	80 - 120
1,3,5-Trimethylbenzene	ND	H	10.0	8.78	H	ug/L		88	80 - 131
tert-Butylbenzene	ND	H F1	10.0	8.27	H	ug/L		83	80 - 129
1,2,4-Trimethylbenzene	ND	H	10.0	8.42	H	ug/L		84	80 - 131
sec-Butylbenzene	ND	H	10.0	8.24	H	ug/L		82	78 - 131
4-Isopropyltoluene	ND	H	10.0	8.17	H	ug/L		82	77 - 131
1,3-Dichlorobenzene	ND	H	10.0	7.82	H	ug/L		78	69 - 127
1,4-Dichlorobenzene	ND	H F1	10.0	8.37	H	ug/L		84	80 - 120
n-Butylbenzene	ND	H *	10.0	8.80	H	ug/L		88	78 - 120
1,2-Dichlorobenzene	ND	H F1	10.0	7.87	H F1	ug/L		79	80 - 120
1,2-Dibromo-3-Chloropropane	ND	H	10.0	7.17	J H	ug/L		72	65 - 125
1,2,4-Trichlorobenzene	ND	H F1	10.0	6.42	H F1	ug/L		64	73 - 128
Hexachlorobutadiene	ND	H	10.0	9.67	H	ug/L		97	74 - 125
Naphthalene	ND	H F1	10.0	6.97	H F1	ug/L		70	75 - 134
1,2,3-Trichlorobenzene	ND	H F1	10.0	7.30	H F1	ug/L		73	74 - 139

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	100		80 - 120
1,2-Dichloroethane-d4 (Surr)	100		80 - 126
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	94		80 - 120

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

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

Lab Sample ID: 580-97589-9 MSD
Matrix: Water
Analysis Batch: 340878

Client Sample ID: MW-9-W-200916
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier		Added	Result				Qualifier		Limits
Dichlorodifluoromethane	ND	H * * 1	10.0	7.95	J H	ug/L		80	47 - 133	6	15
Chloromethane	ND	H * 1	10.0	7.99	J H	ug/L		80	52 - 135	8	14
Vinyl chloride	ND	H * * 1	10.0	8.86	H	ug/L		89	65 - 130	8	14
Bromomethane	ND	H * 1	10.0	8.04	H	ug/L		80	66 - 125	7	14
Chloroethane	ND	H	10.0	8.24	H	ug/L		82	65 - 132	0	18
Trichlorofluoromethane	ND	H *	10.0	9.19	H	ug/L		92	64 - 130	4	14
1,1-Dichloroethene	ND	H * * 1	10.0	9.59	H	ug/L		96	70 - 129	5	17
Methylene Chloride	ND	H	10.0	8.39	H	ug/L		84	77 - 120	5	18
Methyl tert-butyl ether	ND	H	10.0	7.34	H	ug/L		73	72 - 130	0	18
trans-1,2-Dichloroethene	ND	H	10.0	9.23	H	ug/L		92	70 - 130	4	21
1,1-Dichloroethane	ND	H F 1	10.0	8.19	H	ug/L		82	81 - 129	4	15
2,2-Dichloropropane	ND	H	10.0	8.65	H	ug/L		86	53 - 150	2	15
cis-1,2-Dichloroethene	ND	H	10.0	8.98	H	ug/L		90	76 - 129	13	15
Chlorobromomethane	ND	H	10.0	9.02	H	ug/L		90	78 - 120	13	13
Chloroform	ND	H	10.0	8.69	H	ug/L		87	73 - 127	9	14
1,1,1-Trichloroethane	ND	H	10.0	8.90	H	ug/L		89	74 - 130	2	11
Carbon tetrachloride	ND	H	10.0	9.20	H	ug/L		92	72 - 129	11	11
1,1-Dichloropropene	ND	H	10.0	8.86	H	ug/L		89	74 - 131	4	14
Benzene	ND	H	10.0	8.44	H	ug/L		84	82 - 122	2	14
1,2-Dichloroethane	ND	H	10.0	8.31	H	ug/L		83	76 - 126	1	11
Trichloroethene	ND	H	10.0	8.73	H	ug/L		87	81 - 125	5	13
1,2-Dichloropropane	ND	H F 1	10.0	7.81	H F 1	ug/L		78	80 - 126	3	14
Dibromomethane	ND	H	10.0	8.16	H	ug/L		82	80 - 120	3	11
Dichlorobromomethane	ND	H	10.0	8.17	H	ug/L		82	75 - 124	7	13
cis-1,3-Dichloropropene	ND	H	10.0	8.00	H	ug/L		80	77 - 120	13	20
Toluene	ND	H	10.0	8.18	H	ug/L		82	80 - 120	5	13
trans-1,3-Dichloropropene	ND	H	10.0	7.92	H	ug/L		79	70 - 122	9	14
1,1,2-Trichloroethane	ND	H F 1	10.0	7.94	H F 1	ug/L		79	80 - 121	9	14
Tetrachloroethene	ND	H	10.0	8.28	H	ug/L		83	76 - 120	6	13
1,3-Dichloropropane	ND	H	10.0	8.11	H	ug/L		81	79 - 120	3	13
Chlorodibromomethane	ND	H	10.0	7.86	H	ug/L		79	60 - 125	6	13
Ethylene Dibromide	ND	H	10.0	8.22	H	ug/L		82	79 - 120	2	12
Chlorobenzene	ND	H	10.0	8.10	H	ug/L		81	80 - 120	5	10
1,1,1,2-Tetrachloroethane	ND	H * F 1	10.0	8.15	H	ug/L		81	79 - 120	6	10
Ethylbenzene	ND	H	10.0	8.08	H	ug/L		81	80 - 120	8	14
m-Xylene & p-Xylene	ND	H	10.0	8.27	H	ug/L		83	80 - 120	4	14
o-Xylene	ND	H F 1	10.0	8.02	H	ug/L		80	80 - 125	2	16
Styrene	ND	H	10.0	8.02	H	ug/L		80	76 - 127	4	16
Bromoform	ND	H	10.0	8.06	H	ug/L		81	28 - 139	2	15
Isopropylbenzene	ND	H	10.0	8.44	H	ug/L		84	75 - 129	0	12
Bromobenzene	ND	H	10.0	8.04	H	ug/L		80	80 - 120	7	13
1,1,2,2-Tetrachloroethane	ND	H	10.0	8.33	H	ug/L		83	74 - 124	6	18
1,2,3-Trichloropropane	ND	H	10.0	8.47	H	ug/L		85	76 - 124	0	16
N-Propylbenzene	ND	H	10.0	8.62	H	ug/L		86	80 - 128	2	13
2-Chlorotoluene	ND	H *	10.0	8.54	H	ug/L		85	80 - 120	5	15
4-Chlorotoluene	ND	H	10.0	8.41	H	ug/L		84	80 - 120	10	14
1,3,5-Trimethylbenzene	ND	H	10.0	8.57	H	ug/L		86	80 - 131	2	14
tert-Butylbenzene	ND	H F 1	10.0	7.72	H F 1	ug/L		77	80 - 129	7	14

Eurofins TestAmerica, Seattle

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

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

Lab Sample ID: 580-97589-9 MSD
Matrix: Water
Analysis Batch: 340878

Client Sample ID: MW-9-W-200916
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier		Result	Qualifier				Limits		
1,2,4-Trimethylbenzene	ND	H	10.0	8.20	H	ug/L		82	80 - 131	3	16
sec-Butylbenzene	ND	H	10.0	8.01	H	ug/L		80	78 - 131	3	15
4-Isopropyltoluene	ND	H	10.0	7.93	H	ug/L		79	77 - 131	3	20
1,3-Dichlorobenzene	ND	H	10.0	7.39	H	ug/L		74	69 - 127	6	14
1,4-Dichlorobenzene	ND	H F1	10.0	7.74	H F1	ug/L		77	80 - 120	8	17
n-Butylbenzene	ND	H *	10.0	7.85	H	ug/L		78	78 - 120	11	14
1,2-Dichlorobenzene	ND	H F1	10.0	7.93	H F1	ug/L		79	80 - 120	1	15
1,2-Dibromo-3-Chloropropane	ND	H	10.0	8.14	J H	ug/L		81	65 - 125	13	17
1,2,4-Trichlorobenzene	ND	H F1	10.0	6.58	H F1	ug/L		66	73 - 128	2	20
Hexachlorobutadiene	ND	H	10.0	7.88	H	ug/L		79	74 - 125	20	22
Naphthalene	ND	H F1	10.0	7.36	H F1	ug/L		74	75 - 134	5	23
1,2,3-Trichlorobenzene	ND	H F1	10.0	7.68	H	ug/L		77	74 - 139	5	26
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
<i>Toluene-d8 (Surr)</i>	103		80 - 120								
<i>1,2-Dichloroethane-d4 (Surr)</i>	101		80 - 126								
<i>4-Bromofluorobenzene (Surr)</i>	100		80 - 120								
<i>Dibromofluoromethane (Surr)</i>	102		80 - 120								

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-1-W-200916

Date Collected: 09/16/20 13:30

Date Received: 09/21/20 09:30

Lab Sample ID: 580-97589-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 15:09	JSM	TAL SEA

Client Sample ID: MW-2-W-200916

Date Collected: 09/16/20 14:00

Date Received: 09/21/20 09:30

Lab Sample ID: 580-97589-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 15:34	JSM	TAL SEA

Client Sample ID: MW-3-W-200916

Date Collected: 09/16/20 09:00

Date Received: 09/21/20 09:30

Lab Sample ID: 580-97589-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 15:58	JSM	TAL SEA

Client Sample ID: MW-4-W-200916

Date Collected: 09/16/20 08:50

Date Received: 09/21/20 09:30

Lab Sample ID: 580-97589-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 16:24	JSM	TAL SEA

Client Sample ID: MW-5-W-200916

Date Collected: 09/16/20 12:10

Date Received: 09/21/20 09:30

Lab Sample ID: 580-97589-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 16:49	JSM	TAL SEA

Client Sample ID: MW-6-W-200916

Date Collected: 09/16/20 10:15

Date Received: 09/21/20 09:30

Lab Sample ID: 580-97589-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 17:13	JSM	TAL SEA

Client Sample ID: MW-7-W-200916

Date Collected: 09/16/20 13:30

Date Received: 09/21/20 09:30

Lab Sample ID: 580-97589-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 17:39	JSM	TAL SEA

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-8-W-200916

Date Collected: 09/16/20 11:10

Date Received: 09/21/20 09:30

Lab Sample ID: 580-97589-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 18:03	JSM	TAL SEA

Client Sample ID: MW-9-W-200916

Date Collected: 09/16/20 12:00

Date Received: 09/21/20 09:30

Lab Sample ID: 580-97589-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 18:28	JSM	TAL SEA

Client Sample ID: MW-10-W-200916

Date Collected: 09/16/20 11:00

Date Received: 09/21/20 09:30

Lab Sample ID: 580-97589-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 19:43	JSM	TAL SEA

Client Sample ID: MW-11-W-200916

Date Collected: 09/16/20 10:00

Date Received: 09/21/20 09:30

Lab Sample ID: 580-97589-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 20:07	JSM	TAL SEA

Client Sample ID: BD-1-W-200916

Date Collected: 09/16/20 00:01

Date Received: 09/21/20 09:30

Lab Sample ID: 580-97589-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 20:32	JSM	TAL SEA

Client Sample ID: BD-2-W-200916

Date Collected: 09/16/20 00:01

Date Received: 09/21/20 09:30

Lab Sample ID: 580-97589-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 20:58	JSM	TAL SEA

Client Sample ID: EQB-1-W-200916

Date Collected: 09/16/20 08:00

Date Received: 09/21/20 09:30

Lab Sample ID: 580-97589-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 21:22	JSM	TAL SEA

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: Trip Blank

Lab Sample ID: 580-97589-15

Date Collected: 09/16/20 00:01

Matrix: Water

Date Received: 09/21/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 14:44	JSM	TAL SEA

Laboratory References:

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



Accreditation/Certification Summary

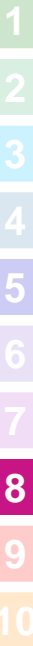
Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Laboratory: Eurofins TestAmerica, Seattle

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-024	02-19-22
ANAB	Dept. of Defense ELAP	L2236	01-19-22
ANAB	ISO/IEC 17025	L2236	01-19-22
California	State	2901	11-05-20
Montana (UST)	State	NA	04-13-21
Oregon	NELAP	WA100007	11-06-20
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-20-00031	02-10-23
Washington	State	C553	02-18-21



Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-97589-1	MW-1-W-200916	Water	09/16/20 13:30	09/21/20 09:30	
580-97589-2	MW-2-W-200916	Water	09/16/20 14:00	09/21/20 09:30	
580-97589-3	MW-3-W-200916	Water	09/16/20 09:00	09/21/20 09:30	
580-97589-4	MW-4-W-200916	Water	09/16/20 08:50	09/21/20 09:30	
580-97589-5	MW-5-W-200916	Water	09/16/20 12:10	09/21/20 09:30	
580-97589-6	MW-6-W-200916	Water	09/16/20 10:15	09/21/20 09:30	
580-97589-7	MW-7-W-200916	Water	09/16/20 13:30	09/21/20 09:30	
580-97589-8	MW-8-W-200916	Water	09/16/20 11:10	09/21/20 09:30	
580-97589-9	MW-9-W-200916	Water	09/16/20 12:00	09/21/20 09:30	
580-97589-10	MW-10-W-200916	Water	09/16/20 11:00	09/21/20 09:30	
580-97589-11	MW-11-W-200916	Water	09/16/20 10:00	09/21/20 09:30	
580-97589-12	BD-1-W-200916	Water	09/16/20 00:01	09/21/20 09:30	
580-97589-13	BD-2-W-200916	Water	09/16/20 00:01	09/21/20 09:30	
580-97589-14	EQB-1-W-200916	Water	09/16/20 08:00	09/21/20 09:30	
580-97589-15	Trip Blank	Water	09/16/20 00:01	09/21/20 09:30	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 580-97589-2

Login Number: 97589

List Number: 1

Creator: Hobbs, Kenneth F

List Source: Eurofins TestAmerica, Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	
Cooler Temperature 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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ATTACHMENT 2

Laboratory Data Review Checklists



Laboratory Data Review Checklist

Completed by:	Kylie Kegerreis		
Title:	Environmental Engineer	Date:	11/5/2020
CS Report Name:	GE - Kenai	Report Date:	10/5/2020
Consultant Firm:	Arcadis U.S., Inc.		
Laboratory Name:	TestAmerica, Inc.	Laboratory Report Number:	580-97589-1
ADEC File Number:		ADEC RecKey Number:	

1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

Yes No NA (Please explain.) Comments:

b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

Yes No NA (Please explain) Comments:

Samples were not transferred or sub-contracted to an alternate laboratory

2. Chain of Custody (COC)

a. COC information completed, signed, and dated (including released/received by)?

Yes No NA (Please explain) Comments:

b. Correct analyses requested?

Yes No NA (Please explain) Comments:

VOCs by Method 8260C
GRO by Method AK101
DRO by Methods AK102 & 103

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt ($4^{\circ} \pm 2^{\circ} \text{C}$)?

Yes No NA (Please explain) Comments:

Temperatures = 14.3 and 15.8 °C; See Attachment 1

b. Sample preservation acceptable - acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No NA (Please explain) Comments:

Case Narrative: "The samples were received... properly preserved..." Samples were also received on ice.

c. Sample condition documented - broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No NA (Please explain) Comments:

Containers were not broken or leaking. VOC vials have no headspace.

d. If there were any discrepancies, were they documented? - For example, incorrect sample containers/preservation, sample temperature outside of acceptance range, insufficient or missing samples, etc.?

Yes No NA (Please explain) Comments:

Sample temperatures were outside of acceptance range

e. Data quality or usability affected? (Please explain)

Comments:

Data quality or usability was affected. All detected results will be qualified as J and all non-detected results will be rejected (R)

4. Case Narrative

a. Present and understandable?

Yes No NA (Please explain) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

Yes No NA (Please explain) Comments:

See Attachment 1

c. Were all corrective actions documented?

Yes No NA (Please explain) Comments:

See Attachment 1

d. What is the effect on data quality/usability according to the case narrative?

Comments:

No additional data qualification is required.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No NA (Please explain)

Comments:

b. All applicable holding times met?

Yes No NA (Please explain)

Comments:

Hold times: AK101 - Analysis w/in 14 days; Methods AK102 & 103 - Extraction w/in 14 days, Analysis w/in 40 days of extraction
Collection Date: 9/16/2020
Prepped: 9/23/2020 (AK102 & 103 only)
Analyzed: 9/24/2020, 9/25/2020 (AK101); 9/25/2020, 9/26/2020 (AK102 & 103)

c. All soils reported on a dry weight basis?

Yes No NA (Please explain)

Comments:

Samples are aqueous

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No NA (Please explain)

Comments:

e. Data quality or usability affected? (Please explain)

Comments:

Data quality or usability not affected.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No NA (Please explain)

Comments:

ii. All method blank results less than PQL?

Yes No NA (Please explain)

Comments:

iii. If above PQL, what samples are affected?

Comments:

N/A

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No NA (Please explain)

Comments:

Method blank results all below PQL

v. Data quality or usability affected? (Please explain)

Comments:

Data quality or usability not affected due to method blank.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics - One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

Yes No NA (Please explain)

Comments:

ii. Metals/Inorganics - One LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No NA (Please explain)

Comments:

Not analyzed for metals or inorganics.

iii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes No NA (Please explain)

Comments:

iv. Precision - All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/DMSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes No NA (Please explain) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

No %R or RPD outside of acceptable limits

vi. Do the affected samples(s) have data flags? If so, are the data flags clearly defined?

Yes No NA (Please explain) Comments:

No samples are outside of the acceptable limits

vii. Data quality or usability affected? (Please explain)

Comments:

Data quality or usability was not affected due to LCS/LCSD recoveries

c. Surrogates - Organics Only

i. Are surrogate recoveries reported for organic analyses - field, QC and laboratory samples?

Yes No NA (Please explain) Comments:

ii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

Yes No NA (Please explain) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

Yes No NA (Please explain) Comments:

No failed surrogate recoveries

iv. Data quality or usability affected? (Use the comment box to explain.)

Comments:

Data quality or usability not affected due to surrogate recoveries

d. Trip Blank - Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples?
(If not, enter explanation below.)

Yes No NA (Please explain.) Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?
(If not, a comment explaining why must be entered below)

Yes No NA (Please explain.) Comments:

iii. All results less than PQL?

Yes No NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?

Comments:

N/A - all results less than PQL

v. Data quality or usability affected? (Please explain.)

Comments:

Data quality or usability not affected due to trip blank

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

Yes No NA (Please explain.) Comments:

BD-1-W-200916 (Parent sample: MW-4-W-200916); BD-2-W-200916 (Parent sample: MW-5-W-200916)

ii. Submitted blind to lab?

Yes No NA (Please explain.) Comments:

iii. Precision - All relative percent differences (RPD) less than specified DQOs?
(Recommended: 30% water, 50% soil)

$$RPD (\%) = \text{Absolute Value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No NA (Please explain) Comments:

See Table 1

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Yes No NA (Please explain) Comments:

Data quality or usability not affected due to field duplicates

f. Decontamination or Equipment Blank (if applicable)

Yes No NA (Please explain) Comments:

EQB-1-W-200916

i. All results less than PQL?

Yes No NA (Please explain) Comments:

ii. If above PQL, what samples are affected?

Comments:

N/A - no sample results above PQL

iii. Data quality or usability affected? (Please explain.)

Comments:

Data quality or usability not affected due to equipment blanks.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No NA (Please explain) Comments:

See Attachment 1

Reset Form

Table 1
Relative Percent Difference for Parent and Field Duplicate Samples
Report Number: 580-97589-1
GE - Kenai

Sample Identification		MW-4-W-200916	BD-1-W-200916	RPD ^a	MW-5-W-200916	BD-2-W-200916	RPD ^a
Analyte	Units	Result	Result		Result	Result	
GRO (nC6-<nC10)	mg/L	ND	ND	--	0.61	0.61	0%
DRO (nC10-<nC25)	mg/L	0.35	0.42	18%	1.6	1.4	13%

Notes:

^a Relative percent difference (RPD) calculated for detected results only.

µg/L = micrograms per liter

ND = not detected

Attachment 1
Additional Information for Job 580-97589-1
GE-Kenai

4. Case Narrative
 - b. Discrepancies, errors or QC failures identified by the lab?

Receipt Exceptions:

The following samples were received at the laboratory outside the required temperature criteria: MW-1-W-200916 (580-97589-1), MW-2-W-200916 (580-97589-2), MW-3-W-200916 (580-97589-3), MW-4-W-200916 (580-97589-4), MW-5-W-200916 (580-97589-5), MW-6-W-200916 (580-97589-6), MW-7-W-200916 (580-97589-7), MW-8-W-200916 (580-97589-8), MW-9-W-200916 (580-97589-9), MW-9-W-200916 (580-97589-9[MS]), MW-9-W-200916 (580-97589-9[MSD]), MW-10-W-200916 (580-97589-10), MW-11-W-200916 (580-97589-11), BD-1-W-200916 (580-97589-12), BD-2-W-200916 (580-97589-13), EQB-1-W-200916 (580-97589-14) and Trip Blank (580-97589-15).

Method AK101: Due to the high concentration of Gasoline Range Organics (GRO)-C6-C10, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 580-339189 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

Method AK102 & 103: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 580-338912 and analytical batch 580-339133 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

1. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc).
 - a. Defined and appropriate

MS/MSD analysis performed on MW-9-W-200916.

- DRO (nC10-<nC25) MS and MSD percent recoveries outside of limits, biased low (identified by laboratory qualifier F1); however, the RPD is within limits. All sample results are non-detected, and non-detected results are already rejected due to cooler temperature (see laboratory report).

ANALYTICAL REPORT

Eurofins FGS, Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

Laboratory Job ID: 580-97589-1

Client Project/Site: Former TBE Machine Shop- GE Kenai
Revision: 1

For:

ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Anna Hagemeister



Authorized for release by:
4/21/2021 10:02:29 AM

Nathan Lewis, Project Manager I
(253)922-2310
Nathan.Lewis@Eurofinset.com

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

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



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions	4
Client Sample Results	5
QC Sample Results	20
Chronicle	23
Certification Summary	26
Sample Summary	27
Chain of Custody	28
Receipt Checklists	30

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-1

Job ID: 580-97589-1

Laboratory: Eurofins FGS, Seattle

Narrative

Job Narrative 580-97589-1

Comments

This report has been revised to report the results to the reporting limit (RL) instead of the method detection limit (MDL).

Receipt

The samples were received on 9/21/2020 9:30 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 14.3° C and 15.8° C.

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: MW-1-W-200916 (580-97589-1), MW-2-W-200916 (580-97589-2), MW-3-W-200916 (580-97589-3), MW-4-W-200916 (580-97589-4), MW-5-W-200916 (580-97589-5), MW-6-W-200916 (580-97589-6), MW-7-W-200916 (580-97589-7), MW-8-W-200916 (580-97589-8), MW-9-W-200916 (580-97589-9), MW-9-W-200916 (580-97589-9[MS]), MW-9-W-200916 (580-97589-9[MSD]), MW-10-W-200916 (580-97589-10), MW-11-W-200916 (580-97589-11), BD-1-W-200916 (580-97589-12), BD-2-W-200916 (580-97589-13), EQB-1-W-200916 (580-97589-14) and Trip Blank (580-97589-15).

GC VOA

Method AK101: Due to the high concentration of Gasoline Range Organics (GRO)-C6-C10, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 580-339189 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

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

GC Semi VOA

Method AK102 & 103: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 580-338912 and analytical batch 580-339133 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Organic Prep

Method 3510C: The emulsions were broken up using sodium sulfate and rinsed with solvent.

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

VOA Prep

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

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-1

Client Sample ID: MW-1-W-200916

Lab Sample ID: 580-97589-1

Date Collected: 09/16/20 13:30

Matrix: Water

Date Received: 09/21/20 09:30

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND	R	0.25		mg/L			09/24/20 16:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		50 - 150					09/24/20 16:31	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	0.72	J	0.11		mg/L		09/23/20 11:48	09/25/20 20:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	65		50 - 150				09/23/20 11:48	09/25/20 20:16	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-1

Client Sample ID: MW-2-W-200916

Lab Sample ID: 580-97589-2

Date Collected: 09/16/20 14:00

Matrix: Water

Date Received: 09/21/20 09:30

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND	R	0.25		mg/L			09/24/20 16:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86	J	50 - 150					09/24/20 16:56	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	0.26		0.10		mg/L		09/23/20 11:48	09/25/20 20:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	73		50 - 150				09/23/20 11:48	09/25/20 20:37	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-1

Client Sample ID: MW-3-W-200916

Lab Sample ID: 580-97589-3

Date Collected: 09/16/20 09:00

Matrix: Water

Date Received: 09/21/20 09:30

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND	R	0.25		mg/L			09/24/20 17:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		50 - 150					09/24/20 17:20	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	0.26	J	0.11		mg/L		09/23/20 11:48	09/25/20 20:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	61		50 - 150				09/23/20 11:48	09/25/20 20:57	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-1

Client Sample ID: MW-4-W-200916

Lab Sample ID: 580-97589-4

Date Collected: 09/16/20 08:50

Matrix: Water

Date Received: 09/21/20 09:30

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND	R	0.25		mg/L			09/24/20 17:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		50 - 150					09/24/20 17:45	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	0.35	J	0.11		mg/L		09/23/20 11:48	09/25/20 21:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	63		50 - 150				09/23/20 11:48	09/25/20 21:17	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-1

Client Sample ID: MW-5-W-200916

Lab Sample ID: 580-97589-5

Date Collected: 09/16/20 12:10

Matrix: Water

Date Received: 09/21/20 09:30

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	0.61	J	0.25		mg/L			09/24/20 18:09	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene (Surr)	101		50 - 150					09/24/20 18:09	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	1.6	J	0.11		mg/L		09/23/20 11:48	09/25/20 21:37	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
o-Terphenyl	69		50 - 150				09/23/20 11:48	09/25/20 21:37	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-1

Client Sample ID: MW-6-W-200916

Lab Sample ID: 580-97589-6

Date Collected: 09/16/20 10:15

Matrix: Water

Date Received: 09/21/20 09:30

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND	R	0.25		mg/L			09/24/20 18:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		50 - 150					09/24/20 18:34	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	0.12	J	0.11		mg/L		09/23/20 11:48	09/25/20 22:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	67		50 - 150				09/23/20 11:48	09/25/20 22:17	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-1

Client Sample ID: MW-7-W-200916

Lab Sample ID: 580-97589-7

Date Collected: 09/16/20 13:30

Matrix: Water

Date Received: 09/21/20 09:30

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND	R	0.25		mg/L			09/24/20 19:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		50 - 150					09/24/20 19:23	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND	R	0.11		mg/L		09/23/20 11:48	09/25/20 22:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	67		50 - 150				09/23/20 11:48	09/25/20 22:38	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-1

Client Sample ID: MW-8-W-200916

Lab Sample ID: 580-97589-8

Date Collected: 09/16/20 11:10

Matrix: Water

Date Received: 09/21/20 09:30

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND	R	0.25		mg/L			09/24/20 19:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		50 - 150					09/24/20 19:48	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND	R	0.11		mg/L		09/23/20 11:48	09/25/20 22:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	67		50 - 150				09/23/20 11:48	09/25/20 22:58	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-1

Client Sample ID: MW-9-W-200916

Lab Sample ID: 580-97589-9

Date Collected: 09/16/20 12:00

Matrix: Water

Date Received: 09/21/20 09:30

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND	R	0.25		mg/L			09/24/20 20:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		50 - 150					09/24/20 20:13	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND	F R	0.11		mg/L		09/23/20 11:48	09/25/20 23:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	63		50 - 150				09/23/20 11:48	09/25/20 23:18	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-1

Client Sample ID: MW-10-W-200916

Lab Sample ID: 580-97589-10

Date Collected: 09/16/20 11:00

Matrix: Water

Date Received: 09/21/20 09:30

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND	R	0.25		mg/L			09/25/20 13:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		50 - 150					09/25/20 13:49	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND	R	0.11		mg/L		09/23/20 11:48	09/26/20 00:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	70		50 - 150				09/23/20 11:48	09/26/20 00:18	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-1

Client Sample ID: MW-11-W-200916

Lab Sample ID: 580-97589-11

Date Collected: 09/16/20 10:00

Matrix: Water

Date Received: 09/21/20 09:30

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND	R	0.25		mg/L			09/24/20 14:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		50 - 150					09/24/20 14:53	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	0.12	J	0.11		mg/L		09/23/20 11:48	09/26/20 00:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	71		50 - 150				09/23/20 11:48	09/26/20 00:38	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-1

Client Sample ID: BD-1-W-200916

Lab Sample ID: 580-97589-12

Date Collected: 09/16/20 00:01

Matrix: Water

Date Received: 09/21/20 09:30

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND	R	0.25		mg/L			09/24/20 15:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		50 - 150					09/24/20 15:17	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	0.42	J	0.12		mg/L		09/23/20 11:48	09/26/20 00:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	81		50 - 150				09/23/20 11:48	09/26/20 00:58	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-1

Client Sample ID: BD-2-W-200916

Lab Sample ID: 580-97589-13

Date Collected: 09/16/20 00:01

Matrix: Water

Date Received: 09/21/20 09:30

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	0.61	J	0.25		mg/L			09/24/20 15:42	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene (Surr)	99		50 - 150					09/24/20 15:42	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	1.4	J	0.11		mg/L		09/23/20 11:48	09/26/20 01:18	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
o-Terphenyl	65		50 - 150				09/23/20 11:48	09/26/20 01:18	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-1

Client Sample ID: EQB-1-W-200916

Lab Sample ID: 580-97589-14

Date Collected: 09/16/20 08:00

Matrix: Water

Date Received: 09/21/20 09:30

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND	R	0.25		mg/L			09/24/20 16:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		50 - 150					09/24/20 16:07	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND	R	0.11		mg/L		09/23/20 11:48	09/26/20 01:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	59		50 - 150				09/23/20 11:48	09/26/20 01:59	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-1

Client Sample ID: Trip Blank

Lab Sample ID: 580-97589-15

Date Collected: 09/16/20 00:01

Matrix: Water

Date Received: 09/21/20 09:30

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND	R	0.25		mg/L			09/24/20 13:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		50 - 150					09/24/20 13:14	1

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-1

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Lab Sample ID: MB 580-339011/5
Matrix: Water
Analysis Batch: 339011

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		0.25		mg/L			09/24/20 10:22	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		50 - 150					09/24/20 10:22	1

Lab Sample ID: LCS 580-339011/6
Matrix: Water
Analysis Batch: 339011

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1.00	1.05		mg/L		105	60 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	90		50 - 150				

Lab Sample ID: LCSD 580-339011/7
Matrix: Water
Analysis Batch: 339011

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
Gasoline Range Organics (GRO)-C6-C10	1.00	0.994		mg/L		99	60 - 120	6	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	83		50 - 150						

Lab Sample ID: 580-97589-9 MS
Matrix: Water
Analysis Batch: 339011

Client Sample ID: MW-9-W-200916
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	ND		1.00	0.885		mg/L		89	60 - 120
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	85		50 - 150						

Lab Sample ID: 580-97589-9 MSD
Matrix: Water
Analysis Batch: 339011

Client Sample ID: MW-9-W-200916
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		1.00	0.969		mg/L		97	60 - 120	9	20

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QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-1

Method: AK101 - Alaska - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: 580-97589-9 MSD
Matrix: Water
Analysis Batch: 339011

Client Sample ID: MW-9-W-200916
Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		50 - 150

Lab Sample ID: MB 580-339189/5
Matrix: Water
Analysis Batch: 339189

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		0.25		mg/L			09/25/20 12:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		50 - 150		09/25/20 12:35	1

Lab Sample ID: LCS 580-339189/6
Matrix: Water
Analysis Batch: 339189

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1.00	1.05		mg/L		105	60 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		50 - 150

Lab Sample ID: LCSD 580-339189/7
Matrix: Water
Analysis Batch: 339189

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
Gasoline Range Organics (GRO)-C6-C10	1.00	1.03		mg/L		103	60 - 120	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		50 - 150

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Lab Sample ID: MB 580-338912/1-A
Matrix: Water
Analysis Batch: 339865

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 338912

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND		0.11	0.075	mg/L		09/23/20 11:48	10/02/20 13:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	65		50 - 150	09/23/20 11:48	10/02/20 13:00	1

Eurofins FGS, Seattle

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC) (Continued)

Lab Sample ID: LCS 580-338912/2-A
Matrix: Water
Analysis Batch: 339865

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 338912

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DRO (nC10-<nC25)	2.00	1.50		mg/L		75	75 - 125
Surrogate		LCS %Recovery	LCS Qualifier				Limits
<i>o-Terphenyl</i>		77					50 - 150

Lab Sample ID: LCSD 580-338912/3-A
Matrix: Water
Analysis Batch: 339865

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 338912

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DRO (nC10-<nC25)	2.00	1.55		mg/L		78	75 - 125	4	20
Surrogate		LCSD %Recovery	LCSD Qualifier				Limits		
<i>o-Terphenyl</i>		78					50 - 150		

Lab Sample ID: 580-97589-9 MS
Matrix: Water
Analysis Batch: 339133

Client Sample ID: MW-9-W-200916
Prep Type: Total/NA
Prep Batch: 338912

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
DRO (nC10-<nC25)	ND	F1	2.05	1.15	F1	mg/L		56	75 - 125
Surrogate		MS %Recovery							Limits
<i>o-Terphenyl</i>		63							50 - 150

Lab Sample ID: 580-97589-9 MSD
Matrix: Water
Analysis Batch: 339133

Client Sample ID: MW-9-W-200916
Prep Type: Total/NA
Prep Batch: 338912

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DRO (nC10-<nC25)	ND	F1	2.09	1.34	F1	mg/L		64	75 - 125	15	20
Surrogate		MSD %Recovery							Limits		
<i>o-Terphenyl</i>		71							50 - 150		

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-1

Client Sample ID: MW-1-W-200916

Lab Sample ID: 580-97589-1

Date Collected: 09/16/20 13:30

Matrix: Water

Date Received: 09/21/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	AK101		1	339011	09/24/20 16:31	W1T	TAL SEA
Total/NA	Prep	3510C			338912	09/23/20 11:48	S1S	TAL SEA
Total/NA	Analysis	AK102 & 103		1	339133	09/25/20 20:16	TL1	TAL SEA

Client Sample ID: MW-2-W-200916

Lab Sample ID: 580-97589-2

Date Collected: 09/16/20 14:00

Matrix: Water

Date Received: 09/21/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	AK101		1	339011	09/24/20 16:56	W1T	TAL SEA
Total/NA	Prep	3510C			338912	09/23/20 11:48	S1S	TAL SEA
Total/NA	Analysis	AK102 & 103		1	339133	09/25/20 20:37	TL1	TAL SEA

Client Sample ID: MW-3-W-200916

Lab Sample ID: 580-97589-3

Date Collected: 09/16/20 09:00

Matrix: Water

Date Received: 09/21/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	AK101		1	339011	09/24/20 17:20	W1T	TAL SEA
Total/NA	Prep	3510C			338912	09/23/20 11:48	S1S	TAL SEA
Total/NA	Analysis	AK102 & 103		1	339133	09/25/20 20:57	TL1	TAL SEA

Client Sample ID: MW-4-W-200916

Lab Sample ID: 580-97589-4

Date Collected: 09/16/20 08:50

Matrix: Water

Date Received: 09/21/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	AK101		1	339011	09/24/20 17:45	W1T	TAL SEA
Total/NA	Prep	3510C			338912	09/23/20 11:48	S1S	TAL SEA
Total/NA	Analysis	AK102 & 103		1	339133	09/25/20 21:17	TL1	TAL SEA

Client Sample ID: MW-5-W-200916

Lab Sample ID: 580-97589-5

Date Collected: 09/16/20 12:10

Matrix: Water

Date Received: 09/21/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	AK101		1	339011	09/24/20 18:09	W1T	TAL SEA
Total/NA	Prep	3510C			338912	09/23/20 11:48	S1S	TAL SEA
Total/NA	Analysis	AK102 & 103		1	339133	09/25/20 21:37	TL1	TAL SEA

Client Sample ID: MW-6-W-200916

Lab Sample ID: 580-97589-6

Date Collected: 09/16/20 10:15

Matrix: Water

Date Received: 09/21/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	AK101		1	339011	09/24/20 18:34	W1T	TAL SEA

Eurofins FGS, Seattle

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-1

Client Sample ID: MW-6-W-200916

Lab Sample ID: 580-97589-6

Date Collected: 09/16/20 10:15

Matrix: Water

Date Received: 09/21/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			338912	09/23/20 11:48	S1S	TAL SEA
Total/NA	Analysis	AK102 & 103		1	339133	09/25/20 22:17	TL1	TAL SEA

Client Sample ID: MW-7-W-200916

Lab Sample ID: 580-97589-7

Date Collected: 09/16/20 13:30

Matrix: Water

Date Received: 09/21/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	AK101		1	339011	09/24/20 19:23	W1T	TAL SEA
Total/NA	Prep	3510C			338912	09/23/20 11:48	S1S	TAL SEA
Total/NA	Analysis	AK102 & 103		1	339133	09/25/20 22:38	TL1	TAL SEA

Client Sample ID: MW-8-W-200916

Lab Sample ID: 580-97589-8

Date Collected: 09/16/20 11:10

Matrix: Water

Date Received: 09/21/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	AK101		1	339011	09/24/20 19:48	W1T	TAL SEA
Total/NA	Prep	3510C			338912	09/23/20 11:48	S1S	TAL SEA
Total/NA	Analysis	AK102 & 103		1	339133	09/25/20 22:58	TL1	TAL SEA

Client Sample ID: MW-9-W-200916

Lab Sample ID: 580-97589-9

Date Collected: 09/16/20 12:00

Matrix: Water

Date Received: 09/21/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	AK101		1	339011	09/24/20 20:13	W1T	TAL SEA
Total/NA	Prep	3510C			338912	09/23/20 11:48	S1S	TAL SEA
Total/NA	Analysis	AK102 & 103		1	339133	09/25/20 23:18	TL1	TAL SEA

Client Sample ID: MW-10-W-200916

Lab Sample ID: 580-97589-10

Date Collected: 09/16/20 11:00

Matrix: Water

Date Received: 09/21/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	AK101		1	339189	09/25/20 13:49	DCV	TAL SEA
Total/NA	Prep	3510C			338912	09/23/20 11:48	S1S	TAL SEA
Total/NA	Analysis	AK102 & 103		1	339133	09/26/20 00:18	TL1	TAL SEA

Client Sample ID: MW-11-W-200916

Lab Sample ID: 580-97589-11

Date Collected: 09/16/20 10:00

Matrix: Water

Date Received: 09/21/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	AK101		1	339011	09/24/20 14:53	W1T	TAL SEA

Eurofins FGS, Seattle

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-1

Client Sample ID: MW-11-W-200916

Lab Sample ID: 580-97589-11

Date Collected: 09/16/20 10:00

Matrix: Water

Date Received: 09/21/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			338912	09/23/20 11:48	S1S	TAL SEA
Total/NA	Analysis	AK102 & 103		1	339133	09/26/20 00:38	TL1	TAL SEA

Client Sample ID: BD-1-W-200916

Lab Sample ID: 580-97589-12

Date Collected: 09/16/20 00:01

Matrix: Water

Date Received: 09/21/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	AK101		1	339011	09/24/20 15:17	W1T	TAL SEA
Total/NA	Prep	3510C			338912	09/23/20 11:48	S1S	TAL SEA
Total/NA	Analysis	AK102 & 103		1	339133	09/26/20 00:58	TL1	TAL SEA

Client Sample ID: BD-2-W-200916

Lab Sample ID: 580-97589-13

Date Collected: 09/16/20 00:01

Matrix: Water

Date Received: 09/21/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	AK101		1	339011	09/24/20 15:42	W1T	TAL SEA
Total/NA	Prep	3510C			338912	09/23/20 11:48	S1S	TAL SEA
Total/NA	Analysis	AK102 & 103		1	339133	09/26/20 01:18	TL1	TAL SEA

Client Sample ID: EQB-1-W-200916

Lab Sample ID: 580-97589-14

Date Collected: 09/16/20 08:00

Matrix: Water

Date Received: 09/21/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	AK101		1	339011	09/24/20 16:07	W1T	TAL SEA
Total/NA	Prep	3510C			338912	09/23/20 11:48	S1S	TAL SEA
Total/NA	Analysis	AK102 & 103		1	339133	09/26/20 01:59	TL1	TAL SEA

Client Sample ID: Trip Blank

Lab Sample ID: 580-97589-15

Date Collected: 09/16/20 00:01

Matrix: Water

Date Received: 09/21/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	AK101		1	339011	09/24/20 13:14	W1T	TAL SEA

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-1

Laboratory: Eurofins FGS, Seattle

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-024	03-16-21
ANAB	Dept. of Defense ELAP	L2236	11-24-20
ANAB	ISO/IEC 17025	L2236	11-24-20
California	State	2954	11-05-20
Florida	NELAP	E87575	07-30-21
Louisiana	NELAP	03073	06-30-21
Maine	State	2020012	05-02-22
Montana (UST)	State	NA	04-13-21
New Jersey	NELAP	WA014	06-30-21
New York	NELAP	11662	03-31-21
Oregon	NELAP	WA100007	11-05-20
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-20-00031	02-10-23
Washington	State	C788	02-17-21
Wisconsin	State	399133460	08-31-21

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-97589-1	MW-1-W-200916	Water	09/16/20 13:30	09/21/20 09:30	
580-97589-2	MW-2-W-200916	Water	09/16/20 14:00	09/21/20 09:30	
580-97589-3	MW-3-W-200916	Water	09/16/20 09:00	09/21/20 09:30	
580-97589-4	MW-4-W-200916	Water	09/16/20 08:50	09/21/20 09:30	
580-97589-5	MW-5-W-200916	Water	09/16/20 12:10	09/21/20 09:30	
580-97589-6	MW-6-W-200916	Water	09/16/20 10:15	09/21/20 09:30	
580-97589-7	MW-7-W-200916	Water	09/16/20 13:30	09/21/20 09:30	
580-97589-8	MW-8-W-200916	Water	09/16/20 11:10	09/21/20 09:30	
580-97589-9	MW-9-W-200916	Water	09/16/20 12:00	09/21/20 09:30	
580-97589-10	MW-10-W-200916	Water	09/16/20 11:00	09/21/20 09:30	
580-97589-11	MW-11-W-200916	Water	09/16/20 10:00	09/21/20 09:30	
580-97589-12	BD-1-W-200916	Water	09/16/20 00:01	09/21/20 09:30	
580-97589-13	BD-2-W-200916	Water	09/16/20 00:01	09/21/20 09:30	
580-97589-14	EQB-1-W-200916	Water	09/16/20 08:00	09/21/20 09:30	
580-97589-15	Trip Blank	Water	09/16/20 00:01	09/21/20 09:30	

Chain of Custody Record

Client Information	Sampler: <i>Michael MacDaniel</i>	Lab PM: Lewis, Nathan A	Carrier Tracking No(s):	COC No: 580-40051-12802.1
Client Contact: Anna Hagemeister	Phone: 206-465-3161	E-Mail: Nathan.Lewis@Eurofinset.com		Page: Page 1 of 2
Company: ARCADIS U.S., Inc.	Analysis Requested			Job #:

Address: 630 Plaza Drive Suite 100	Due Date Requested:	Field Filtered Samples (Yes or No) Perform MS/MSD (Yes or No) AK102_103 - Nonhalogenated Organics by FID (DRO) 82600, AK101	LOC: 550 97589	Total Number of Containers	Preservation Codes:	
City: Highlands Ranch	TAT Requested (days): <i>Standard 10 day</i>				A - HCL	M - Hexane
State, Zip: CO, 80129-2377	PO #: ARCADIS-TA-KEMAI-2010-WA-01				B - NaOH	N - None
Phone: 248-930-8079(Tel)	WO #: 30006327.4001S				C - Zn Acetate	O - AsNaO2
Email: anna.hagemeister@arcadis-us.com	Project #: 58015593				D - Nitric Acid	P - Na2O4S
Project Name: Former TBE Machine Shop- GE Kenai	SSOW#:	E - NaHSO4	Q - Na2SO3			
Site: <i>GE-Nikisk</i>		F - MeOH	R - Na2S2O3			
		G - Amchlor	S - H2SO4			
		H - Ascorbic Acid	T - TSP Dodecahydrate			
		I - Ice	U - Acetone			
		J - DI Water	V - MCAA			
		K - EDTA	W - pH 4-5			
		L - EDA	Z - other (specify)			
		Other:				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, O=waste/oli, G=grab)	Matrix (W=water, S=solid, O=waste/oli, BT=Tissue, A=Air)	Field Filtered Samples (Yes or No)	Perform MS/MSD (Yes or No)	AK102_103 - Nonhalogenated Organics by FID (DRO)	82600, AK101	Total Number of Containers	Special Instructions/Note:
MW-1-W-200916	9/16/20	1330	G	Water	N	N	X	X	8	
MW-2-W-200916	9/16/20	1400	G	Water	N	M	X	X	8	
MW-3-W-200916	9/16/20	900	G	Water	N	N	X	X	8	
MW-4-W-200916	9/16/20	850	G	Water	N	N	X	X	8	
MW-5-W-200916	9/16/20	1210	G	Water	N	N	X	X	8	
MW-6-W-200916	9/16/20	1015	G	Water	N	N	X	X	8	
MW-7-W-200916	9/16/20	1330	G	Water	N	N	X	X	8	
MW-8-W-200916	9/16/20	1110	G	Water	N	N	X	X	8	
MW-9-W-200916	9/16/20	1200	G	Water	N	Y	X	X	21	MS/MSD collected
MW-10-W-200916	9/16/20	1100	G	Water	N	N	X	X	8	
MW-11-W-200916	9/16/20	1000	G	Water	N	N	X	X	8	

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological	<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <i>[Signature]</i>	Date/Time: 9/17/20 @ 930	Company:	Received by: <i>[Signature]</i>
Relinquished by:	Date/Time:	Company:	Received by: <i>[Signature]</i>

Therm. ID: <i>A2</i> Cor: <i>6.8</i> ° Unc: <i>19.9</i> °	Therm. ID: <i>A2</i> Cor: <i>14.3</i> ° Unc: <i>14.4</i> °
Cooler Dsc: <i>LB</i>	Cooler Dsc: <i>LB</i>
Packing: <i>Pub</i> FedEx: <i>PO</i>	Packing: <i>Pub</i> FedEx: <i>PO</i>
Cust. Seal: Yes <i>No X</i> Lab Cour:	Cust. Seal: Yes <i>No X</i> Lab Cour:
Blue Ice, <i>Wet</i> Dry, None	Blue Ice, <i>Wet</i> Dry, None



Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 580-97589-1

Login Number: 97589

List Number: 1

Creator: Hobbs, Kenneth F

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

Laboratory Data Review Checklist

Completed by:	Kylie Kegerreis		
Title:	Environmental Engineer	Date:	11/5/2020
CS Report Name:	GE - Kenai	Report Date:	10/20/2020
Consultant Firm:	Arcadis U.S., Inc.		
Laboratory Name:	TestAmerica, Inc.	Laboratory Report Number:	580-97589-2
ADEC File Number:		ADEC RecKey Number:	

1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

Yes No NA (Please explain.) Comments:

b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

Yes No NA (Please explain) Comments:

Samples were not transferred or sub-contracted to an alternate laboratory

2. Chain of Custody (COC)

a. COC information completed, signed, and dated (including released/received by)?

Yes No NA (Please explain) Comments:

b. Correct analyses requested?

Yes No NA (Please explain) Comments:

VOCs by Method 8260D

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt ($4^{\circ} \pm 2^{\circ} \text{C}$)?

Yes No NA (Please explain) Comments:

Temperatures = 14.3 and 15.8 °C; See Attachment 1

b. Sample preservation acceptable - acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No NA (Please explain) Comments:

Case Narrative: "The samples were received... properly preserved..." Samples were also received on ice.

c. Sample condition documented - broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No NA (Please explain) Comments:

Containers were not broken or leaking. VOC vials have no headspace.

d. If there were any discrepancies, were they documented? - For example, incorrect sample containers/preservation, sample temperature outside of acceptance range, insufficient or missing samples, etc.?

Yes No NA (Please explain) Comments:

Sample temperatures were outside of acceptance range

e. Data quality or usability affected? (Please explain)

Comments:

Data quality or usability was affected. All detected results will be qualified as J and all non-detected results will be rejected (R)

4. Case Narrative

a. Present and understandable?

Yes No NA (Please explain) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

Yes No NA (Please explain) Comments:

See Attachment 1

c. Were all corrective actions documented?

Yes No NA (Please explain) Comments:

See Attachment 1

d. What is the effect on data quality/usability according to the case narrative?

Comments:

No additional data qualification is required.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No NA (Please explain)

Comments:

b. All applicable holding times met?

Yes No NA (Please explain)

Comments:

Hold times: 8260D - Analysis w/in 14 days
Collection Date: 9/16/2020
Analyzed: 10/15/2020

c. All soils reported on a dry weight basis?

Yes No NA (Please explain)

Comments:

Samples are aqueous

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No NA (Please explain)

Comments:

vinyl chloride PQL = 0.22 ug/L // cleanup level = 0.19 ug/L

e. Data quality or usability affected? (Please explain)

Comments:

Data quality or usability not affected.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No NA (Please explain)

Comments:

ii. All method blank results less than PQL?

Yes No NA (Please explain)

Comments:

iii. If above PQL, what samples are affected?

Comments:

N/A

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No NA (Please explain) Comments:

Method blank results all below PQL

v. Data quality or usability affected? (Please explain) Comments:

Data quality or usability not affected due to method blank.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics - One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

Yes No NA (Please explain) Comments:

ii. Metals/Inorganics - One LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No NA (Please explain) Comments:

Not analyzed for metals or inorganics.

iii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes No NA (Please explain) Comments:

See Attachment 1

iv. Precision - All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/DMSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes No NA (Please explain) Comments:

See Attachment 1

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

No samples affected because the analytes were biased high and associated samples were not detected.

vi. Do the affected samples(s) have data flags? If so, are the data flags clearly defined?

Yes No NA (Please explain) Comments:

Yes, LCS and LCSD outside of range are indicated by *. RPD outside of range are indicated by *1.

vii. Data quality or usability affected? (Please explain) Comments:

Data quality or usability was not affected due to LCS/LCSD recoveries

c. Surrogates - Organics Only

i. Are surrogate recoveries reported for organic analyses - field, QC and laboratory samples?

Yes No NA (Please explain) Comments:

ii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

Yes No NA (Please explain) Comments:

For MW-5-W-200916, 1 surrogate (4-bromofluorobenzene) %R = 128 (limits = 80 - 120)

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

Yes No NA (Please explain) Comments:

Yes, indicated by X.

iv. Data quality or usability affected? (Use the comment box to explain.)

Comments:

Data quality or usability not affected due to surrogate recoveries

d. Trip Blank - Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No NA (Please explain.) Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

Yes No NA (Please explain.) Comments:

iii. All results less than PQL?

Yes No NA (Please explain.)

Comments:

iv. If above PQL, what samples are affected?

Comments:

N/A - all results less than PQL

v. Data quality or usability affected? (Please explain.)

Comments:

Data quality or usability not affected due to trip blank

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

Yes No NA (Please explain.)

Comments:

BD-1-W-200916 (Parent sample: MW-4-W-200916); BD-2-W-200916 (Parent sample: MW-5-W-200916)

ii. Submitted blind to lab?

Yes No NA (Please explain.)

Comments:

iii. Precision - All relative percent differences (RPD) less than specified DQOs?
(Recommended: 30% water, 50% soil)

$$RPD (\%) = \frac{\text{Absolute Value of: } (R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

Yes No NA (Please explain.)

Comments:

See Table 1

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Yes No NA (Please explain.)

Comments:

Data quality or usability for isopropylbenzene in MW-5-W-200916 and BD-2-W-200916 affected (Qual J)

f. Decontamination or Equipment Blank (if applicable)

Yes No NA (Please explain)

Comments:

EQB-1-W-200916

i. All results less than PQL?

Yes No NA (Please explain)

Comments:

ii. If above PQL, what samples are affected?

Comments:

N/A - no sample results above PQL

iii. Data quality or usability affected? (Please explain.)

Comments:

Data quality or usability not affected due to equipment blanks.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No NA (Please explain)

Comments:

See Attachment 1

Reset Form

Table 1
Relative Percent Difference for Parent and Field Duplicate Samples
Report Number: 580-97589-2
GE - Kenai

Sample Identification		MW-4-W-200916	BD-1-W-200916	RPD ^a	MW-5-W-200916	BD-2-W-200916	RPD ^a
Analyte	Units	Result	Result		Result	Result	
1,1-dichloroethane	µg/L	ND	ND	--	1.2	0.89	30%
cis-1,2-dichloroethene	µg/L	ND	ND	--	50	37	30%
1,1,1-trichloroethane	µg/L	2.6	2.4	8%	ND	ND	--
trichloroethene	µg/L	4.6	4.1	11%	ND	ND	--
tetrachloroethene	µg/L	14	14	0%	ND	ND	--
ethylbenzene	µg/L	ND	ND	--	89	78	13%
m-xylene & p-xylene	µg/L	ND	ND	--	130	110	17%
o-xylene	µg/L	ND	ND	--	4.5	3.6	22%
isopropylbenzene	µg/L	ND	ND	--	1	0.73	31%
n-propylbenzene	µg/L	ND	ND	--	0.73	0.72	1%
1,3,5-trimethylbenzene	µg/L	ND	ND	--	15	14	7%
tert-butylbenzene	µg/L	ND	ND	--	1.2	1.1	9%
1,2,4-trimethylbenzene	µg/L	ND	ND	--	20	18	11%
4-isopropyltoluene	µg/L	ND	ND	--	3	2.6	14%
1,3-dichlorobenzene	µg/L	ND	ND	--	0.33	ND	--
1,4-dichlorobenzene	µg/L	ND	ND	--	2.4	2.7	12%
1,2-dichlorobenzene	µg/L	ND	ND	--	1.2	ND	--
naphthalene	µg/L	ND	ND	--	2.2	2	10%

Notes:

BOLD indicates RPD is greater than 30%.

^a Relative percent difference (RPD) calculated for detected results only.

µg/L = micrograms per liter

ND = not detected

Attachment 1
Additional Information for Job 580-97589-2
GE-Kenai

4. Case Narrative

b. Discrepancies, errors or QC failures identified by the lab?

Receipt Exceptions: The following samples were received at the laboratory outside the required temperature criteria: MW-1-W-200916 (580-97589-1), MW-2-W-200916 (580-97589-2), MW-3-W-200916 (580-97589-3), MW-4-W-200916 (580-97589-4), MW-5-W-200916 (580-97589-5), MW-6-W-200916 (580-97589-6), MW-7-W-200916 (580-97589-7), MW-8-W-200916 (580-97589-8), MW-9-W-200916 (580-97589-9), MW-9-W-200916 (580-97589-9[MS]), MW-9-W-200916 (580-97589-9[MSD]), MW-10-W-200916 (580-97589-10), MW-11-W-200916 (580-97589-11), BD-1-W-200916 (580-97589-12), BD-2-W-200916 (580-97589-13), EQB-1-W-200916 (580-97589-14) and Trip Blank (580-97589-15).

Method 8270D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 580-340878 recovered outside control limits for the following analytes: 1,1,1,2-tetrachloroethane, 1,1-dichloroethene, 2-chlorotoluene, dichlorodifluoromethane, n-butylbenzene, trichlorofluoromethane, and vinyl chloride. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The following samples were analyzed outside of analytical holding time due to sample login error: MW-1-W-200916 (580-97589-1), MW-2-W-200916 (580-97589-2), MW-3-W-200916 (580-97589-3), MW-4-W-200916 (580-97589-4), MW-5-W-200916 (580-97589-5), MW-6-W-200916 (580-97589-6), MW-7-W-200916 (580-97589-7), MW-8-W-200916 (580-97589-8), MW-9-W-200916 (580-97589-9), MW-9-W-200916 (580-97589-9[MS]), MW-9-W-200916 (580-97589-9[MSD]), MW-10-W-200916 (580-97589-10), MW-11-W-200916 (580-97589-11), BD-1-W-200916 (580-97589-12), BD-2-W-200916 (580-97589-13), EQB-1-W-200916 (580-97589-14) and Trip Blank (580-97589-15).

Method 8260D: Surrogate recovery for the following sample was outside control limits: MW-5-W-200916 (580-97589-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

6. QC Samples

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

- III. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable (AK Petroleum methods: AK101 60% - 120%, AK102 75% - 125%, AL103 60% - 120%; all other analyses see the laboratory QC pages).

One LCS (n-butylbenzene) %R outside of limit, biased high (%R = 121, limits = 78-120) and identified with an asterisk.

Seven LCSD %R outside of limits (identified with an asterisk): dichlorodifluoromethane %R = 137 (limits = 44 – 133); vinyl chloride %R = 137 (limits = 65 – 130); trichlorofluoromethane %R = 139 (limits = 64 – 130); 1,1-dichloroethene %R = 144 (limits = 70 – 129); 1,1,1,2-tetrachloroethane %R = 124 (limits = 79 – 120); 2-chlorotoluene %R = 123 (limits = 80 – 120); n-butylbenzene %R = 123 (limits = 78 – 120)

- IV. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from

LCS/LCSD, MS/MSD, and sample/sample duplicate. (AK Petroleum methods: 20%; all other analyses see the laboratory QC pages).

Five LCS/LCSD RPD outside of limits (identified with an asterisk followed by a 1): dichlorodifluoromethane RPD = 16 (limit = 15); chloromethane RPD = 19 (limit = 14); vinyl chloride RPD = 19 (limit = 14); bromomethane RPD = 17 (limit = 14); 1,1-dichloroethene RPD = 19 (limit = 17)

All MS/MSD RPDs within limits. %R discrepancies discussed below.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc).
 - a. Defined and appropriate

MS/MSD analysis performed on MW-9-W-200916.

- Seven percent recoveries outside of limits, biased low (identified by laboratory qualifier F1): 1,1-dichloroethane, 1,1,1,2-tetrachloroethane, o-xylene, 1,2-dichlorobenzene, 1,2,4-trichlorobenzene, naphthalene, 1,2,3-trichlorobenzene. XX MSD percent recoveries outside of limits, biased low (identified by laboratory qualifier F1): 1,2-dichloropropane, 1,1,2-trichloroethane, tert-butylbenzene, 1,4-dichlorobenzene, 1,2-dichlorobenzene, 1,2,4-trichlorobenzene, naphthalene. All sample results are non-detected, and non-detected results are already rejected due to cooler temperature (see laboratory report).

ANALYTICAL REPORT

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

Laboratory Job ID: 580-97589-2

Client Project/Site: Former TBE Machine Shop- GE Kenai

For:

ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Anna Hagemeister



Authorized for release by:
10/20/2020 5:01:52 PM

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

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



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions	4
Client Sample Results	5
QC Sample Results	35
Chronicle	43
Certification Summary	46
Sample Summary	47
Receipt Checklists	48

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Job ID: 580-97589-2

Laboratory: Eurofins TestAmerica, Seattle

Narrative

Job Narrative 580-97589-2

Comments

No additional comments.

Receipt

The samples were received on 9/21/2020 9:30 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 14.3° C and 15.8° C.

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: MW-1-W-200916 (580-97589-1), MW-2-W-200916 (580-97589-2), MW-3-W-200916 (580-97589-3), MW-4-W-200916 (580-97589-4), MW-5-W-200916 (580-97589-5), MW-6-W-200916 (580-97589-6), MW-7-W-200916 (580-97589-7), MW-8-W-200916 (580-97589-8), MW-9-W-200916 (580-97589-9), MW-9-W-200916 (580-97589-9[MS]), MW-9-W-200916 (580-97589-9[MSD]), MW-10-W-200916 (580-97589-10), MW-11-W-200916 (580-97589-11), BD-1-W-200916 (580-97589-12), BD-2-W-200916 (580-97589-13), EQB-1-W-200916 (580-97589-14) and Trip Blank (580-97589-15).

GC/MS VOA

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 580-340878 recovered outside control limits for the following analytes: 1,1,1,2-Tetrachloroethane, 1,1-Dichloroethene, 2-Chlorotoluene, Dichlorodifluoromethane, n-Butylbenzene, Trichlorofluoromethane and Vinyl chloride. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 580-340878 recovered outside control limits for the following analytes: 1,1-Dichloroethene, Bromomethane, Chloromethane, Dichlorodifluoromethane and Vinyl chloride.

Method 8260D: The following samples were analyzed outside of analytical holding time due to sample login error: MW-1-W-200916 (580-97589-1), MW-2-W-200916 (580-97589-2), MW-3-W-200916 (580-97589-3), MW-4-W-200916 (580-97589-4), MW-5-W-200916 (580-97589-5), MW-6-W-200916 (580-97589-6), MW-7-W-200916 (580-97589-7), MW-8-W-200916 (580-97589-8), MW-9-W-200916 (580-97589-9), MW-9-W-200916 (580-97589-9[MS]), MW-9-W-200916 (580-97589-9[MSD]), MW-10-W-200916 (580-97589-10), MW-11-W-200916 (580-97589-11), BD-1-W-200916 (580-97589-12), BD-2-W-200916 (580-97589-13), EQB-1-W-200916 (580-97589-14) and Trip Blank (580-97589-15).

Method 8260D: Surrogate recovery for the following sample was outside control limits: MW-5-W-200916 (580-97589-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

VOA Prep

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

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate recovery exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-1-W-200916

Lab Sample ID: 580-97589-1

Date Collected: 09/16/20 13:30

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H**1	10	0.53	ug/L			10/15/20 15:09	1
Chloromethane	ND	H*1	20	0.28	ug/L			10/15/20 15:09	1
Vinyl chloride	ND	H**1	1.0	0.22	ug/L			10/15/20 15:09	1
Bromomethane	ND	H*1	6.0	0.21	ug/L			10/15/20 15:09	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 15:09	1
Trichlorofluoromethane	ND	H	3.0	0.63	ug/L			10/15/20 15:09	1
1,1-Dichloroethene	ND	H**1	4.0	0.28	ug/L			10/15/20 15:09	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 15:09	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 15:09	1
trans-1,2-Dichloroethene	0.40	J H	3.0	0.39	ug/L			10/15/20 15:09	1
1,1-Dichloroethane	4.7	H	2.0	0.22	ug/L			10/15/20 15:09	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 15:09	1
cis-1,2-Dichloroethene	110	H	3.0	0.69	ug/L			10/15/20 15:09	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 15:09	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 15:09	1
1,1,1-Trichloroethane	1.8	J H	3.0	0.39	ug/L			10/15/20 15:09	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 15:09	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 15:09	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 15:09	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 15:09	1
Trichloroethene	12	H	3.0	0.26	ug/L			10/15/20 15:09	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 15:09	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 15:09	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 15:09	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 15:09	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 15:09	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 15:09	1
1,1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 15:09	1
Tetrachloroethene	24	H	3.0	0.41	ug/L			10/15/20 15:09	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 15:09	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 15:09	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 15:09	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 15:09	1
1,1,1,2-Tetrachloroethane	ND	H*	2.0	0.18	ug/L			10/15/20 15:09	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 15:09	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 15:09	1
o-Xylene	ND	H	2.0	0.39	ug/L			10/15/20 15:09	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 15:09	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 15:09	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 15:09	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 15:09	1
1,1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 15:09	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 15:09	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 15:09	1
2-Chlorotoluene	ND	H*	3.0	0.51	ug/L			10/15/20 15:09	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 15:09	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 15:09	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 15:09	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 15:09	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-1-W-200916

Lab Sample ID: 580-97589-1

Date Collected: 09/16/20 13:30

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.93	J H	3.0	0.49	ug/L			10/15/20 15:09	1
4-Isopropyltoluene	ND	H R	3.0	0.28	ug/L			10/15/20 15:09	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 15:09	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 15:09	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 15:09	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 15:09	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 15:09	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 15:09	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 15:09	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 15:09	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 15:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		10/15/20 15:09	1
1,2-Dichloroethane-d4 (Surr)	104		80 - 126		10/15/20 15:09	1
4-Bromofluorobenzene (Surr)	90		80 - 120		10/15/20 15:09	1
Dibromofluoromethane (Surr)	102		80 - 120		10/15/20 15:09	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-2-W-200916

Lab Sample ID: 580-97589-2

Date Collected: 09/16/20 14:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H**1	10	0.53	ug/L			10/15/20 15:34	1
Chloromethane	ND	H*1	20	0.28	ug/L			10/15/20 15:34	1
Vinyl chloride	ND	H**1	1.0	0.22	ug/L			10/15/20 15:34	1
Bromomethane	ND	H*1	6.0	0.21	ug/L			10/15/20 15:34	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 15:34	1
Trichlorofluoromethane	ND	H*	3.0	0.63	ug/L			10/15/20 15:34	1
1,1-Dichloroethene	ND	H**1	4.0	0.28	ug/L			10/15/20 15:34	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 15:34	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 15:34	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 15:34	1
1,1-Dichloroethane	3.9	H	2.0	0.22	ug/L			10/15/20 15:34	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 15:34	1
cis-1,2-Dichloroethene	27	H	3.0	0.69	ug/L			10/15/20 15:34	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 15:34	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 15:34	1
1,1,1-Trichloroethane	ND	H	3.0	0.39	ug/L			10/15/20 15:34	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 15:34	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 15:34	1
Benzene	0.27	JH	3.0	0.24	ug/L			10/15/20 15:34	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 15:34	1
Trichloroethene	ND	H	3.0	0.26	ug/L			10/15/20 15:34	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 15:34	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 15:34	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 15:34	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 15:34	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 15:34	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 15:34	1
1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 15:34	1
Tetrachloroethene	ND	H	3.0	0.41	ug/L			10/15/20 15:34	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 15:34	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 15:34	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 15:34	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 15:34	1
1,1,1,2-Tetrachloroethane	ND	H*	2.0	0.18	ug/L			10/15/20 15:34	1
Ethylbenzene	6.8	H	3.0	0.50	ug/L			10/15/20 15:34	1
m-Xylene & p-Xylene	7.1	H	3.0	0.75	ug/L			10/15/20 15:34	1
o-Xylene	2.2	H	2.0	0.39	ug/L			10/15/20 15:34	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 15:34	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 15:34	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 15:34	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 15:34	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 15:34	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 15:34	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 15:34	1
2-Chlorotoluene	ND	H*	3.0	0.51	ug/L			10/15/20 15:34	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 15:34	1
1,3,5-Trimethylbenzene	0.58	JH	3.0	0.55	ug/L			10/15/20 15:34	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 15:34	1
1,2,4-Trimethylbenzene	1.8	JH	3.0	0.61	ug/L			10/15/20 15:34	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-2-W-200916

Lab Sample ID: 580-97589-2

Date Collected: 09/16/20 14:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.76	JH	3.0	0.49	ug/L			10/15/20 15:34	1
4-Isopropyltoluene	ND	H R	3.0	0.28	ug/L			10/15/20 15:34	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 15:34	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 15:34	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 15:34	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 15:34	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 15:34	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 15:34	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 15:34	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 15:34	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 15:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		10/15/20 15:34	1
1,2-Dichloroethane-d4 (Surr)	102		80 - 126		10/15/20 15:34	1
4-Bromofluorobenzene (Surr)	95		80 - 120		10/15/20 15:34	1
Dibromofluoromethane (Surr)	99		80 - 120		10/15/20 15:34	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-3-W-200916

Lab Sample ID: 580-97589-3

Date Collected: 09/16/20 09:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H**1	10	0.53	ug/L			10/15/20 15:58	1
Chloromethane	ND	H*1	20	0.28	ug/L			10/15/20 15:58	1
Vinyl chloride	ND	H**1	1.0	0.22	ug/L			10/15/20 15:58	1
Bromomethane	ND	H*1	6.0	0.21	ug/L			10/15/20 15:58	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 15:58	1
Trichlorofluoromethane	ND	H*	3.0	0.63	ug/L			10/15/20 15:58	1
1,1-Dichloroethene	ND	H**1	4.0	0.28	ug/L			10/15/20 15:58	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 15:58	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 15:58	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 15:58	1
1,1-Dichloroethane	4.1	H	2.0	0.22	ug/L			10/15/20 15:58	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 15:58	1
cis-1,2-Dichloroethene	5.1	H	3.0	0.69	ug/L			10/15/20 15:58	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 15:58	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 15:58	1
1,1,1-Trichloroethane	1.3	JH	3.0	0.39	ug/L			10/15/20 15:58	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 15:58	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 15:58	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 15:58	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 15:58	1
Trichloroethene	1.2	JH	3.0	0.26	ug/L			10/15/20 15:58	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 15:58	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 15:58	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 15:58	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 15:58	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 15:58	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 15:58	1
1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 15:58	1
Tetrachloroethene	2.2	JH	3.0	0.41	ug/L			10/15/20 15:58	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 15:58	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 15:58	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 15:58	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 15:58	1
1,1,1,2-Tetrachloroethane	ND	H*	2.0	0.18	ug/L			10/15/20 15:58	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 15:58	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 15:58	1
o-Xylene	ND	H	2.0	0.39	ug/L			10/15/20 15:58	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 15:58	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 15:58	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 15:58	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 15:58	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 15:58	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 15:58	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 15:58	1
2-Chlorotoluene	ND	H*	3.0	0.51	ug/L			10/15/20 15:58	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 15:58	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 15:58	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 15:58	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 15:58	1

Eurolins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-3-W-200916

Lab Sample ID: 580-97589-3

Date Collected: 09/16/20 09:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H R	3.0	0.49	ug/L			10/15/20 15:58	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 15:58	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 15:58	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 15:58	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 15:58	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 15:58	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 15:58	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 15:58	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 15:58	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 15:58	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120		10/15/20 15:58	1
1,2-Dichloroethane-d4 (Surr)	102		80 - 126		10/15/20 15:58	1
4-Bromofluorobenzene (Surr)	104		80 - 120		10/15/20 15:58	1
Dibromofluoromethane (Surr)	100		80 - 120		10/15/20 15:58	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-4-W-200916

Lab Sample ID: 580-97589-4

Date Collected: 09/16/20 08:50

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H **1 R	10	0.53	ug/L			10/15/20 16:24	1
Chloromethane	ND	H *1	20	0.28	ug/L			10/15/20 16:24	1
Vinyl chloride	ND	H **1	1.0	0.22	ug/L			10/15/20 16:24	1
Bromomethane	ND	H *1	6.0	0.21	ug/L			10/15/20 16:24	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 16:24	1
Trichlorofluoromethane	ND	H *	3.0	0.63	ug/L			10/15/20 16:24	1
1,1-Dichloroethene	ND	H **1	4.0	0.28	ug/L			10/15/20 16:24	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 16:24	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 16:24	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 16:24	1
1,1-Dichloroethane	ND	H	2.0	0.22	ug/L			10/15/20 16:24	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 16:24	1
cis-1,2-Dichloroethene	ND	H	3.0	0.69	ug/L			10/15/20 16:24	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 16:24	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 16:24	1
1,1,1-Trichloroethane	2.6	J H	3.0	0.39	ug/L			10/15/20 16:24	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 16:24	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 16:24	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 16:24	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 16:24	1
Trichloroethene	4.6	H	3.0	0.26	ug/L			10/15/20 16:24	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 16:24	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 16:24	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 16:24	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 16:24	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 16:24	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 16:24	1
1,1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 16:24	1
Tetrachloroethene	14	H	3.0	0.41	ug/L			10/15/20 16:24	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 16:24	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 16:24	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 16:24	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 16:24	1
1,1,1,2-Tetrachloroethane	ND	H *	2.0	0.18	ug/L			10/15/20 16:24	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 16:24	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 16:24	1
o-Xylene	ND	H	2.0	0.39	ug/L			10/15/20 16:24	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 16:24	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 16:24	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 16:24	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 16:24	1
1,1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 16:24	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 16:24	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 16:24	1
2-Chlorotoluene	ND	H *	3.0	0.51	ug/L			10/15/20 16:24	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 16:24	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 16:24	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 16:24	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 16:24	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-4-W-200916

Lab Sample ID: 580-97589-4

Date Collected: 09/16/20 08:50

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H	3.0	0.49	ug/L			10/15/20 16:24	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 16:24	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 16:24	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 16:24	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 16:24	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 16:24	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 16:24	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 16:24	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 16:24	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 16:24	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 16:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120		10/15/20 16:24	1
1,2-Dichloroethane-d4 (Surr)	105		80 - 126		10/15/20 16:24	1
4-Bromofluorobenzene (Surr)	94		80 - 120		10/15/20 16:24	1
Dibromofluoromethane (Surr)	99		80 - 120		10/15/20 16:24	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-5-W-200916

Lab Sample ID: 580-97589-5

Date Collected: 09/16/20 12:10

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H**1	10	0.53	ug/L			10/15/20 16:49	1
Chloromethane	ND	H*1	20	0.28	ug/L			10/15/20 16:49	1
Vinyl chloride	ND	H**1	1.0	0.22	ug/L			10/15/20 16:49	1
Bromomethane	ND	H*1	6.0	0.21	ug/L			10/15/20 16:49	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 16:49	1
Trichlorofluoromethane	ND	H*	3.0	0.63	ug/L			10/15/20 16:49	1
1,1-Dichloroethene	ND	H**1	4.0	0.28	ug/L			10/15/20 16:49	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 16:49	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 16:49	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 16:49	1
1,1-Dichloroethane	1.2	JH	2.0	0.22	ug/L			10/15/20 16:49	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 16:49	1
cis-1,2-Dichloroethene	50	H	3.0	0.69	ug/L			10/15/20 16:49	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 16:49	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 16:49	1
1,1,1-Trichloroethane	ND	H	3.0	0.39	ug/L			10/15/20 16:49	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 16:49	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 16:49	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 16:49	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 16:49	1
Trichloroethene	ND	H	3.0	0.26	ug/L			10/15/20 16:49	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 16:49	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 16:49	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 16:49	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 16:49	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 16:49	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 16:49	1
1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 16:49	1
Tetrachloroethene	ND	H	3.0	0.41	ug/L			10/15/20 16:49	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 16:49	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 16:49	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 16:49	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 16:49	1
1,1,1,2-Tetrachloroethane	ND	H*	2.0	0.18	ug/L			10/15/20 16:49	1
Ethylbenzene	89	H	3.0	0.50	ug/L			10/15/20 16:49	1
m-Xylene & p-Xylene	130	H	3.0	0.75	ug/L			10/15/20 16:49	1
o-Xylene	4.5	H	2.0	0.39	ug/L			10/15/20 16:49	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 16:49	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 16:49	1
Isopropylbenzene	1.0	JH	2.0	0.44	ug/L			10/15/20 16:49	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 16:49	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 16:49	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 16:49	1
N-Propylbenzene	0.73	JH	3.0	0.50	ug/L			10/15/20 16:49	1
2-Chlorotoluene	ND	H*	3.0	0.51	ug/L			10/15/20 16:49	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 16:49	1
1,3,5-Trimethylbenzene	15	H	3.0	0.55	ug/L			10/15/20 16:49	1
tert-Butylbenzene	1.2	JH	3.0	0.58	ug/L			10/15/20 16:49	1
1,2,4-Trimethylbenzene	20	H	3.0	0.61	ug/L			10/15/20 16:49	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-5-W-200916

Lab Sample ID: 580-97589-5

Date Collected: 09/16/20 12:10

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND H	R	3.0	0.49	ug/L			10/15/20 16:49	1
4-Isopropyltoluene	3.0 H	J	3.0	0.28	ug/L			10/15/20 16:49	1
1,3-Dichlorobenzene	0.33 JH		2.0	0.18	ug/L			10/15/20 16:49	1
1,4-Dichlorobenzene	2.4 JH		4.0	0.46	ug/L			10/15/20 16:49	1
n-Butylbenzene	ND H	R	3.0	0.44	ug/L			10/15/20 16:49	1
1,2-Dichlorobenzene	1.2 JH		2.0	0.46	ug/L			10/15/20 16:49	1
1,2-Dibromo-3-Chloropropane	ND H	R	10	0.57	ug/L			10/15/20 16:49	1
1,2,4-Trichlorobenzene	ND H	R	2.0	0.33	ug/L			10/15/20 16:49	1
Hexachlorobutadiene	ND H	R	6.0	0.79	ug/L			10/15/20 16:49	1
Naphthalene	2.2 JH		4.0	0.93	ug/L			10/15/20 16:49	1
1,2,3-Trichlorobenzene	ND H	R	5.0	0.43	ug/L			10/15/20 16:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	113		80 - 120		10/15/20 16:49	1
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		10/15/20 16:49	1
4-Bromofluorobenzene (Surr)	128 X		80 - 120		10/15/20 16:49	1
Dibromofluoromethane (Surr)	113		80 - 120		10/15/20 16:49	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-6-W-200916

Lab Sample ID: 580-97589-6

Date Collected: 09/16/20 10:15

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H **1 R	10	0.53	ug/L			10/15/20 17:13	1
Chloromethane	ND	H *1	20	0.28	ug/L			10/15/20 17:13	1
Vinyl chloride	ND	H **1	1.0	0.22	ug/L			10/15/20 17:13	1
Bromomethane	ND	H *1	6.0	0.21	ug/L			10/15/20 17:13	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 17:13	1
Trichlorofluoromethane	ND	H *	3.0	0.63	ug/L			10/15/20 17:13	1
1,1-Dichloroethene	ND	H **1	4.0	0.28	ug/L			10/15/20 17:13	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 17:13	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 17:13	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 17:13	1
1,1-Dichloroethane	ND	H	2.0	0.22	ug/L			10/15/20 17:13	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 17:13	1
cis-1,2-Dichloroethene	ND	H	3.0	0.69	ug/L			10/15/20 17:13	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 17:13	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 17:13	1
1,1,1-Trichloroethane	ND	H	3.0	0.39	ug/L			10/15/20 17:13	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 17:13	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 17:13	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 17:13	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 17:13	1
Trichloroethene	ND	H	3.0	0.26	ug/L			10/15/20 17:13	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 17:13	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 17:13	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 17:13	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 17:13	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 17:13	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 17:13	1
1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 17:13	1
Tetrachloroethene	ND	H	3.0	0.41	ug/L			10/15/20 17:13	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 17:13	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 17:13	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 17:13	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 17:13	1
1,1,1,2-Tetrachloroethane	ND	H *	2.0	0.18	ug/L			10/15/20 17:13	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 17:13	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 17:13	1
o-Xylene	ND	H	2.0	0.39	ug/L			10/15/20 17:13	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 17:13	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 17:13	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 17:13	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 17:13	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 17:13	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 17:13	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 17:13	1
2-Chlorotoluene	ND	H *	3.0	0.51	ug/L			10/15/20 17:13	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 17:13	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 17:13	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 17:13	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 17:13	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-6-W-200916

Lab Sample ID: 580-97589-6

Date Collected: 09/16/20 10:15

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H R	3.0	0.49	ug/L			10/15/20 17:13	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 17:13	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 17:13	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 17:13	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 17:13	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 17:13	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 17:13	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 17:13	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 17:13	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 17:13	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 17:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120		10/15/20 17:13	1
1,2-Dichloroethane-d4 (Surr)	104		80 - 126		10/15/20 17:13	1
4-Bromofluorobenzene (Surr)	97		80 - 120		10/15/20 17:13	1
Dibromofluoromethane (Surr)	108		80 - 120		10/15/20 17:13	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-7-W-200916

Lab Sample ID: 580-97589-7

Date Collected: 09/16/20 13:30

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H**1	10	0.53	ug/L			10/15/20 17:39	1
Chloromethane	ND	H*1	20	0.28	ug/L			10/15/20 17:39	1
Vinyl chloride	ND	H**1	1.0	0.22	ug/L			10/15/20 17:39	1
Bromomethane	ND	H*1	6.0	0.21	ug/L			10/15/20 17:39	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 17:39	1
Trichlorofluoromethane	ND	H*	3.0	0.63	ug/L			10/15/20 17:39	1
1,1-Dichloroethene	ND	H**1	4.0	0.28	ug/L			10/15/20 17:39	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 17:39	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 17:39	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 17:39	1
1,1-Dichloroethane	ND	H	2.0	0.22	ug/L			10/15/20 17:39	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 17:39	1
cis-1,2-Dichloroethene	ND	H	3.0	0.69	ug/L			10/15/20 17:39	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 17:39	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 17:39	1
1,1,1-Trichloroethane	0.70	JH	3.0	0.39	ug/L			10/15/20 17:39	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 17:39	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 17:39	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 17:39	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 17:39	1
Trichloroethene	0.86	JH	3.0	0.26	ug/L			10/15/20 17:39	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 17:39	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 17:39	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 17:39	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 17:39	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 17:39	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 17:39	1
1,1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 17:39	1
Tetrachloroethene	10	H	3.0	0.41	ug/L			10/15/20 17:39	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 17:39	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 17:39	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 17:39	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 17:39	1
1,1,1,2-Tetrachloroethane	ND	H*	2.0	0.18	ug/L			10/15/20 17:39	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 17:39	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 17:39	1
o-Xylene	ND	H	2.0	0.39	ug/L			10/15/20 17:39	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 17:39	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 17:39	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 17:39	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 17:39	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 17:39	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 17:39	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 17:39	1
2-Chlorotoluene	ND	H*	3.0	0.51	ug/L			10/15/20 17:39	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 17:39	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 17:39	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 17:39	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 17:39	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-7-W-200916

Lab Sample ID: 580-97589-7

Date Collected: 09/16/20 13:30

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H R	3.0	0.49	ug/L			10/15/20 17:39	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 17:39	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 17:39	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 17:39	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 17:39	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 17:39	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 17:39	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 17:39	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 17:39	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 17:39	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		10/15/20 17:39	1
1,2-Dichloroethane-d4 (Surr)	107		80 - 126		10/15/20 17:39	1
4-Bromofluorobenzene (Surr)	95		80 - 120		10/15/20 17:39	1
Dibromofluoromethane (Surr)	99		80 - 120		10/15/20 17:39	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-8-W-200916

Lab Sample ID: 580-97589-8

Date Collected: 09/16/20 11:10

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H **1	10	0.53	ug/L			10/15/20 18:03	1
Chloromethane	ND	H *1	20	0.28	ug/L			10/15/20 18:03	1
Vinyl chloride	ND	H **1	1.0	0.22	ug/L			10/15/20 18:03	1
Bromomethane	ND	H *1	6.0	0.21	ug/L			10/15/20 18:03	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 18:03	1
Trichlorofluoromethane	ND	H *	3.0	0.63	ug/L			10/15/20 18:03	1
1,1-Dichloroethene	ND	H **1	4.0	0.28	ug/L			10/15/20 18:03	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 18:03	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 18:03	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 18:03	1
1,1-Dichloroethane	ND	H	2.0	0.22	ug/L			10/15/20 18:03	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 18:03	1
cis-1,2-Dichloroethene	ND	H	3.0	0.69	ug/L			10/15/20 18:03	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 18:03	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 18:03	1
1,1,1-Trichloroethane	ND	H	3.0	0.39	ug/L			10/15/20 18:03	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 18:03	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 18:03	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 18:03	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 18:03	1
Trichloroethene	ND	H	3.0	0.26	ug/L			10/15/20 18:03	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 18:03	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 18:03	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 18:03	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 18:03	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 18:03	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 18:03	1
1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 18:03	1
Tetrachloroethene	ND	H	3.0	0.41	ug/L			10/15/20 18:03	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 18:03	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 18:03	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 18:03	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 18:03	1
1,1,1,2-Tetrachloroethane	ND	H *	2.0	0.18	ug/L			10/15/20 18:03	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 18:03	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 18:03	1
o-Xylene	ND	H	2.0	0.39	ug/L			10/15/20 18:03	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 18:03	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 18:03	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 18:03	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 18:03	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 18:03	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 18:03	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 18:03	1
2-Chlorotoluene	ND	H *	3.0	0.51	ug/L			10/15/20 18:03	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 18:03	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 18:03	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 18:03	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 18:03	1



Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-8-W-200916

Lab Sample ID: 580-97589-8

Date Collected: 09/16/20 11:10

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H R	3.0	0.49	ug/L			10/15/20 18:03	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 18:03	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 18:03	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 18:03	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 18:03	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 18:03	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 18:03	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 18:03	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 18:03	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 18:03	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120		10/15/20 18:03	1
1,2-Dichloroethane-d4 (Surr)	106		80 - 126		10/15/20 18:03	1
4-Bromofluorobenzene (Surr)	102		80 - 120		10/15/20 18:03	1
Dibromofluoromethane (Surr)	103		80 - 120		10/15/20 18:03	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-9-W-200916

Lab Sample ID: 580-97589-9

Date Collected: 09/16/20 12:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H**1	10	0.53	ug/L			10/15/20 18:28	1
Chloromethane	ND	H*1	20	0.28	ug/L			10/15/20 18:28	1
Vinyl chloride	ND	H**1	1.0	0.22	ug/L			10/15/20 18:28	1
Bromomethane	ND	H*1	6.0	0.21	ug/L			10/15/20 18:28	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 18:28	1
Trichlorofluoromethane	ND	H*	3.0	0.63	ug/L			10/15/20 18:28	1
1,1-Dichloroethene	ND	H**1	4.0	0.28	ug/L			10/15/20 18:28	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 18:28	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 18:28	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 18:28	1
1,1-Dichloroethane	ND	H F1	2.0	0.22	ug/L			10/15/20 18:28	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 18:28	1
cis-1,2-Dichloroethene	ND	H	3.0	0.69	ug/L			10/15/20 18:28	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 18:28	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 18:28	1
1,1,1-Trichloroethane	ND	H	3.0	0.39	ug/L			10/15/20 18:28	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 18:28	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 18:28	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 18:28	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 18:28	1
Trichloroethene	ND	H	3.0	0.26	ug/L			10/15/20 18:28	1
1,2-Dichloropropane	ND	H F1	1.0	0.18	ug/L			10/15/20 18:28	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 18:28	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 18:28	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 18:28	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 18:28	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 18:28	1
1,1,2-Trichloroethane	ND	H F1	1.0	0.24	ug/L			10/15/20 18:28	1
Tetrachloroethene	ND	H	3.0	0.41	ug/L			10/15/20 18:28	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 18:28	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 18:28	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 18:28	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 18:28	1
1,1,1,2-Tetrachloroethane	ND	H* F1	2.0	0.18	ug/L			10/15/20 18:28	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 18:28	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 18:28	1
o-Xylene	ND	H F1	2.0	0.39	ug/L			10/15/20 18:28	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 18:28	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 18:28	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 18:28	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 18:28	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 18:28	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 18:28	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 18:28	1
2-Chlorotoluene	ND	H*	3.0	0.51	ug/L			10/15/20 18:28	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 18:28	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 18:28	1
tert-Butylbenzene	ND	H F1	3.0	0.58	ug/L			10/15/20 18:28	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 18:28	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-9-W-200916

Lab Sample ID: 580-97589-9

Date Collected: 09/16/20 12:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H R	3.0	0.49	ug/L			10/15/20 18:28	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 18:28	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 18:28	1
1,4-Dichlorobenzene	ND	H F1	4.0	0.46	ug/L			10/15/20 18:28	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 18:28	1
1,2-Dichlorobenzene	ND	H F1	2.0	0.46	ug/L			10/15/20 18:28	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 18:28	1
1,2,4-Trichlorobenzene	ND	H F1	2.0	0.33	ug/L			10/15/20 18:28	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 18:28	1
Naphthalene	ND	H F1	4.0	0.93	ug/L			10/15/20 18:28	1
1,2,3-Trichlorobenzene	ND	H F1	5.0	0.43	ug/L			10/15/20 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		10/15/20 18:28	1
1,2-Dichloroethane-d4 (Surr)	102		80 - 126		10/15/20 18:28	1
4-Bromofluorobenzene (Surr)	95		80 - 120		10/15/20 18:28	1
Dibromofluoromethane (Surr)	97		80 - 120		10/15/20 18:28	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-10-W-200916

Lab Sample ID: 580-97589-10

Date Collected: 09/16/20 11:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H**1	10	0.53	ug/L			10/15/20 19:43	1
Chloromethane	ND	H*1	20	0.28	ug/L			10/15/20 19:43	1
Vinyl chloride	ND	H**1	1.0	0.22	ug/L			10/15/20 19:43	1
Bromomethane	ND	H*1	6.0	0.21	ug/L			10/15/20 19:43	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 19:43	1
Trichlorofluoromethane	ND	H*	3.0	0.63	ug/L			10/15/20 19:43	1
1,1-Dichloroethene	ND	H**1	4.0	0.28	ug/L			10/15/20 19:43	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 19:43	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 19:43	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 19:43	1
1,1-Dichloroethane	ND	H	2.0	0.22	ug/L			10/15/20 19:43	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 19:43	1
cis-1,2-Dichloroethene	ND	H	3.0	0.69	ug/L			10/15/20 19:43	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 19:43	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 19:43	1
1,1,1-Trichloroethane	ND	H	3.0	0.39	ug/L			10/15/20 19:43	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 19:43	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 19:43	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 19:43	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 19:43	1
Trichloroethene	ND	H	3.0	0.26	ug/L			10/15/20 19:43	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 19:43	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 19:43	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 19:43	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 19:43	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 19:43	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 19:43	1
1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 19:43	1
Tetrachloroethene	ND	H	3.0	0.41	ug/L			10/15/20 19:43	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 19:43	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 19:43	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 19:43	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 19:43	1
1,1,1,2-Tetrachloroethane	ND	H*	2.0	0.18	ug/L			10/15/20 19:43	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 19:43	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 19:43	1
o-Xylene	ND	H	2.0	0.39	ug/L			10/15/20 19:43	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 19:43	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 19:43	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 19:43	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 19:43	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 19:43	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 19:43	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 19:43	1
2-Chlorotoluene	ND	H*	3.0	0.51	ug/L			10/15/20 19:43	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 19:43	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 19:43	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 19:43	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 19:43	1

Eurolins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-10-W-200916

Lab Sample ID: 580-97589-10

Date Collected: 09/16/20 11:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H R	3.0	0.49	ug/L			10/15/20 19:43	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 19:43	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 19:43	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 19:43	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 19:43	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 19:43	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 19:43	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 19:43	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 19:43	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 19:43	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120		10/15/20 19:43	1
1,2-Dichloroethane-d4 (Surr)	104		80 - 126		10/15/20 19:43	1
4-Bromofluorobenzene (Surr)	99		80 - 120		10/15/20 19:43	1
Dibromofluoromethane (Surr)	102		80 - 120		10/15/20 19:43	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-11-W-200916

Lab Sample ID: 580-97589-11

Date Collected: 09/16/20 10:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H**1 R	10	0.53	ug/L			10/15/20 20:07	1
Chloromethane	ND	H*1	20	0.28	ug/L			10/15/20 20:07	1
Vinyl chloride	ND	H**1	1.0	0.22	ug/L			10/15/20 20:07	1
Bromomethane	ND	H*1	6.0	0.21	ug/L			10/15/20 20:07	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 20:07	1
Trichlorofluoromethane	ND	H*	3.0	0.63	ug/L			10/15/20 20:07	1
1,1-Dichloroethene	ND	H**1	4.0	0.28	ug/L			10/15/20 20:07	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 20:07	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 20:07	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 20:07	1
1,1-Dichloroethane	ND	H	2.0	0.22	ug/L			10/15/20 20:07	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 20:07	1
cis-1,2-Dichloroethene	ND	H	3.0	0.69	ug/L			10/15/20 20:07	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 20:07	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 20:07	1
1,1,1-Trichloroethane	ND	H	3.0	0.39	ug/L			10/15/20 20:07	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 20:07	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 20:07	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 20:07	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 20:07	1
Trichloroethene	ND	H	3.0	0.26	ug/L			10/15/20 20:07	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 20:07	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 20:07	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 20:07	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 20:07	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 20:07	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 20:07	1
1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 20:07	1
Tetrachloroethene	ND	H	3.0	0.41	ug/L			10/15/20 20:07	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 20:07	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 20:07	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 20:07	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 20:07	1
1,1,1,2-Tetrachloroethane	ND	H*	2.0	0.18	ug/L			10/15/20 20:07	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 20:07	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 20:07	1
o-Xylene	ND	H	2.0	0.39	ug/L			10/15/20 20:07	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 20:07	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 20:07	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 20:07	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 20:07	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 20:07	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 20:07	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 20:07	1
2-Chlorotoluene	ND	H*	3.0	0.51	ug/L			10/15/20 20:07	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 20:07	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 20:07	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 20:07	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 20:07	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-11-W-200916

Lab Sample ID: 580-97589-11

Date Collected: 09/16/20 10:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H R	3.0	0.49	ug/L			10/15/20 20:07	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 20:07	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 20:07	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 20:07	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 20:07	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 20:07	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 20:07	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 20:07	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 20:07	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 20:07	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 20:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120		10/15/20 20:07	1
1,2-Dichloroethane-d4 (Surr)	105		80 - 126		10/15/20 20:07	1
4-Bromofluorobenzene (Surr)	93		80 - 120		10/15/20 20:07	1
Dibromofluoromethane (Surr)	99		80 - 120		10/15/20 20:07	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: BD-1-W-200916

Lab Sample ID: 580-97589-12

Date Collected: 09/16/20 00:01

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H**1	10	0.53	ug/L			10/15/20 20:32	1
Chloromethane	ND	H*1	20	0.28	ug/L			10/15/20 20:32	1
Vinyl chloride	ND	H**1	1.0	0.22	ug/L			10/15/20 20:32	1
Bromomethane	ND	H*1	6.0	0.21	ug/L			10/15/20 20:32	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 20:32	1
Trichlorofluoromethane	ND	H*	3.0	0.63	ug/L			10/15/20 20:32	1
1,1-Dichloroethene	ND	H**1	4.0	0.28	ug/L			10/15/20 20:32	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 20:32	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 20:32	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 20:32	1
1,1-Dichloroethane	ND	H	2.0	0.22	ug/L			10/15/20 20:32	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 20:32	1
cis-1,2-Dichloroethene	ND	H	3.0	0.69	ug/L			10/15/20 20:32	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 20:32	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 20:32	1
1,1,1-Trichloroethane	2.4	JH	3.0	0.39	ug/L			10/15/20 20:32	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 20:32	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 20:32	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 20:32	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 20:32	1
Trichloroethene	4.1	H	3.0	0.26	ug/L			10/15/20 20:32	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 20:32	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 20:32	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 20:32	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 20:32	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 20:32	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 20:32	1
1,1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 20:32	1
Tetrachloroethene	14	H	3.0	0.41	ug/L			10/15/20 20:32	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 20:32	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 20:32	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 20:32	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 20:32	1
1,1,1,2-Tetrachloroethane	ND	H*	2.0	0.18	ug/L			10/15/20 20:32	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 20:32	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 20:32	1
o-Xylene	ND	H	2.0	0.39	ug/L			10/15/20 20:32	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 20:32	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 20:32	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 20:32	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 20:32	1
1,1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 20:32	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 20:32	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 20:32	1
2-Chlorotoluene	ND	H*	3.0	0.51	ug/L			10/15/20 20:32	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 20:32	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 20:32	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 20:32	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 20:32	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: BD-1-W-200916

Lab Sample ID: 580-97589-12

Date Collected: 09/16/20 00:01

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H R	3.0	0.49	ug/L			10/15/20 20:32	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 20:32	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 20:32	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 20:32	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 20:32	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 20:32	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 20:32	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 20:32	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 20:32	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 20:32	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 20:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		10/15/20 20:32	1
1,2-Dichloroethane-d4 (Surr)	103		80 - 126		10/15/20 20:32	1
4-Bromofluorobenzene (Surr)	94		80 - 120		10/15/20 20:32	1
Dibromofluoromethane (Surr)	105		80 - 120		10/15/20 20:32	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: BD-2-W-200916

Lab Sample ID: 580-97589-13

Date Collected: 09/16/20 00:01

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H**1	10	0.53	ug/L			10/15/20 20:58	1
Chloromethane	ND	H*1	20	0.28	ug/L			10/15/20 20:58	1
Vinyl chloride	ND	H**1	1.0	0.22	ug/L			10/15/20 20:58	1
Bromomethane	ND	H*1	6.0	0.21	ug/L			10/15/20 20:58	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 20:58	1
Trichlorofluoromethane	ND	H*	3.0	0.63	ug/L			10/15/20 20:58	1
1,1-Dichloroethene	ND	H**1	4.0	0.28	ug/L			10/15/20 20:58	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 20:58	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 20:58	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 20:58	1
1,1-Dichloroethane	0.89	JH	2.0	0.22	ug/L			10/15/20 20:58	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 20:58	1
cis-1,2-Dichloroethene	37	H	3.0	0.69	ug/L			10/15/20 20:58	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 20:58	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 20:58	1
1,1,1-Trichloroethane	ND	H	3.0	0.39	ug/L			10/15/20 20:58	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 20:58	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 20:58	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 20:58	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 20:58	1
Trichloroethene	ND	H	3.0	0.26	ug/L			10/15/20 20:58	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 20:58	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 20:58	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 20:58	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 20:58	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 20:58	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 20:58	1
1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 20:58	1
Tetrachloroethene	ND	H	3.0	0.41	ug/L			10/15/20 20:58	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 20:58	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 20:58	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 20:58	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 20:58	1
1,1,1,2-Tetrachloroethane	ND	H*	2.0	0.18	ug/L			10/15/20 20:58	1
Ethylbenzene	78	H	3.0	0.50	ug/L			10/15/20 20:58	1
m-Xylene & p-Xylene	110	H	3.0	0.75	ug/L			10/15/20 20:58	1
o-Xylene	3.6	H	2.0	0.39	ug/L			10/15/20 20:58	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 20:58	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 20:58	1
Isopropylbenzene	0.73	JH	2.0	0.44	ug/L			10/15/20 20:58	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 20:58	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 20:58	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 20:58	1
N-Propylbenzene	0.72	JH	3.0	0.50	ug/L			10/15/20 20:58	1
2-Chlorotoluene	ND	H*	3.0	0.51	ug/L			10/15/20 20:58	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 20:58	1
1,3,5-Trimethylbenzene	14	H	3.0	0.55	ug/L			10/15/20 20:58	1
tert-Butylbenzene	1.1	JH	3.0	0.58	ug/L			10/15/20 20:58	1
1,2,4-Trimethylbenzene	18	H	3.0	0.61	ug/L			10/15/20 20:58	1

Eurolins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: BD-2-W-200916

Lab Sample ID: 580-97589-13

Date Collected: 09/16/20 00:01

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H R	3.0	0.49	ug/L			10/15/20 20:58	1
4-Isopropyltoluene	2.6	JH	3.0	0.28	ug/L			10/15/20 20:58	1
1,3-Dichlorobenzene	ND	H R	2.0	0.18	ug/L			10/15/20 20:58	1
1,4-Dichlorobenzene	2.7	JH	4.0	0.46	ug/L			10/15/20 20:58	1
n-Butylbenzene	ND	H* R	3.0	0.44	ug/L			10/15/20 20:58	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 20:58	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 20:58	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 20:58	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 20:58	1
Naphthalene	2.0	JH	4.0	0.93	ug/L			10/15/20 20:58	1
1,2,3-Trichlorobenzene	ND	H R	5.0	0.43	ug/L			10/15/20 20:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		80 - 120		10/15/20 20:58	1
1,2-Dichloroethane-d4 (Surr)	106		80 - 126		10/15/20 20:58	1
4-Bromofluorobenzene (Surr)	113		80 - 120		10/15/20 20:58	1
Dibromofluoromethane (Surr)	101		80 - 120		10/15/20 20:58	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: EQB-1-W-200916

Lab Sample ID: 580-97589-14

Date Collected: 09/16/20 08:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H**1 R	10	0.53	ug/L			10/15/20 21:22	1
Chloromethane	ND	H*1	20	0.28	ug/L			10/15/20 21:22	1
Vinyl chloride	ND	H**1	1.0	0.22	ug/L			10/15/20 21:22	1
Bromomethane	ND	H*1	6.0	0.21	ug/L			10/15/20 21:22	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 21:22	1
Trichlorofluoromethane	ND	H*	3.0	0.63	ug/L			10/15/20 21:22	1
1,1-Dichloroethene	ND	H**1	4.0	0.28	ug/L			10/15/20 21:22	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 21:22	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 21:22	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 21:22	1
1,1-Dichloroethane	ND	H	2.0	0.22	ug/L			10/15/20 21:22	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 21:22	1
cis-1,2-Dichloroethene	ND	H	3.0	0.69	ug/L			10/15/20 21:22	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 21:22	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 21:22	1
1,1,1-Trichloroethane	ND	H	3.0	0.39	ug/L			10/15/20 21:22	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 21:22	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 21:22	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 21:22	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 21:22	1
Trichloroethene	ND	H	3.0	0.26	ug/L			10/15/20 21:22	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 21:22	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 21:22	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 21:22	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 21:22	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 21:22	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 21:22	1
1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 21:22	1
Tetrachloroethene	ND	H	3.0	0.41	ug/L			10/15/20 21:22	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 21:22	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 21:22	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 21:22	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 21:22	1
1,1,1,2-Tetrachloroethane	ND	H*	2.0	0.18	ug/L			10/15/20 21:22	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 21:22	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 21:22	1
o-Xylene	ND	H	2.0	0.39	ug/L			10/15/20 21:22	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 21:22	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 21:22	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 21:22	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 21:22	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 21:22	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 21:22	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 21:22	1
2-Chlorotoluene	ND	H*	3.0	0.51	ug/L			10/15/20 21:22	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 21:22	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 21:22	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 21:22	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 21:22	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: EQB-1-W-200916

Lab Sample ID: 580-97589-14

Date Collected: 09/16/20 08:00

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H	3.0	0.49	ug/L			10/15/20 21:22	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 21:22	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 21:22	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 21:22	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 21:22	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 21:22	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 21:22	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 21:22	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 21:22	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 21:22	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 21:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		10/15/20 21:22	1
1,2-Dichloroethane-d4 (Surr)	107		80 - 126		10/15/20 21:22	1
4-Bromofluorobenzene (Surr)	95		80 - 120		10/15/20 21:22	1
Dibromofluoromethane (Surr)	109		80 - 120		10/15/20 21:22	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: Trip Blank

Lab Sample ID: 580-97589-15

Date Collected: 09/16/20 00:01

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H**1	10	0.53	ug/L			10/15/20 14:44	1
Chloromethane	ND	H*1	20	0.28	ug/L			10/15/20 14:44	1
Vinyl chloride	ND	H**1	1.0	0.22	ug/L			10/15/20 14:44	1
Bromomethane	ND	H*1	6.0	0.21	ug/L			10/15/20 14:44	1
Chloroethane	ND	H	5.0	0.35	ug/L			10/15/20 14:44	1
Trichlorofluoromethane	ND	H*	3.0	0.63	ug/L			10/15/20 14:44	1
1,1-Dichloroethene	ND	H**1	4.0	0.28	ug/L			10/15/20 14:44	1
Methylene Chloride	ND	H	5.0	1.4	ug/L			10/15/20 14:44	1
Methyl tert-butyl ether	ND	H	2.0	0.44	ug/L			10/15/20 14:44	1
trans-1,2-Dichloroethene	ND	H	3.0	0.39	ug/L			10/15/20 14:44	1
1,1-Dichloroethane	ND	H	2.0	0.22	ug/L			10/15/20 14:44	1
2,2-Dichloropropane	ND	H	3.0	0.32	ug/L			10/15/20 14:44	1
cis-1,2-Dichloroethene	ND	H	3.0	0.69	ug/L			10/15/20 14:44	1
Chlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 14:44	1
Chloroform	ND	H	5.0	0.26	ug/L			10/15/20 14:44	1
1,1,1-Trichloroethane	ND	H	3.0	0.39	ug/L			10/15/20 14:44	1
Carbon tetrachloride	ND	H	3.0	0.30	ug/L			10/15/20 14:44	1
1,1-Dichloropropene	ND	H	3.0	0.29	ug/L			10/15/20 14:44	1
Benzene	ND	H	3.0	0.24	ug/L			10/15/20 14:44	1
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			10/15/20 14:44	1
Trichloroethene	ND	H	3.0	0.26	ug/L			10/15/20 14:44	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			10/15/20 14:44	1
Dibromomethane	ND	H	2.0	0.34	ug/L			10/15/20 14:44	1
Dichlorobromomethane	ND	H	2.0	0.29	ug/L			10/15/20 14:44	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			10/15/20 14:44	1
Toluene	ND	H	2.0	0.39	ug/L			10/15/20 14:44	1
trans-1,3-Dichloropropene	ND	H	1.0	0.16	ug/L			10/15/20 14:44	1
1,1,2-Trichloroethane	ND	H	1.0	0.24	ug/L			10/15/20 14:44	1
Tetrachloroethene	ND	H	3.0	0.41	ug/L			10/15/20 14:44	1
1,3-Dichloropropane	ND	H	2.0	0.35	ug/L			10/15/20 14:44	1
Chlorodibromomethane	ND	H	2.0	0.43	ug/L			10/15/20 14:44	1
Ethylene Dibromide	ND	H	2.0	0.40	ug/L			10/15/20 14:44	1
Chlorobenzene	ND	H	2.0	0.44	ug/L			10/15/20 14:44	1
1,1,1,2-Tetrachloroethane	ND	H*	2.0	0.18	ug/L			10/15/20 14:44	1
Ethylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 14:44	1
m-Xylene & p-Xylene	ND	H	3.0	0.75	ug/L			10/15/20 14:44	1
o-Xylene	ND	H	2.0	0.39	ug/L			10/15/20 14:44	1
Styrene	ND	H	5.0	1.0	ug/L			10/15/20 14:44	1
Bromoform	ND	H	3.0	0.56	ug/L			10/15/20 14:44	1
Isopropylbenzene	ND	H	2.0	0.44	ug/L			10/15/20 14:44	1
Bromobenzene	ND	H	2.0	0.43	ug/L			10/15/20 14:44	1
1,1,2,2-Tetrachloroethane	ND	H	3.0	0.52	ug/L			10/15/20 14:44	1
1,2,3-Trichloropropane	ND	H	2.0	0.41	ug/L			10/15/20 14:44	1
N-Propylbenzene	ND	H	3.0	0.50	ug/L			10/15/20 14:44	1
2-Chlorotoluene	ND	H*	3.0	0.51	ug/L			10/15/20 14:44	1
4-Chlorotoluene	ND	H	2.0	0.38	ug/L			10/15/20 14:44	1
1,3,5-Trimethylbenzene	ND	H	3.0	0.55	ug/L			10/15/20 14:44	1
tert-Butylbenzene	ND	H	3.0	0.58	ug/L			10/15/20 14:44	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			10/15/20 14:44	1

Eurofins TestAmerica, Seattle

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: Trip Blank

Lab Sample ID: 580-97589-15

Date Collected: 09/16/20 00:01

Matrix: Water

Date Received: 09/21/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	H	3.0	0.49	ug/L			10/15/20 14:44	1
4-Isopropyltoluene	ND	H	3.0	0.28	ug/L			10/15/20 14:44	1
1,3-Dichlorobenzene	ND	H	2.0	0.18	ug/L			10/15/20 14:44	1
1,4-Dichlorobenzene	ND	H	4.0	0.46	ug/L			10/15/20 14:44	1
n-Butylbenzene	ND	H *	3.0	0.44	ug/L			10/15/20 14:44	1
1,2-Dichlorobenzene	ND	H	2.0	0.46	ug/L			10/15/20 14:44	1
1,2-Dibromo-3-Chloropropane	ND	H	10	0.57	ug/L			10/15/20 14:44	1
1,2,4-Trichlorobenzene	ND	H	2.0	0.33	ug/L			10/15/20 14:44	1
Hexachlorobutadiene	ND	H	6.0	0.79	ug/L			10/15/20 14:44	1
Naphthalene	ND	H	4.0	0.93	ug/L			10/15/20 14:44	1
1,2,3-Trichlorobenzene	ND	H	5.0	0.43	ug/L			10/15/20 14:44	1



Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		10/15/20 14:44	1
1,2-Dichloroethane-d4 (Surr)	103		80 - 126		10/15/20 14:44	1
4-Bromofluorobenzene (Surr)	93		80 - 120		10/15/20 14:44	1
Dibromofluoromethane (Surr)	99		80 - 120		10/15/20 14:44	1

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

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

Lab Sample ID: MB 580-340878/5
Matrix: Water
Analysis Batch: 340878

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Dichlorodifluoromethane	ND		10	0.53	ug/L			10/15/20 11:49	1
Chloromethane	ND		20	0.28	ug/L			10/15/20 11:49	1
Vinyl chloride	ND		1.0	0.22	ug/L			10/15/20 11:49	1
Bromomethane	ND		6.0	0.21	ug/L			10/15/20 11:49	1
Chloroethane	ND		5.0	0.35	ug/L			10/15/20 11:49	1
Trichlorofluoromethane	ND		3.0	0.63	ug/L			10/15/20 11:49	1
1,1-Dichloroethene	ND		4.0	0.28	ug/L			10/15/20 11:49	1
Methylene Chloride	ND		5.0	1.4	ug/L			10/15/20 11:49	1
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			10/15/20 11:49	1
trans-1,2-Dichloroethene	ND		3.0	0.39	ug/L			10/15/20 11:49	1
1,1-Dichloroethane	ND		2.0	0.22	ug/L			10/15/20 11:49	1
2,2-Dichloropropane	ND		3.0	0.32	ug/L			10/15/20 11:49	1
cis-1,2-Dichloroethene	ND		3.0	0.69	ug/L			10/15/20 11:49	1
Chlorobromomethane	ND		2.0	0.29	ug/L			10/15/20 11:49	1
Chloroform	ND		5.0	0.26	ug/L			10/15/20 11:49	1
1,1,1-Trichloroethane	ND		3.0	0.39	ug/L			10/15/20 11:49	1
Carbon tetrachloride	ND		3.0	0.30	ug/L			10/15/20 11:49	1
1,1-Dichloropropene	ND		3.0	0.29	ug/L			10/15/20 11:49	1
Benzene	ND		3.0	0.24	ug/L			10/15/20 11:49	1
1,2-Dichloroethane	ND		2.0	0.42	ug/L			10/15/20 11:49	1
Trichloroethene	ND		3.0	0.26	ug/L			10/15/20 11:49	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			10/15/20 11:49	1
Dibromomethane	ND		2.0	0.34	ug/L			10/15/20 11:49	1
Dichlorobromomethane	ND		2.0	0.29	ug/L			10/15/20 11:49	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/15/20 11:49	1
Toluene	ND		2.0	0.39	ug/L			10/15/20 11:49	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			10/15/20 11:49	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			10/15/20 11:49	1
Tetrachloroethene	ND		3.0	0.41	ug/L			10/15/20 11:49	1
1,3-Dichloropropane	ND		2.0	0.35	ug/L			10/15/20 11:49	1
Chlorodibromomethane	ND		2.0	0.43	ug/L			10/15/20 11:49	1
Ethylene Dibromide	ND		2.0	0.40	ug/L			10/15/20 11:49	1
Chlorobenzene	ND		2.0	0.44	ug/L			10/15/20 11:49	1
1,1,1,2-Tetrachloroethane	ND		2.0	0.18	ug/L			10/15/20 11:49	1
Ethylbenzene	ND		3.0	0.50	ug/L			10/15/20 11:49	1
m-Xylene & p-Xylene	ND		3.0	0.75	ug/L			10/15/20 11:49	1
o-Xylene	ND		2.0	0.39	ug/L			10/15/20 11:49	1
Styrene	ND		5.0	1.0	ug/L			10/15/20 11:49	1
Bromoform	ND		3.0	0.56	ug/L			10/15/20 11:49	1
Isopropylbenzene	ND		2.0	0.44	ug/L			10/15/20 11:49	1
Bromobenzene	ND		2.0	0.43	ug/L			10/15/20 11:49	1
1,1,2,2-Tetrachloroethane	ND		3.0	0.52	ug/L			10/15/20 11:49	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			10/15/20 11:49	1
N-Propylbenzene	ND		3.0	0.50	ug/L			10/15/20 11:49	1
2-Chlorotoluene	ND		3.0	0.51	ug/L			10/15/20 11:49	1
4-Chlorotoluene	ND		2.0	0.38	ug/L			10/15/20 11:49	1
1,3,5-Trimethylbenzene	ND		3.0	0.55	ug/L			10/15/20 11:49	1
tert-Butylbenzene	ND		3.0	0.58	ug/L			10/15/20 11:49	1

Eurofins TestAmerica, Seattle

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

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

Lab Sample ID: MB 580-340878/5
Matrix: Water
Analysis Batch: 340878

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			10/15/20 11:49	1
sec-Butylbenzene	ND		3.0	0.49	ug/L			10/15/20 11:49	1
4-Isopropyltoluene	ND		3.0	0.28	ug/L			10/15/20 11:49	1
1,3-Dichlorobenzene	ND		2.0	0.18	ug/L			10/15/20 11:49	1
1,4-Dichlorobenzene	ND		4.0	0.46	ug/L			10/15/20 11:49	1
n-Butylbenzene	ND		3.0	0.44	ug/L			10/15/20 11:49	1
1,2-Dichlorobenzene	ND		2.0	0.46	ug/L			10/15/20 11:49	1
1,2-Dibromo-3-Chloropropane	ND		10	0.57	ug/L			10/15/20 11:49	1
1,2,4-Trichlorobenzene	ND		2.0	0.33	ug/L			10/15/20 11:49	1
Hexachlorobutadiene	ND		6.0	0.79	ug/L			10/15/20 11:49	1
Naphthalene	ND		4.0	0.93	ug/L			10/15/20 11:49	1
1,2,3-Trichlorobenzene	ND		5.0	0.43	ug/L			10/15/20 11:49	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	104		80 - 120		10/15/20 11:49	1
1,2-Dichloroethane-d4 (Surr)	101		80 - 126		10/15/20 11:49	1
4-Bromofluorobenzene (Surr)	99		80 - 120		10/15/20 11:49	1
Dibromofluoromethane (Surr)	107		80 - 120		10/15/20 11:49	1

Lab Sample ID: LCS 580-340878/6
Matrix: Water
Analysis Batch: 340878

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	10.0	9.82	J	ug/L		98	52 - 135
Vinyl chloride	10.0	11.4		ug/L		114	65 - 130
Bromomethane	10.0	10.4		ug/L		104	66 - 125
Chloroethane	10.0	10.6		ug/L		106	65 - 132
Trichlorofluoromethane	10.0	12.6		ug/L		126	64 - 130
1,1-Dichloroethene	10.0	11.9		ug/L		119	70 - 129
Methylene Chloride	10.0	10.4		ug/L		104	77 - 120
Methyl tert-butyl ether	10.0	10.1		ug/L		101	72 - 130
trans-1,2-Dichloroethene	10.0	10.5		ug/L		105	70 - 130
1,1-Dichloroethane	10.0	10.5		ug/L		105	81 - 129
2,2-Dichloropropane	10.0	12.4		ug/L		124	53 - 150
cis-1,2-Dichloroethene	10.0	10.4		ug/L		104	76 - 129
Chlorobromomethane	10.0	9.71		ug/L		97	78 - 120
Chloroform	10.0	10.5		ug/L		105	73 - 127
1,1,1-Trichloroethane	10.0	11.8		ug/L		118	74 - 130
Carbon tetrachloride	10.0	11.7		ug/L		117	72 - 129
1,1-Dichloropropene	10.0	11.8		ug/L		118	74 - 131
Benzene	10.0	10.5		ug/L		105	82 - 122
1,2-Dichloroethane	10.0	9.91		ug/L		99	76 - 126
Trichloroethene	10.0	10.8		ug/L		108	81 - 125
1,2-Dichloropropane	10.0	10.0		ug/L		100	80 - 126
Dibromomethane	10.0	10.8		ug/L		108	80 - 120
Dichlorobromomethane	10.0	10.1		ug/L		101	75 - 124

Eurofins TestAmerica, Seattle

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

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

Lab Sample ID: LCS 580-340878/6
Matrix: Water
Analysis Batch: 340878

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	10.0	10.2		ug/L		102	77 - 120
Toluene	10.0	11.0		ug/L		110	80 - 120
trans-1,3-Dichloropropene	10.0	10.8		ug/L		108	70 - 122
1,1,2-Trichloroethane	10.0	10.5		ug/L		105	80 - 121
Tetrachloroethene	10.0	11.2		ug/L		112	76 - 120
1,3-Dichloropropane	10.0	9.84		ug/L		98	79 - 120
Chlorodibromomethane	10.0	10.5		ug/L		105	60 - 125
Ethylene Dibromide	10.0	10.1		ug/L		101	79 - 120
Chlorobenzene	10.0	10.9		ug/L		109	80 - 120
1,1,1,2-Tetrachloroethane	10.0	11.7		ug/L		117	79 - 120
Ethylbenzene	10.0	10.8		ug/L		108	80 - 120
m-Xylene & p-Xylene	10.0	11.2		ug/L		112	80 - 120
o-Xylene	10.0	11.4		ug/L		114	80 - 125
Styrene	10.0	10.8		ug/L		108	76 - 127
Bromoform	10.0	9.97		ug/L		100	28 - 139
Isopropylbenzene	10.0	12.3		ug/L		123	75 - 129
Bromobenzene	10.0	10.2		ug/L		102	80 - 120
1,1,2,2-Tetrachloroethane	10.0	11.2		ug/L		112	74 - 124
1,2,3-Trichloropropane	10.0	10.4		ug/L		104	76 - 124
N-Propylbenzene	10.0	11.7		ug/L		117	80 - 128
2-Chlorotoluene	10.0	12.0		ug/L		120	80 - 120
4-Chlorotoluene	10.0	9.56		ug/L		96	80 - 120
1,3,5-Trimethylbenzene	10.0	12.3		ug/L		123	80 - 131
tert-Butylbenzene	10.0	11.1		ug/L		111	80 - 129
1,2,4-Trimethylbenzene	10.0	11.5		ug/L		115	80 - 131
sec-Butylbenzene	10.0	11.4		ug/L		114	78 - 131
4-Isopropyltoluene	10.0	11.5		ug/L		115	77 - 131
1,3-Dichlorobenzene	10.0	10.0		ug/L		100	69 - 127
1,4-Dichlorobenzene	10.0	10.7		ug/L		107	80 - 120
n-Butylbenzene	10.0	12.1	*	ug/L		121	78 - 120
1,2-Dichlorobenzene	10.0	10.9		ug/L		109	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	10.0		ug/L		100	65 - 125
1,2,4-Trichlorobenzene	10.0	9.84		ug/L		98	73 - 128
Hexachlorobutadiene	10.0	11.3		ug/L		113	74 - 125
Naphthalene	10.0	10.1		ug/L		101	75 - 134
1,2,3-Trichlorobenzene	10.0	10.7		ug/L		107	74 - 139

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	101		80 - 120
1,2-Dichloroethane-d4 (Surr)	97		80 - 126
4-Bromofluorobenzene (Surr)	95		80 - 120
Dibromofluoromethane (Surr)	96		80 - 120

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

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

Lab Sample ID: LCSD 580-340878/7
Matrix: Water
Analysis Batch: 340878

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
Dichlorodifluoromethane	10.0	13.7	**1	ug/L		137	47 - 133	16	15
Chloromethane	10.0	11.9	J *1	ug/L		119	52 - 135	19	14
Vinyl chloride	10.0	13.7	**1	ug/L		137	65 - 130	19	14
Bromomethane	10.0	12.2	*1	ug/L		122	66 - 125	17	14
Chloroethane	10.0	11.5		ug/L		115	65 - 132	9	18
Trichlorofluoromethane	10.0	13.9	*	ug/L		139	64 - 130	10	14
1,1-Dichloroethene	10.0	14.4	**1	ug/L		144	70 - 129	19	17
Methylene Chloride	10.0	11.2		ug/L		112	77 - 120	7	18
Methyl tert-butyl ether	10.0	11.3		ug/L		113	72 - 130	12	18
trans-1,2-Dichloroethene	10.0	11.4		ug/L		114	70 - 130	8	21
1,1-Dichloroethane	10.0	11.0		ug/L		110	81 - 129	5	15
2,2-Dichloropropane	10.0	14.1		ug/L		141	53 - 150	12	15
cis-1,2-Dichloroethene	10.0	10.9		ug/L		109	76 - 129	5	15
Chlorobromomethane	10.0	10.8		ug/L		108	78 - 120	10	13
Chloroform	10.0	11.1		ug/L		111	73 - 127	6	14
1,1,1-Trichloroethane	10.0	12.6		ug/L		126	74 - 130	6	11
Carbon tetrachloride	10.0	12.5		ug/L		125	72 - 129	7	11
1,1-Dichloropropene	10.0	11.8		ug/L		118	74 - 131	0	14
Benzene	10.0	11.2		ug/L		112	82 - 122	6	14
1,2-Dichloroethane	10.0	10.1		ug/L		101	76 - 126	2	11
Trichloroethene	10.0	11.3		ug/L		113	81 - 125	5	13
1,2-Dichloropropane	10.0	10.2		ug/L		102	80 - 126	2	14
Dibromomethane	10.0	10.2		ug/L		102	80 - 120	6	11
Dichlorobromomethane	10.0	10.7		ug/L		107	75 - 124	6	13
cis-1,3-Dichloropropene	10.0	10.8		ug/L		108	77 - 120	6	20
Toluene	10.0	11.6		ug/L		116	80 - 120	5	13
trans-1,3-Dichloropropene	10.0	10.6		ug/L		106	70 - 122	2	14
1,1,2-Trichloroethane	10.0	10.6		ug/L		106	80 - 121	1	14
Tetrachloroethene	10.0	11.3		ug/L		113	76 - 120	0	13
1,3-Dichloropropane	10.0	10.8		ug/L		108	79 - 120	9	13
Chlorodibromomethane	10.0	10.9		ug/L		109	60 - 125	4	13
Ethylene Dibromide	10.0	11.2		ug/L		112	79 - 120	10	12
Chlorobenzene	10.0	11.1		ug/L		111	80 - 120	2	10
1,1,1,2-Tetrachloroethane	10.0	12.4	*	ug/L		124	79 - 120	6	10
Ethylbenzene	10.0	11.3		ug/L		113	80 - 120	4	14
m-Xylene & p-Xylene	10.0	11.3		ug/L		113	80 - 120	1	14
o-Xylene	10.0	11.7		ug/L		117	80 - 125	2	16
Styrene	10.0	10.9		ug/L		109	76 - 127	1	16
Bromoform	10.0	11.3		ug/L		113	28 - 139	13	15
Isopropylbenzene	10.0	12.8		ug/L		128	75 - 129	4	12
Bromobenzene	10.0	10.7		ug/L		107	80 - 120	5	13
1,1,2,2-Tetrachloroethane	10.0	11.6		ug/L		116	74 - 124	3	18
1,2,3-Trichloropropane	10.0	10.8		ug/L		108	76 - 124	4	16
N-Propylbenzene	10.0	11.6		ug/L		116	80 - 128	0	13
2-Chlorotoluene	10.0	12.3	*	ug/L		123	80 - 120	2	15
4-Chlorotoluene	10.0	9.93		ug/L		99	80 - 120	4	14
1,3,5-Trimethylbenzene	10.0	12.5		ug/L		125	80 - 131	1	14
tert-Butylbenzene	10.0	11.7		ug/L		117	80 - 129	5	14

Eurofins TestAmerica, Seattle

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

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

Lab Sample ID: LCSD 580-340878/7
Matrix: Water
Analysis Batch: 340878

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
1,2,4-Trimethylbenzene	10.0	11.9		ug/L		119	80 - 131	3	16
sec-Butylbenzene	10.0	12.0		ug/L		120	78 - 131	5	15
4-Isopropyltoluene	10.0	11.7		ug/L		117	77 - 131	1	20
1,3-Dichlorobenzene	10.0	10.2		ug/L		102	69 - 127	1	14
1,4-Dichlorobenzene	10.0	10.7		ug/L		107	80 - 120	1	17
n-Butylbenzene	10.0	12.3 *		ug/L		123	78 - 120	2	14
1,2-Dichlorobenzene	10.0	11.1		ug/L		111	80 - 120	2	15
1,2-Dibromo-3-Chloropropane	10.0	11.9		ug/L		119	65 - 125	17	17
1,2,4-Trichlorobenzene	10.0	11.2		ug/L		112	73 - 128	13	20
Hexachlorobutadiene	10.0	11.9		ug/L		119	74 - 125	5	22
Naphthalene	10.0	11.6		ug/L		116	75 - 134	14	23
1,2,3-Trichlorobenzene	10.0	11.7		ug/L		117	74 - 139	10	26

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
Toluene-d8 (Surr)	104		80 - 120
1,2-Dichloroethane-d4 (Surr)	103		80 - 126
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	106		80 - 120

Lab Sample ID: 580-97589-9 MS
Matrix: Water
Analysis Batch: 340878

Client Sample ID: MW-9-W-200916
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	ND	H * *1	10.0	8.42	J H	ug/L		84	47 - 133
Chloromethane	ND	H *1	10.0	8.62	J H	ug/L		86	52 - 135
Vinyl chloride	ND	H * *1	10.0	9.56	H	ug/L		96	65 - 130
Bromomethane	ND	H *1	10.0	8.59	H	ug/L		86	66 - 125
Chloroethane	ND	H	10.0	8.21	H	ug/L		82	65 - 132
Trichlorofluoromethane	ND	H *	10.0	8.86	H	ug/L		89	64 - 130
1,1-Dichloroethene	ND	H * *1	10.0	9.09	H	ug/L		91	70 - 129
Methylene Chloride	ND	H	10.0	7.95	H	ug/L		79	77 - 120
Methyl tert-butyl ether	ND	H	10.0	7.31	H	ug/L		73	72 - 130
trans-1,2-Dichloroethene	ND	H	10.0	8.84	H	ug/L		88	70 - 130
1,1-Dichloroethane	ND	H F1	10.0	7.86	H F1	ug/L		79	81 - 129
2,2-Dichloropropane	ND	H	10.0	8.84	H	ug/L		88	53 - 150
cis-1,2-Dichloroethene	ND	H	10.0	7.85	H	ug/L		78	76 - 129
Chlorobromomethane	ND	H	10.0	7.89	H	ug/L		79	78 - 120
Chloroform	ND	H	10.0	7.98	H	ug/L		80	73 - 127
1,1,1-Trichloroethane	ND	H	10.0	8.72	H	ug/L		87	74 - 130
Carbon tetrachloride	ND	H	10.0	8.22	H	ug/L		82	72 - 129
1,1-Dichloropropene	ND	H	10.0	9.20	H	ug/L		92	74 - 131
Benzene	ND	H	10.0	8.30	H	ug/L		83	82 - 122
1,2-Dichloroethane	ND	H	10.0	8.40	H	ug/L		84	76 - 126
Trichloroethene	ND	H	10.0	8.33	H	ug/L		83	81 - 125
1,2-Dichloropropane	ND	H F1	10.0	8.03	H	ug/L		80	80 - 126
Dibromomethane	ND	H	10.0	8.41	H	ug/L		84	80 - 120
Dichlorobromomethane	ND	H	10.0	7.65	H	ug/L		76	75 - 124

Eurofins TestAmerica, Seattle

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

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

Lab Sample ID: 580-97589-9 MS

Client Sample ID: MW-9-W-200916

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 340878

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				
cis-1,3-Dichloropropene	ND	H	10.0	9.13	H	ug/L		91	77 - 120
Toluene	ND	H	10.0	8.58	H	ug/L		86	80 - 120
trans-1,3-Dichloropropene	ND	H	10.0	8.69	H	ug/L		87	70 - 122
1,1,2-Trichloroethane	ND	H F1	10.0	8.72	H	ug/L		87	80 - 121
Tetrachloroethene	ND	H	10.0	8.83	H	ug/L		88	76 - 120
1,3-Dichloropropane	ND	H	10.0	8.38	H	ug/L		84	79 - 120
Chlorodibromomethane	ND	H	10.0	8.37	H	ug/L		84	60 - 125
Ethylene Dibromide	ND	H	10.0	8.38	H	ug/L		84	79 - 120
Chlorobenzene	ND	H	10.0	8.51	H	ug/L		85	80 - 120
1,1,1,2-Tetrachloroethane	ND	H * F1	10.0	7.70	H F1	ug/L		77	79 - 120
Ethylbenzene	ND	H	10.0	8.73	H	ug/L		87	80 - 120
m-Xylene & p-Xylene	ND	H	10.0	8.63	H	ug/L		86	80 - 120
o-Xylene	ND	H F1	10.0	7.90	H F1	ug/L		79	80 - 125
Styrene	ND	H	10.0	8.38	H	ug/L		84	76 - 127
Bromoform	ND	H	10.0	7.91	H	ug/L		79	28 - 139
Isopropylbenzene	ND	H	10.0	8.43	H	ug/L		84	75 - 129
Bromobenzene	ND	H	10.0	8.60	H	ug/L		86	80 - 120
1,1,2,2-Tetrachloroethane	ND	H	10.0	8.86	H	ug/L		89	74 - 124
1,2,3-Trichloropropane	ND	H	10.0	8.49	H	ug/L		85	76 - 124
N-Propylbenzene	ND	H	10.0	8.84	H	ug/L		88	80 - 128
2-Chlorotoluene	ND	H *	10.0	8.97	H	ug/L		90	80 - 120
4-Chlorotoluene	ND	H	10.0	9.33	H	ug/L		93	80 - 120
1,3,5-Trimethylbenzene	ND	H	10.0	8.78	H	ug/L		88	80 - 131
tert-Butylbenzene	ND	H F1	10.0	8.27	H	ug/L		83	80 - 129
1,2,4-Trimethylbenzene	ND	H	10.0	8.42	H	ug/L		84	80 - 131
sec-Butylbenzene	ND	H	10.0	8.24	H	ug/L		82	78 - 131
4-Isopropyltoluene	ND	H	10.0	8.17	H	ug/L		82	77 - 131
1,3-Dichlorobenzene	ND	H	10.0	7.82	H	ug/L		78	69 - 127
1,4-Dichlorobenzene	ND	H F1	10.0	8.37	H	ug/L		84	80 - 120
n-Butylbenzene	ND	H *	10.0	8.80	H	ug/L		88	78 - 120
1,2-Dichlorobenzene	ND	H F1	10.0	7.87	H F1	ug/L		79	80 - 120
1,2-Dibromo-3-Chloropropane	ND	H	10.0	7.17	J H	ug/L		72	65 - 125
1,2,4-Trichlorobenzene	ND	H F1	10.0	6.42	H F1	ug/L		64	73 - 128
Hexachlorobutadiene	ND	H	10.0	9.67	H	ug/L		97	74 - 125
Naphthalene	ND	H F1	10.0	6.97	H F1	ug/L		70	75 - 134
1,2,3-Trichlorobenzene	ND	H F1	10.0	7.30	H F1	ug/L		73	74 - 139

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	100		80 - 120
1,2-Dichloroethane-d4 (Surr)	100		80 - 126
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	94		80 - 120

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

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

Lab Sample ID: 580-97589-9 MSD
Matrix: Water
Analysis Batch: 340878

Client Sample ID: MW-9-W-200916
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier		Result	Qualifier				Limits		Limit
Dichlorodifluoromethane	ND	H * * 1	10.0	7.95	J H	ug/L		80	47 - 133	6	15
Chloromethane	ND	H * 1	10.0	7.99	J H	ug/L		80	52 - 135	8	14
Vinyl chloride	ND	H * * 1	10.0	8.86	H	ug/L		89	65 - 130	8	14
Bromomethane	ND	H * 1	10.0	8.04	H	ug/L		80	66 - 125	7	14
Chloroethane	ND	H	10.0	8.24	H	ug/L		82	65 - 132	0	18
Trichlorofluoromethane	ND	H *	10.0	9.19	H	ug/L		92	64 - 130	4	14
1,1-Dichloroethene	ND	H * * 1	10.0	9.59	H	ug/L		96	70 - 129	5	17
Methylene Chloride	ND	H	10.0	8.39	H	ug/L		84	77 - 120	5	18
Methyl tert-butyl ether	ND	H	10.0	7.34	H	ug/L		73	72 - 130	0	18
trans-1,2-Dichloroethene	ND	H	10.0	9.23	H	ug/L		92	70 - 130	4	21
1,1-Dichloroethane	ND	H F 1	10.0	8.19	H	ug/L		82	81 - 129	4	15
2,2-Dichloropropane	ND	H	10.0	8.65	H	ug/L		86	53 - 150	2	15
cis-1,2-Dichloroethene	ND	H	10.0	8.98	H	ug/L		90	76 - 129	13	15
Chlorobromomethane	ND	H	10.0	9.02	H	ug/L		90	78 - 120	13	13
Chloroform	ND	H	10.0	8.69	H	ug/L		87	73 - 127	9	14
1,1,1-Trichloroethane	ND	H	10.0	8.90	H	ug/L		89	74 - 130	2	11
Carbon tetrachloride	ND	H	10.0	9.20	H	ug/L		92	72 - 129	11	11
1,1-Dichloropropene	ND	H	10.0	8.86	H	ug/L		89	74 - 131	4	14
Benzene	ND	H	10.0	8.44	H	ug/L		84	82 - 122	2	14
1,2-Dichloroethane	ND	H	10.0	8.31	H	ug/L		83	76 - 126	1	11
Trichloroethene	ND	H	10.0	8.73	H	ug/L		87	81 - 125	5	13
1,2-Dichloropropane	ND	H F 1	10.0	7.81	H F 1	ug/L		78	80 - 126	3	14
Dibromomethane	ND	H	10.0	8.16	H	ug/L		82	80 - 120	3	11
Dichlorobromomethane	ND	H	10.0	8.17	H	ug/L		82	75 - 124	7	13
cis-1,3-Dichloropropene	ND	H	10.0	8.00	H	ug/L		80	77 - 120	13	20
Toluene	ND	H	10.0	8.18	H	ug/L		82	80 - 120	5	13
trans-1,3-Dichloropropene	ND	H	10.0	7.92	H	ug/L		79	70 - 122	9	14
1,1,2-Trichloroethane	ND	H F 1	10.0	7.94	H F 1	ug/L		79	80 - 121	9	14
Tetrachloroethene	ND	H	10.0	8.28	H	ug/L		83	76 - 120	6	13
1,3-Dichloropropane	ND	H	10.0	8.11	H	ug/L		81	79 - 120	3	13
Chlorodibromomethane	ND	H	10.0	7.86	H	ug/L		79	60 - 125	6	13
Ethylene Dibromide	ND	H	10.0	8.22	H	ug/L		82	79 - 120	2	12
Chlorobenzene	ND	H	10.0	8.10	H	ug/L		81	80 - 120	5	10
1,1,1,2-Tetrachloroethane	ND	H * F 1	10.0	8.15	H	ug/L		81	79 - 120	6	10
Ethylbenzene	ND	H	10.0	8.08	H	ug/L		81	80 - 120	8	14
m-Xylene & p-Xylene	ND	H	10.0	8.27	H	ug/L		83	80 - 120	4	14
o-Xylene	ND	H F 1	10.0	8.02	H	ug/L		80	80 - 125	2	16
Styrene	ND	H	10.0	8.02	H	ug/L		80	76 - 127	4	16
Bromoform	ND	H	10.0	8.06	H	ug/L		81	28 - 139	2	15
Isopropylbenzene	ND	H	10.0	8.44	H	ug/L		84	75 - 129	0	12
Bromobenzene	ND	H	10.0	8.04	H	ug/L		80	80 - 120	7	13
1,1,2,2-Tetrachloroethane	ND	H	10.0	8.33	H	ug/L		83	74 - 124	6	18
1,2,3-Trichloropropane	ND	H	10.0	8.47	H	ug/L		85	76 - 124	0	16
N-Propylbenzene	ND	H	10.0	8.62	H	ug/L		86	80 - 128	2	13
2-Chlorotoluene	ND	H *	10.0	8.54	H	ug/L		85	80 - 120	5	15
4-Chlorotoluene	ND	H	10.0	8.41	H	ug/L		84	80 - 120	10	14
1,3,5-Trimethylbenzene	ND	H	10.0	8.57	H	ug/L		86	80 - 131	2	14
tert-Butylbenzene	ND	H F 1	10.0	7.72	H F 1	ug/L		77	80 - 129	7	14

Eurofins TestAmerica, Seattle

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

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

Lab Sample ID: 580-97589-9 MSD
Matrix: Water
Analysis Batch: 340878

Client Sample ID: MW-9-W-200916
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier		Result	Qualifier				Limits		Limit
1,2,4-Trimethylbenzene	ND	H	10.0	8.20	H	ug/L		82	80 - 131	3	16
sec-Butylbenzene	ND	H	10.0	8.01	H	ug/L		80	78 - 131	3	15
4-Isopropyltoluene	ND	H	10.0	7.93	H	ug/L		79	77 - 131	3	20
1,3-Dichlorobenzene	ND	H	10.0	7.39	H	ug/L		74	69 - 127	6	14
1,4-Dichlorobenzene	ND	H F1	10.0	7.74	H F1	ug/L		77	80 - 120	8	17
n-Butylbenzene	ND	H *	10.0	7.85	H	ug/L		78	78 - 120	11	14
1,2-Dichlorobenzene	ND	H F1	10.0	7.93	H F1	ug/L		79	80 - 120	1	15
1,2-Dibromo-3-Chloropropane	ND	H	10.0	8.14	J H	ug/L		81	65 - 125	13	17
1,2,4-Trichlorobenzene	ND	H F1	10.0	6.58	H F1	ug/L		66	73 - 128	2	20
Hexachlorobutadiene	ND	H	10.0	7.88	H	ug/L		79	74 - 125	20	22
Naphthalene	ND	H F1	10.0	7.36	H F1	ug/L		74	75 - 134	5	23
1,2,3-Trichlorobenzene	ND	H F1	10.0	7.68	H	ug/L		77	74 - 139	5	26
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
<i>Toluene-d8 (Surr)</i>	103		80 - 120								
<i>1,2-Dichloroethane-d4 (Surr)</i>	101		80 - 126								
<i>4-Bromofluorobenzene (Surr)</i>	100		80 - 120								
<i>Dibromofluoromethane (Surr)</i>	102		80 - 120								

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-1-W-200916

Date Collected: 09/16/20 13:30

Date Received: 09/21/20 09:30

Lab Sample ID: 580-97589-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 15:09	JSM	TAL SEA

Client Sample ID: MW-2-W-200916

Date Collected: 09/16/20 14:00

Date Received: 09/21/20 09:30

Lab Sample ID: 580-97589-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 15:34	JSM	TAL SEA

Client Sample ID: MW-3-W-200916

Date Collected: 09/16/20 09:00

Date Received: 09/21/20 09:30

Lab Sample ID: 580-97589-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 15:58	JSM	TAL SEA

Client Sample ID: MW-4-W-200916

Date Collected: 09/16/20 08:50

Date Received: 09/21/20 09:30

Lab Sample ID: 580-97589-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 16:24	JSM	TAL SEA

Client Sample ID: MW-5-W-200916

Date Collected: 09/16/20 12:10

Date Received: 09/21/20 09:30

Lab Sample ID: 580-97589-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 16:49	JSM	TAL SEA

Client Sample ID: MW-6-W-200916

Date Collected: 09/16/20 10:15

Date Received: 09/21/20 09:30

Lab Sample ID: 580-97589-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 17:13	JSM	TAL SEA

Client Sample ID: MW-7-W-200916

Date Collected: 09/16/20 13:30

Date Received: 09/21/20 09:30

Lab Sample ID: 580-97589-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 17:39	JSM	TAL SEA

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: MW-8-W-200916

Lab Sample ID: 580-97589-8

Date Collected: 09/16/20 11:10

Matrix: Water

Date Received: 09/21/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 18:03	JSM	TAL SEA

Client Sample ID: MW-9-W-200916

Lab Sample ID: 580-97589-9

Date Collected: 09/16/20 12:00

Matrix: Water

Date Received: 09/21/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 18:28	JSM	TAL SEA

Client Sample ID: MW-10-W-200916

Lab Sample ID: 580-97589-10

Date Collected: 09/16/20 11:00

Matrix: Water

Date Received: 09/21/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 19:43	JSM	TAL SEA

Client Sample ID: MW-11-W-200916

Lab Sample ID: 580-97589-11

Date Collected: 09/16/20 10:00

Matrix: Water

Date Received: 09/21/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 20:07	JSM	TAL SEA

Client Sample ID: BD-1-W-200916

Lab Sample ID: 580-97589-12

Date Collected: 09/16/20 00:01

Matrix: Water

Date Received: 09/21/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 20:32	JSM	TAL SEA

Client Sample ID: BD-2-W-200916

Lab Sample ID: 580-97589-13

Date Collected: 09/16/20 00:01

Matrix: Water

Date Received: 09/21/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 20:58	JSM	TAL SEA

Client Sample ID: EQB-1-W-200916

Lab Sample ID: 580-97589-14

Date Collected: 09/16/20 08:00

Matrix: Water

Date Received: 09/21/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 21:22	JSM	TAL SEA

Eurofins TestAmerica, Seattle

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Client Sample ID: Trip Blank

Lab Sample ID: 580-97589-15

Date Collected: 09/16/20 00:01

Matrix: Water

Date Received: 09/21/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	340878	10/15/20 14:44	JSM	TAL SEA

Laboratory References:

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



Accreditation/Certification Summary

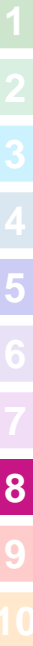
Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Laboratory: Eurofins TestAmerica, Seattle

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-024	02-19-22
ANAB	Dept. of Defense ELAP	L2236	01-19-22
ANAB	ISO/IEC 17025	L2236	01-19-22
California	State	2901	11-05-20
Montana (UST)	State	NA	04-13-21
Oregon	NELAP	WA100007	11-06-20
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-20-00031	02-10-23
Washington	State	C553	02-18-21



Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Former TBE Machine Shop- GE Kenai

Job ID: 580-97589-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-97589-1	MW-1-W-200916	Water	09/16/20 13:30	09/21/20 09:30	
580-97589-2	MW-2-W-200916	Water	09/16/20 14:00	09/21/20 09:30	
580-97589-3	MW-3-W-200916	Water	09/16/20 09:00	09/21/20 09:30	
580-97589-4	MW-4-W-200916	Water	09/16/20 08:50	09/21/20 09:30	
580-97589-5	MW-5-W-200916	Water	09/16/20 12:10	09/21/20 09:30	
580-97589-6	MW-6-W-200916	Water	09/16/20 10:15	09/21/20 09:30	
580-97589-7	MW-7-W-200916	Water	09/16/20 13:30	09/21/20 09:30	
580-97589-8	MW-8-W-200916	Water	09/16/20 11:10	09/21/20 09:30	
580-97589-9	MW-9-W-200916	Water	09/16/20 12:00	09/21/20 09:30	
580-97589-10	MW-10-W-200916	Water	09/16/20 11:00	09/21/20 09:30	
580-97589-11	MW-11-W-200916	Water	09/16/20 10:00	09/21/20 09:30	
580-97589-12	BD-1-W-200916	Water	09/16/20 00:01	09/21/20 09:30	
580-97589-13	BD-2-W-200916	Water	09/16/20 00:01	09/21/20 09:30	
580-97589-14	EQB-1-W-200916	Water	09/16/20 08:00	09/21/20 09:30	
580-97589-15	Trip Blank	Water	09/16/20 00:01	09/21/20 09:30	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 580-97589-2

Login Number: 97589

List Source: Eurofins TestAmerica, Seattle

List Number: 1

Creator: Hobbs, Kenneth F

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	
Cooler Temperature 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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

