ENVIRONMENTAL PARTNERS INC

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July 17, 2019

Mr. John Drake
Washington Industries Environmental Remediation Trust (WIERT)
17742 Talbot Road s
Edmonds, Washington 98026

Re: Annual Groundwater Monitoring Report for 2018–2019
Former Northwest Plating Site
825 South Dakota Street and 812 and 820 South Adams Street
Seattle, Washington
Cleanup Site ID 2231
VCP Site No. NW2796

EPI Project Number: 64001.8

Dear Mr. Drake:

Environmental Partners, Inc. (EPI) is pleased to present this Annual Groundwater Monitoring Report (Annual Report) for the 2018 to 2019 monitoring cycle for the Former Northwest Plating Site located at 825 South Dakota Street in Seattle, Washington (Site). The location of the Site is indicated on Figure 1. The Site is currently enrolled in the Washington State Department of Ecology (Ecology) Voluntary Cleanup Program (VCP) as Site No. NW2796 and Ms. Heather Vick is the Ecology Site Manager. This work has been performed on behalf of the Washington Industries Environmental Remediation Trust (WEIRT).

As documented in the *Remedial Investigation Report* (RI Report) for the Site dated June 26, 2016, soil and groundwater at the Site are impacted with trichloroethene (TCE) and related volatile organic compounds (VOCs) as well as total chromium (Cr) and hexavalent chromium (CrVI). Those impacts are present as a result of historical electroplating activities at the former Northwest Plating facility.

The RI Report was submitted to Ecology for review under the VCP. An *Interim Action Work Plan* dated April 18, 2016 was also submitted to Ecology for review. That work plan included the use of enhanced reductive dechlorination (ERD) as a primary method of groundwater remediation and soil vapor extraction (SVE) for to address impacts within the vadose zone. ERD was initially implemented at the Site in December 2016 with additional ERD injections in August 2017. The first phase of SVE was implemented in May 2017 and the SVE system was expanded in November 2017. Interim remedial actions were documented in the Interim Action System As Built and Startup Report dated April 17, 2018 and submitted to Ecology under the VCP.

At the completion of the RI, a quarterly groundwater monitoring and sampling program was established to provide protection monitoring under the requirements of MTCA (WAC 173-340-410) and to provide necessary data for designing and implementing remedial actions. WIERT also previously submitted to

Ecology the Annual Groundwater Monitoring Reports for the 2016 to 2017 and 2017 to 2018 monitoring cycles.

This Annual Report presents a discussion of the quarterly groundwater monitoring events performed at the Site in June 2018, August 2018, November 2018, and February 2019.

For the purposes of the RI, the pre-remedial lateral and vertical extents of the Site, as defined under the Model Toxics Control Act (70.105D RCW) and its implementing regulations (Washington Administrative Code [WAC] 173-340; collectively "MTCA") are characterized as the maximum extent of trichloroethene (TCE) in groundwater at a concentration exceeding 8.4 micrograms per liter (µg/L). That concentration was determined to be protective of potential vapor intrusion (VI) for Industrial Land Use, which is the local zoning. The extent of the Site is indicated on Figure 2.

The Site is located approximately 3 miles south of downtown Seattle along the eastern margin of the lower Duwamish River industrial area. The Site consists of (i) the Washington Industries, Inc. (WII) Property at 825 South Dakota Street (the location of the former Northwest Plating facility), (ii) the southern adjacent property ("Perine Property") located at 812 and 820 South Adams Street, and (iii) the western adjacent property located at 4114 Airport Way South. The Site also extends into the South Dakota Street right-of-way and may marginally impact properties to the north of South Dakota Street. Figure 2 illustrates the lateral extent of the Site as it is currently defined by the 8.4 µg/L concentration of TCE in groundwater.

**GROUNDWATER MONITORING AND SAMPLING**

During each monitoring event, groundwater levels are measured in all 46 groundwater monitoring wells at the Site and groundwater samples are collected from selected monitoring wells for analysis of chemicals of concern (COCs). The sampling frequency at each well during the 2017 to 2018 sampling cycle was as follows:

- Thirteen shallow aquifer monitoring wells (MW-3, MW-7s, MW-8s, MW-11, MW-14, MW-15s, MW-18, MW-19, MW-21s, MW-24s, MW-26s, SBW-2, and SBW-3) and two intermediate aquifer monitoring wells (MW-7ir and MW-15i) were sampled on a quarterly basis;

- Five additional shallow aquifer monitoring wells (MW-1s, MW-20s, MW-29s, SBW-1, and SBW-4) were sampled on a semi-annual basis in August and February; and

- The remaining 13 shallow aquifer monitoring wells (MW-2, MW-4, MW-05s, MW-07, MW-9, MW-10s, MW-12, MW-16, MW-22s, MW-23s, MW-25s, MW-27s, and MW-28s) and 13 intermediate aquifer monitoring wells (MW-1i, MW-4i, MW-5B, MW-05i, MW-8i, MW-10i, MW-20i, MW-21i, MW-22i, MW-23i, MW-24ir, MW-25i, and MW-26i) were sampled on an annual basis each year in February.

The SVE remediation system at the Site is shut down prior to each groundwater sampling event to allow for stabilization of the groundwater surface to more natural conditions.

### Groundwater Elevation Measurements

During each of the quarterly sampling events, EPI measured water levels in all 46 of the shallow and intermediate monitoring wells located at the Site. An electronic water level meter was used to measure depth to water to the nearest 0.01 foot from a surveyed point at the top of the well casing. The measurements were subtracted from the surveyed casing elevations to establish piezometric elevations. Depth-to-water measurements and corresponding groundwater elevations for the monitoring events are presented in Table 1.

The depth to water in the shallow aquifer wells generally ranged from approximately 4 feet to 13 feet below the top of the well casing, corresponding to piezometric elevations ranging from approximately 6 feet to 15.5 feet above mean sea level (MSL). The piezometric data indicate that shallow aquifer groundwater generally migrates in a northwesterly direction, at an approximate gradient of 0.016 feet/foot. Interpolated piezometric contours for the shallow aquifer for February 2019 are presented on Figure 3. Figure 4 depicts interpolated piezometric contours for the shallow aquifer for the June 2018, August 2018, and November 2018 sampling events.

The depth to water in the intermediate aquifer monitoring wells ranged from approximately 3.5 feet to 12.5 feet below the top of the well casing, corresponding to piezometric elevations ranging from approximately 7.5 feet to 18 feet above MSL. The piezometric data indicate that the intermediate aquifer groundwater generally migrates in a northeasterly direction with a gradient of approximately 0.03 feet/foot. Interpolated piezometric contours for the intermediate aquifer for February 2019 are presented on Figure 5. Figure 6 depicts interpolated piezometric contours for the intermediate aquifer for the June 2018, August 2018, and November 2018 sampling events.

There are 14 pairs of co-located shallow and intermediate aquifer well pairs. Water level data for these co-located wells pairs indicate that there is a net upward hydraulic gradient between the shallow and intermediate aquifer over the entire Site. The average net upward gradient ranged between 0.55 feet and 3.98 feet of head during the annual monitoring cycle. The vertical gradients are indicated on Figure 7. Upward gradients are indicated by negative values. Small downward gradients were sporadically observed at two locations during the year. Downward gradients were observed between the following well pairs during the June 2018 monitoring event:

- MW-1s/MW-1i (0.03 feet)
- MW-10s/MW-10i (0.17 feet)

Groundwater elevation data show that the downward gradients are not consistently present throughout the year and the locations of those downward gradients are temporally and spatially variable. When present, downward gradients appear to coincide with unusually high groundwater levels in the shallow aquifer, which are likely due to significant precipitation events and localized drainage and infiltration in a highly urbanized setting.

The presence of a pervasive and site-wide upward hydraulic gradient serves to significantly hinder the potential for transport of dissolved-phase contaminants from the shallow to the intermediate aquifer. Contaminant migration between the two aquifers cannot occur through convection and dispersion across

the aquitard, and is limited to transport along chemical gradients. Such chemical transport is extremely slow and subject to generally weak chemical forces. Additionally, those forces must work in the opposite direction of actual groundwater transport across the aquitard. This lack of chemical transport across the aquitard is confirmed by the lack of impacts to the intermediate aquifer even in locations with elevated concentrations in the shallow aquifer (see below).

**Groundwater Sampling and Analyses**

After measuring and recording groundwater levels in monitoring wells, EPI collected groundwater samples from the Site wells scheduled for sampling. In accordance with the work plan, passive diffusion bags (PDBs) were formally evaluated for use in collecting samples for volatile organic compound (VOC) analysis. During the evaluation PDBs were deployed in select monitoring wells at the Site in advance of the March 2017 groundwater sampling event, and samples were collected from the PDBs (in addition to the samples collected via low-flow sampling methods). Following the March 2017 groundwater sampling, PDBs were redeployed in select monitoring wells for sampling in May 2017 and in August 2017. Following the May and August 2017 sampling events, EPI evaluated the PDB analytical results and determined that the use of PDB sampling at the Site *in lieu* of low-flow sampling was appropriate for future groundwater monitoring events. The evaluation of PDBs is presented in additional detail in the Annual Groundwater Monitoring Report for 2017-2018, dated June 5, 2018, which was provided to Ecology under the VCP.

Groundwater samples have been collected using PDBs during the November 2017 through February 2019 groundwater sampling events. The groundwater samples are collected by transferring groundwater from the recovered PDB directly into appropriate pre-labeled sample containers supplied by the laboratory.

After each sampling event, new PDBs are deployed in each well and allowed to remain in place between sampling events, thereby ensuring that the samples are in equilibrium with the water in the formation. Excess water recovered in the PDBs was stored on Site in properly labeled 55-gallon drums pending permitted disposal.

Samples for Cr and CrVI analysis continue to be collected using low-flow methods as described below.

Immediately prior to sample collection, each well was either purged until field measurements of pH, temperature, and conductivity stabilized to within 10 percent of the prior measurement or until three wetted casing volumes had been removed, whichever occurred first. Purging was performed using a peristaltic pump and dedicated tubing. Purge water was stored on-Site in properly labeled 55-gallon drums pending permitted disposal.

Wells were sampled using the same tubing and peristaltic pump used for purging. Sampling was conducted using low-flow sampling techniques to minimize sample volatilization and silt uptake. The groundwater samples were collected at a flow rate of less than 100 milliliters/minute and pumped directly into appropriate pre-labeled sample containers supplied by the laboratory.

All groundwater samples were submitted for analysis of VOCs using U.S. Environmental Protection Agency (EPA) Method 8260C. Selected groundwater samples were additionally submitted for the following analyses:

- Total Cr using EPA Method 200.8; and
- CrVI using EPA Method 7196.

Upon collection, the groundwater samples were placed in a chilled cooler and submitted to ALS Laboratory Group (ALS) in Everett, Washington, under standard chain-of-custody protocol. During each event, field duplicate groundwater samples were also collected and submitted to ALS for quality control purposes.

## GROUNDWATER ANALYTICAL RESULTS

Laboratory-reported chemical analytical data are summarized in Tables 2 and 3. Final laboratory analytical reports are included as Attachment A. The groundwater cleanup levels (CULs) for the Site were developed in Section 6.0 of the RI and summarized in Table 16 of the RI. The analytical results for the contaminants of concern (COCs) relative to the CULs for each sampling event are summarized below.

For the purposes of this report, TCE and CrVI in groundwater are the primary COCs for monitoring, and these chemicals serve as indicator hazardous substances for the dissolved-phase plume.

Isoconcentration contours for the February 2019 TCE data are presented on Figure 8. Figure 9 depicts TCE isoconcentration contours for the June 2018 through November 2018 sampling events.

No graphics were prepared for CrVI because none of the detected concentrations exceeded the Site-specific CUL developed in the RI.

### June 2018

This was a quarterly sampling event. TCE was identified in 5 of the 10 groundwater samples collected from the shallow monitoring wells sampled during this event. Reported concentrations of TCE ranged from 2.1 µg/L in the sample collected from well MW-26s to 35 µg/L in the sample collected from monitoring well MW-11. Three of the reported TCE concentrations in shallow groundwater exceeded the CUL for TCE of 8.4 µg/L.

TCE was identified in the groundwater sample collected from one of the two intermediate monitoring wells (MW-7ir and MW_15i) sampled during this event. TCE was reported at a concentration of 2.2 µg/L in the sample collected from monitoring well MW-15i, which is less than the CUL of 8.4 µg/L and also less than the MTCA Method A CUL for drinking water of 5.0 µg/L..

CrVI was identified in one of the four groundwater samples collected from the shallow monitoring wells sampled during this event. CrVI was reported at a concentration of 51 µg/L in the sample collected from monitoring well SBW-3, which is less than the CUL of 9,400 µg/L. CrVI was not detected in the intermediate depth aquifer.

**August 2018**

This was a semi-annual sampling event. TCE was identified in groundwater samples collected from 6 of the 17 shallow monitoring wells sampled during this event. Reported concentrations of TCE ranged from 3.3 µg/L in the sample collected from well SBW-2 to 120 µg/L in the sample collected from monitoring well MW-1. Four of the reported TCE concentrations in shallow groundwater exceeded the CUL of 8.4 µg/L.

TCE was not identified in the groundwater samples collected from the two intermediate monitoring wells sampled during this event, MW-7ir and MW-15i.

CrVI was identified in two of the six groundwater samples collected from shallow monitoring wells sampled during this event. CrVI was reported at concentrations of 14 µg/L and 64 µg/L in the groundwater samples collected from monitoring wells MW-11 and SBW-3, respectively. Both reported concentrations are less than the CUL of 9,400 µg/L. CrVI was not detected in the intermediate depth aquifer.

**November 2018**

This was a quarterly sampling event. TCE was identified in groundwater samples collected from 7 of the 12 shallow monitoring wells sampled during this event. Reported concentrations of TCE ranged from 2.1 µg/L in the sample collected from well MW-14 to 16 µg/L in the sample collected from monitoring well MW-11. Five of the reported TCE concentrations in shallow groundwater exceeded the CUL of 8.4 µg/L.

TCE was not identified in the groundwater samples collected from the two intermediate monitoring wells sampled during this event, MW-7ir and MW-15i.

CrVI was identified in groundwater samples collected from one of the four shallow monitoring wells sampled during this event. CrVI was reported at a concentration of 86 µg/L in the sample collected from monitoring well SBW-3, which is less than the CUL of 9,400 µg/L. CrVI was not detected in the intermediate depth aquifer.

**February 2019**

This was the side-wide annual sampling event for all wells. TCE was identified in groundwater samples collected from 11 of the 31 shallow monitoring wells sampled during this event. Reported concentrations of TCE ranged from 2.1 µg/L in the sample collected from MW-4 to 70 µg/L in the sample collected from monitoring well MW-3. Five of the reported TCE concentrations in shallow groundwater exceeded the CUL for TCE of 8.4 µg/L.

TCE was not identified in any of the groundwater sample collected from the 15 intermediate monitoring wells sampled during this event at concentrations greater than the sample quantitation limit of 2 µg/L.

CrVI was identified in groundwater samples collected from 2 of the 11 shallow monitoring wells sampled during this event. Reported concentrations of CrVI were 41 µg/L in the groundwater sample collected from monitoring well MW-14 and 91 µg/L in the sample collected from monitoring well SBW-3. Neither

of the reported concentrations of CrVI exceeded the CUL of 9,400 µg/L. CrVI was not detected in the intermediate depth aquifer.

## ENHANCED REDUCTIVE DECHLORINATION APPLICATION

In December 2016 and August 2017, EPI implemented *in situ* groundwater treatment using ERD at the Site. The primary objective of the ERD treatment is to reduce dissolved-phase concentrations of VOCs within the apparent source area for groundwater impacts, thereby limiting the potential for downgradient and cross-gradient VOC migration. The December 2016 treatment focused on the apparent source area within the central portion of the property. The August 2017 ERD treatment focused on impacts downgradient of the source area and off-property.

The March 2017 groundwater monitoring event represents the first such event after the initial ERD treatment. The November 2017 groundwater monitoring event was the first event following the second ERD application. The effectiveness of the ERD applications will continue to be monitored through routine quarterly groundwater monitoring and evaluation of trends in the resulting data.

## GROUNDWATER AND COC TRENDS

Groundwater monitoring data for June 2018 through February 2019 were evaluated for temporal fluctuations and trends in groundwater elevations and contaminant concentrations in the shallow and intermediate aquifers throughout the Site.

### Piezometric Conditions

The observed hydraulic gradients and flow directions were generally consistent throughout the annual monitoring cycle and with prior annual monitoring cycles. Within the shallow aquifer, the inferred groundwater flow direction is consistently westerly to northwesterly with a gradient of approximately 0.015 to 0.03 feet/foot. Piezometric contour maps for the shallow aquifer in the annual monitoring cycle are presented on Figure 3 (February 2019) and Figure 4 (June 2018 through November 2018). Water level data for the Site are summarized in Table 1.

Within the intermediate aquifer, the pattern of apparent groundwater migration was very consistent during the annual monitoring cycle and with prior annual monitoring cycles. The inferred groundwater flow direction is also consistently westerly to northwesterly with a gradient of approximately 0.03 feet/foot. Piezometric contour maps for the intermediate aquifer in the annual monitoring cycle are presented on Figure 5 (February 2019) and Figure 6 (June 2018 through November 2018).

Water level data in 13 shallow and intermediate aquifers well pairs indicate that there is a consistent net upward hydraulic gradient between the shallow and intermediate aquifers over the entire Site. While small downward gradients were sporadically observed at isolated locations during the year, the downward gradients vary temporally and spatially, and appear to coincide with unusually high groundwater levels in the shallow aquifer; likely due to significant precipitation events.

### TCE Trends Analysis

TCE is the most abundant COC at the Site with the highest concentrations present in groundwater. TCE is therefore used as the indicator compound for the purposes of illustrating and discussing contaminant distribution trends. An evaluation of trends in reported TCE concentrations is presented below, and cumulative data for tetrachloroethene (PCE), TCE, cis-1,2-dichloroethene (cis-1,2-DCE), and vinyl chloride are summarized in Table 2. The discussions below will indicate that both the intensity of the dissolved-phase plume (as measured by maximum concentrations) and the lateral extent of the plume (as measured in total area) have decreased over time and in response to the Interim Actions.

Figures 8 and 9 illustrate the dissolved-phase TCE plume in the shallow aquifer during the annual monitoring cycle and illustrate that the maximum lateral extent of the plume, as defined by the 8.4 µg/L concentration isocontour remained stable during the 2017 to 2018 monitoring cycle. However, maximum TCE concentrations in the core of the plume continued to decrease during the year in response to the ongoing ERD treatment.

The highest concentrations of TCE in the shallow aquifer extend northwest from downgradient of the apparent source area near MW-15s to the western portion of the WII Property and into South Dakota Street, hydraulically downgradient of the source area. Throughout the monitoring period, the highest TCE concentrations were generally observed in monitoring wells MW-1, MW-3, and SBW-3 (i.e., Source Area wells).

As noted above, ERD treatment was performed in December 2016 and August 2017. A comparison of March 2016 (pre-treatment) and February 2019 data for the Source Area wells provides a continuing indication of the efficacy of the ERD treatment. For monitoring well MW-1 the TCE concentration from March 2016 to February 2019 decreased from 910 µg/L to 4.8 µg/L (approximately 99 percent). For monitoring well MW-3 the decrease was from 440 µg/L to 70 µg/L (approximately 84 percent) and for SBW-3 the decrease was from 100 µg/L to 38 µg/L (approximately 62 percent). This represents an average decrease of 82 percent from March 2016 to February 2019. It is anticipated that these decreases in TCE concentration will continue as ERD continues. WIERT periodically monitors concentrations of total organic carbon (TOC), pH, dissolved oxygen, and oxidation-reduction potential as indicators of ongoing ERD activity. WIERT anticipates additional ERD treatment events as these indicators suggest that the ERD treatment media has been consumed and as TCE concentrations continue to exceed the CULs.

Figure 10 presents the distribution of the shallow TCE plume prior to remediation system startup in December 2016 through February 2019. This figure provides a graphical representation of the lateral extent of the dissolved-phase TCE plume as defined by the maximum lateral extent of concentrations exceeding the Site-specific cleanup level of 8.4 µg/L. This graphic indicates a substantial reduction in the area of the “Site,” as defined by an exceedence of the 8.4 µg/L CUL. The pre-remediation area of the Site was approximately 57,005 square feet and the February 2019 area of the Site is approximately 19,045 square feet. This is an approximate 67 percent reduction in the area of the Site.

The pre-remediation area of the Site exceeding the Site-specific remedial level (REL) of 37 µg/L was approximately 43,655 square feet compared to the February 2019 area of 2,965 square feet. This represents an approximate decrease of 93 percent.

### CrVI Trends Analysis

The available data indicate that concentrations of dissolved CrVI in the shallow aquifer have also decreased significantly in response to the ERD treatment. For monitoring well MW-3 the CrVI concentration from March 2016 to February 2019 decreased from 3,000 µg/L to less than 10 µg/L (greater than 99 percent). For monitoring well MW-11 the decrease was from 57 µg/L to less than 10 µg/L (greater than 82 percent). For monitoring well MW-18 the decrease was from 5,300 µg/L to less than 10 µg/L (greater than 99 percent), and for SBW-3 the decrease was from 170 µg/L to 91 µg/L (approximately 46 percent). This represents an average decrease in CrVI concentrations of about 82 percent from March 2016 to February 2019. Cumulative data for CrVI and total Cr are summarized in Table 3.

## SVE SYSTEM OPERATION

As referenced earlier, two SVE systems are operating at the Site for remediation of the shallow soil. SVE System 1 was installed between June 20, 2016 and August 2, 2016 and was started up on May 1, 2017 for continuous operation. System 1 is focused on soil conditions within the apparent source area inside the WII building. SVE System 2 was installed between July 17, 2017 and November 21, 2017 and started up on December 4, 2018 for continuous operation. System 2 is focused on soil conditions downgradient of the apparent source are and within the western portion of the building.

Extracted vapors for System 1 were initially treated through activated carbon to remove COCs prior to atmospheric discharge. Because the annual system effluent loads are less than the Puget Sound Clean Air Agency (PSCAA) discharge criteria, the system effluent is not currently being treated. The atmospheric discharge is also exempt from permitting under the criteria set forth by PSCAA.

Details of the installation and startup of the SVE systems are provided in the *Remedial Action System As-Built and Startup Report* (As-Built Report), which was published on April 17, 2018. As noted above, this report was provided to Ecology through the VCP.

System operation and maintenance (O&M) events were performed at the Site one time per month during the 2018–2019 monitoring period. During the O&M site visits, EPI personnel monitored and recorded system status and operational parameters and made necessary adjustments to the system components to optimize performance.

Samples of the system effluent vapors were also collected on each O&M visit to confirm compliance with the PSCAA exemption, estimate a contaminant mass removal rate, and evaluate control efficiency of the granulated activated carbon (GAC) treatment vessels (when used). The vapor samples were collected into Tedlar® bags and submitted to Fremont Analytical in Seattle, Washington, for laboratory analysis. All samples were analyzed for VOCs using EPA Method 8260.

Based on the monitoring data and vapor analytical results, it is estimated that SVE System 1 has removed approximately 141 pounds of VOCs from the time of initial system startup on May 1, 2017 through February 8, 2019, when the system was shut down in advance of the groundwater monitoring event. SVE System 2 is estimated to have removed an additional 25.6 pounds of VOCs between December 4, 2017 and February 8, 2019, for an approximate total quantity of 167 pounds removed.

Tabulated vapor emission data for the SVE systems are summarized in Tables 4 and 5. Tabulated mass removal and destruction efficiency data for the SVE system are summarized in Tables 6 and 7. A copy of the laboratory analytical report for the system vapor samples is provided in Attachment B.

System monitoring data confirmed that the system discharges were in compliance with the PSCAA exemption limits.

## CONCLUSIONS

The following conclusions are supported by the findings of the 2018 to 2019 annual monitoring cycle:

- The hydraulic gradients in the shallow and intermediate aquifers remained consistently westerly to northwesterly during the monitoring year. These gradients and flow directions are consistent with prior annual sampling periods and appear to be highly stable from year to year.

- A net upward hydraulic gradient between the shallow and intermediate aquifers is consistently observed across the Site.

- The net upward hydraulic gradient appears to impede the downward migration of VOCs into the intermediate aquifer as demonstrated by general absence of impact to the intermediate aquifer, including the lack of impacts to the intermediate aquifer in the former Source Area.

- The combined SVE and ERD treatment at the Site has been highly effective at addressing dissolved-phase VOC impacts to groundwater. Concentrations of TCE have decreased by as much as 99 percent when compared to the maximum pre-treatment concentration at well MW-1. The interim actions implemented at the Site have reduced the areal extent of the TCE plume by approximately 67 percent since December 2016, based on the CUL of 8.4 µg/L. When compared to the REL of 37 µg/L, the areal extent of the plume has been decreased by 93 percent.

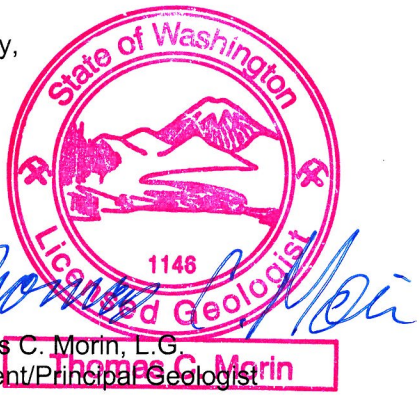
- The interim actions implemented at the Site have also been highly effective at addressing CrVI impacts to groundwater. The interim actions have reduced the CrVI concentrations by about 82 percent between March 2016 and February 2019.

- The SVE systems appear to be highly effective at removing contaminant mass from the subsurface and limiting VOC dissolution to groundwater. Data collected to date indicate that the SVE systems have removed approximately 167 pounds of VOCs from May 2017 through February 2019 at an average rate of approximately 0.26 pounds per day.

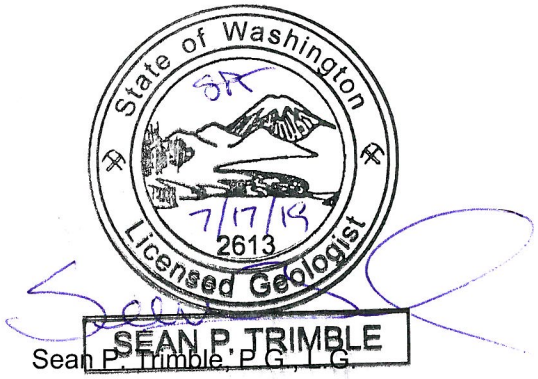
## CLOSING

Groundwater monitoring at the Site is ongoing and will continue to be performed and reported in a manner consistent with our approved Scope of Work. As ERD progresses EPI may recommend additional ERD injections and treatment in order to complete the remediation of groundwater at the Site. EPI appreciates the opportunity to be of assistance on this project. If you have any questions or comments, please do not hesitate to contact us at 425-395-0010.

Sincerely,




Thomas C. Morin, L.G.
President/Principal Geologist




Sean P. Trimble, P.G., L.G.
Senior Geologist

cc: Mr. Larry Setchell, Helsell Fetterman (Counsel to WIERT)

## ENCLOSURES

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### Attachments

Attachment A Laboratory Analytical Reports for Groundwater
Attachment B Laboratory Analytical Reports for System Vapors

# Tables

**Table 1**
**Summary of Groundwater Elevation Data**
**Annual Groundwater Monitoring Report for 2018–2019**
**Washington Industries Environmental Remediation Trust**
**825 South Dakota Street and 812 and 820 South Adams Street, Seattle, Washington**

| Monitoring Well | Groundwater Zone | Date Measured | Depth to Groundwater[a] (feet) | Depth to Bottom of Well[a] (feet) | Top of Casing Elevation[b] (feet) | Groundwater Elevation[c] (feet) |
|---|---|---|---|---|---|---|
| MW-1 (MW-1s) | Shallow | 9/22/2014 | 9.14 | 11.09 | 21.03 | 11.89 |
| | | 6/5/2015 | 8.91 | 11.10 | | 12.12 |
| | | 9/14/2015 | 9.00 | NM | | 12.03 |
| | | 11/30/2015 | 8.43 | NM | | 12.60 |
| | | 3/14/2016 | 7.61 | NM | | 13.42 |
| | | 8/1/2016 | 8.99 | NM | | 12.04 |
| | | 12/5/2016 | 8.10 | NM | | 12.93 |
| | | 2/27/2017 | 2.95 | 11.09 | | 18.08 |
| | | 5/15/2017 | 8.48 | NM | | 12.55 |
| | | 8/1/2017 | 8.87 | NM | | 12.16 |
| | | 11/28/2017 | 7.86 | NM | | 13.17 |
| | | 2/27/2018 | 8.45 | NM | | 12.58 |
| | | 6/12/2018 | 8.52 | 11.09 | | 12.51 |
| | | 8/18/2018 | 9.15 | NM | | 11.88 |
| | | 11/19/2018 | 8.40 | NM | | 12.63 |
| | | 2/25/2019 | 7.92 | NM | | 13.11 |
| MW-1i | Intermediate | 10/28/2013 | 6.22 | 25.00 | 21.19 | 14.97 |
| | | 8/26/2014 | 6.28 | NM | | 14.91 |
| | | 9/22/2014 | 6.38 | NM | | 14.81 |
| | | 6/5/2015 | 6.12 | 25.21 | | 15.07 |
| | | 9/14/2015 | 6.48 | NM | | 14.71 |
| | | 11/30/2015 | 5.97 | NM | | 15.22 |
| | | 3/14/2016 | 4.85 | NW | | 16.34 |
| | | 8/1/2016 | 6.29 | NM | | 14.90 |
| | | 12/5/2016 | 5.56 | NM | | 15.63 |
| | | 2/27/2017 | 5.09 | 25.0 | | 16.10 |
| | | 5/15/2017 | 5.53 | NM | | 15.66 |
| | | 8/1/2017 | 6.10 | NM | | 15.09 |
| | | 11/28/2017 | 5.50 | NM | | 15.69 |
| | | 2/27/2018 | 5.43 | NM | | 15.76 |
| | | 6/12/2018 | 8.71 | 25.00 | | 12.48 |
| | | 8/18/2018 | 5.98 | NM | | 15.21 |
| | | 11/19/2018 | 5.88 | NM | | 15.31 |
| | | 2/25/2019 | 5.26 | NM | | 15.93 |
| MW-2 | Shallow | 10/28/2013 | 7.34 | 12.49 | 22.18 | 14.84 |
| | | 8/26/2014 | 7.41 | NM | | 14.77 |
| | | 9/22/2014 | 7.50 | NM | | 14.68 |
| | | 6/5/2015 | 7.29 | 12.53 | | 14.89 |
| | | 9/14/2015 | 7.45 | NM | | 14.73 |
| | | 11/30/2015 | 7.11 | NM | | 15.07 |
| | | 3/14/2016 | 6.69 | NM | | 15.49 |
| | | 8/1/2016 | 7.34 | NM | | 14.84 |
| | | 12/5/2016 | 6.92 | NM | | 15.26 |
| | | 2/27/2017 | 6.86 | 12.49 | | 15.32 |
| | | 5/15/2017 | 7.02 | NM | | 15.16 |
| | | 8/1/2017 | 7.30 | NM | | 14.88 |
| | | 11/28/2017 | 6.88 | NM | | 15.30 |
| | | 2/27/2018 | 7.01 | NM | | 15.17 |
| | | 6/12/2018 | 7.25 | 12.49 | | 14.93 |
| | | 8/18/2018 | 7.39 | NM | | 14.79 |
| | | 11/19/2018 | 6.39 | NM | | 15.79 |
| | | 2/25/2019 | 6.92 | NM | | 15.26 |
| MW-3 | Shallow | 10/28/2013 | 9.10 | 12.31 | 21.26 | 12.16 |
| | | 8/26/2014 | 9.20 | NM | | 12.06 |
| | | 9/22/2014 | 9.26 | NM | | 12.00 |
| | | 6/5/2015 | 9.09 | 12.51 | | 12.17 |
| | | 9/14/2015 | 9.22 | NM | | 12.04 |
| | | 11/30/2015 | 8.83 | NM | | 12.43 |
| | | 3/14/2016 | 8.21 | NW | | 13.05 |
| | | 8/1/2016 | 9.13 | NM | | 12.13 |
| | | 12/5/2016 | 8.58 | NM | | 12.68 |
| | | 2/27/2017 | 8.46 | 12.31 | | 12.80 |
| | | 5/15/2017 | 8.89 | NM | | 12.37 |
| | | 8/1/2017 | 9.15 | NM | | 12.11 |
| | | 11/28/2017 | 8.38 | NM | | 12.88 |
| | | 2/27/2018 | 8.67 | NM | | 12.59 |
| | | 6/12/2018 | 9.01 | 12.31 | | 12.25 |
| | | 8/18/2018 | 9.05 | NM | | 12.21 |

**Table 1**
**Summary of Groundwater Elevation Data**
**Annual Groundwater Monitoring Report for 2018–2019**
**Washington Industries Environmental Remediation Trust**
**825 South Dakota Street and 812 and 820 South Adams Street, Seattle, Washington**

| Monitoring Well | Groundwater Zone | Date Measured | Depth to Groundwater[a] (feet) | Depth to Bottom of Well[a] (feet) | Top of Casing Elevation[b] (feet) | Groundwater Elevation[c] (feet) |
|---|---|---|---|---|---|---|
| MW-3 | Shallow | 11/19/2018 | 8.93 | NM | 21.26 | 12.33 |
| | | 2/25/2019 | 8.36 | NM | | 12.90 |
| MW-4 | Shallow | 10/28/2013 | 8.06 | 11.65 | 22.98 | 14.92 |
| | | 8/26/2014 | 8.19 | NM | | 14.79 |
| | | 9/22/2014 | 8.27 | NM | | 14.71 |
| | | 6/5/2015 | 7.92 | 11.86 | | 15.06 |
| | | 9/14/2015 | 8.21 | NM | | 14.77 |
| | | 11/30/2015 | 7.68 | NM | | 15.30 |
| | | 3/14/2016 | 7.14 | NW | | 15.84 |
| | | 8/1/2016 | 8.13 | NM | | 14.85 |
| | | 12/5/2016 | 7.31 | NM | | 15.67 |
| | | 2/27/2017 | 7.23 | 11.65 | | 15.75 |
| | | 5/15/2017 | 7.44 | NM | | 15.54 |
| | | 8/1/2017 | 8.05 | NM | | 14.93 |
| | | 11/28/2017 | 7.49 | NM | | 15.49 |
| | | 2/27/2018 | 7.52 | NM | | 15.46 |
| | | 6/12/2018 | 7.88 | 11.65 | | 15.10 |
| | | 8/18/2018 | 8.18 | NM | | 14.80 |
| | | 11/19/2018 | 7.52 | NM | | 15.46 |
| | | 2/25/2019 | 7.35 | NM | | 15.63 |
| MW-4i | Intermediate | 11/30/2015 | 5.01 | NM | 22.84 | 17.83 |
| | | 3/14/2016 | 4.17 | NM | | 18.67 |
| | | 8/1/2016 | 5.11 | NM | | 17.73 |
| | | 12/5/2016 | 4.72 | NM | | 18.12 |
| | | 2/27/2017 | 3.29 | NM | | 19.55 |
| | | 5/15/2017 | 4.56 | NM | | 18.28 |
| | | 8/1/2017 | 5.14 | NM | | 17.70 |
| | | 11/28/2017 | 4.94 | 39.97 | | 17.90 |
| | | 2/27/2018 | 4.69 | NM | | 18.15 |
| | | 6/12/2018 | 4.99 | NM | | 17.85 |
| | | 8/18/2018 | 5.17 | NM | | 17.67 |
| | | 11/19/2018 | 5.09 | NM | | 17.75 |
| | | 2/25/2019 | 4.54 | NM | | 18.30 |
| MW-5 | Intermediate | 8/26/2014 | 5.30 | 24.93 | 21.80 | 16.50 |
| | | 9/22/2014 | 5.40 | NM | | 16.40 |
| | | 6/5/2015 | 5.19 | 25.28 | | 16.61 |
| | | 9/14/2015 | 5.46 | NM | | 16.34 |
| | | 11/30/2015 | 5.19 | NM | | 16.61 |
| | | 3/14/2016 | 4.29 | NM | | 17.51 |
| | | 1/19/2017 | **WELL DECOMMISSIONED** | | | |
| MW-5B | Intermediate | 10/28/2013 | 5.09 | 25.23 | 21.72 | 16.63 |
| | | 8/26/2014 | 5.23 | NM | | 16.49 |
| | | 9/22/2014 | 5.32 | NM | | 16.40 |
| | | 6/5/2015 | 5.08 | 25.26 | | 16.64 |
| | | 9/14/2015 | 5.38 | NM | | 16.34 |
| | | 11/30/2015 | 5.09 | NM | | 16.63 |
| | | 3/14/2016 | 4.23 | NM | | 17.49 |
| | | 8/1/2016 | 5.35 | NM | | 16.37 |
| | | 12/5/2016 | 4.84 | NM | | 16.88 |
| | | 2/27/2017 | 4.46 | 25.23 | | 17.26 |
| | | 5/15/2017 | 4.70 | NM | | 17.02 |
| | | 8/1/2017 | 5.24 | NM | | 16.48 |
| | | 11/28/2017 | 4.98 | NM | | 16.74 |
| | | 2/27/2018 | 4.81 | NM | | 16.91 |
| | | 6/12/2018 | 5.08 | 25.23 | | 16.64 |
| | | 8/18/2018 | 5.29 | NM | | 16.43 |
| | | 11/19/2018 | 5.20 | NM | | 16.52 |
| | | 2/25/2019 | 4.66 | NM | | 17.06 |
| MW-05 (MW-05s) | Shallow | 8/26/2014 | 13.02 | NM | 27.32 | 14.30 |
| | | 9/22/2014 | 13.13 | NM | | 14.19 |
| | | 6/5/2015 | 12.82 | 15.00 | | 14.50 |
| | | 9/14/2015 | 13.08 | NM | | 14.24 |
| | | 11/30/2015 | 12.96 | NM | | 14.36 |
| | | 3/14/2016 | 11.98 | NM | | 15.34 |
| | | 8/1/2016 | 13.00 | NM | | 14.32 |
| | | 12/5/2016 | 12.20 | NM | | 15.12 |
| | | 2/27/2017 | 12.04 | NM | | 15.28 |
| | | 5/15/2017 | 12.23 | NM | | 15.09 |

**Table 1**
**Summary of Groundwater Elevation Data**
**Annual Groundwater Monitoring Report for 2018–2019**
**Washington Industries Environmental Remediation Trust**
**825 South Dakota Street and 812 and 820 South Adams Street, Seattle, Washington**

| Monitoring Well | Groundwater Zone | Date Measured | Depth to Groundwater[a] (feet) | Depth to Bottom of Well[a] (feet) | Top of Casing Elevation[b] (feet) | Groundwater Elevation[c] (feet) |
|---|---|---|---|---|---|---|
| MW-05 (MW-05s) | Shallow | 8/1/2017 | 12.79 | NM | 27.32 | 14.53 |
| | | 11/28/2017 | 12.30 | 14.98 | | 15.02 |
| | | 2/27/2018 | 12.30 | NM | | 15.02 |
| | | 6/12/2018 | 12.69 | NM | | 14.63 |
| | | 8/18/2018 | 12.88 | NM | | 14.44 |
| | | 11/19/2018 | 12.31 | NM | | 15.01 |
| | | 2/25/2019 | 12.18 | NM | | 15.14 |
| MW-05i | Intermediate | 6/5/2015 | 10.90 | 25.80 | 27.38 | 16.48 |
| | | 9/14/2015 | 11.18 | NM | | 16.20 |
| | | 11/30/2015 | 10.84 | NM | | 16.54 |
| | | 3/14/2016 | 10.02 | NM | | 17.36 |
| | | 8/1/2016 | 11.29 | NM | | 16.09 |
| | | 12/5/2016 | 10.69 | NM | | 16.69 |
| | | 2/27/2017 | 10.40 | NM | | 16.98 |
| | | 5/15/2017 | 10.61 | NM | | 16.77 |
| | | 8/1/2017 | 11.21 | NM | | 16.17 |
| | | 11/28/2017 | 10.88 | 25.80 | | 16.50 |
| | | 2/27/2018 | 10.71 | NM | | 16.67 |
| | | 6/12/2018 | 11.04 | NM | | 16.34 |
| | | 8/18/2018 | 11.27 | NM | | 16.11 |
| | | 11/19/2018 | 10.95 | NM | | 16.43 |
| | | 2/25/2019 | 10.57 | NM | | 16.81 |
| MW-6 | -- | **WELL DECOMMISSIONED** | | | | |
| MW-7s | Shallow | 6/5/2015 | 9.73 | 13.46 | 21.57 | 11.84 |
| | | 9/14/2015 | 9.87 | NM | | 11.70 |
| | | 11/30/2015 | 9.16 | NM | | 12.41 |
| | | 3/14/2016 | 8.48 | NM | | 13.09 |
| | | 8/1/2016 | 9.89 | NM | | 11.68 |
| | | 12/5/2016 | 8.88 | NM | | 12.69 |
| | | 2/27/2017 | 8.75 | NM | | 12.82 |
| | | 5/15/2017 | 9.28 | NM | | 12.29 |
| | | 8/1/2017 | 9.81 | NM | | 11.76 |
| | | 11/28/2017 | 8.68 | NM | | 12.89 |
| | | 2/27/2018 | 8.99 | NM | | 12.58 |
| | | 6/12/2018 | 9.38 | NM | | 12.19 |
| | | 8/18/2018 | 9.60 | NM | | 11.97 |
| | | 11/19/2018 | 9.25 | NM | | 12.32 |
| | | 2/25/2019 | 8.66 | NM | | 12.91 |
| MW-7i | Intermediate | 10/28/2013 | 6.76 | 24.90 | 21.40 | 14.64 |
| | | 8/26/2014 | 7.47 | NM | | 13.93 |
| | | 9/22/2014 | 7.62 | NM | | 13.78 |
| | | 6/5/2015 | 7.22 | 25.06 | | 14.18 |
| | | 9/14/2015 | 7.63 | NM | | 13.77 |
| | | 11/30/2015 | 6.58 | NM | | 14.82 |
| MW-7ir | Intermediate | 11/30/2015 | 6.28 | NM | 21.48 | 15.20 |
| | | 3/14/2016 | 5.49 | NM | | 15.99 |
| | | 8/1/2016 | 6.65 | NM | | 14.83 |
| | | 12/5/2016 | 6.11 | NM | | 15.37 |
| | | 2/27/2017 | 6.76 | NM | | 14.72 |
| | | 5/15/2017 | 6.02 | NM | | 15.46 |
| | | 8/1/2017 | 6.74 | NM | | 14.74 |
| | | 11/28/2017 | 6.29 | NM | | 15.19 |
| | | 2/27/2018 | 6.11 | NM | | 15.37 |
| | | 6/12/2018 | 6.42 | NM | | 15.06 |
| | | 8/18/2018 | 6.69 | NM | | 14.79 |
| | | 11/19/2018 | 6.54 | NM | | 14.94 |
| | | 2/25/2019 | 5.92 | NM | | 15.56 |
| MW-7 (MW-7d) | Deep | 9/22/2014 | 3.87 | 39.00 | 21.29 | 17.42 |
| | | 6/5/2015 | 3.60 | 39.45 | | 17.69 |
| | | 9/14/2015 | 3.85 | NM | | 17.44 |
| | | 11/30/2015 | 3.68 | NM | | 17.61 |
| | | 3/14/2016 | 2.75 | NM | | 18.54 |
| | | 1/19/2017 | **WELL DECOMMISSIONED** | | | |
| MW-07 | Shallow | 8/26/2014 | 11.79 | NM | 26.55 | 14.76 |
| | | 9/22/2014 | 11.90 | NM | | 14.65 |
| | | 6/5/2015 | 11.53 | 14.32 | | 15.02 |
| | | 9/14/2015 | 11.80 | NM | | 14.75 |

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**Summary of Groundwater Elevation Data**
**Annual Groundwater Monitoring Report for 2018–2019**
**Washington Industries Environmental Remediation Trust**
**825 South Dakota Street and 812 and 820 South Adams Street, Seattle, Washington**

| Monitoring Well | Groundwater Zone | Date Measured | Depth to Groundwater[a] (feet) | Depth to Bottom of Well[a] (feet) | Top of Casing Elevation[b] (feet) | Groundwater Elevation[c] (feet) |
|---|---|---|---|---|---|---|
| MW-07 | Shallow | 11/30/2015 | 11.21 | NM | 26.55 | 15.34 |
| | | 3/14/2016 | 10.65 | NM | | 15.90 |
| | | 8/1/2016 | 11.75 | NM | | 14.80 |
| | | 12/5/2016 | 10.84 | NM | | 15.71 |
| | | 2/27/2017 | 10.77 | NM | | 15.78 |
| | | 5/15/2017 | 10.99 | NM | | 15.56 |
| | | 8/1/2017 | 11.61 | NM | | 14.94 |
| | | 11/28/2017 | 11.05 | 13.30 | | 15.50 |
| | | 2/27/2018 | 11.06 | NM | | 15.49 |
| | | 6/12/2018 | 11.46 | NM | | 15.09 |
| | | 8/18/2018 | 11.75 | NM | | 14.80 |
| | | 11/19/2018 | 11.05 | NM | | 15.50 |
| | | 2/25/2019 | 10.92 | NM | | 15.63 |
| MW-8s | Shallow | 6/5/2015 | 8.10 | 13.64 | 19.58 | 11.48 |
| | | 9/14/2015 | 8.20 | NM | | 11.38 |
| | | 11/30/2015 | 7.57 | NM | | 12.01 |
| | | 3/14/2016 | 4.12 | NM | | 15.46 |
| | | 8/1/2016 | 8.25 | NM | | 11.33 |
| | | 12/5/2016 | 7.37 | NM | | 12.21 |
| | | 2/27/2017 | 7.20 | NM | | 12.38 |
| | | 5/15/2017 | 8.71 | NM | | 10.87 |
| | | 8/1/2017 | 8.87 | NM | | 10.71 |
| | | 11/28/2017 | 7.25 | 10.90 | | 12.33 |
| | | 2/27/2018 | 7.55 | NM | | 12.03 |
| | | 6/12/2018 | 7.86 | NM | | 11.72 |
| | | 8/18/2018 | 8.06 | NM | | 11.52 |
| | | 11/19/2018 | 7.74 | NM | | 11.84 |
| | | 2/25/2019 | 7.26 | NM | | 12.32 |
| MW-8 (MW-8i) | Intermediate | 10/28/2013 | 5.59 | 25.00 | 19.49 | 13.90 |
| | | 8/26/2014 | 5.64 | NM | | 13.85 |
| | | 9/22/2014 | 5.82 | NM | | 13.67 |
| | | 6/5/2015 | 5.54 | 25.19 | | 13.95 |
| | | 9/14/2015 | 5.81 | NM | | 13.68 |
| | | 11/30/2015 | 5.40 | NM | | 14.09 |
| | | 3/14/2016 | 5.09 | NM | | 14.40 |
| | | 8/1/2016 | 5.32 | NM | | 14.17 |
| | | 12/5/2016 | 5.41 | NM | | 14.08 |
| | | 2/27/2017 | 4.93 | 25.00 | | 14.56 |
| | | 5/15/2017 | 5.04 | NM | | 14.45 |
| | | 8/1/2017 | 5.63 | NM | | 13.86 |
| | | 11/28/2017 | 4.31 | NM | | 15.18 |
| | | 2/27/2018 | 5.04 | NM | | 14.45 |
| | | 6/12/2018 | 6.09 | 25.00 | | 13.40 |
| | | 8/18/2018 | 5.65 | NM | | 13.84 |
| | | 11/19/2018 | 5.56 | NM | | 13.93 |
| | | 2/25/2019 | 4.91 | NM | | 14.58 |
| MW-9 | Shallow | 10/28/2013 | 10.34 | 14.86 | 19.03 | 8.69 |
| | | 8/26/2014 | 10.49 | NM | | 8.54 |
| | | 9/22/2014 | 10.59 | NM | | 8.44 |
| | | 6/5/2015 | 10.47 | 15.06 | | 8.56 |
| | | 9/14/2015 | 10.39 | NM | | 8.64 |
| | | 11/30/2015 | 10.00 | NM | | 9.03 |
| | | 3/14/2016 | 9.67 | NM | | 9.36 |
| | | 8/1/2016 | 10.54 | NM | | 8.49 |
| | | 12/5/2016 | 9.86 | NM | | 9.17 |
| | | 2/27/2017 | 9.88 | 14.86 | | 9.15 |
| | | 5/15/2017 | 10.19 | NM | | 8.84 |
| | | 8/1/2017 | 10.52 | NM | | 8.51 |
| | | 11/28/2017 | 9.86 | NM | | 9.17 |
| | | 2/27/2018 | 10.2 | NM | | 8.83 |
| | | 6/12/2018 | 10.87 | 14.86 | | 8.16 |
| | | 8/18/2018 | 10.48 | NM | | 8.55 |
| | | 11/19/2018 | 10.30 | NM | | 8.73 |
| | | 2/25/2019 | 9.89 | NM | | 9.14 |
| MW-10 (MW-10s) | Shallow | 10/28/2013 | 11.98 | 23.71 | 18.60 | 6.62 |
| | | 8/26/2014 | 12.02 | NM | | 6.58 |
| | | 9/22/2014 | 12.17 | NM | | 6.43 |
| | | 6/5/2015 | 11.84 | 24.35 | | 6.76 |

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**Washington Industries Environmental Remediation Trust**
**825 South Dakota Street and 812 and 820 South Adams Street, Seattle, Washington**

| Monitoring Well | Groundwater Zone | Date Measured | Depth to Groundwater[a] (feet) | Depth to Bottom of Well[a] (feet) | Top of Casing Elevation[b] (feet) | Groundwater Elevation[c] (feet) |
|---|---|---|---|---|---|---|
| MW-10 (MW-10s) | Shallow | 9/14/2015 | 12.08 | NM | 18.60 | 6.52 |
| | | 11/30/2015 | NM | NM | | NM |
| | | 3/14/2016 | 11.11 | NM | | 7.49 |
| | | 8/1/2016 | 11.99 | NM | | 6.61 |
| | | 12/5/2016 | 11.33 | NM | | 7.27 |
| | | 2/27/2017 | 11.17 | 23.71 | | 7.43 |
| | | 5/15/2017 | 11.44 | NM | | 7.16 |
| | | 8/1/2017 | 11.88 | NM | | 6.72 |
| | | 11/28/2017 | 11.57 | NM | | 7.03 |
| | | 2/27/2018 | 11.57 | NM | | 7.03 |
| | | 6/12/2018 | 11.86 | 23.71 | | 6.74 |
| | | 8/18/2018 | 12.08 | NM | | 6.52 |
| | | 11/19/2018 | 12.12 | NM | | 6.48 |
| | | 2/25/2019 | 11.32 | NM | | 7.28 |
| MW-10i | Intermediate | 6/5/2015 | 12.60 | 32.93 | 18.88 | 6.28 |
| | | 9/14/2015 | 11.83 | NM | | 7.05 |
| | | 11/30/2015 | 11.27 | NM | | 7.61 |
| | | 3/14/2016 | 11.18 | NM | | 7.70 |
| | | 8/1/2016 | 11.15 | NM | | 7.73 |
| | | 12/5/2016 | 10.76 | NM | | 8.12 |
| | | 2/27/2017 | 10.29 | NM | | 8.59 |
| | | 5/15/2017 | 11.47 | NM | | 7.41 |
| | | 8/1/2017 | 11.66 | NM | | 7.22 |
| | | 11/28/2017 | 11.25 | 32.93 | | 7.63 |
| | | 2/27/2018 | 11.64 | NM | | 7.24 |
| | | 6/12/2018 | 12.31 | NM | | 6.57 |
| | | 8/18/2018 | 11.75 | NM | | 7.13 |
| | | 11/19/2018 | 11.67 | NM | | 7.21 |
| | | 2/25/2019 | 10.97 | NM | | 7.91 |
| MW-11 | Shallow | 10/28/2013 | 6.61 | 14.13 | 13.33 | 6.72 |
| | | 8/26/2014 | 7.14 | NM | | 6.19 |
| | | 9/22/2014 | 7.21 | NM | | 6.12 |
| | | 6/5/2015 | 6.95 | 14.99 | | 6.38 |
| | | 9/14/2015 | 7.12 | NM | | 6.21 |
| | | 11/30/2015 | 6.85 | NM | | 6.48 |
| | | 3/14/2016 | 6.60 | NM | | 6.73 |
| | | 8/1/2016 | 7.12 | NM | | 6.21 |
| | | 12/5/2016 | 6.72 | NM | | 6.61 |
| | | 2/27/2017 | 6.59 | 14.13 | | 6.74 |
| | | 5/15/2017 | 6.73 | NM | | 6.60 |
| | | 8/1/2017 | 6.98 | NM | | 6.35 |
| | | 11/28/2017 | 6.89 | NM | | 6.44 |
| | | 2/27/2018 | 6.92 | NM | | 6.41 |
| | | 6/12/2018 | 7.05 | 14.13 | | 6.28 |
| | | 8/18/2018 | 7.14 | NM | | 6.19 |
| | | 11/19/2018 | 7.23 | NM | | 6.10 |
| | | 2/25/2019 | 6.72 | NM | | 6.61 |
| MW-12 | Shallow | 10/28/2013 | 4.83 | 12.22 | 11.46 | 6.63 |
| | | 8/26/2014 | 4.87 | NM | | 6.59 |
| | | 9/22/2014 | 4.98 | NM | | 6.48 |
| | | 6/5/2015 | 4.66 | 14.88 | | 6.80 |
| | | 9/14/2015 | 4.84 | NM | | 6.62 |
| | | 11/30/2015 | 4.38 | NM | | 7.08 |
| | | 3/14/2016 | 3.98 | NM | | 7.48 |
| | | 8/1/2016 | 4.80 | NM | | 6.66 |
| | | 12/5/2016 | 4.5 | NM | | 6.96 |
| | | 2/27/2017 | 4.02 | 12.22 | | 7.44 |
| | | 5/15/2017 | 4.25 | NM | | 7.21 |
| | | 8/1/2017 | 4.71 | NM | | 6.75 |
| | | 11/28/2017 | 4.42 | NM | | 7.04 |
| | | 2/27/2018 | 4.4 | NM | | 7.06 |
| | | 6/12/2018 | **Not measured, well inaccessible** | | | |
| | | 8/18/2018 | 4.88 | NM | 11.46 | 6.58 |
| | | 11/19/2018 | 4.95 | NM | | 6.51 |
| | | 2/25/2019 | 4.17 | NM | | 7.29 |
| MW-13 | -- | **WELL INACCESSIBLE** | | | | |
| MW-14 | Shallow | 10/28/2013 | 6.64 | 7.81 | 21.58 | 14.94 |
| | | 8/26/2014 | 6.80 | NM | | 14.78 |

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**825 South Dakota Street and 812 and 820 South Adams Street, Seattle, Washington**

| Monitoring Well | Groundwater Zone | Date Measured | Depth to Groundwater[a] (feet) | Depth to Bottom of Well[a] (feet) | Top of Casing Elevation[b] (feet) | Groundwater Elevation[c] (feet) |
|---|---|---|---|---|---|---|
| MW-14 | Shallow | 9/22/2014 | 6.91 | NM | 21.58 | 14.67 |
| | | 6/5/2015 | 6.55 | 8.20 | | 15.03 |
| | | 9/14/2015 | 7.23 | NM | | 14.35 |
| | | 11/30/2015 | 6.29 | NM | | 15.29 |
| | | 3/14/2016 | 5.83 | NM | | 15.75 |
| | | 8/1/2016 | 6.72 | NM | | 14.86 |
| | | 12/5/2016 | 5.68 | NM | | 15.90 |
| | | 2/27/2017 | 5.29 | 7.81 | | 16.29 |
| | | 5/15/2017 | 6.09 | NM | | 15.49 |
| | | 8/1/2017 | 6.63 | NM | | 14.95 |
| | | 11/28/2017 | 6.12 | NM | | 15.46 |
| | | 2/27/2018 | 6.18 | NM | | 15.40 |
| | | 6/12/2018 | 6.48 | 7.81 | | 15.10 |
| | | 8/18/2018 | 6.72 | NM | | 14.86 |
| | | 11/19/2018 | 6.15 | NM | | 15.43 |
| | | 2/25/2019 | 5.98 | NM | | 15.60 |
| MW-15 (MW-15s) | Shallow | 10/28/2013 | 6.99 | 10.00 | 21.54 | 14.55 |
| | | 8/26/2014 | 7.12 | NM | | 14.42 |
| | | 9/22/2014 | 7.18 | NM | | 14.36 |
| | | 6/5/2015 | 6.93 | 10.19 | | 14.61 |
| | | 9/14/2015 | 7.14 | NM | | 14.40 |
| | | 11/30/2015 | 6.69 | NM | | 14.85 |
| | | 3/14/2016 | 3.19 | NM | | 18.35 |
| | | 8/1/2016 | 7.02 | NM | | 14.52 |
| | | 12/5/2016 | 6.36 | NM | | 15.18 |
| | | 2/27/2017 | 6.21 | 10.00 | | 15.33 |
| | | 5/15/2017 | 6.33 | NM | | 15.21 |
| | | 8/1/2017 | 6.83 | NM | | 14.71 |
| | | 11/28/2017 | 6.38 | NM | | 15.16 |
| | | 2/27/2018 | 6.42 | NM | | 15.12 |
| | | 6/12/2018 | 6.71 | 10.00 | | 14.83 |
| | | 8/18/2018 | 6.88 | NM | | 14.66 |
| | | 11/19/2018 | 6.30 | NM | | 15.24 |
| | | 2/25/2019 | 6.34 | NM | | 15.20 |
| MW-15i | Intermediate | 6/5/2015 | 3.73 | 29.64 | 21.37 | 17.64 |
| | | 9/14/2015 | 4.01 | NM | | 17.36 |
| | | 11/30/2015 | 3.79 | NM | | 17.58 |
| | | 3/14/2016 | 2.88 | NM | | 18.49 |
| | | 8/1/2016 | 4.01 | NM | | 17.36 |
| | | 12/5/2016 | 3.50 | NM | | 17.87 |
| | | 2/27/2017 | 3.08 | NM | | 18.29 |
| | | 5/15/2017 | 3.32 | NM | | 18.05 |
| | | 8/1/2017 | 3.93 | NM | | 17.44 |
| | | 11/28/2017 | 3.71 | 25.32 | | 17.66 |
| | | 2/27/2018 | 3.56 | NM | | 17.81 |
| | | 6/12/2018 | 3.75 | NM | | 17.62 |
| | | 8/18/2018 | 3.98 | NM | | 17.39 |
| | | 11/19/2018 | 3.86 | NM | | 17.51 |
| | | 2/25/2019 | 3.33 | NM | | 18.04 |
| MW-16 | Shallow | 10/28/2013 | 6.90 | 11.45 | 21.44 | 14.54 |
| | | 8/26/2014 | 6.97 | NM | | 14.47 |
| | | 9/22/2014 | 7.20 | NM | | 14.24 |
| | | 6/5/2015 | 7.81 | 11.69 | | 13.63 |
| | | 9/14/2015 | 7.02 | NM | | 14.42 |
| | | 11/30/2015 | 6.68 | NM | | 14.76 |
| | | 3/14/2016 | 6.17 | NM | | 15.27 |
| | | 8/1/2016 | 7.02 | NM | | 14.42 |
| | | 12/5/2016 | 6.40 | NM | | 15.04 |
| | | 2/27/2017 | 6.15 | 11.45 | | 15.29 |
| | | 5/15/2017 | 6.39 | NM | | 15.05 |
| | | 8/1/2017 | 6.84 | NM | | 14.60 |
| | | 11/28/2017 | 6.32 | NM | | 15.12 |
| | | 2/27/2018 | 6.29 | NM | | 15.15 |
| | | 6/12/2018 | 6.60 | 11.45 | | 14.84 |
| | | 8/18/2018 | 6.89 | NM | | 14.55 |
| | | 11/19/2018 | 6.40 | NM | | 15.04 |
| | | 2/25/2019 | 6.18 | NM | | 15.26 |
| MW-17 | -- | **WELL INACCESSIBLE** | | | | |

**Table 1**
**Summary of Groundwater Elevation Data**
**Annual Groundwater Monitoring Report for 2018–2019**
**Washington Industries Environmental Remediation Trust**
**825 South Dakota Street and 812 and 820 South Adams Street, Seattle, Washington**

| Monitoring Well | Groundwater Zone | Date Measured | Depth to Groundwater[a] (feet) | Depth to Bottom of Well[a] (feet) | Top of Casing Elevation[b] (feet) | Groundwater Elevation[c] (feet) |
|---|---|---|---|---|---|---|
| MW-18 | Shallow | 10/28/2013 | **Not measured, well inaccessible** | | | |
| | | 8/26/2014 | 7.03 | NM | 21.67 | 14.64 |
| | | 9/22/2014 | 7.18 | NM | | 14.49 |
| | | 6/5/2015 | 6.91 | 10.96 | | 14.76 |
| | | 9/14/2015 | 7.1 | NM | | 14.57 |
| | | 11/30/2015 | 6.69 | NM | | 14.98 |
| | | 3/14/2016 | 6.22 | NM | | 15.45 |
| | | 8/1/2016 | 7.01 | NM | | 14.66 |
| | | 12/5/2016 | 6.37 | NM | | 15.30 |
| | | 2/27/2017 | 6.08 | NM | | 15.59 |
| | | 5/15/2017 | 6.48 | NM | | 15.19 |
| | | 8/1/2017 | 6.83 | NM | | 14.84 |
| | | 11/28/2017 | 6.45 | NM | | 15.22 |
| | | 2/27/2018 | 6.50 | NM | | 15.17 |
| | | 6/12/2018 | 6.73 | NM | | 14.94 |
| | | 8/18/2018 | 6.93 | NM | | 14.74 |
| | | 11/19/2018 | 6.18 | NM | | 15.49 |
| | | 2/25/2019 | 6.43 | NM | | 15.24 |
| MW-19 | Shallow | 10/28/2013 | **Not measured, well inaccessible** | | | |
| | | 8/26/2014 | 6.88 | NM | 21.57 | 14.69 |
| | | 9/22/2014 | 7.01 | NM | | 14.56 |
| | | 6/5/2015 | 6.77 | 10.68 | | 14.80 |
| | | 9/14/2015 | 6.95 | NM | | 14.62 |
| | | 11/30/2015 | 6.55 | NM | | 15.02 |
| | | 3/14/2016 | 6.06 | NM | | 15.51 |
| | | 8/1/2016 | 6.85 | NM | | 14.72 |
| | | 12/5/2016 | 6.23 | NM | | 15.34 |
| | | 2/27/2017 | 6.15 | NM | | 15.42 |
| | | 5/15/2017 | 6.31 | NM | | 15.26 |
| | | 8/1/2017 | 6.70 | NM | | 14.87 |
| | | 11/28/2017 | 6.24 | NM | | 15.33 |
| | | 2/27/2018 | 6.33 | NM | | 15.24 |
| | | 6/12/2018 | 6.59 | NM | | 14.98 |
| | | 8/18/2018 | 6.76 | NM | | 14.81 |
| | | 11/19/2018 | 6.16 | NM | | 15.41 |
| | | 2/25/2019 | 6.26 | NM | | 15.31 |
| MW-20s | Shallow | 10/28/2013 | **Not measured, well inaccessible** | | | |
| | | 8/26/2014 | 13.72 | NM | 27.59 | 13.87 |
| | | 9/22/2014 | 13.78 | NM | | 13.81 |
| | | 6/5/2015 | 14.53 | 18.78 | | 13.06 |
| | | 9/14/2015 | 13.75 | NM | | 13.84 |
| | | 11/30/2015 | 13.29 | NM | | 14.30 |
| | | 3/14/2016 | 9.88 | NM | | 17.71 |
| | | 8/1/2016 | 13.71 | NM | | 13.88 |
| | | 12/5/2016 | 10.63 | NM | | 16.96 |
| | | 2/27/2017 | 12.79 | NM | | 14.80 |
| | | 5/15/2017 | 13.00 | NM | | 14.59 |
| | | 8/1/2017 | 13.42 | NM | | 14.17 |
| | | 11/28/2017 | 13.00 | 18.75 | | 14.59 |
| | | 2/27/2018 | 12.96 | NM | | 14.63 |
| | | 6/12/2018 | **Not measured** | | | |
| | | 8/18/2018 | **Not measured** | | | |
| | | 11/19/2018 | **Not measured** | | | |
| | | 2/25/2019 | 12.84 | NM | 27.59 | 14.75 |
| MW-20i | Intermediate | 6/5/2015 | 10.80 | 29.62 | 27.52 | 16.72 |
| | | 9/14/2015 | 11.09 | NM | | 16.43 |
| | | 11/30/2015 | 10.79 | NM | | 16.73 |
| | | 3/14/2016 | 12.73 | NM | | 14.79 |
| | | 8/1/2016 | 11.19 | NM | | 16.33 |
| | | 12/5/2016 | 12.95 | NM | | 14.57 |
| | | 2/27/2017 | 10.29 | NM | | 17.23 |
| | | 5/15/2017 | 10.52 | NM | | 17.00 |
| | | 8/1/2017 | 11.17 | NM | | 16.35 |
| | | 11/28/2017 | 10.86 | 29.60 | | 16.66 |
| | | 2/27/2018 | 10.66 | NM | | 16.86 |
| | | 6/12/2018 | **Not measured** | | | |
| | | 8/18/2018 | **Not measured** | | | |
| | | 11/19/2018 | **Not measured** | | | |

**Table 1**
**Summary of Groundwater Elevation Data**
**Annual Groundwater Monitoring Report for 2018–2019**
**Washington Industries Environmental Remediation Trust**
**825 South Dakota Street and 812 and 820 South Adams Street, Seattle, Washington**

| Monitoring Well | Groundwater Zone | Date Measured | Depth to Groundwater[a] (feet) | Depth to Bottom of Well[a] (feet) | Top of Casing Elevation[b] (feet) | Groundwater Elevation[c] (feet) |
|---|---|---|---|---|---|---|
| MW-20i | Intermediate | 2/25/2019 | 10.52 | NM | 27.52 | 17.00 |
| MW-21s | Shallow | 10/28/2013 | **Not measured, well inaccessible** | | | |
| | | 8/26/2014 | 8.55 | NM | 21.05 | 12.50 |
| | | 9/22/2014 | 8.51 | NM | | 12.54 |
| | | 6/5/2015 | 8.54 | 15.15 | | 12.51 |
| | | 9/14/2015 | 8.53 | NM | | 12.52 |
| | | 11/30/2015 | 8.51 | NM | | 12.54 |
| | | 3/14/2016 | 7.92 | NM | | 13.13 |
| | | 8/1/2016 | 8.56 | NM | | 12.49 |
| | | 12/5/2016 | 8.32 | NM | | 12.73 |
| | | 2/27/2017 | 8.12 | NM | | 12.93 |
| | | 5/15/2017 | 8.49 | NM | | 12.56 |
| | | 8/1/2017 | 8.56 | NM | | 12.49 |
| | | 11/28/2017 | 5.35 | NM | | 15.70 |
| | | 2/27/2018 | 8.4 | NM | | 12.65 |
| | | 6/12/2018 | 8.56 | NM | | 12.49 |
| | | 8/18/2018 | 8.52 | NM | | 12.53 |
| | | 11/19/2018 | 8.44 | NM | | 12.61 |
| | | 2/25/2019 | 8.16 | NM | | 12.89 |
| MW-21i | Intermediate | 6/5/2015 | 6.01 | 24.68 | 21.30 | 15.29 |
| | | 9/14/2015 | 6.22 | NM | | 15.08 |
| | | 11/30/2015 | 5.86 | NM | | 15.44 |
| | | 3/14/2016 | 4.93 | NM | | 16.37 |
| | | 8/1/2016 | 6.35 | NM | | 14.95 |
| | | 12/5/2016 | 5.50 | NM | | 15.80 |
| | | 2/27/2017 | 5.11 | NM | | 16.19 |
| | | 5/15/2017 | 5.36 | NM | | 15.94 |
| | | 8/1/2017 | 6.02 | NM | | 15.28 |
| | | 11/28/2017 | 5.79 | 24.66 | | 15.51 |
| | | 2/27/2018 | 5.51 | NM | | 15.79 |
| | | 6/12/2018 | 5.82 | NM | | 15.48 |
| | | 8/18/2018 | 6.09 | NM | | 15.21 |
| | | 11/19/2018 | 5.89 | NM | | 15.41 |
| | | 2/25/2019 | 5.30 | NM | | 16.00 |
| MW-22s | Shallow | 6/5/2015 | 9.30 | 13.85 | 21.38 | 12.08 |
| | | 9/14/2015 | 9.40 | NM | | 11.98 |
| | | 11/30/2015 | 9.00 | NM | | 12.38 |
| | | 3/14/2016 | 8.19 | NM | | 13.19 |
| | | 8/1/2016 | 9.46 | NM | | 11.92 |
| | | 12/5/2016 | 8.56 | NM | | 12.82 |
| | | 2/27/2017 | 8.30 | NM | | 13.08 |
| | | 5/15/2017 | 8.82 | NM | | 12.56 |
| | | 8/1/2017 | 9.40 | NM | | 11.98 |
| | | 11/28/2017 | 8.91 | 13.78 | | 12.47 |
| | | 2/27/2018 | 8.82 | NM | | 12.56 |
| | | 6/12/2018 | 9.26 | NM | | 12.12 |
| | | 8/18/2018 | 9.45 | NM | | 11.93 |
| | | 11/19/2018 | 8.92 | NM | | 12.46 |
| | | 2/25/2019 | 8.55 | NM | | 12.83 |
| MW-22i | Intermediate | 6/5/2015 | 7.53 | 24.82 | 21.67 | 14.14 |
| | | 9/14/2015 | 7.81 | NM | | 13.86 |
| | | 11/30/2015 | 7.42 | NM | | 14.25 |
| | | 3/14/2016 | 3.52 | NM | | 18.15 |
| | | 8/1/2016 | 7.79 | NM | | 13.88 |
| | | 12/5/2016 | 7.02 | NM | | 14.65 |
| | | 2/27/2017 | 6.61 | NM | | 15.06 |
| | | 5/15/2017 | 6.95 | NM | | 14.72 |
| | | 8/1/2017 | 7.66 | NM | | 14.01 |
| | | 11/28/2017 | 7.34 | 24.80 | | 14.33 |
| | | 2/27/2018 | 7.05 | NM | | 14.62 |
| | | 6/12/2018 | 7.46 | NM | | 14.21 |
| | | 8/18/2018 | 7.74 | NM | | 13.93 |
| | | 11/19/2018 | 7.57 | NM | | 14.10 |
| | | 2/25/2019 | 6.81 | NM | | 14.86 |
| MW-23s | Shallow | 6/5/2015 | 13.19 | 13.79 | 27.52 | 14.33 |
| | | 9/14/2015 | 13.38 | NM | | 14.14 |
| | | 11/30/2015 | 12.85 | NM | | 14.67 |
| | | 3/14/2016 | 12.19 | NM | | 15.33 |

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**Annual Groundwater Monitoring Report for 2018–2019**
**Washington Industries Environmental Remediation Trust**
**825 South Dakota Street and 812 and 820 South Adams Street, Seattle, Washington**

| Monitoring Well | Groundwater Zone | Date Measured | Depth to Groundwater[a] (feet) | Depth to Bottom of Well[a] (feet) | Top of Casing Elevation[b] (feet) | Groundwater Elevation[c] (feet) |
|---|---|---|---|---|---|---|
| MW-23s | Shallow | 8/1/2016 | 13.37 | NM | 27.52 | 14.15 |
| | | 12/5/2016 | 12.47 | NM | | 15.05 |
| | | 2/27/2017 | 12.31 | NM | | 15.21 |
| | | 5/15/2017 | 12.67 | NM | | 14.85 |
| | | 8/1/2017 | 13.29 | NM | | 14.23 |
| | | 11/28/2017 | 12.79 | 13.75 | | 14.73 |
| | | 2/27/2018 | 12.93 | NM | | 14.59 |
| | | 6/12/2018 | **Not measured** | | | |
| | | 8/18/2018 | **Not measured** | | | |
| | | 11/19/2018 | **Not measured** | | | |
| | | 2/25/2019 | 12.46 | NM | 27.52 | 15.06 |
| MW-23i | Intermediate | 6/5/2015 | 11.46 | 29.08 | 27.49 | 16.03 |
| | | 9/14/2015 | 11.69 | NM | | 15.80 |
| | | 11/30/2015 | 11.29 | NM | | 16.20 |
| | | 3/14/2016 | 10.42 | NM | | 17.07 |
| | | 8/1/2016 | 11.61 | NM | | 15.88 |
| | | 12/5/2016 | 10.96 | NM | | 16.53 |
| | | 2/27/2017 | 10.62 | NM | | 16.87 |
| | | 5/15/2017 | 10.89 | NM | | 16.60 |
| | | 8/1/2017 | 11.53 | NM | | 15.96 |
| | | 11/28/2017 | 11.21 | 29.06 | | 16.28 |
| | | 2/27/2018 | 10.97 | NM | | 16.52 |
| | | 6/12/2018 | **Not measured** | | | |
| | | 8/18/2018 | **Not measured** | | | |
| | | 11/19/2018 | **Not measured** | | | |
| | | 2/25/2019 | 11.21 | NM | 27.49 | 16.28 |
| MW-24s | Shallow | 6/5/2015 | 8.89 | 13.19 | 21.43 | 12.54 |
| | | 9/14/2015 | 8.88 | NM | | 12.55 |
| | | 11/30/2015 | 8.56 | NM | | 12.87 |
| | | 3/14/2016 | 7.94 | NM | | 13.49 |
| | | 8/1/2016 | 8.98 | NM | | 12.45 |
| | | 12/5/2016 | 8.29 | NM | | 13.14 |
| | | 2/27/2017 | 8.13 | NM | | 13.30 |
| | | 5/15/2017 | 8.46 | NM | | 12.97 |
| | | 8/1/2017 | 8.82 | NM | | 12.61 |
| | | 11/28/2017 | 7.88 | NM | | 13.55 |
| | | 2/27/2018 | 8.16 | NM | | 13.27 |
| | | 6/12/2018 | 8.48 | NM | | 12.95 |
| | | 8/18/2018 | 8.73 | NM | | 12.70 |
| | | 11/19/2018 | 8.34 | NM | | 13.09 |
| | | 2/25/2019 | 8.10 | NM | | 13.33 |
| MW-24i | Intermediate | 6/5/2015 | 5.58 | 24.80 | 21.38 | 15.80 |
| | | 9/14/2015 | 6.83 | NM | | 14.55 |
| | | 11/30/2015 | 5.49 | NM | | 15.89 |
| | | 3/14/2016 | 4.48 | NM | | 16.90 |
| | | 8/1/2016 | 5.40 | NM | | 15.98 |
| MW-24ir | Intermediate | 11/30/2015 | 5.13 | NM | 21.06 | 15.93 |
| | | 3/14/2016 | 3.37 | NM | | 17.69 |
| | | 8/1/2016 | 4.50 | NM | | 16.56 |
| | | 12/5/2016 | 3.95 | NM | | 17.11 |
| | | 2/27/2017 | 3.57 | NM | | 17.49 |
| | | 5/15/2017 | 3.79 | NM | | 17.27 |
| | | 8/1/2017 | 4.41 | NM | | 16.65 |
| | | 11/28/2017 | 4.17 | 35.75 | | 16.89 |
| | | 2/27/2018 | 3.93 | NM | | 17.13 |
| | | 6/12/2018 | 4.21 | NM | | 16.85 |
| | | 8/18/2018 | 4.41 | NM | | 16.65 |
| | | 11/19/2018 | 4.29 | NM | | 16.77 |
| | | 2/25/2019 | 3.75 | NM | | 17.31 |
| MW-25s | Shallow | 6/5/2015 | 12.71 | 19.82 | 20.02 | 7.31 |
| | | 9/14/2015 | 13.24 | NM | | 6.78 |
| | | 11/30/2015 | 12.53 | NM | | 7.49 |
| | | 3/14/2016 | 11.52 | NM | | 8.50 |
| | | 8/1/2016 | 13.05 | NM | | 6.97 |
| | | 12/5/2016 | 12.02 | NM | | 8.00 |
| | | 2/27/2017 | 11.47 | NM | | 8.55 |
| | | 5/15/2017 | 11.94 | NM | | 8.08 |
| | | 8/1/2017 | 12.82 | NM | | 7.20 |

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**Washington Industries Environmental Remediation Trust**
**825 South Dakota Street and 812 and 820 South Adams Street, Seattle, Washington**

| Monitoring Well | Groundwater Zone | Date Measured | Depth to Groundwater[a] (feet) | Depth to Bottom of Well[a] (feet) | Top of Casing Elevation[b] (feet) | Groundwater Elevation[c] (feet) |
|---|---|---|---|---|---|---|
| MW-25s | Shallow | 11/28/2017 | 12.70 | 19.83 | 20.02 | 7.32 |
| | | 2/27/2018 | 12.13 | NM | | 7.89 |
| | | 6/12/2018 | 12.68 | NM | | 7.34 |
| | | 8/18/2018 | 12.14 | NM | | 7.88 |
| | | 11/19/2018 | 13.07 | NM | | 6.95 |
| | | 2/25/2019 | 11.79 | NM | | 8.23 |
| MW-25i | Intermediate | 6/5/2015 | 8.84 | 33.98 | 20.00 | 11.16 |
| | | 9/14/2015 | 10.49 | NM | | 9.51 |
| | | 11/30/2015 | 10.05 | NM | | 9.95 |
| | | 3/14/2016 | 9.14 | NM | | 10.86 |
| | | 8/1/2016 | 10.65 | NM | | 9.35 |
| | | 12/5/2016 | 9.73 | NM | | 10.27 |
| | | 2/27/2017 | 9.10 | NM | | 10.90 |
| | | 5/15/2017 | 9.53 | NM | | 10.47 |
| | | 8/1/2017 | 10.33 | NM | | 9.67 |
| | | 11/28/2017 | 10.05 | 34.02 | | 9.95 |
| | | 2/27/2018 | 8.98 | NM | | 11.02 |
| | | 6/12/2018 | 9.75 | NM | | 10.25 |
| | | 8/18/2018 | 9.91 | NM | | 10.09 |
| | | 11/19/2018 | 9.73 | NM | | 10.27 |
| | | 2/25/2019 | 8.43 | NM | | 11.57 |
| MW-26s | Shallow | 6/5/2015 | 12.37 | 19.49 | 19.10 | 6.73 |
| | | 9/14/2015 | 12.62 | NM | | 6.48 |
| | | 11/30/2015 | 11.55 | NM | | 7.55 |
| | | 3/14/2016 | 11.70 | NM | | 7.40 |
| | | 8/1/2016 | 12.56 | NM | | 6.54 |
| | | 12/5/2016 | 11.92 | NM | | 7.18 |
| | | 2/27/2017 | 11.74 | NM | | 7.36 |
| | | 5/15/2017 | 12.01 | NM | | 7.09 |
| | | 8/1/2017 | 12.44 | NM | | 6.66 |
| | | 11/28/2017 | 12.18 | 16.74 | | 6.92 |
| | | 2/27/2018 | 12.15 | NM | | 6.95 |
| | | 6/12/2018 | 12.42 | NM | | 6.68 |
| | | 8/18/2018 | 12.60 | NM | | 6.50 |
| | | 11/19/2018 | 12.69 | NM | | 6.41 |
| | | 2/25/2019 | 11.83 | NM | | 7.27 |
| MW-26i | Intermediate | 6/5/2015 | 14.12 | 33.73 | 19.05 | 4.93 |
| | | 9/14/2015 | 11.25 | NM | | 7.80 |
| | | 11/30/2015 | 10.62 | NM | | 8.43 |
| | | 3/14/2016 | 10.83 | NM | | 8.22 |
| | | 8/1/2016 | 12.06 | NM | | 6.99 |
| | | 12/5/2016 | 12.19 | NM | | 6.86 |
| | | 2/27/2017 | 9.92 | NM | | 9.13 |
| | | 5/15/2017 | 10.12 | NM | | 8.93 |
| | | 8/1/2017 | 10.46 | NM | | 8.59 |
| | | 11/28/2017 | 11.77 | 33.73 | | 7.28 |
| | | 2/27/2018 | 11.04 | NM | | 8.01 |
| | | 6/12/2018 | 11.82 | NM | | 7.23 |
| | | 8/18/2018 | 11.45 | NM | | 7.60 |
| | | 11/19/2018 | 11.39 | NM | | 7.66 |
| | | 2/25/2019 | 10.41 | NM | | 8.64 |
| MW-27s | Shallow | 6/5/2015 | 11.38 | 19.64 | 18.43 | 7.05 |
| | | 9/14/2015 | 11.62 | NM | | 6.81 |
| | | 11/30/2015 | 10.95 | NM | | 7.48 |
| | | 3/14/2016 | 10.58 | NM | | 7.85 |
| | | 8/1/2016 | 11.52 | NM | | 6.91 |
| | | 12/5/2016 | 10.73 | NM | | 7.70 |
| | | 2/27/2017 | 10.65 | NM | | 7.78 |
| | | 5/15/2017 | 10.88 | NM | | 7.55 |
| | | 8/1/2017 | 11.42 | NM | | 7.01 |
| | | 11/28/2017 | 11.02 | 19.61 | | 7.41 |
| | | 2/27/2018 | 11.01 | NM | | 7.42 |
| | | 6/12/2018 | 11.37 | NM | | 7.06 |
| | | 8/18/2018 | 11.63 | NM | | 6.80 |
| | | 11/19/2018 | 11.66 | NM | | 6.77 |
| | | 2/25/2019 | 10.79 | NM | | 7.64 |
| MW-28s | Shallow | 6/5/2015 | 6.19 | 15.10 | 12.04 | 5.85 |
| | | 9/14/2015 | 6.20 | NM | | 5.84 |

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**825 South Dakota Street and 812 and 820 South Adams Street, Seattle, Washington**

| Monitoring Well | Groundwater Zone | Date Measured | Depth to Groundwater[a] (feet) | Depth to Bottom of Well[a] (feet) | Top of Casing Elevation[b] (feet) | Groundwater Elevation[c] (feet) |
|---|---|---|---|---|---|---|
| MW-28s | Shallow | 11/30/2015 | 5.49 | NM | 12.04 | 6.55 |
| | | 3/14/2016 | 5.72 | NM | | 6.32 |
| | | 8/1/2016 | 6.21 | NM | | 5.83 |
| | | 12/5/2016 | 6.79 | NM | | 5.25 |
| | | 2/27/2017 | 5.65 | NM | | 6.39 |
| | | 5/15/2017 | 5.86 | NM | | 6.18 |
| | | 8/1/2017 | 6.14 | NM | | 5.90 |
| | | 11/28/2017 | 5.94 | 15.05 | | 6.10 |
| | | 2/27/2018 | 5.93 | NM | | 6.11 |
| | | 6/12/2018 | 9.10 | NM | | 2.94 |
| | | 8/18/2018 | 6.17 | NM | | 5.87 |
| | | 11/19/2018 | 6.21 | NM | | 5.83 |
| | | 2/25/2019 | 6.72 | NM | | 5.32 |
| MW-29s | Shallow | 6/11/2015 | 7.02 | 15.19 | 21.90 | 14.88 |
| | | 9/14/2015 | 7.23 | NM | | 14.67 |
| | | 11/30/2015 | 6.70 | NM | | 15.20 |
| | | 3/14/2016 | 6.19 | NM | | 15.71 |
| | | 8/1/2016 | 7.16 | NM | | 14.74 |
| | | 12/5/2016 | 6.34 | NM | | 15.56 |
| | | 2/27/2017 | 6.29 | NM | | 15.61 |
| | | 5/15/2017 | 6.49 | NM | | 15.41 |
| | | 8/1/2017 | 7.05 | NM | | 14.85 |
| | | 11/28/2017 | 6.52 | 15.22 | | 15.38 |
| | | 2/27/2018 | 6.52 | NM | | 15.38 |
| | | 6/12/2018 | 6.90 | NM | | 15.00 |
| | | 8/18/2018 | 7.16 | NM | | 14.74 |
| | | 11/19/2018 | 6.51 | NM | | 15.39 |
| | | 2/25/2019 | 6.41 | NM | | 15.49 |
| SBW-1 | Shallow | 6/5/2015 | 8.81 | 11.66 | 21.29 | 12.48 |
| | | 9/14/2015 | 8.92 | NM | | 12.37 |
| | | 11/30/2015 | 8.64 | NM | | 12.65 |
| | | 3/14/2016 | 8.34 | NM | | 12.95 |
| | | 8/1/2016 | 8.83 | NM | | 12.46 |
| | | 12/5/2016 | 8.60 | NM | | 12.69 |
| | | 2/27/2017 | 8.27 | NM | | 13.02 |
| | | 5/15/2017 | 8.69 | NM | | 12.60 |
| | | 8/1/2017 | 8.80 | NM | | 12.49 |
| | | 11/28/2017 | 8.26 | 11.65 | | 13.03 |
| | | 2/27/2018 | 8.47 | NM | | 12.82 |
| | | 6/12/2018 | 8.85 | NM | | 12.44 |
| | | 8/18/2018 | 8.67 | NM | | 12.62 |
| | | 11/19/2018 | 8.65 | NM | | 12.64 |
| | | 2/25/2019 | 8.26 | NM | | 13.03 |
| SBW-2 | Shallow | 6/5/2015 | 8.55 | 10.65 | 19.77 | 11.22 |
| | | 9/14/2015 | 8.63 | NM | | 11.14 |
| | | 11/30/2015 | 8.05 | NM | | 11.72 |
| | | 3/14/2016 | 7.66 | NM | | 12.11 |
| | | 8/1/2016 | 8.66 | NM | | 11.11 |
| | | 12/5/2016 | 7.89 | NM | | 11.88 |
| | | 2/27/2017 | 7.76 | NM | | 12.01 |
| | | 5/15/2017 | 8.18 | NM | | 11.59 |
| | | 8/1/2017 | 8.62 | NM | | 11.15 |
| | | 11/28/2017 | 7.65 | NM | | 12.12 |
| | | 2/27/2018 | 7.98 | NM | | 11.79 |
| | | 6/12/2018 | 8.26 | NM | | 11.51 |
| | | 8/18/2018 | 8.39 | NM | | 11.38 |
| | | 11/19/2018 | 8.15 | NM | | 11.62 |
| | | 2/25/2019 | 7.62 | NM | | 12.15 |
| SBW-3 | Shallow | 6/5/2015 | 11.06 | 12.10 | 17.68 | 6.62 |
| | | 9/14/2015 | 11.30 | NM | | 6.38 |
| | | 11/30/2015 | 10.88 | NM | | 6.80 |
| | | 3/14/2016 | 10.46 | NM | | 7.22 |
| | | 8/1/2016 | 11.24 | NM | | 6.44 |
| | | 12/5/2016 | 10.66 | NM | | 7.02 |
| | | 2/27/2017 | 10.47 | NM | | 7.21 |
| | | 5/15/2017 | 10.71 | NM | | 6.97 |
| | | 8/1/2017 | 11.08 | NM | | 6.60 |
| | | 11/28/2017 | 10.54 | NM | | 7.14 |

**Table 1**
**Summary of Groundwater Elevation Data**
**Annual Groundwater Monitoring Report for 2018–2019**
**Washington Industries Environmental Remediation Trust**
**825 South Dakota Street and 812 and 820 South Adams Street, Seattle, Washington**

| Monitoring Well | Groundwater Zone | Date Measured | Depth to Groundwater[a] (feet) | Depth to Bottom of Well[a] (feet) | Top of Casing Elevation[b] (feet) | Groundwater Elevation[c] (feet) |
|---|---|---|---|---|---|---|
| SBW-3 | Shallow | 2/27/2018 | 10.86 | NM | 17.68 | 6.82 |
| | | 6/12/2018 | 11.14 | NM | | 6.54 |
| | | 8/18/2018 | 11.23 | NM | | 6.45 |
| | | 11/19/2018 | 11.36 | NM | | 6.32 |
| | | 2/25/2019 | 10.55 | NM | | 7.13 |
| SBW-4 | Shallow | 6/5/2015 | 6.00 | 9.13 | 12.35 | 6.35 |
| | | 9/14/2015 | 6.16 | NM | | 6.19 |
| | | 11/30/2015 | 5.90 | NM | | 6.45 |
| | | 3/14/2016 | 5.63 | NM | | 6.72 |
| | | 8/1/2016 | 6.16 | NM | | 6.19 |
| | | 12/5/2016 | 5.73 | NM | | 6.62 |
| | | 2/27/2017 | 5.60 | NM | | 6.75 |
| | | 5/15/2017 | 5.76 | NM | | 6.59 |
| | | 8/1/2017 | 6.03 | NM | | 6.32 |
| | | 11/28/2017 | 5.91 | 9.10 | | 6.44 |
| | | 2/27/2018 | 5.92 | NM | | 6.43 |
| | | 6/12/2018 | 9.06 | NM | | 3.29 |
| | | 8/18/2018 | 6.16 | NM | | 6.19 |
| | | 11/19/2018 | 6.24 | NM | | 6.11 |
| | | 2/25/2019 | 5.71 | NM | | 6.64 |

Notes:

All site monitoring wells resurveyed on August 7 and 20, 2014.

More recently installed monitoring wells surveyed on June 11, 2015 and February 2, 2016.

NM Not measured.

a Depths in feet below top of well casing.

b Depths measured from north side of top edge of well casing.

c Elevations reported in feet above NAVD 88 datum.

**Table 2**
**Summary of Groundwater Analytical Results for Volatile Organic Compounds (in µg/L)**
**Annual Groundwater Monitoring Report for 2018–2019**
**Washington Industries Environmental Remediation Trust**
**825 South Dakota Street and 812 and 820 South Adams Street, Seattle, Washington**

| Monitoring Well | Date Collected | Tetrachloro-ethene (PCE)[a] | Trichloro-ethene (TCE)[a] | trans-1,2-Dichloro-ethene[a] | cis-1,2-Dichloro-ethene[a] | 1,1-Dichloro-ethene[b] | Vinyl Chloride[a] | 1,1,1-Trichloro-ethane[a] | 1,1,2-Trichloro-ethane[b] | Chloroform[a] |
|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 (MW-1s) | 3/23/1989 | **86** | **9,500** | **4.1** | **390** | <2.0 | <5.0 | **12** | <2.0 | **3.5** |
| | 9/21/1989 | <100 | **6,900** | <100 | **210** | <100 | <250 | <100 | <100 | <100 |
| | 4/27/1999 | **36** | **4,100** | **5.0** | **140** | -- | **2** | **4.3** | -- | **1.6** |
| | 9/22/2014 | **4** | **230** | **5.4** | <100 | <2.0 | **8.5** | <2.0 | <2.0 | <2.0 |
| | 6/9/2015 | **5.2** | **420** | **5.9** | **110** | <2.0 | **12** | <2.0 | <2.0 | <2.0 |
| | 9/16/2015 | **4.7** | **240** | **3.9** | **57** | <2.0 | **25** | <2.0 | <2.0 | <2.0 |
| | 12/4/2015 | **22** | **890** | **3.6** | **200** | <2.0 | **4** | <2.0 | <2.0 | <2.0 |
| | 3/16/2016 | **22** | **910** | **2.8** | **190** | <2.0 | **0.77** | <2.0 | <2.0 | <2.0 |
| | 8/2/2016 | **7.1** | **390** | **6.0** | **100** | <2.0 | **28** | <2.0 | <2.0 | <2.0 |
| | 3/2/2017 | **17** | **470** | **2.0** | **160** | <2.0 | **21** | <2.0 | <2.0 | **2.6** |
| | 8/2/2017 | <2.0 | **22** | <2.0 | **50** | <2.0 | **45** | <2.0 | <2.0 | <2.0 |
| | 3/1/2018 | <2.0 | **26** | <2.0 | **67** | <2.0 | **5.3** | <2.0 | <2.0 | <2.0 |
| | 8/10/2018 | **4.4** | **120** | <2.0 | **150** | <2.0 | **12** | <2.0 | <2.0 | <2.0 |
| | 2/26/2019 | <2.0 | **4.8** | <2.0 | **16** | <2.0 | **7** | <2.0 | <2.0 | <2.0 |
| MW-1i | 11/5/2013 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 11/5/13 Dup-1 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/26/2014 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 6/9/2015 | <2.0 | <0.40 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 6/9/15 Dup-3 | <2.0 | <0.40 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/15/2015 | <2.0 | **2.9** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/15/15 Dup-1 | <2.0 | **2.6** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/3/2015 | <2.0 | **2.2** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/15/2016 | <2.0 | **2.9** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/2/2017 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/1/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/26/2019 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| MW-2 | 3/23/1989 | **0.5** | **170** | **0.5** | **7.6** | <0.2 | <0.5 | **0.5** | <0.2 | **0.4** |
| | 9/21/1989 | <0.2 | **50** | <0.2 | **6.4** | <0.2 | <0.5 | <0.2 | <0.2 | **3.4** |
| | 4/27/1999 | <1.0 | **19** | <1.0 | **4** | -- | <1.0 | <1.0 | -- | <1.0 |
| | 11/5/2013 | <2.0 | **7.0** | <2.0 | **4.6** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/27/2014 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 6/9/2015 | <2.0 | **0.62** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/16/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/2/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/16/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/16/16 DUP-2 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/1/2017 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/1/17 DUP-2 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/28/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/27/2019 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| MW-3 | 3/23/1989 | **130** | **8,300** | **11** | **2,700** | **3.0** | **7.5** | **8.2** | **2.8** | **2.0** |
| | 9/22/1989 | <100 | **5,400** | <100 | **1,600** | <100 | <250 | <100 | <100 | <100 |
| | 4/28/1999 | **15.0** | **1,000** | <10 | **780** | -- | <10 | <10 | -- | <10 |
| | 11/5/2013 | **6.6** | **200** | <2.0 | **170** | **2.4** | **15** | <2.0 | <2.0 | <2.0 |
| | 11/6/2013 | -- | -- | <2.0 | -- | -- | -- | -- | -- | -- |
| | 8/26/2014 | **3.3** | **130** | <2.0 | **150** | <2.0 | **7.4** | <2.0 | <2.0 | <2.0 |
| | 6/8/2015 | <2.0 | **81** | <2.0 | **93** | <2.0 | **2.7** | <2.0 | <2.0 | <2.0 |
| | 9/15/2015 | **5.4** | **280** | **3.8** | **420** | **9.2** | **44** | <2.0 | <2.0 | <2.0 |
| | 12/3/2015 | **8.8** | **290** | **2** | **160** | <2.0 | **5.7** | <2.0 | <2.0 | <2.0 |
| | 3/15/2016 | **23** | **440** | **2.7** | **150** | <2.0 | **0.41** | <2.0 | <2.0 | <2.0 |
| | 8/2/2016 | **3.2** | **140** | <2.0 | **140** | **2.6** | **30** | <2.0 | <2.0 | <2.0 |
| | 3/1/2017 | **19** | **250** | **2.2** | **100** | <2.0 | **0.20** | <2.0 | <2.0 | <2.0 |
| | 8/2/2017 | <2.0 | **110** | <2.0 | **110** | **6.5** | **10** | <2.0 | <2.0 | <2.0 |
| | 2/28/2018 | **7.5** | **180** | <2.0 | **220** | <2.0 | **8.6** | <2.0 | <2.0 | <2.0 |
| | 2/28/18 DUP-4 | **7.1** | **150** | <2.0 | **220** | <2.0 | **7.6** | <2.0 | <2.0 | <2.0 |
| | 8/9/2018 | <2.0 | **57** | <2.0 | **9.8** | <2.0 | **0.98** | <2.0 | <2.0 | <2.0 |
| | 2/27/2019 | <2.0 | **70** | <2.0 | **29** | <2.0 | **1.4** | <2.0 | <2.0 | <2.0 |
| MW-4 | 3/23/1989 | 0.3 | **94** | <0.2 | <0.2 | <0.2 | <0.5 | **1.0** | <0.2 | <0.2 |
| | 9/21/1989 | <0.2 | **72** | <0.2 | <0.2 | <0.2 | <0.5 | **1.1** | <0.2 | <0.2 |
| | 4/27/1999 | <1.0 | **8.5** | <1.0 | <1.0 | -- | <1.0 | <1.0 | -- | <1.0 |
| | 11/4/2013 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/27/2014 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 6/9/2015 | <2.0 | **1.9** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/16/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/2/2015 | <2.0 | **4.9** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/17/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/17/16 DUP-3 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/27/2017 | <2.0 | **3.2** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/27/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/26/2019 | <2.0 | **2.1** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| MW-4i | 12/4/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/4/15 DUP-4 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/17/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/27/2017 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/27/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/26/2019 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| MW-5 | 9/21/1989 | <0.2 | <0.2 | -- | <0.2 | -- | -- | -- | -- | -- |
| | 4/27/1999 | <1.0 | <1.0 | <1.0 | <1.0 | -- | <1.0 | <1.0 | -- | <1.0 |
| | 11/4/2013 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/27/2014 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 6/9/2015 | <2.0 | <0.40 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/16/2015 | **Not Sampled** | | | | | | | | |
| | 12/2/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/2/15 DUP-2 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/16/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 5/15/2017 | **WELL DECOMMISSIONED** | | | | | | | | |
| MW-5B | 8/27/2014 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 6/10/2015 | <2.0 | <0.40 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |

**Table 2**
**Summary of Groundwater Analytical Results for Volatile Organic Compounds (in µg/L)**
**Annual Groundwater Monitoring Report for 2018–2019**
**Washington Industries Environmental Remediation Trust**
**825 South Dakota Street and 812 and 820 South Adams Street, Seattle, Washington**

| Monitoring Well | Date Collected | Tetrachloro-ethene (PCE)[a] | Trichloro-ethene (TCE)[a] | trans-1,2-Dichloro-ethene[a] | cis-1,2-Dichloro-ethene[a] | 1,1-Dichloro-ethene[b] | Vinyl Chloride[a] | 1,1,1-Trichloro-ethane[a] | 1,1,2-Trichloro-ethane[b] | Chloroform[a] |
|---|---|---|---|---|---|---|---|---|---|---|
| MW-5B | 9/16/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/2/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/16/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/1/2017 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/28/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/26/2019 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| MW-05 (MW-05s) | 3/17/2011 | **1.1** | **81** | <1 | **1.2** | -- | <0.2 | -- | -- | -- |
| | 8/27/2014 | <2.0 | **110** | <2.0 | **2.5** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 6/9/2015 | <2.0 | **61** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 6/9/15 Dup-2 | <2.0 | **66** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 6/17/2015 | <2.0 | **100** | <2.0 | 3.2 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/2/2015 | **4.2** | **240** | <2.0 | **3.6** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/17/2016 | **3.1** | **210** | <2.0 | **3** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/28/2017 | **2.1** | **120** | <2.0 | **13** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/28/2018 | <2.0 | <2.0 | <2.0 | **7.2** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/26/2019 | <2.0 | **9.5** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| MW-05i | 6/9/2015 | <2.0 | **3.6** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/17/2015 | <2.0 | **4.0** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/2/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/17/2016 | <2.0 | **67** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/28/2017 | <2.0 | **2.3** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/27/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/26/2019 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| MW-7s | 6/9/2015 | **13** | **810** | **7.9** | **380** | <2.0 | **1.1** | <2.0 | <2.0 | <2.0 |
| | 9/15/2015 | **Not Sampled – Dry** | | | | | | | | |
| | 12/3/2015 | <50 | **1,200** | **5.5** | **340** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/16/2016 | **32** | **880** | **4.5** | **290** | <2.0 | **0.74** | <2.0 | <2.0 | <2.0 |
| | 8/2/2016 | **31** | **1,200** | **8.5** | **350** | <2.0 | **0.5** | <2.0 | <2.0 | <2.0 |
| | 12/5/2016 | **32** | **910** | **5.1** | **220** | <2.0 | **0.21** | <2.0 | <2.0 | <2.0 |
| | 3/1/2017 | **17** | **390** | **4.0** | **270** | <2.0 | **17** | <2.0 | <2.0 | <2.0 |
| | 5/16/2017 | **5.4** | **240** | **4.8** | **440** | <2.0 | **4.9** | <2.0 | <2.0 | **3.2** |
| | 8/2/2017 | **6.4** | **150** | **8.6** | **580** | <2.0 | **170** | <2.0 | <2.0 | <2.0 |
| | 11/28/2017 | <2.0 | <2.0 | **3.5** | **720** | <2.0 | **150** | <2.0 | <2.0 | <2.0 |
| | 3/1/2018 | <2.0 | <2.0 | <2.0 | **2.9** | <2.0 | **3.9** | <2.0 | <2.0 | <2.0 |
| | 6/12/2018 | <2.0 | <2.0 | <2.0 | **14** | <2.0 | **4.7** | <2.0 | <2.0 | <2.0 |
| | 8/9/2018 | <2.0 | <2.0 | **18** | **1,800** | <2.0 | **140** | <2.0 | <2.0 | <2.0 |
| | 8/9/18 Dup-2 | <2.0 | <2.0 | **37** | **1,700** | <2.0 | **150** | <2.0 | <2.0 | <2.0 |
| | 11/20/2018 | <2.0 | **7.3** | **2.4** | **100** | <2.0 | **35** | <2.0 | <2.0 | <2.0 |
| | 2/26/2019 | <2.0 | <2.0 | <2.0 | **13** | <2.0 | **4.5** | <2.0 | <2.0 | <2.0 |
| MW-7i | 11/4/2013 | <2.0 | <2.0 | <2.0 | **5.3** | <2.0 | **0.72** | <2.0 | <2.0 | <2.0 |
| | 8/26/2014 | <2.0 | <2.0 | <2.0 | **3.6** | <2.0 | **0.38** | <2.0 | <2.0 | <2.0 |
| | 6/10/15 | <2.0 | <0.40 | <2.0 | **3.4** | <2.0 | **0.32** | <2.0 | <2.0 | <2.0 |
| | 9/16/2015 | <2.0 | <2.0 | <2.0 | **3.0** | <2.0 | **0.28** | <2.0 | <2.0 | <2.0 |
| | | **WELL DECOMMISSIONED** | | | | | | | | |
| MW-7IR | 12/3/2015 | **3.4** | **72** | <2.0 | **27** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/16/2016 | <2.0 | **5.5** | <2.0 | **84** | <2.0 | **28** | <2.0 | <2.0 | <2.0 |
| | 8/2/2016 | <2.0 | **3.4** | <2.0 | **3.4** | <2.0 | **9.2** | <2.0 | <2.0 | <2.0 |
| | 12/5/2016 | <2.0 | **2.7** | <2.0 | <2.0 | <2.0 | **2.9** | <2.0 | <2.0 | <2.0 |
| | 3/1/2017 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **2.5** | <2.0 | <2.0 | <2.0 |
| | 5/16/2017 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **1.4** | <2.0 | <2.0 | <2.0 |
| | 8/2/2017 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **1.2** | <2.0 | <2.0 | <2.0 |
| | 11/28/2017 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **1.5** | <2.0 | <2.0 | <2.0 |
| | 3/1/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **1.2** | <2.0 | <2.0 | <2.0 |
| | 6/12/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **0.83** | <2.0 | <2.0 | <2.0 |
| | 8/9/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **0.7** | <2.0 | <2.0 | <2.0 |
| | 11/20/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **0.68** | <2.0 | <2.0 | <2.0 |
| | 2/26/2019 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **0.58** | <2.0 | <2.0 | <2.0 |
| MW-7 (MW-7d) | 9/21/1989 | <0.2 | **6.6** | -- | <0.2 | -- | -- | -- | -- | -- |
| | 4/27/1999 | <1.0 | <1.0 | <1.0 | <1.0 | -- | <1.0 | <1.0 | -- | <1.0 |
| | 9/22/2014 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 6/10/2015 | <2.0 | **0.50** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/16/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/4/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/18/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | | **WELL DECOMMISSIONED** | | | | | | | | |
| MW-07 | 3/17/2011 | <1 | <1 | <1 | <1 | -- | <0.2 | -- | -- | -- |
| | 8/27/2014 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 6/9/2015 | <2.0 | <0.40 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/17/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/2/2015 | <2.0 | **2.5** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/17/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/28/2017 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/28/17 Dup-1 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/27/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/26/2019 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| MW-8s | 6/8/2015 | **2.5** | **390** | **4.1** | **240** | <2.0 | **4.5** | <2.0 | <2.0 | <2.0 |
| | 9/16/2015 | **2.5** | **250** | **3.6** | **240** | <2.0 | **6.8** | <2.0 | <2.0 | <2.0 |
| | 12/2/2015 | **6.8** | **490** | **2.9** | **130** | <2.0 | **5.6** | <2.0 | <2.0 | <2.0 |
| | 3/16/2016 | **10** | **870** | **2.9** | **190** | <2.0 | **2.2** | <2.0 | <2.0 | <2.0 |
| | 8/2/2016 | <2.0 | **200** | **3.6** | **200** | <2.0 | **8.7** | <2.0 | <2.0 | <2.0 |
| | 12/5/2016 | **4.2** | **520** | **2.9** | **190** | <2.0 | **17** | <2.0 | <2.0 | <2.0 |
| | 2/28/2017 | **3.3** | **630** | **2.7** | **190** | <2.0 | **22** | <2.0 | <2.0 | <2.0 |
| | 5/16/2017 | **3.8** | **390** | **5** | **230** | <2.0 | **33** | <2.0 | <2.0 | <2.0 |
| | 8/3/2017 | <2.0 | **54** | **6.4** | **130** | <2.0 | **60** | <2.0 | <2.0 | <2.0 |
| | 11/29/2017 | <2.0 | **16** | **6** | **220** | <2.0 | **86** | <2.0 | <2.0 | <2.0 |
| | 2/28/2018 | <2.0 | <2.0 | **3.5** | **3.4** | <2.0 | **7.1** | <2.0 | <2.0 | <2.0 |
| | 6/13/2018 | <2.0 | <2.0 | **3.4** | **3.7** | <2.0 | **7.4** | <2.0 | <2.0 | <2.0 |
| | 8/9/2018 | <2.0 | <2.0 | **3.5** | **8.0** | <2.0 | **15** | <2.0 | <2.0 | <2.0 |

**Table 2**
**Summary of Groundwater Analytical Results for Volatile Organic Compounds (in µg/L)**
**Annual Groundwater Monitoring Report for 2018–2019**
**Washington Industries Environmental Remediation Trust**
**825 South Dakota Street and 812 and 820 South Adams Street, Seattle, Washington**

| Monitoring Well | Date Collected | Tetrachloro-ethene (PCE)[a] | Trichloro-ethene (TCE)[a] | trans-1,2-Dichloro-ethene[a] | cis-1,2-Dichloro-ethene[a] | 1,1-Dichloro-ethene[b] | Vinyl Chloride[a] | 1,1,1-Trichloro-ethane[a] | 1,1,2-Trichloro-ethane[b] | Chloroform[a] |
|---|---|---|---|---|---|---|---|---|---|---|
| MW-8s | 11/20/2018 | <2.0 | **8.9** | **5.8** | **38** | <2.0 | **38** | <2.0 | <2.0 | <2.0 |
| | 2/27/19 and Dup-3 | <2.0/<2.0 | **24/25** | **2.8/2.8** | **30/31** | <2.0/<2.0 | **21/22** | <2.0/<2.0 | <2.0/<2.0 | <2.0/<2.0 |
| MW-8 (MW-8i) | 9/21/1989 | <0.2 | **13** | -- | **3.7** | -- | -- | -- | -- | -- |
| | 11/4/2013 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **2.0** | <2.0 | <2.0 | <2.0 |
| | 8/26/2014 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **1.1** | <2.0 | <2.0 | <2.0 |
| | 6/8/2015 | <2.0 | **0.80** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 6/8/15 Dup-1 | <2.0 | **0.62** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/16/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **0.91** | <2.0 | <2.0 | <2.0 |
| | 12/2/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **0.84** | <2.0 | <2.0 | <2.0 |
| | 3/16/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **0.72** | <2.0 | <2.0 | <2.0 |
| | 2/28/2017 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/27/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **0.98** | <2.0 | <2.0 | <2.0 |
| | 2/26/2019 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **0.76** | <2.0 | <2.0 | <2.0 |
| MW-9 | 9/21/1989 | <0.2 | <0.2 | -- | <0.2 | -- | -- | -- | -- | -- |
| | 11/4/2013 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/26/2014 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 6/8/2015 | <2.0 | <0.40 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/16/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **0.27** | <2.0 | <2.0 | <2.0 |
| | 9/16/15 Dup-3 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **0.29** | <2.0 | <2.0 | <2.0 |
| | 12/1/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **0.27** | <2.0 | <2.0 | <2.0 |
| | 3/16/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **0.41** | <2.0 | <2.0 | <2.0 |
| | 3/1/2017 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **0.29** | <2.0 | <2.0 | <2.0 |
| | 2/28/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/26/2019 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| MW-10 (MW-10s) | 9/21/1989 | <1.0 | <1.0 | -- | **45** | -- | -- | -- | -- | -- |
| | 11/4/2013 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **2.5** | <2.0 | <2.0 | <2.0 |
| | 8/26/2014 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **3.0** | <2.0 | <2.0 | <2.0 |
| | 6/8/2015 | <2.0 | <0.40 | <2.0 | <2.0 | <2.0 | **1.0** | <2.0 | <2.0 | <2.0 |
| | 9/16/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **3.2** | <2.0 | <2.0 | <2.0 |
| | 12/1/2015 | <2.0 | <2.0 | <2.0 | **2.3** | <2.0 | **3.6** | <2.0 | <2.0 | <2.0 |
| | 3/16/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **4.2** | <2.0 | <2.0 | <2.0 |
| | 3/1/2017 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **2.5** | <2.0 | <2.0 | <2.0 |
| | 2/27/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **1.7** | <2.0 | <2.0 | <2.0 |
| | 2/26/2019 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **2.0** | <2.0 | <2.0 | <2.0 |
| MW-10i | 6/8/2015 | <2.0 | <0.40 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/16/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/1/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/16/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/28/2017 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/27/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/26/2019 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| MW-11 | 9/21/1989 | <100 | **4,300** | -- | **670** | -- | -- | -- | -- | -- |
| | 11/4/2013 | **2.6** | **89** | <2.0 | **35** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/26/2014 | <2.0 | **100** | <2.0 | **45** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 6/8/2015 | <2.0 | **54** | <2.0 | **49** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/15/2015 | <2.0 | **36** | <2.0 | **25** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/1/2015 | <2.0 | **90** | <2.0 | **33** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/15/2016 | **2.6** | **100** | <2.0 | **56** | <2.0 | **0.22** | <2.0 | <2.0 | <2.0 |
| | 8/2/2016 | **2.1** | **100** | <2.0 | **47** | <2.0 | **0.23** | <2.0 | <2.0 | <2.0 |
| | 12/5/2016 | <2.0 | **66** | <2.0 | **53** | <2.0 | **2.9** | <2.0 | <2.0 | <2.0 |
| | 2/28/2017 | **2.1** | **110** | <2.0 | **50** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 5/15/2017 | <2.0 | **78** | <2.0 | **51** | <2.0 | **0.43** | <2.0 | <2.0 | <2.0 |
| | 8/3/2017 | <2.0 | <2.0 | <2.0 | **40** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 11/28/2017 | **2.3** | **46** | <2.0 | **27** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/28/2018 | <2.0 | **71** | <2.0 | **93** | <2.0 | **0.78** | <2.0 | <2.0 | <2.0 |
| | 2/28/2018 DUP-2 | **2.3** | **71** | <2.0 | **91** | <2.0 | **0.96** | <2.0 | <2.0 | <2.0 |
| | 6/12/2018 | <2.0 | **35** | <2.0 | **49** | <2.0 | **0.26** | <2.0 | <2.0 | <2.0 |
| | 8/9/2018 | <2.0 | **24** | <2.0 | **25** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 11/20/2018 | <2.0 | **16** | <2.0 | **14** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/26/2019 | <2.0 | **16** | <2.0 | **25** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| MW-12 | 9/21/1989 | **0.2** | **0.5** | -- | <0.2 | -- | -- | -- | -- | -- |
| | 11/4/2013 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/26/2014 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 6/8/2015 | <2.0 | <0.40 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/16/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/16/15 Dup-2 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/1/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/15/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/28/2017 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/27/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/26/2019 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| MW-13 | 10/11/1989 | -- | **130** | -- | -- | -- | -- | <8 | -- | -- |
| MW-14 | 10/11/1989 | -- | **580** | -- | -- | -- | -- | <8 | -- | -- |
| | 11/5/2013 | <2.0 | **3.2** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 11/5/2013 Dup-2 | <2.0 | **3.8** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/28/2014 | <2.0 | **4.1** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 6/10/2015 | <2.0 | **7.8** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 6/10/15 Dup-4 | <2.0 | **7.1** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/18/2015 | <2.0 | **2.8** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/3/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/17/2016 | <2.0 | **19** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/3/2016 | <2.0 | **6.5** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/5/2016 | <2.0 | **9.1** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/2/2017 | <2.0 | **3.8** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 5/15/2017 | <2.0 | **4.3** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |

**Table 2**
**Summary of Groundwater Analytical Results for Volatile Organic Compounds (in µg/L)**
**Annual Groundwater Monitoring Report for 2018–2019**
**Washington Industries Environmental Remediation Trust**
**825 South Dakota Street and 812 and 820 South Adams Street, Seattle, Washington**

| Monitoring Well | Date Collected | Tetrachloro-ethene (PCE)[a] | Trichloro-ethene (TCE)[a] | trans-1,2-Dichloro-ethene[a] | cis-1,2-Dichloro-ethene[a] | 1,1-Dichloro-ethene[b] | Vinyl Chloride[a] | 1,1,1-Trichloro-ethane[a] | 1,1,2-Trichloro-ethane[b] | Chloroform[a] |
|---|---|---|---|---|---|---|---|---|---|---|
| MW-14 | 8/3/2017 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 11/28/2017 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/28/2018 | <2.0 | **2.7** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 6/12/2018 | <2.0 | **4.7** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/10/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 11/20/2018 | <2.0 | **2.1** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | **12** |
| | 2/27/2019 | <2.0 | **2.0** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| MW-15 (MW-15s) | 10/11/1989 | -- | **56,000** | -- | -- | -- | -- | <150 | -- | -- |
| | 4/27/1999 | **9.1** | **2,600** | **3.7** | **180** | -- | <1.0 | <1.0 | -- | **1.0 J** |
| | 11/6/2013 | **8.2** | **820** | **6.8** | **230** | <2.0 | **0.65** | <2.0 | <2.0 | <2.0 |
| | 8/28/2014 | **8.0** | **1,600** | **4.8** | **490** | <2.0 | <0.20 | **2.1** | <2.0 | <2.0 |
| | 6/11/2015 | **12** | **2,100** | **4.7** | **530** | <2.0 | **0.35** | <2.0 | <2.0 | <2.0 |
| | 9/18/2015 | **10** | **1,700** | **5.4** | **460** | <2.0 | **0.43** | <2.0 | <2.0 | <2.0 |
| | 12/4/2015 | <2.0 | **25** | <2.0 | **89** | <2.0 | **0.61** | <2.0 | <2.0 | <2.0 |
| | 3/18/2016 | **4.4** | **670** | **2.5** | <2.0 | <2.0 | **0.22** | <2.0 | <2.0 | <2.0 |
| | 8/2/2016 | **8.6** | **1,800** | **5.2** | **440** | <2.0 | **0.47** | <2.0 | <2.0 | <2.0 |
| | 12/5/2016 | **7.2** | **950** | **2.8** | <2.0 | <2.0 | **0.72** | <2.0 | <2.0 | <2.0 |
| | 3/2/2017 | **2.6** | **430** | **3.2** | **280** | **2.6** | **180** | <2.0 | <2.0 | **2.2** |
| | 8/2/2017 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **50** | <2.0 | <2.0 | <2.0 |
| | 11/28/2017 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **8.7** | <2.0 | <2.0 | <2.0 |
| | 3/1/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **8.8** | <2.0 | <2.0 | <2.0 |
| | 8/10/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **4.4** | <2.0 | <2.0 | <2.0 |
| | 11/20/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **4.2** | <2.0 | <2.0 | <2.0 |
| | 2/26/2019 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **3.3** | <2.0 | <2.0 | <2.0 |
| MW-15i | 6/11/2015 | **4.8** | **210** | <2.0 | **7.1** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/18/2015 | **3.1** | **130** | <2.0 | **6.5** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/3/2015 | <2.0 | **9.3** | <2.0 | **150** | <2.0 | **0.52** | <2.0 | <2.0 | <2.0 |
| | 3/18/2016 | <2.0 | **2.6** | <2.0 | **71** | <2.0 | **27** | <2.0 | <2.0 | <2.0 |
| | 3/18/2016 DUP-4 | <2.0 | **3.2** | <2.0 | **36** | <2.0 | **18** | <2.0 | <2.0 | <2.0 |
| | 8/3/2016 | <2.0 | **2.2** | <2.0 | **5.7** | <2.0 | **15** | <2.0 | <2.0 | <2.0 |
| | 12/5/2016 | <2.0 | **4.0** | <2.0 | **2.3** | <2.0 | **7.1** | <2.0 | <2.0 | <2.0 |
| | 3/2/2017 | <2.0 | **3.3** | <2.0 | <2.0 | <2.0 | **4.5** | <2.0 | <2.0 | <2.0 |
| | 3/2/17 DUP-4 | <2.0 | **3.1** | <2.0 | <2.0 | <2.0 | **4.6** | <2.0 | <2.0 | <2.0 |
| | 5/17/2017 | <2.0 | **3.5** | <2.0 | <2.0 | <2.0 | **2.6** | <2.0 | <2.0 | <2.0 |
| | 5/17/17 DUP-2 | <2.0 | **3.1** | <2.0 | <2.0 | <2.0 | **2.5** | <2.0 | <2.0 | <2.0 |
| | 8/3/2017 | <2.0 | **2.4** | <2.0 | <2.0 | <2.0 | **3.2** | <2.0 | <2.0 | <2.0 |
| | 8/03/17 DUP-2 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **3.1** | <2.0 | <2.0 | <2.0 |
| | 11/28/2017 | <2.0 | **2.9** | <2.0 | <2.0 | <2.0 | **3.7** | <2.0 | <2.0 | <2.0 |
| | 3/1/2018 | <2.0 | **2.3** | <2.0 | <2.0 | <2.0 | **3.4** | <2.0 | <2.0 | <2.0 |
| | 6/12/2018 | <2.0 | **2.2** | <2.0 | <2.0 | <2.0 | **2.4** | <2.0 | <2.0 | <2.0 |
| | 8/10/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **2.4** | <2.0 | <2.0 | <2.0 |
| | 11/20/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **2.1** | <2.0 | <2.0 | <2.0 |
| | 2/26/2019 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **0.38** | <2.0 | <2.0 | <2.0 |
| MW-16 | 10/11/1989 | -- | **9,600** | -- | -- | -- | -- | **20** | -- | -- |
| | 11/6/2013 | <2.0 | **29** | <2.0 | **14** | <2.0 | **1.2** | <2.0 | <2.0 | <2.0 |
| | 8/28/2014 | <2.0 | <2.0 | <2.0 | **2.4** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 6/10/2015 | <2.0 | **14** | <2.0 | **6.4** | <2.0 | **2.1** | <2.0 | <2.0 | <2.0 |
| | 9/17/2015 | <2.0 | **2.2** | <2.0 | **3.7** | <2.0 | **1.5** | <2.0 | <2.0 | <2.0 |
| | 12/3/2015 | <2.0 | **14** | <2.0 | **9.7** | <2.0 | **5.3** | <2.0 | <2.0 | <2.0 |
| | 3/17/2016 | <2.0 | **8.5** | <2.0 | **3.4** | <2.0 | **0.23** | <2.0 | <2.0 | <2.0 |
| | 3/2/2017 | <2.0 | **8.5** | <2.0 | **3.1** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/1/2018 | <2.0 | **2.2** | <2.0 | **5.3** | <2.0 | **1.5** | <2.0 | <2.0 | <2.0 |
| | 2/26/2019 | <2.0 | <2.0 | <2.0 | **5.2** | <2.0 | **0.24** | <2.0 | <2.0 | <2.0 |
| | 2/26/19 DUP-2 | <2.0 | <2.0 | <2.0 | **4.9** | <2.0 | **0.23** | <2.0 | <2.0 | <2.0 |
| MW-16PP* | 8/28/2014 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| MW-17 | 10/11/1989 | -- | **1,850** | -- | -- | -- | -- | <8 | -- | -- |
| | 4/27/1999 | <1.0 | **21.0** | <1.0 | **11** | -- | <1.0 | <1.0 | -- | <1.0 |
| | 11/4/2013 | **Not sampled, well inaccessible** | | | | | | | | |
| MW-18 | 10/11/1989 | -- | **260** | -- | -- | -- | -- | <8 | -- | -- |
| | 11/4/2013 | **Not sampled, well inaccessible** | | | | | | | | |
| | 8/27/2014 | <2.0 | **53** | <2.0 | **8.4** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 6/10/2015 | <2.0 | **22** | <2.0 | **5.7** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/18/2015 | <2.0 | **38** | <2.0 | **6.9** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/3/2015 | <2.0 | **13** | <2.0 | **2.9** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/17/2016 | <2.0 | **24** | <2.0 | **4.7** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/3/2016 | <2.0 | **9.4** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/2/2017 | <2.0 | **82** | <2.0 | **4.4** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/3/2017 | <2.0 | **2.4** | <2.0 | **16** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/28/2018 | <2.0 | <2.0 | <2.0 | **4.4** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/9/2018 | <2.0 | <2.0 | <2.0 | **7.9** | <2.0 | **0.75** | <2.0 | <2.0 | <2.0 |
| | 2/27/2019 | <2.0 | **2.5** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | **9.0** |
| MW-19 | 10/11/1989 | -- | **53** | -- | -- | -- | -- | <8 | -- | -- |
| | 11/4/2013 | **Not sampled, well inaccessible** | | | | | | | | |
| | 8/27/2014 | <2.0 | **190** | <2.0 | **33** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 6/10/2015 | <2.0 | **180** | <2.0 | **22** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/18/2015 | **2.8** | **470** | <2.0 | **40** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/4/2015 | <2.0 | **180** | <2.0 | **16** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/17/2016 | <2.0 | **17** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/3/2016 | 2.5 | **290** | <2.0 | 34 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/5/2016 | <2.0 | **69** | **2.0** | **32** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/2/2017 | <2.0 | **93** | <2.0 | **19** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 5/17/2017 | <2.0 | **80** | **2.4** | **34** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/3/2017 | <2.0 | **3.9** | <2.0 | **18** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 11/28/2017 | <2.0 | <2.0 | <2.0 | **17** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/28/2018 | <2.0 | <2.0 | <2.0 | **18** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |

**Table 2**
**Summary of Groundwater Analytical Results for Volatile Organic Compounds (in µg/L)**
**Annual Groundwater Monitoring Report for 2018–2019**
**Washington Industries Environmental Remediation Trust**
**825 South Dakota Street and 812 and 820 South Adams Street, Seattle, Washington**

| Monitoring Well | Date Collected | Tetrachloro-ethene (PCE)[a] | Trichloro-ethene (TCE)[a] | trans-1,2-Dichloro-ethene[a] | cis-1,2-Dichloro-ethene[a] | 1,1-Dichloro-ethene[b] | Vinyl Chloride[a] | 1,1,1-Trichloro-ethane[a] | 1,1,2-Trichloro-ethane[b] | Chloroform[a] |
|---|---|---|---|---|---|---|---|---|---|---|
| MW-19 | 6/12/2018 | <2.0 | <2.0 | <2.0 | **15** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/9/2018 | <2.0 | <2.0 | <2.0 | **14** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 11/20/2018 | <2.0 | <2.0 | <2.0 | **4** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 11/20/18 DUP-1 | <2.0 | <2.0 | <2.0 | **3.8** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/27/2019 | <2.0 | **2.3** | <2.0 | **15** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| MW-20 (MW-20s) | 8/27/2014 | <2.0 | **16** | <2.0 | **55** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 6/9/2015 | <2.0 | **54** | <2.0 | **14** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/17/2015 | **2.3** | **160** | <2.0 | **27** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/2/2015 | **9.5** | **860** | **3.5** | **120** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/17/2016 | **16** | **890** | <2.0 | **31** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/2/2016 | <2.0 | **2.2** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/28/2017 | <2.0 | **5.8** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/2/2017 | <2.0 | <2.0 | <2.0 | **78** | <2.0 | **3.9** | <2.0 | <2.0 | <2.0 |
| | 2/28/2018 | <2.0 | <2.0 | <2.0 | **14** | <2.0 | **2.4** | <2.0 | <2.0 | <2.0 |
| | 2/26/2019 | <2.0 | **6.9** | <2.0 | **13** | <2.0 | **1.1** | <2.0 | <2.0 | <2.0 |
| MW-20i | 6/9/2015 | <2.0 | **0.74** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/17/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/17/15 Dup-4 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/2/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/17/2016 | <2.0 | **13** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/28/2017 | <2.0 | **160** | <2.0 | **74** | <2.0 | **0.56** | <2.0 | <2.0 | <2.0 |
| | 2/27/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/26/2019 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| MW-21 (MW-21s) | 8/27/2014 | <2.0 | **24** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 6/9/2015 | <2.0 | **2.1** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/15/2015 | <2.0 | **17** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/2/2015 | <2.0 | **12** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/15/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/3/2016 | <2.0 | **16** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/5/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/1/2017 | <2.0 | **7.4** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 5/16/2017 | <2.0 | **10** | <2.0 | **2.8** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/2/2017 | <2.0 | **13** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 11/28/2017 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/28/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 6/12/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/9/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 11/20/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/26/2019 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| MW-21i | 6/9/2015 | <2.0 | <0.40 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/15/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/2/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/15/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/1/2017 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/28/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/26/2019 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| MW-22s | 6/9/2015 | <2.0 | <0.40 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/15/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/2/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/15/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/1/2017 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/28/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/26/2019 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| MW-22i | 6/9/2015 | <2.0 | <0.40 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/15/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/2/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/15/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/1/2017 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/28/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/26/2019 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| MW-23s | 6/9/2015 | <2.0 | <0.40 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/17/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/2/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/17/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/28/2017 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/27/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/26/2019 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | **12** |
| MW-23i | 6/9/2015 | <2.0 | <0.40 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/17/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/2/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/17/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/28/2017 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/27/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/26/2019 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| MW-24s | 6/9/2015 | <2.0 | **38** | **2.9** | **24** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 6/15/2015 | **4.3** | **220** | <2.0 | **23** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/3/2015 | **3.1** | **430** | **3** | **36** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/15/2016 | **3.1** | **180** | **4.2** | **45** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/15/16 - DUP-1 | **2.5** | **140** | **4.7** | **50** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/3/2016 | **3.0** | **240** | **2.2** | **22** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/3/2016 - DUP-1 | **3.0** | **240** | **2.6** | **21** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/5/2016 | **3.8** | **250** | **5.0** | **38** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/1/2017 | <2.0 | **47** | **2.5** | **130** | <2.0 | **0.40** | <2.0 | <2.0 | <2.0 |
| | 3/1/17 DUP-3 | <2.0 | **15** | **2.6** | **120** | <2.0 | **0.33** | <2.0 | <2.0 | <2.0 |
| | 5/16/2017 | <2.0 | **77** | **3.5** | **97** | <2.0 | **0.29** | <2.0 | <2.0 | <2.0 |
| | 5/16/17-DUP-1 | <2.0 | **68** | **2.9** | **140** | <2.0 | **0.25** | <2.0 | <2.0 | <2.0 |
| | 8/2/2017 | <2.0 | <2.0 | <2.0 | **3.9** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/02/17 DUP-1 | <2.0 | **2.2** | <2.0 | **6.5** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |

**Table 2**
**Summary of Groundwater Analytical Results for Volatile Organic Compounds (in µg/L)**
**Annual Groundwater Monitoring Report for 2018–2019**
**Washington Industries Environmental Remediation Trust**
**825 South Dakota Street and 812 and 820 South Adams Street, Seattle, Washington**

| Monitoring Well | Date Collected | Tetrachloro-ethene (PCE)[a] | Trichloro-ethene (TCE)[a] | trans-1,2-Dichloro-ethene[a] | cis-1,2-Dichloro-ethene[a] | 1,1-Dichloro-ethene[b] | Vinyl Chloride[a] | 1,1,1-Trichloro-ethane[a] | 1,1,2-Trichloro-ethane[b] | Chloroform[a] |
|---|---|---|---|---|---|---|---|---|---|---|
| MW-24s | 11/28/2017 | <2.0 | <2.0 | <2.0 | **25** | <2.0 | **21** | <2.0 | <2.0 | <2.0 |
| | 3/1/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **6.8** | <2.0 | <2.0 | <2.0 |
| | 6/12/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **4.5** | <2.0 | <2.0 | <2.0 |
| | 8/10/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **4.7** | <2.0 | <2.0 | <2.0 |
| | 11/21/2018 | <2.0 | **15** | <2.0 | **4** | <2.0 | **2.4** | <2.0 | <2.0 | <2.0 |
| | 2/27/2019 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **3.6** | <2.0 | <2.0 | <2.0 |
| MW-24i | 6/9/2015 | <2.0 | **0.67** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/15/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/3/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/15/2016 | <2.0 | **8.1** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| MW-24ir | 12/3/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/15/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/2/2017 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/28/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/26/2019 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| MW-25s | 6/8/2015 | <2.0 | **0.45** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/16/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/1/2015 | <2.0 | 4.8 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/16/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/1/2017 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/27/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/26/2019 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | **2.9** |
| MW-25i | 6/8/2015 | <2.0 | <0.40 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/16/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/1/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/1/15 DUP 1 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/16/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/28/2017 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/27/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/26/2019 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| MW-26s | 6/8/2015 | <2.0 | **9.5** | <2.0 | **31** | <2.0 | **0.94** | <2.0 | <2.0 | <2.0 |
| | 9/15/2015 | <2.0 | **8.0** | <2.0 | **27** | <2.0 | **0.67** | <2.0 | <2.0 | <2.0 |
| | 12/1/2015 | <2.0 | **6.3** | <2.0 | **25** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/15/2016 | <2.0 | **11** | <2.0 | **26** | <2.0 | **0.65** | <2.0 | <2.0 | <2.0 |
| | 8/2/2016 | <2.0 | **6.8** | <2.0 | **28** | <2.0 | **1.3** | <2.0 | <2.0 | <2.0 |
| | 12/5/2016 | <2.0 | **5.0** | <2.0 | **18** | <2.0 | **0.37** | <2.0 | <2.0 | <2.0 |
| | 3/1/2017 | <2.0 | **11** | <2.0 | **24** | <2.0 | **0.70** | <2.0 | <2.0 | <2.0 |
| | 5/15/2017 | <2.0 | **7.9** | <2.0 | **30** | <2.0 | **0.46** | <2.0 | <2.0 | <2.0 |
| | 8/1/2017 | <2.0 | **5.8** | <2.0 | **26** | <2.0 | **1.4** | <2.0 | <2.0 | <2.0 |
| | 11/28/2017 | <2.0 | <2.0 | <2.0 | **22** | <2.0 | **0.45** | <2.0 | <2.0 | <2.0 |
| | 2/27/2018 | <2.0 | <2.0 | <2.0 | **16** | <2.0 | **0.55** | <2.0 | <2.0 | <2.0 |
| | 2/27/2018 DUP-1 | <2.0 | <2.0 | <2.0 | **15** | <2.0 | **0.51** | <2.0 | <2.0 | <2.0 |
| | 6/12/2018 | <2.0 | **2.1** | <2.0 | **17** | <2.0 | **0.78** | <2.0 | <2.0 | <2.0 |
| | 8/8/2018 | <2.0 | <2.0 | <2.0 | **22** | <2.0 | **1.1** | <2.0 | <2.0 | <2.0 |
| | 11/20/2018 | <2.0 | <2.0 | <2.0 | **20** | <2.0 | **0.83** | <2.0 | <2.0 | <2.0 |
| | 2/26/2019 | <2.0 | <2.0 | <2.0 | **19** | <2.0 | **1.9** | <2.0 | <2.0 | <2.0 |
| MW-26i | 6/8/2015 | <2.0 | <0.40 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/15/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/1/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/16/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/1/2017 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/27/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/26/2019 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| MW-27s | 6/8/2015 | <2.0 | <0.40 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | **4.3** |
| | 9/15/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/1/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/16/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/28/2017 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | **3.2** |
| | 2/27/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | **2.1** |
| | 2/26/2019 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | **2** |
| MW-28s | 6/8/2015 | <2.0 | <0.40 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/15/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **0.31** | <2.0 | <2.0 | <2.0 |
| | 12/1/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **0.35** | <2.0 | <2.0 | <2.0 |
| | 3/15/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/27/2017 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **0.29** | <2.0 | <2.0 | <2.0 |
| | 2/27/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **0.24** | <2.0 | <2.0 | <2.0 |
| | 2/26/2019 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | **0.21** | <2.0 | <2.0 | <2.0 |
| MW-29s | 6/10/2015 | <2.0 | **6.3** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/18/2015 | <2.0 | **2.2** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/3/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/3/15 DUP-3 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/17/2016 | <2.0 | **36** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/3/2016 | <2.0 | **4.6** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/2/2017 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/3/2017 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/1/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/10/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/26/2019 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| SBW-1 | 6/10/2015 | <2.0 | **29** | <2.0 | **15** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/17/2015 | <2.0 | **55** | <2.0 | **6.7** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/2/2015 | <2.0 | **11** | <2.0 | **10** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/15/2016 | <2.0 | **15** | <2.0 | **14** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/2/2016 | <2.0 | **56** | <2.0 | **5.9** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/1/2017 | <2.0 | **13** | <2.0 | **10** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/2/2017 | <2.0 | **13** | <2.0 | **4.1** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/28/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/9/2018 | <2.0 | **6.5** | <2.0 | **3.4** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| SBW-1 | 2/26/2019 and DUP-1 | <2.0/<2.0 | <2.0/<2.0 | <2.0/<2.0 | <2.0/<2.0 | <2.0/<2.0 | <0.20/<0.20 | <2.0/<2.0 | <2.0/<2.0 | <2.0/<2.0 |

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**Washington Industries Environmental Remediation Trust**
**825 South Dakota Street and 812 and 820 South Adams Street, Seattle, Washington**

| Monitoring Well | Date Collected | Tetrachloro-ethene (PCE)[a] | Trichloro-ethene (TCE)[a] | trans-1,2-Dichloro-ethene[a] | cis-1,2-Dichloro-ethene[a] | 1,1-Dichloro-ethene[b] | Vinyl Chloride[a] | 1,1,1-Trichloro-ethane[a] | 1,1,2-Trichloro-ethane[b] | Chloroform[a] |
|---|---|---|---|---|---|---|---|---|---|---|
| SBW-2 | 6/10/2015 | **36** | **1,400** | **6.1** | **310** | <2.0 | **0.23** | <2.0 | <2.0 | <2.0 |
| | 9/17/2015 | **29** | **1,600** | **6.5** | **350** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/1/2015 | **30** | **1,900** | **6.5** | **510** | <2.0 | <0.20 | <2.0 | **3.2** | <2.0 |
| | 3/16/2016 | **37** | **1,000** | **4.2** | **390** | <2.0 | <0.20 | <2.0 | **2.0** | <2.0 |
| | 8/2/2016 | **24** | **1,200** | **6.2** | **290** | <2.0 | 0.3 | <2.0 | <2.0 | <2.0 |
| | 12/5/2016 | **36** | **1,400** | **4.1** | **330** | <2.0 | <0.20 | <2.0 | **2.6** | <2.0 |
| | 3/1/2017 | **17** | **610** | **2.3** | **190** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 5/16/2017 | **25** | **840** | **6.2** | **500** | <2.0 | **1.3** | <2.0 | **2.8** | <2.0 |
| | 8/2/2017 | **8.3** | **250** | **6.6** | **1,000** | **3.3** | **5.6** | <2.0 | <2.0 | <2.0 |
| | 11/29/2017 | **3.7** | **220** | **4.5** | **1,100** | **2.1** | **33** | <2.0 | <2.0 | <2.0 |
| | 11/29/17 DUP-1 | **3.5** | **220** | **6.1** | **1,000** | <2.0 | **31** | <2.0 | <2.0 | <2.0 |
| | 2/28/2018 | <2.0 | **22** | **2.5** | **720** | <2.0 | **52** | <2.0 | <2.0 | <2.0 |
| | 2/28/18 DUP-3 | <2.0 | **22** | **2.6** | **700** | <2.0 | **54** | <2.0 | <2.0 | <2.0 |
| | 6/13/2018 | <2.0 | **27** | <2.0 | **270** | <2.0 | **81** | <2.0 | <2.0 | <2.0 |
| | 8/9/2018 | <2.0 | **3.3** | <2.0 | **260** | <2.0 | **19** | <2.0 | <2.0 | <2.0 |
| | 8/9/18 Dup-1 | <2.0 | **3.4** | <2.0 | **250** | <2.0 | **17** | <2.0 | <2.0 | <2.0 |
| | 11/20/2018 | <2.0 | **11** | <2.0 | **220** | <2.0 | **40** | <2.0 | <2.0 | <2.0 |
| | 2/27/2019 | <2.0 | <2.0 | <2.0 | **39** | <2.0 | **12** | <2.0 | <2.0 | <2.0 |
| SBW-3 | 6/8/2015 | <2.0 | **70** | <2.0 | **22** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/15/2015 | <2.0 | **110** | <2.0 | **25** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/1/2015 | <2.0 | **96** | <2.0 | **22** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/15/2016 | **2.0** | **100** | <2.0 | **28** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/2/2016 | <2.0 | **110** | <2.0 | **19** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/5/2016 | <2.0 | **34** | <2.0 | **3.2** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/28/2017 | <2.0 | **76** | <2.0 | **17** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 5/16/2017 | <2.0 | **89** | <2.0 | **26** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/2/2017 | <2.0 | **44** | <2.0 | **14** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 11/29/2017 | <2.0 | **63** | <2.0 | **14** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/28/2018 | <2.0 | **19** | <2.0 | **16** | <2.0 | **0.27** | <2.0 | <2.0 | <2.0 |
| | 6/13/2018 | <2.0 | **20** | <2.0 | **7.8** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 06/13/18 Dup-1 | <2.0 | **20** | <2.0 | **7.9** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/9/2018 | <2.0 | **19** | <2.0 | **3.4** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 11/20/2018 | <2.0 | **15** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/27/2019 | <2.0 | **38** | <2.0 | **8.6** | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| SBW-4 | 6/8/2015 | <2.0 | **0.47** | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 9/15/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 12/1/2015 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 3/15/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/2/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/27/2017 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/1/2017 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/27/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 8/8/2018 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| | 2/26/2019 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <0.20 | <2.0 | <2.0 | <2.0 |
| **Site-Specific Groundwater RELs Developed for the Groundwater-Indoor Air Pathway[c]** | | **440** | **37** | **NVE** | **NVE** | **NVE** | **30** | **52,340** | **NVE** | **NVE** |
| **Site-Specific Groundwater CULs Developed for the Groundwater-Indoor Air Pathway[d]** | | **101** | **8.4** | **NVE** | **NVE** | **NVE** | **6.8** | **11,930** | **NVE** | **NVE** |
| **Groundwater CULs Adopted from ODEQ[e]** | | **5,600** | **3,000** | **1,800** | **180,000** | **44,000** | **960** | **1,100,000** | **49** | **720** |

Notes:

All samples were analyzed by EPA Method 8260 and results are presented in micrograms per liter (µg/L).

**Bold** Bold results exceed the laboratory reporting limit.

Shaded results exceed the Site-specific remediation level.

< Indicates that the analyte is not detected at a concentration greater than the laboratory reporting limit.

-- Sample was not analyzed for this compound.

* MW-16PP collected before low-flow purging.

a Samples collected in March 1989, September 1989 and October 1989 were analyzed by EPA Metthod 8010. Samples collected in April 1999 were analyzed by EPA

b Samples collected in March 1989, September 1989 and October 1989 were analyzed by EPA Metthod 8010.

c Site-Specific Groundwater RELs Developed for the Groundwater-Indoor Air Pathway for a construction worker reasonable maximum exposure (RME) scenario.

d Site-Specific Groundwater CULs Developed for the MTCA Method C Groundwater-Indoor Air CUL.

e Oregon Department of Environmental Quality (ODEQ) Risk-Based Cleanup Levels for direct contact with groundwater in an excavation for a construction worker (http://www.deq.state.or.us/lq/pubs/docs/RBDMTable.pdf).

REL Remediation level.

NVE No cleanup value has been established for this compound.

CUL Cleanup level.

Qualifier:

J Laboratory estimated concentration.

**Table 3**
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**Annual Groundwater Monitoring Report for 2018–2019**
**Washington Industries Environmental Remediation Trust**
**825 South Dakota Street and 812 and 820 South Adams Street, Seattle, Washington**

| Montitoring Well | Date Collected | Arsenic[a] | Cadmium[b] | Chromium (Hexavalent)[c] | Total Chromium[d] | Copper[a] | Lead[a] | Nickel[e] | Zinc[f] | Cyanide[g] |
|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 (MW-1s) | 3/23/1989 | <5 | **170** | <25 | **30** | **100** | <5 | **90** | **130** | **2,700** |
| | 9/21/1989 | -- | **500** | <10 | **20** | -- | -- | **80** | **700** | **1,400** |
| | 4/27/1999 | -- | **373** | <10 | **14** | -- | -- | -- | **583** | **25** |
| | 9/22/2014 | -- | -- | <10 | **6.0** | -- | -- | -- | -- | <50 |
| | 6/9/2015 | -- | -- | <10 | **12** | -- | -- | -- | -- | -- |
| | 9/16/2015 | -- | -- | <10 | **9.0** | -- | -- | -- | -- | -- |
| | 12/4/2015 | -- | -- | **18** | **27** | -- | -- | -- | -- | -- |
| | 3/16/2016 | -- | -- | **16** | **28** | -- | -- | -- | -- | -- |
| MW-1i | 11/5/2013 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 11/5/2013 Dup-1 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | <50 |
| | 8/26/2014 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | <50 |
| | 6/9/2015 | -- | -- | <10 | **4.6** | -- | -- | -- | -- | -- |
| | 6/9/15 Dup-3 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 9/15/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 9/15/15 Dup-1 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 12/3/2015 | -- | -- | <10 | **11** | -- | -- | -- | -- | -- |
| | 3/15/2016 | -- | -- | <10 | **4.2** | -- | -- | -- | -- | -- |
| MW-2 | 3/23/1989 | <5 | **160** | **110,000** | **180,000** | **60** | <5 | **90** | **60** | **520** |
| | 9/21/1989 | -- | **700** | **280,000** | **280,000** | -- | -- | **200** | **400** | **30** |
| | 4/27/1999 | -- | **44** | **8,100** | **8,260** | -- | -- | -- | <4 | <5 |
| | 11/5/2013 | -- | -- | **54** | **150** | -- | -- | -- | -- | <50 |
| | 8/27/2014 | -- | -- | <10 | **23** | -- | -- | -- | -- | <50 |
| | 6/9/2015 | -- | -- | <10 | **36** | -- | -- | -- | -- | -- |
| | 9/16/2015 | -- | -- | <10 | **41** | -- | -- | -- | -- | -- |
| | 12/2/2015 | -- | -- | <10 | **56** | -- | -- | -- | -- | -- |
| | 3/16/2016 | -- | -- | <10 | **95** | -- | -- | -- | -- | -- |
| | 3/16/16 DUP-2 | -- | -- | <10 | **81** | -- | -- | -- | -- | -- |
| | 3/1/2017 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 3/1/17 DUP-2 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 2/28/2018 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 2/27/2019 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| MW-3 | 3/23/1989 | <5 | **70** | **25,000** | **30,000** | **20** | <5 | **2,400** | **80** | **110** |
| | 9/22/1989 | -- | **8** | **20** | **50** | -- | -- | **60** | <10 | **150** |
| | 4/27/1999 | -- | **48** | **3,400** | **455** | -- | -- | -- | **7** | **33** |
| | 11/5/2013 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 11/6/2013 | -- | -- | -- | **390** | -- | -- | -- | -- | <50 |
| | 8/26/2014 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 8/27/2014 | -- | -- | -- | **57** | -- | -- | -- | -- | <50 |
| | 6/8/2015 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 6/9/2015 | -- | -- | <10 | **230** | -- | -- | -- | -- | -- |
| | 9/15/2015 | -- | -- | <10 | **340** | -- | -- | -- | -- | -- |
| | 12/3/2015 | -- | -- | **320** | **690** | -- | -- | -- | -- | -- |
| | 3/15/2016 | -- | -- | **3,000** | **3,400** | -- | -- | -- | -- | -- |
| | 8/2/2016 | -- | -- | **<10** | **2,300** | -- | -- | -- | -- | -- |
| | 12/6/2016 | -- | -- | **1,500** | -- | -- | -- | -- | -- | -- |
| | 3/1/2017 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 5/16/2017 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 8/2/2017 | -- | -- | <10 | **42** | -- | -- | -- | -- | -- |
| | 11/29/2017 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 2/28/2018 | -- | -- | **32** | -- | -- | -- | -- | -- | -- |
| | 6/13/2018 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 8/9/2018 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 11/20/2018 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 2/27/2019 | -- | -- | <10 | **110** | -- | -- | -- | -- | -- |
| MW-4 | 3/23/1989 | <5 | **5** | **300** | **430** | <20 | <5 | <30 | <10 | **30** |
| | 9/21/1989 | -- | <5 | <10 | <10 | -- | -- | <10 | <10 | **10** |
| | 4/27/1999 | -- | <2 | <10 | <5 | -- | -- | -- | <4 | <5 |
| | 11/4/2013 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | <50 |
| | 8/27/2014 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | <50 |
| | 6/9/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 9/16/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 12/2/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 3/17/2016 | -- | -- | <10 | **2.2** | -- | -- | -- | -- | -- |
| | 3/17/16 DUP-3 | -- | -- | <10 | **2.0** | -- | -- | -- | -- | -- |
| MW-4i | 12/4/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 12/4/15 DUP-4 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 3/17/2016 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| MW-5 | 9/21/1989 | -- | <5 | <10 | <10 | -- | -- | <10 | <10 | <10 |
| | 4/27/1999 | -- | <2 | <10 | <5 | -- | -- | -- | <4 | <5 |
| | 11/4/2013 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | <50 |
| | 8/27/2014 | -- | -- | <10 | **10** | -- | -- | -- | -- | <50 |
| | 6/9/2015 | -- | -- | <10 | **2.6** | -- | -- | -- | -- | -- |
| | 9/15/2015 | Not Sampled | | | | | | | | |
| | 12/2/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 12/2/15 DUP-2 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 3/16/2016 | -- | -- | <10 | **6.2** | -- | -- | -- | -- | -- |
| | | **WELL DECOMMISSIONED** | | | | | | | | |
| MW-5B | 8/27/2014 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | <50 |
| | 9/16/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 12/2/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 3/16/2016 | -- | -- | **270** | <2.0 | -- | -- | -- | -- | -- |

**Table 3**
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**825 South Dakota Street and 812 and 820 South Adams Street, Seattle, Washington**

| Montitoring Well | Date Collected | Arsenic[a] | Cadmium[b] | Chromium (Hexavalent)[c] | Total Chromium[d] | Copper[a] | Lead[a] | Nickel[e] | Zinc[f] | Cyanide[g] |
|---|---|---|---|---|---|---|---|---|---|---|
| MW-05 (MW-05s) | 8/27/2014 | -- | -- | <10 | **15** | -- | -- | -- | -- | <50 |
| | 6/9/2015 | -- | -- | <10 | **8.4** | -- | -- | -- | -- | -- |
| | 6/9/15 Dup-2 | -- | -- | <10 | **8.4** | -- | -- | -- | -- | -- |
| | 9/17/2015 | **1.7** | **2.2** | <10 | **20** | <2.0 | <1.0 | -- | -- | -- |
| | 12/2/2015 | **--** | **--** | **38** | **36** | -- | -- | -- | -- | -- |
| | 3/17/2016 | -- | -- | <10 | **6.7** | -- | -- | -- | -- | -- |
| | 2/28/2017 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 2/28/2018 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 2/26/2019 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| MW-05i | 6/9/2015 | -- | -- | <10 | **5.8** | -- | -- | -- | -- | -- |
| | 9/17/2015 | -- | -- | <10 | **2.6** | -- | -- | -- | -- | -- |
| | 12/2/2015 | -- | -- | <10 | **3.5** | -- | -- | -- | -- | -- |
| | 3/17/2016 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| MW-7s | 6/9/2015 | -- | -- | **12** | **43** | -- | -- | -- | -- | -- |
| | 9/15/2015 | **Not Sampled – Dry** | | | | | | | | |
| | 12/3/2015 | -- | -- | **24** | **40** | -- | -- | -- | -- | -- |
| | 3/16/2016 | -- | -- | **15** | **39** | -- | -- | -- | -- | -- |
| MW-7i | 11/4/2013 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | <50 |
| | 8/26/2014 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | <50 |
| | 9/16/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 12/3/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| MW-7IR | 12/3/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 3/16/2016 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| MW-7 (MW-7d) | 9/21/1989 | -- | <5 | <10 | <10 | -- | -- | <10 | <10 | <10 |
| | 4/27/1999 | -- | <2 | <10 | <5 | -- | -- | -- | <4 | <5 |
| | 9/22/2014 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | <0.050 |
| | 9/16/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 12/4/2015 | -- | -- | <10 | **3.2** | -- | -- | -- | -- | -- |
| | 3/18/2016 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | | **WELL DECOMMISSIONED** | | | | | | | | |
| MW-07 | 8/27/2014 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | <50 |
| | 6/9/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 9/17/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 12/2/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 3/17/2016 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| MW-8s | 6/8/2015 | -- | -- | <10 | **17** | -- | -- | -- | -- | -- |
| | 9/16/2015 | -- | -- | <10 | **18** | -- | -- | -- | -- | -- |
| | 12/2/2015 | -- | -- | <10 | **25** | -- | -- | -- | -- | -- |
| | 3/16/2016 | -- | -- | <10 | **21** | -- | -- | -- | -- | -- |
| | 2/28/2017 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 02/28/18 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 2/27/2019 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| MW-8 (MW-8i) | 9/21/1989 | -- | <5 | <10 | **20** | -- | -- | **30** | **50** | **30** |
| | 11/4/2013 | -- | -- | <10 | **2.7** | -- | -- | -- | -- | <50 |
| | 8/26/2014 | -- | -- | <10 | **2.3** | -- | -- | -- | -- | <50 |
| | 6/8/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 6/8/15 Dup-1 | -- | -- | <10 | **3.3** | -- | -- | -- | -- | -- |
| | 9/16/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 12/2/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 3/16/2016 | -- | -- | <10 | **2.5** | -- | -- | -- | -- | -- |
| MW-9 | 9/21/1989 | -- | **10** | <10 | <10 | -- | -- | **10** | **30** | <10 |
| | 11/4/2013 | -- | -- | <10 | **15** | -- | -- | -- | -- | <50 |
| | 8/26/2014 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | <50 |
| | 6/8/2015 | -- | -- | <10 | **6.0** | -- | -- | -- | -- | -- |
| | 9/16/2015 | -- | -- | <10 | **6.7** | -- | -- | -- | -- | -- |
| | 9/16/15 Dup-3 | -- | -- | <10 | **6.4** | -- | -- | -- | -- | -- |
| | 12/1/2015 | -- | -- | <10 | **9** | -- | -- | -- | -- | -- |
| | 3/16/2016 | -- | -- | <10 | **8.1** | -- | -- | -- | -- | -- |
| MW-10 (MW-10s) | 9/21/1989 | -- | <5 | <10 | <10 | -- | -- | <10 | <10 | <10 |
| | 11/4/2013 | -- | -- | <10 | **8.9** | -- | -- | -- | -- | <50 |
| | 8/26/2014 | -- | -- | <10 | **3.8** | -- | -- | -- | -- | **260** |
| | 6/8/2015 | -- | -- | <10 | **4.9** | -- | -- | -- | -- | -- |
| | 9/16/2015 | -- | -- | <10 | **9.8** | -- | -- | -- | -- | -- |
| | 12/1/2015 | -- | -- | <10 | **8.6** | -- | -- | -- | -- | -- |
| | 3/16/2016 | -- | -- | <10 | **8.9** | -- | -- | -- | -- | -- |
| MW-10i | 6/8/2015 | -- | -- | <10 | **12** | -- | -- | -- | -- | -- |
| | 9/16/2015 | -- | -- | <10 | **8.8** | -- | -- | -- | -- | -- |
| | 12/1/2015 | -- | -- | <10 | **18** | -- | -- | -- | -- | -- |
| | 3/16/2016 | -- | -- | <10 | **26** | -- | -- | -- | -- | -- |
| MW-11 | 9/21/1989 | -- | <5 | **2,500** | **2,600** | -- | -- | **90** | <10 | **80** |
| | 11/4/2013 | -- | -- | **70** | **83** | -- | -- | -- | -- | <50 |
| | 8/26/2014 | -- | -- | **59** | **65** | -- | -- | -- | -- | <50 |
| | 6/8/2015 | -- | -- | **23** | **35** | -- | -- | -- | -- | -- |
| | 9/15/2015 | -- | -- | **27** | **53** | -- | -- | -- | -- | -- |
| | 12/1/2015 | -- | -- | **51** | **58** | -- | -- | -- | -- | -- |
| | 3/15/2016 | -- | -- | **57** | **56** | -- | -- | -- | -- | -- |
| | 8/2/2016 | -- | -- | **69** | **69** | -- | -- | -- | -- | -- |
| | 2/28/2017 | -- | -- | **59** | -- | -- | -- | -- | -- | -- |
| | 8/3/2017 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 2/28/2018 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 8/9/2018 | -- | -- | **14** | -- | -- | -- | -- | -- | -- |

**Table 3**
**Summary of Groundwater Analytical Results for Metals and Cyanide (in µg/L)**
**Annual Groundwater Monitoring Report for 2018–2019**
**Washington Industries Environmental Remediation Trust**
**825 South Dakota Street and 812 and 820 South Adams Street, Seattle, Washington**

| Montitoring Well | Date Collected | Arsenic[a] | Cadmium[b] | Chromium (Hexavalent)[c] | Total Chromium[d] | Copper[a] | Lead[a] | Nickel[e] | Zinc[f] | Cyanide[g] |
|---|---|---|---|---|---|---|---|---|---|---|
| MW-11 | 2/26/2019 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| MW-12 | 9/21/1989 | -- | <5 | <10 | <10 | -- | -- | <10 | <10 | <10 |
| | 11/4/2013 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | <50 |
| | 8/26/2014 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | <50 |
| | 6/8/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 9/16/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 9/16/15 Dup-2 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 12/1/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 3/15/2016 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| MW-13 | 10/11/1989 | -- | **20** | **17,000** | **17,000** | -- | -- | **50** | **200** | **2,100** |
| MW-14 | 10/11/1989 | -- | **1.2** | **230** | **240** | -- | -- | <30 | **30** | **40** |
| | 11/5/2013 | -- | -- | **16** | **19** | -- | -- | -- | -- | <50 |
| | 11/5/2013 Dup-2 | -- | -- | **17** | **21** | -- | -- | -- | -- | <50 |
| | 8/28/2014 | -- | -- | **19** | **25** | -- | -- | -- | -- | <50 |
| | 6/10/2015 | -- | -- | **55** | **52** | -- | -- | -- | -- | <50 |
| | 6/10/2015 Dup-4 | -- | -- | **57** | **53** | -- | -- | -- | -- | -- |
| | 9/18/2015 | -- | -- | **<10** | **25** | -- | -- | -- | -- | -- |
| | 12/3/2015 | -- | -- | **13** | **12** | -- | -- | -- | -- | -- |
| | 3/17/2016 | -- | -- | **58** | **60** | -- | -- | -- | -- | -- |
| | 3/2/2017 | -- | -- | **21** | -- | -- | -- | -- | -- | -- |
| | 2/28/2018 | -- | -- | **17** | -- | -- | -- | -- | -- | -- |
| | 2/27/2019 | -- | -- | **41** | -- | -- | -- | -- | -- | -- |
| MW-15 (MW-15s) | 10/11/1989 | -- | **50** | **20** | **20** | -- | -- | **350** | **210** | **4,300** |
| | 4/27/1999 | -- | **13** | **820** | **918** | -- | -- | -- | **519** | **370** |
| MW-15 (MW-15s) | 11/6/2013 | -- | -- | <10 | **28** | -- | -- | -- | -- | <50 |
| | 8/28/2014 | -- | -- | <10 | **73** | -- | -- | -- | -- | -- |
| | 6/11/2015 | -- | -- | <10 | **7.4** | -- | -- | -- | -- | -- |
| | 9/18/2015 | -- | -- | <10 | **25** | -- | -- | -- | -- | -- |
| | 12/4/2015 | -- | -- | <10 | **12** | -- | -- | -- | -- | -- |
| | 3/18/2016 | -- | -- | <10 | **28** | -- | -- | -- | -- | -- |
| MW-15i | 6/11/2015 | -- | -- | <10 | **4.0** | -- | -- | -- | -- | -- |
| | 9/18/2015 | **1.9** | <1.0 | <10 | **4.8** | <2.0 | <1.0 | -- | -- | -- |
| | 12/3/2015 | -- | -- | <10 | **3.9** | -- | -- | -- | -- | -- |
| | 3/18/2016 | -- | -- | <10 | **8.5** | -- | -- | -- | -- | -- |
| | 3/18/16 DUP-4 | -- | -- | <10 | **6.7** | -- | -- | -- | -- | -- |
| MW-16 | 10/11/1989 | -- | **34** | <10 | <20 | -- | -- | **100** | **50** | **10,000** |
| | 11/6/2013 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 6/10/2015 | -- | -- | <10 | **29** | -- | -- | -- | -- | -- |
| | 9/17/2015 | -- | -- | <10 | **2.5** | -- | -- | -- | -- | -- |
| | 12/3/2015 | -- | -- | <10 | **4.8** | -- | -- | -- | -- | -- |
| | 3/17/2016 | -- | -- | <10 | **2.8** | -- | -- | -- | -- | -- |
| MW-16PP* | 8/28/2014 | -- | -- | <10 | **2.8** | -- | -- | -- | -- | <50 |
| MW-17 | 10/11/1989 | -- | **270** | **200,000** | **200,000** | -- | -- | **410** | **160** | **200** |
| | 4/27/1999 | -- | **18** | **6,900** | **8,160** | -- | -- | -- | **48** | **7** |
| | 11/4/2013 | **Not sampled, well inaccessible** | | | | | | | | |
| MW-18 | 10/11/1989 | -- | **11,000** | **430,000** | **440,000** | -- | -- | **7,400** | **9,200** | <100 |
| | 11/4/2013 | **Not sampled, well inaccessible** | | | | | | | | |
| | 8/27/2014 | -- | -- | **580** | **860** | -- | -- | -- | -- | <50 |
| | 6/10/2015 | -- | -- | **300** | **640** | -- | -- | -- | -- | <50 |
| | 9/18/2015 | -- | -- | **620** | **1,500** | -- | -- | -- | -- | -- |
| | 12/3/2015 | -- | -- | **2,600** | **3,500** | -- | -- | -- | -- | -- |
| | 3/17/2016 | -- | -- | **5,300** | **4,500** | -- | -- | -- | -- | -- |
| | 8/3/2016 | -- | -- | **200** | **600** | -- | -- | -- | -- | -- |
| | 12/14/2016 | -- | -- | **2,700** | -- | -- | -- | -- | -- | -- |
| | 3/2/2017 | -- | -- | **86** | -- | -- | -- | -- | -- | -- |
| | 5/17/2017 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 8/3/2017 | -- | -- | <10 | **1,300** | -- | -- | -- | -- | -- |
| | 11/29/2017 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 2/28/2018 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 6/13/2018 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 8/9/2018 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 11/20/2018 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 2/27/2019 | -- | -- | <10 | **100** | -- | -- | -- | -- | -- |
| MW-19 | 10/11/1989 | -- | **20** | **150** | **490** | -- | -- | **50** | **40** | **13,000** |
| | 11/4/2013 | **Not sampled, well inaccessible** | | | | | | | | |
| | 8/27/2014 | -- | -- | <10 | **1,500** | -- | -- | -- | -- | **0.26** |
| | 6/10/2015 | -- | -- | <10 | **23** | -- | -- | -- | -- | **0.26** |
| | 9/18/2015 | -- | -- | <10 | **41** | -- | -- | -- | -- | -- |
| | 12/4/2015 | -- | -- | **120** | **120** | -- | -- | -- | -- | -- |
| | 3/17/2016 | -- | -- | <10 | **1,700** | -- | -- | -- | -- | -- |
| | 8/3/2016 | -- | -- | <10 | **38** | -- | -- | -- | -- | -- |
| | 3/2/2017 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 8/3/2017 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 02/28/18 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 8/9/2018 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 2/27/2019 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| MW-20 (MW-20s) | 8/27/2014 | -- | -- | <10 | **7.0** | -- | -- | -- | -- | <50 |
| | 6/9/2015 | -- | -- | <10 | **9.9** | -- | -- | -- | -- | -- |
| | 9/17/2015 | -- | -- | <10 | **8.6** | -- | -- | -- | -- | -- |
| | 12/2/2015 | -- | -- | <10 | **34** | -- | -- | -- | -- | -- |
| | 3/17/2016 | -- | -- | <10 | **45** | -- | -- | -- | -- | -- |

**Table 3**
**Summary of Groundwater Analytical Results for Metals and Cyanide (in µg/L)**
**Annual Groundwater Monitoring Report for 2018–2019**
**Washington Industries Environmental Remediation Trust**
**825 South Dakota Street and 812 and 820 South Adams Street, Seattle, Washington**

| Montitoring Well | Date Collected | Arsenic[a] | Cadmium[b] | Chromium (Hexavalent)[c] | Total Chromium[d] | Copper[a] | Lead[a] | Nickel[e] | Zinc[f] | Cyanide[g] |
|---|---|---|---|---|---|---|---|---|---|---|
| MW-20 (MW-20s) | 2/28/2017 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 2/28/2018 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 2/26/2019 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| MW-20i | 6/9/2015 | -- | -- | <10 | **2.2** | -- | -- | -- | -- | -- |
| | 9/17/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 9/17/15 Dup-4 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 12/2/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 3/17/2016 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| MW-21 (MW-21s) | 8/27/2014 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | <50 |
| | 6/9/2015 | -- | -- | <10 | **3.0** | -- | -- | -- | -- | -- |
| | 9/15/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 12/2/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 3/15/2016 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| MW-21i | 6/9/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 9/15/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 12/2/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 3/15/2016 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| MW-22s | 6/9/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 9/15/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 12/2/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 3/15/2016 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| MW-22i | 6/9/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 9/15/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 12/2/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 3/15/2016 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| MW-23s | 6/9/2015 | -- | -- | <10 | **4.1** | -- | -- | -- | -- | -- |
| | 9/17/2015 | **Not Sampled – Dry** | | | | | | | | |
| | 12/2/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 3/17/2016 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| MW-23i | 6/9/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 9/17/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 12/2/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 3/17/2016 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| MW-24s | 6/9/2015 | -- | -- | <10 | **7.3** | -- | -- | -- | -- | -- |
| | 9/15/2015 | -- | -- | <10 | **11** | -- | -- | -- | -- | -- |
| | 12/3/2015 | -- | -- | <10 | **6.8** | -- | -- | -- | -- | -- |
| | 3/15/2016 | -- | -- | <10 | **9.9** | -- | -- | -- | -- | -- |
| | 3/15/16 - DUP-1 | -- | -- | <10 | **12** | -- | -- | -- | -- | -- |
| MW-24i | 6/9/2015 | -- | -- | <10 | **4.5** | -- | -- | -- | -- | -- |
| | 9/15/2015 | -- | -- | <10 | **2.2** | -- | -- | -- | -- | -- |
| | 12/3/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 3/15/2016 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| MW-24IR | 12/3/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 3/15/2016 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| MW-25s | 6/8/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 9/16/2015 | -- | -- | <10 | **3.0** | -- | -- | -- | -- | -- |
| | 12/1/2015 | -- | -- | <10 | **10** | -- | -- | -- | -- | -- |
| | 12/1/15 DUP-1 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 3/16/2016 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| MW-25i | 6/8/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 9/16/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 12/1/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 3/16/2016 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| MW-26s | 6/8/2015 | -- | -- | <10 | **9.2** | -- | -- | -- | -- | -- |
| | 9/15/2015 | <1.0 | <1.0 | <10 | **5.8** | <1.0 | <1.0 | -- | -- | |
| | 12/1/2015 | -- | -- | <10 | **6.1** | -- | -- | -- | -- | -- |
| | 3/15/2016 | -- | -- | <10 | **25** | -- | -- | -- | -- | -- |
| MW-26i | 6/8/2015 | -- | -- | <10 | **4.9** | -- | -- | -- | -- | -- |
| | 9/15/2015 | -- | -- | <10 | **15** | -- | -- | -- | -- | -- |
| | 12/1/2015 | -- | -- | <10 | **15** | -- | -- | -- | -- | -- |
| | 3/16/2016 | -- | -- | <10 | **17** | -- | -- | -- | -- | -- |
| MW-27s | 6/8/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 9/15/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 12/1/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 3/16/2016 | -- | -- | <10 | 6.5 | -- | -- | -- | -- | -- |
| MW-28s | 6/8/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 9/15/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 12/1/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 3/15/2016 | -- | -- | <10 | 2.8 | -- | -- | -- | -- | -- |
| MW-29s | 6/8/2015 | -- | -- | <10 | **7.1** | -- | -- | -- | -- | -- |
| | 9/18/2015 | -- | -- | <10 | **18** | -- | -- | -- | -- | -- |
| | 12/3/2015 | -- | -- | <10 | **6.6** | -- | -- | -- | -- | -- |
| | 12/3/15 DUP-3 | -- | -- | <10 | **8.6** | -- | -- | -- | -- | -- |
| | 3/17/2016 | -- | -- | <10 | **6.6** | -- | -- | -- | -- | -- |
| SBW-1 | 6/8/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 9/17/2015 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| | 12/2/2015 | -- | -- | <10 | **2.7** | -- | -- | -- | -- | -- |
| | 3/15/2016 | -- | -- | <10 | <2.0 | -- | -- | -- | -- | -- |
| SBW-2 | 6/8/2015 | -- | -- | **50** | **60** | -- | -- | -- | -- | -- |
| | 9/17/2015 | -- | -- | **35** | **45** | -- | -- | -- | -- | -- |
| | 12/1/2015 | -- | -- | **180** | **180** | -- | -- | -- | -- | -- |

**Table 3**
**Summary of Groundwater Analytical Results for Metals and Cyanide (in µg/L)**
**Annual Groundwater Monitoring Report for 2018–2019**
**Washington Industries Environmental Remediation Trust**
**825 South Dakota Street and 812 and 820 South Adams Street, Seattle, Washington**

| Montitoring Well | Date Collected | Arsenic[a] | Cadmium[b] | Chromium (Hexavalent)[c] | Total Chromium[d] | Copper[a] | Lead[a] | Nickel[e] | Zinc[f] | Cyanide[g] |
|---|---|---|---|---|---|---|---|---|---|---|
| SBW-2 | 3/16/2016 | -- | -- | <10 | **250** | -- | -- | -- | -- | -- |
| | 8/2/2016 | -- | -- | **72** | **77** | -- | -- | -- | -- | -- |
| | 12/5/2016 | -- | -- | **430** | -- | -- | -- | -- | -- | -- |
| | 3/1/2017 | -- | -- | **200** | -- | -- | -- | -- | -- | -- |
| | 5/16/2017 | -- | -- | **11** | -- | -- | -- | -- | -- | -- |
| | 8/2/2017 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 11/29/2017 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 2/28/2018 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 02/28/18 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 8/9/2018 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 11/20/2018 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 2/27/2019 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| SBW-3 | 6/8/2015 | -- | -- | **46** | **100** | -- | -- | -- | -- | -- |
| | 9/15/2015 | -- | -- | **190** | **180** | -- | -- | -- | -- | -- |
| | 12/1/2015 | -- | -- | **150** | **140** | -- | -- | -- | -- | -- |
| | 3/15/2016 | -- | -- | **170** | **150** | -- | -- | -- | -- | -- |
| | 8/2/2016 | -- | -- | **150** | **140** | -- | 1 | -- | -- | -- |
| | 12/5/2016 | -- | -- | **62** | **--** | -- | -- | | | |
| | 2/28/2017 | -- | -- | **110** | -- | -- | -- | -- | -- | -- |
| | 5/16/2017 | -- | -- | **130** | -- | -- | -- | -- | -- | -- |
| | 8/2/2017 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 11/29/2017 | -- | -- | **110** | -- | -- | -- | -- | -- | -- |
| | 02/28/18 | -- | -- | <10 | -- | -- | -- | -- | -- | -- |
| | 6/13/2018 | -- | -- | **51** | -- | -- | -- | -- | -- | -- |
| | 8/9/2018 | -- | -- | **64** | -- | -- | -- | -- | -- | -- |
| | 11/20/2018 | -- | -- | **86** | -- | -- | -- | -- | -- | -- |
| | 2/27/2019 | -- | -- | **91** | -- | -- | -- | -- | -- | -- |
| SBW-4 | 6/8/2015 | -- | -- | <10 | **14** | -- | -- | -- | -- | -- |
| | 9/15/2015 | -- | -- | **13** | **12** | -- | -- | -- | -- | -- |
| | 12/1/2015 | -- | -- | <10 | **8.6** | -- | -- | -- | -- | -- |
| | 3/15/2016 | -- | -- | 12 | **12** | -- | -- | -- | -- | -- |
| **Groundwater CULs Adopted from ODEQ[h]** | | **6,300** | **130,000** | **9,400** | **NVE** | **81,000** | **NVE** | **1.34E+07** | **NVE** | **81,000** |

Notes:
All results in micrograms/liter (µg/L).
**Bold** Bold results exceed the laboratory reporting limit.
Shaded results exceed the Site-specific remediation level.
< Indicates that the analyte is not detected at a concentration greater than the laboratory reporting limit.
-- Sample was not analyzed for this compound.
CUL Cleanup level.
NVE No cleanup value has been established for this compound.
* MW-16PP collected before low-flow purging.
a Method of analysis of arsenic, copper, and lead is unknown for samples dated 03/23/1989.
b Samples collected on 3/23/89, 9/21/89 and 4/27/99 were analyzed for cadmium by EPA Metthod 6010. Samples collected on 10/11/89 were analyzed by EPA Methods 7130
c All samples analyzed for hexavalent chromium by EPA Metthod 7196 for all dates except 4/27/99, when Method SM3500Cr-D was used.
d Samples collected on 8/26/14 were analyzed for total chromium by EPA Method 200.8. Samples collected on all other dates were analyzed for total chromium by EPA Metthod 6010.
e Samples collected on 3/23/89 and 9/21/89 were analyzed for nickel by EPA Metthod 6010. Samples collected on 10/11/89 were analyzed by EPA Method 7520.
f Samples collected on 3/23/89, 9/21/89 and 4/27/99 were analyzed for zinc by EPA Metthod 6010. Samples collected on 10/11/89 were analyzed by EPA Method 7950.
g Samples collected on 3/23/89, 9/21/89 and 10/11/89 were analyzed for cyanide by EPA Metthod 9012. Samples collected on 4/27/99 were analyzed by EPA Method 335.2.
h Oregon Department of Environmental Quality (ODEQ) Risk-Based Cleanup Levels for direct contact with groundwater in an excavation for a construction worker (http://www.deq.state.or.us/lq/pubs/docs/RBDMTable.pdf).

**Table 4**
**System 1 – Summary of SVE Air Emmission Results (in µg/L)**
**Annual Groundwater Monitoring Report for 2018–2019**
**Washington Industries Environmental Remediation Trust**
**825 South Dakota Street and 812 and 820 South Adams Street, Seattle, Washington**

| Sample Identification | Date Collected | Measured Volatile Organic Compounds[a] | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Tetrachloro-ethene (PCE) | Trichloro-ethene (TCE) | trans-1,2-Dichloro-ethene | cis-1,2-Dichloro-ethene | 1,1-Dichloro-ethene | Vinyl Chloride | 1,1,1-Trichloro-ethane | 1,1,2-Trichloro-ethane |
| AIR-INF | 5/1/2017 | **8.00** | **192** | **0.186** | **8.54** | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-INF | 5/2/2017 | **3.4 JD** | **93.3 D** | **0.105** | **2.98 JD** | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-EFF | | <0.100 | <0.100 | <0.100 | <0.100 | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-INF | 5/3/2017 | **3.32** | **84.6** | <0.100 | **3.01** | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-MID | | <0.100 | **0.196** | <0.100 | <0.100 | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-INF | 5/5/2017 | **2.74** | **44.3 D** | <0.100 | **2.02** | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-EFF | | <0.100 | <0.100 | <0.100 | <0.100 | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-INF | 5/8/2017 | **1.47** | **31.6 D** | <0.100 | **1.19** | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-EFF | | <0.100 | <0.100 | <0.100 | <0.100 | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-INF | 5/10/2017 | **1.28** | **28.0 D** | <0.100 | **0.828** | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-EFF | | <0.100 | <0.100 | <0.100 | <0.100 | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-INF | 5/15/2017 | **0.802** | **17.2 D** | <0.100 | **0.569** | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-EFF | | <0.100 | <0.100 | <0.100 | <0.100 | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-INF | 5/19/2017 | **0.938** | **19.1 D** | <0.100 | **0.646** | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-EFF | | <0.100 | <0.100 | <0.100 | <0.100 | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-INF | 5/22/2017 | **0.709** | **13.8 D** | <0.100 | **0.480** | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-EFF | | <0.100 | <0.100 | <0.100 | <0.100 | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-INF | 5/30/2017 | **0.756** | **15.9 D** | <0.100 | **0.464** | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-EFF | | <0.100 | <0.100 | <0.100 | <0.100 | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-INF | 6/5/2017 | **0.398** | **11.3 D** | <0.100 | **0.395** | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-EFF | | <0.100 | <0.100 | <0.100 | <0.100 | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-INF | 6/15/2017 | **0.517** | **10.7 D** | <0.100 | **0.354** | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-EFF | | <0.100 | <0.100 | <0.100 | <0.100 | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-INF | 6/30/2017 | **0.496** | **9.95 D** | <0.100 | **0.373** | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-EFF | | <0.100 | <0.100 | <0.100 | **0.697** | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-INF | 7/28/2017 | **0.470** | **9.07 D** | <0.100 | **0.328** | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-EFF | | <0.100 | **0.256** | <0.100 | **0.703** | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-EFF | 8/30/2017 | **0.362** | **6.67** | <0.100 | **0.235** | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-EFF | 9/28/2017 | **0.264** | **4.96** | <0.100 | **0.197** | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-EFF | 10/31/2017 | **0.183** | **3.63** | <0.100 | **0.122** | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-EFF | 11/27/2017 | **0.140** | **2.65** | <0.100 | <0.100 | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-EFF | 12/28/2017 | **0.111** | **1.16** | <0.100 | <0.100 | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-EFF | 1/31/2018 | **0.153** | **5.66** | <0.100 | <0.100 | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-EFF | 2/26/2018 | <0.100 | **1.66** | <0.100 | <0.100 | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-EFF | 3/28/2018 | **0.317** | **7.69** | <0.100 | **0.292** | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-EFF | 4/25/2018 | **0.185** | **2.30** | <0.100 | <0.100 | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-EFF | 6/8/2018 | **0.123** | **2.98** | <0.100 | <0.100 | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-EFF | 6/29/2018 | **0.136** | **2.84** | <0.100 | <0.100 | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-EFF | 7/24/2018 | **1.02** | **24.1 D** | <0.100 | **0.836** | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-EFF | 10/5/2018 | **0.648** | **16.4 DH** | <0.100 | **0.752** | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-EFF | 11/2/2018 | **0.346** | **10.8 D** | <0.100 | **0.348** | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-EFF | 12/18/2018 | <0.100 | **1.81** | <0.100 | <0.100 | <0.100 | <0.0200 | <0.100 | <0.100 |
| AIR-EFF | 2/8/2019 | <0.100 | **3.27** | <0.100 | <0.100 | <0.100 | <0.0200 | <0.100 | <0.100 |

Notes:
All results presented in micrograms/cubic meter (µg/L).
**Bold** Bold results exceed the laboratory reporting limit.
< Indicates concentration is less than the laboratory reporting limit.
a Analyzed in accordance with EPA Method 8260C.

Qualifiers:
D Dilution was required.
E Value above quantitation range.
H Holding times for preparation or analysis exceeded.
J Analyte detected below reporting limit.

**Table 5**
**System 2 – Summary of SVE Air Emmission Results (in µg/L)**
**Annual Groundwater Monitoring Report for 2018–2019**
**Washington Industries Environmental Remediation Trust**
**825 South Dakota Street and 812 and 820 South Adams Street, Seattle, Washington**

| Sample Identification | Date Collected | Measured Volatile Organic Compounds[a] | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Tetrachloro-ethene (PCE) | Trichloro-ethene (TCE) | trans-1,2-Dichloro-ethene | cis-1,2-Dichloro-ethene | 1,1-Dichloro-ethene | Vinyl Chloride | 1,1,1-Trichloro-ethane | 1,1,2-Trichloro-ethane |
| S2-EFF-1204A | 12/4/2017 | <0.100 | <0.0500 | <0.100 | <0.100 | <0.100 | <0.0200 | <0.100 | <0.100 |
| S2-EFF-1204B | 12/4/2017 | <0.100 | **0.276** | <0.100 | <0.100 | <0.100 | <0.0200 | <0.100 | <0.100 |
| S2-EFF-1204C | 12/4/2017 | <0.100 | **1.68** | <0.100 | **0.236** | <0.100 | <0.0200 | <0.100 | <0.100 |
| S2-EFF-1205A | 12/5/2017 | <0.100 | **1.11** | <0.100 | **0.140** | <0.100 | <0.0200 | <0.100 | <0.100 |
| S2-EFF-1205B | 12/5/2017 | <0.100 | **1.25** | <0.100 | **0.182** | <0.100 | <0.0200 | <0.100 | <0.100 |
| S2-EFF-1206A | 12/6/2017 | **0.155** | **2.16** | <0.100 | **0.252** | <0.100 | <0.0200 | <0.100 | <0.100 |
| S2-EFF-1207A | 12/7/2017 | **0.114** | **1.69** | <0.100 | **0.221** | <0.100 | <0.0200 | <0.100 | <0.100 |
| S2-EFF-1208A | 12/8/2017 | **0.293** | **2.86** | <0.100 | **0.322** | <0.100 | <0.0200 | <0.100 | <0.100 |
| S2-EFF-1211 | 12/11/2017 | **0.156** | **1.91** | <0.100 | **0.226** | <0.100 | <0.0200 | <0.100 | <0.100 |
| S2-EFF-1214 | 12/14/2017 | **0.149** | **1.68** | <0.100 | **0.175** | <0.100 | <0.0200 | <0.100 | <0.100 |
| S2-EFF-1218A | 12/18/2017 | **0.184** | **2.12** | <0.100 | **0.185** | <0.100 | <0.0200 | <0.100 | <0.100 |
| S2-EFF-1221A | 12/21/2017 | **0.218** | **1.37** | <0.100 | **0.123** | <0.100 | <0.0200 | <0.100 | <0.100 |
| S2-EFF-1228A | 12/28/2017 | <0.100 | **1.90** | <0.100 | <0.100 | <0.100 | <0.0200 | <0.100 | <0.100 |
| S2-EFF-0104 | 1/4/2018 | <0.100 | **0.742** | <0.100 | <0.100 | <0.100 | <0.0200 | <0.100 | <0.100 |
| S2-EFF-0112 | 1/12/2018 | <0.100 | **0.859** | <0.100 | <0.100 | <0.100 | <0.0200 | <0.100 | <0.100 |
| S2-EFF-0118 | 1/18/2018 | <0.100 | **0.972** | <0.100 | <0.100 | <0.100 | <0.0200 | <0.100 | <0.100 |
| S2-EFF-0226 | 2/26/2018 | <0.100 | **0.818** | <0.100 | <0.100 | <0.100 | <0.0200 | <0.100 | <0.100 |
| S2-EFF-0328 | 3/28/2018 | **0.128** | **1.74** | <0.100 | **0.153** | <0.100 | <0.0200 | <0.100 | <0.100 |
| S2-EFF-0425 | 4/25/2018 | <0.100 | **1.06** | <0.100 | <0.100 | <0.100 | <0.0200 | <0.100 | <0.100 |
| S2-EFF-0608 | 6/8/2018 | **0.221** | **2.39** | <0.100 | **0.214** | <0.100 | <0.0200 | <0.100 | <0.100 |
| S2-EFF-0629 | 6/29/2018 | **0.261** | **2.56** | <0.100 | **0.204** | <0.100 | <0.0200 | <0.100 | <0.100 |
| S2-EFF-0724 | 7/24/2018 | **0.501** | **5.25 D** | <0.100 | **0.507** | <0.100 | <0.0200 | <0.100 | <0.100 |
| S2-EFF-1005 | 10/5/2018 | **0.378** | **3.23 DH** | <0.100 | **0.454** | <0.100 | <0.0200 | <0.100 | <0.100 |
| S2-EFF-1102 | 11/2/2018 | **0.266** | **2.86** | <0.100 | **0.316** | <0.100 | <0.0200 | <0.100 | <0.100 |
| S2-EFF-1218 | 12/18/2018 | <0.100 | **0.523** | <0.100 | <0.100 | <0.100 | <0.0200 | <0.100 | <0.100 |
| S2-EFF-0208 | 2/8/2019 | <0.100 | **0.653** | <0.100 | <0.100 | <0.100 | <0.0200 | <0.100 | <0.100 |

Notes:
All results presented in micrograms/cubic meter (µg/L).
**Bold** Bold results exceed the laboratory reporting limit.
< Indicates concentration is less than the laboratory reporting limit.
a Analyzed in accordance with EPA Method 8260C.

**Table 6**
**System 1 SVE System Operation Summary**
**Annual Groundwater Monitoring Report for 2018–2019**
**Washington Industries Environmental Remediation Trust**
**825 South Dakota Street and 812 and 820 South Adams Street, Seattle, Washington**

| Date | Field Inputs | | | | Mass Removal | | | Vapor Control Efficiency | | | Vapor Control Efficiency PID Screening | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SVE Run Time Since Last Event (days)[a] | Total Flow Rate to Carbon[b] (scfm) | Influent VOC Conc. To Carbon[c] (µg/L) | Effluent VOC Conc.[d] (µg/L) | VOC Removal Rate[e] (lbs/day) | VOCs Removed During Period[f] (lbs) | Cumulative VOCs Removed[g] (lbs) | Mass Flow Rate In (lbs/day) | Mass Flow Rate Out (lbs/day) | Carbon Adsorption Control Efficiency[h] (%) | Inf-Carbon PID Reading (ppm) | Mid-Carbon PID Reading (ppmv) | Post-Carbon PID Reading (ppmv) | Carbon Adsorption Control Efficiency |
| 5/1/2017 | 0.20 | 310 | 208.730 | 0.000 | 5.9 | 2.4 | 2.4 | 5.9 | 0.0 | 100.0 | 284 | 0 | 0 | 100.0 |
| 5/2/2017 | 0.40 | 313 | 99.790 | 0.000 | 2.8 | 1.1 | 3.5 | 2.8 | 0.0 | 100.0 | 162 | 0 | 0 | 100.0 |
| 5/3/2017 | 0.30 | 305 | 90.930 | 0.200 | 2.5 | 0.7 | 4.3 | 2.5 | 0.005 | 99.8 | 111 | 0 | 0 | 100.0 |
| 5/5/2017 | 1.80 | 343 | 49.060 | 0.000 | 1.5 | 2.7 | 7.0 | 1.5 | 0.0 | 100.0 | 53 | 0 | 0 | 100.0 |
| 5/8/2017 | 2.95 | 325 | 34.260 | 0.000 | 1.0 | 2.9 | 9.9 | 1.0 | 0.0 | 100.0 | 14 | 0 | 0 | 100.0 |
| 5/10/2017 | 1.95 | 315 | 30.108 | 0.000 | 0.9 | 1.7 | 11.6 | 0.9 | 0.0 | 100.0 | 16 | 0 | 0 | 100.0 |
| 5/15/2017 | 4.96 | 326 | 18.571 | 0.000 | 0.5 | 2.7 | 14.3 | 0.5 | 0.0 | 100.0 | 13 | 1 | 0 | 100.0 |
| 5/19/2017 | 4.18 | 335 | 20.684 | 0.000 | 0.6 | 2.6 | 16.9 | 0.6 | 0.0 | 100.0 | 10 | 2 | 0 | 100.0 |
| 5/22/2017 | 2.98 | 327 | 14.989 | 0.000 | 0.4 | 1.3 | 18.2 | 0.4 | 0.0 | 100.0 | 4 | 2 | 0 | 100.0 |
| 5/30/2017 | 7.84 | 320 | 17.120 | 0.000 | 0.5 | 3.9 | 22.1 | 0.5 | 0.0 | 100.0 | 27 | 2 | 0 | 100.0 |
| 6/5/2017 | 6.00 | 321 | 12.093 | 0.000 | 0.3 | 2.1 | 24.1 | 0.3 | 0.0 | 100.0 | 18 | 10 | 0 | 100.0 |
| 6/15/2017 | 9.98 | 305 | 11.571 | 0.000 | 0.3 | 3.2 | 27.3 | 0.3 | 0.0 | 100.0 | 9 | 8 | 0 | 100.0 |
| 6/30/2017 | 14.99 | 330 | 10.819 | 0.697 | 0.3 | 4.8 | 32.1 | 0.3 | 0.3 | 93.6 | 8 | 7 | 1 | 87.5 |
| 7/28/2017 | 28.00 | 248 | 9.868 | 0.959 | 0.2 | 6.2 | 38.3 | 0.2 | 0.2 | 90.3 | 103 | 90 | 2 | 98.1 |
| 8/30/2017 | 33.00 | 330 | 7.270 | NA | 0.2 | 7.1 | 45.4 | 0.2 | 0.2 | NA | 9 | NA | NA | NA |
| 9/28/2017 | 29.00 | 335 | 5.420 | NA | 0.2 | 4.7 | 50.1 | NA | NA | NA | 1 | NA | NA | NA |
| 10/31/2017 | 31.98 | 343 | 3.940 | NA | 0.1 | 3.9 | 54.0 | NA | NA | NA | 1 | NA | NA | NA |
| 11/27/2017 | 27.00 | 356 | 2.790 | NA | 0.1 | 2.4 | 56.4 | NA | NA | NA | 3 | NA | NA | NA |
| 12/28/2017 | 31.50 | 343 | 1.270 | NA | 0.0 | 1.2 | 57.6 | NA | NA | NA | 1 | NA | NA | NA |
| 1/31/2018 | 33.50 | 383 | 5.810 | NA | 0.2 | 6.7 | 64.3 | NA | NA | NA | 2 | NA | NA | NA |
| 2/26/2018 | 26.00 | 408 | 1.660 | NA | 0.1 | 1.6 | 65.9 | NA | NA | NA | 1 | NA | NA | NA |
| 3/28/2018* | 15.00 | 404 | 8.299 | NA | 0.3 | 4.5 | 70.4 | NA | NA | NA | NA | NA | NA | NA |
| 4/25/2018 | 27.80 | 383 | 4.150 | NA | 0.1 | 4.0 | 74.4 | NA | NA | NA | NA | NA | NA | NA |
| 6/8/2018 | 43.00 | 424 | 3.103 | NA | 0.1 | 5.1 | 79.4 | NA | NA | NA | NA | NA | NA | NA |
| 6/29/2018 | 21.00 | 320 | 2.98 | NA | 0.1 | 1.8 | 81.2 | NA | NA | NA | NA | NA | NA | NA |
| 7/24/2018 | 25.00 | 310 | 25.96 | NA | 0.7 | 18.1 | 99.3 | NA | NA | NA | NA | NA | NA | NA |
| 10/5/2018 | 42.00 | 316 | 17.8 | NA | 0.5 | 21.2 | 120.5 | NA | NA | NA | NA | NA | NA | NA |
| 11/2/2018 | 28.00 | 403 | 11.49 | NA | 0.4 | 11.6 | 132.1 | NA | NA | NA | NA | NA | NA | NA |
| 12/18/2018 | 46.00 | 401.30 | 1.81 | NA | 0.1 | 3.0 | 135.1 | NA | NA | NA | NA | NA | NA | NA |
| 2/8/2019 | 52.00 | 401.90 | 3.27 | NA | 0.1 | 6.1 | 141.3 | NA | NA | NA | NA | NA | NA | NA |
| Run time | 298.51 | | | | | | | | | | | | | |

Notes:

| | |
|---|---|
| a | Days of SVE operation since last visit. |
| b | Collected from AIR-INF location, post dilution. |
| c | Collected from SVE-TOT location, post dilution. |
| d | Collected from AIR-EFF location, effluent carbon. |
| e | Calculated as: Removal rate (lbs/day) = [[flow rate(scfm)*1440 (min/day)]*[28.3(L/Ft3)*Inf. Conc (µg/L)]]/454,000,000 µg/lb |
| f | Calculated as: [GRPH Removal Rate (lbs/day) * Time Since Last Event (days)] |
| g | Calculated as: [Cumulative GRPH Removed (lbs) + GRPH Removed During Period (lbs)] |
| h | Calculated as: [(Mass flow rate In - Mass Flow rate Out)/(Mass flow rate in)] * 100 |
| SVE | Soil vapor extraction. |
| scfm | Standard cubic feet per minute. |
| VOC | Volatile organic compound. |
| Conc. | Concentration. |
| µg/L | Micrograms per liter. |
| lbs | Pounds. |
| ppm | Parts per million. |
| ppmv | Parts per million, by volume. |
| % | Percent. |
| PID | Photoionization detector. |
| NA | Not Applicable -- vapor controls removed. |

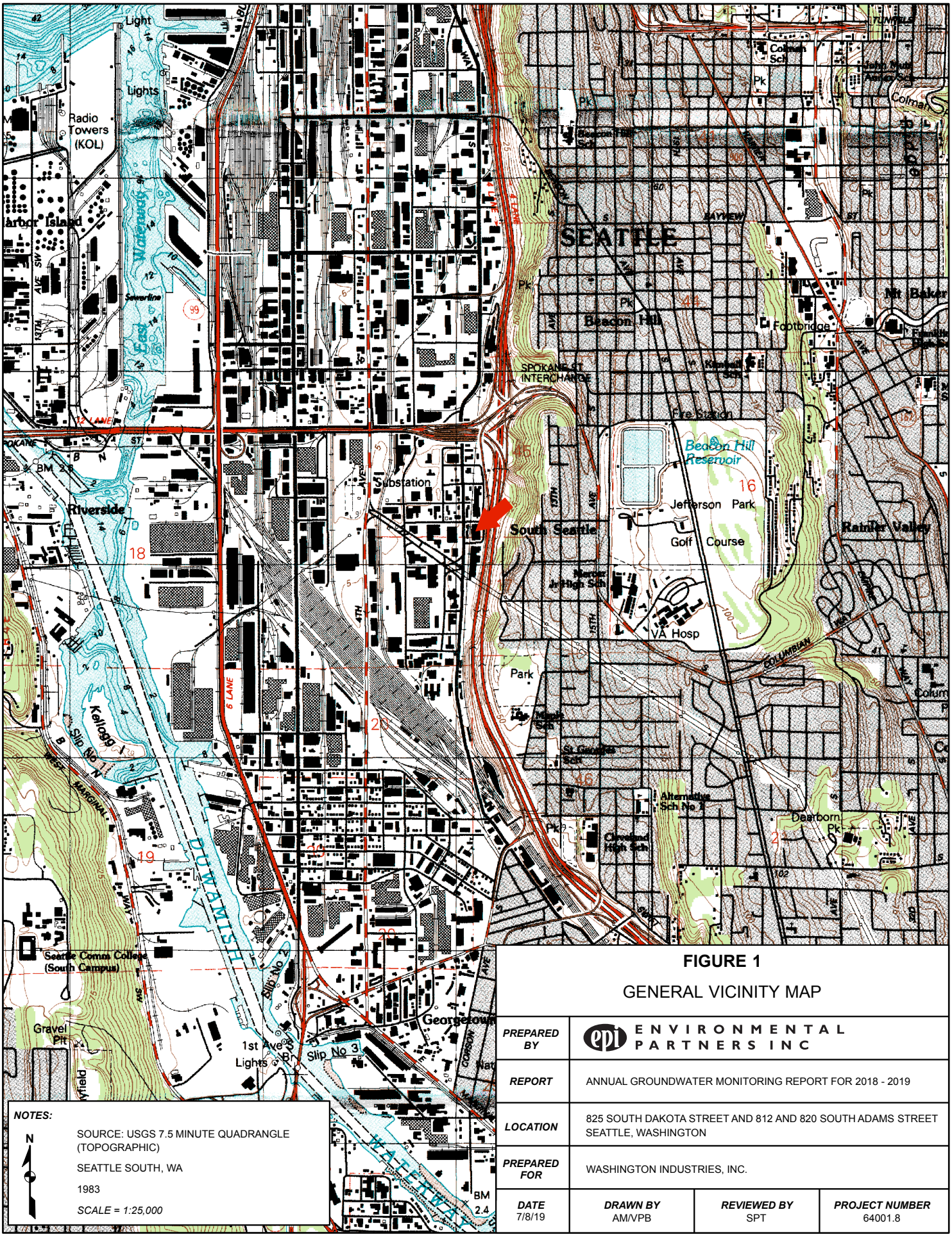
**Table 7**
**System 2 SVE System Operation Summary**
**Annual Groundwater Monitoring Report for 2018–2019**
**Washington Industries Environmental Remediation Trust**
**825 South Dakota Street and 812 and 820 South Adams Street, Seattle, Washington**

| Date | Field Inputs | | | Mass Removal | | |
|---|---|---|---|---|---|---|
| | SVE Run Time Since Last Event (days)[a] | Total Flow Rate (scfm)[b] | Effluent VOC Conc. (µg/L)[b] | VOC Removal Rate (lbs/day)[c] | VOCs Removed During Period (lbs)[d] | Cumulative VOCs Removed (lbs)[e] |
| 12/4/2017 | 0.40 | 426 | 0.276 | 0.01 | 0.00 | 0.00 |
| 12/4/2017 | 0.13 | 426 | 1.916 | 0.07 | 0.01 | 0.01 |
| 12/5/2017 | 0.79 | 427 | 1.250 | 0.05 | 0.04 | 0.05 |
| 12/5/2017 | 0.21 | 427 | 1.432 | 0.05 | 0.01 | 0.06 |
| 12/6/2017 | 0.80 | 395 | 2.567 | 0.09 | 0.07 | 0.14 |
| 12/7/2017 | 1.13 | 397 | 2.025 | 0.07 | 0.08 | 0.22 |
| 12/8/2017 | 0.88 | 399 | 3.475 | 0.12 | 0.11 | 0.33 |
| 12/11/2017 | 3.11 | 394 | 2.292 | 0.08 | 0.25 | 0.58 |
| 12/14/2017 | 3.50 | 389 | 2.004 | 0.07 | 0.24 | 0.82 |
| 12/18/2017 | 3.50 | 399 | 2.489 | 0.09 | 0.31 | 1.14 |
| 12/21/2017 | 3.20 | 390 | 1.711 | 0.06 | 0.19 | 1.33 |
| 12/28/2017 | 7.20 | 374 | 1.900 | 0.06 | 0.46 | 1.79 |
| 1/4/2018 | 6.40 | 381 | 0.742 | 0.03 | 0.16 | 1.95 |
| 1/12/2018 | 7.90 | 399 | 0.859 | 0.03 | 0.24 | 2.19 |
| 1/18/2018 | 6.25 | 406 | 0.972 | 0.04 | 0.22 | 2.41 |
| 2/26/2018 | 39.00 | 403 | 0.818 | 0.03 | 1.16 | 3.57 |
| 03/28/2018* | 15.00 | 401.90 | 2.02 | 0.07 | 1.09 | 4.66 |
| 4/25/2018 | 27.80 | 358 | 1.060 | 0.03 | 0.95 | 5.61 |
| 6/8/2018 | 43.00 | 398 | 2.825 | 0.10 | 4.34 | 9.95 |
| 6/29/2018 | 21.00 | 311 | 3.025 | 0.08 | 1.77 | 11.72 |
| 7/24/2018 | 25.00 | 261 | 6.258 | 0.15 | 3.67 | 15.39 |
| 10/5/2018 | 42.00 | 330 | 4.062 | 0.12 | 5.05 | 20.44 |
| 11/2/2018 | 28.00 | 364 | 3.442 | 0.11 | 3.15 | 23.59 |
| 12/18/2018 | 46.00 | 360 | 0.523 | 0.02 | 0.78 | 24.37 |
| 2/8/2019 | 52.00 | 408 | 0.653 | 0.02 | 1.24 | 25.61 |
| Run time | 84.40 | | | | | |

Notes:

| | |
|---|---|
| a | Days of SVE operation since last visit. |
| b | Collected from SVE-TOT location, post dilution. |
| c | Calculated as: Removal rate (lbs/day) = [[flow rate(scfm)*1440 (min/day)]*[28.3(L/Ft3)*Inf. Conc |
| d | Calculated as: [GRPH Removal Rate (lbs/day) * Time Since Last Event (days)] |
| e | Calculated as: [Cumulative GRPH Removed (lbs) + GRPH Removed During Period (lbs)] |
| SVE | Soil vapor extraction. |
| scfm | Standard cubic feet per minute. |
| VOC | Volatile organic compound. |
| Conc. | Concentration. |
| µg/L | Micrograms per liter. |
| lbs | Pounds. |
| µg/lb | Micrograms per pound. |

# Figures




**NOTES:**

N

SOURCE: USGS 7.5 MINUTE QUADRANGLE (TOPOGRAPHIC)

SEATTLE SOUTH, WA

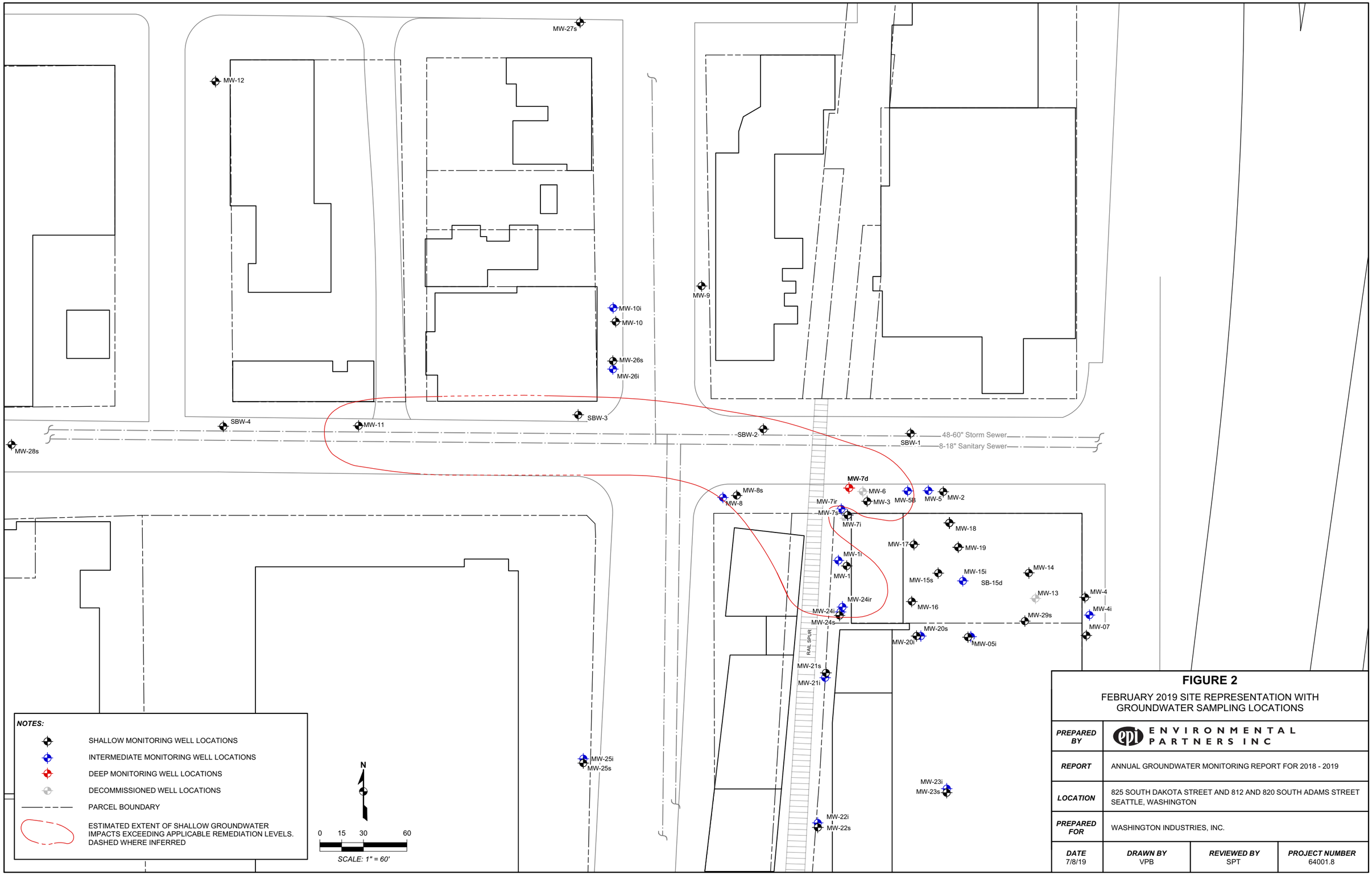
1983

*SCALE = 1:25,000*

**FIGURE 1**

GENERAL VICINITY MAP

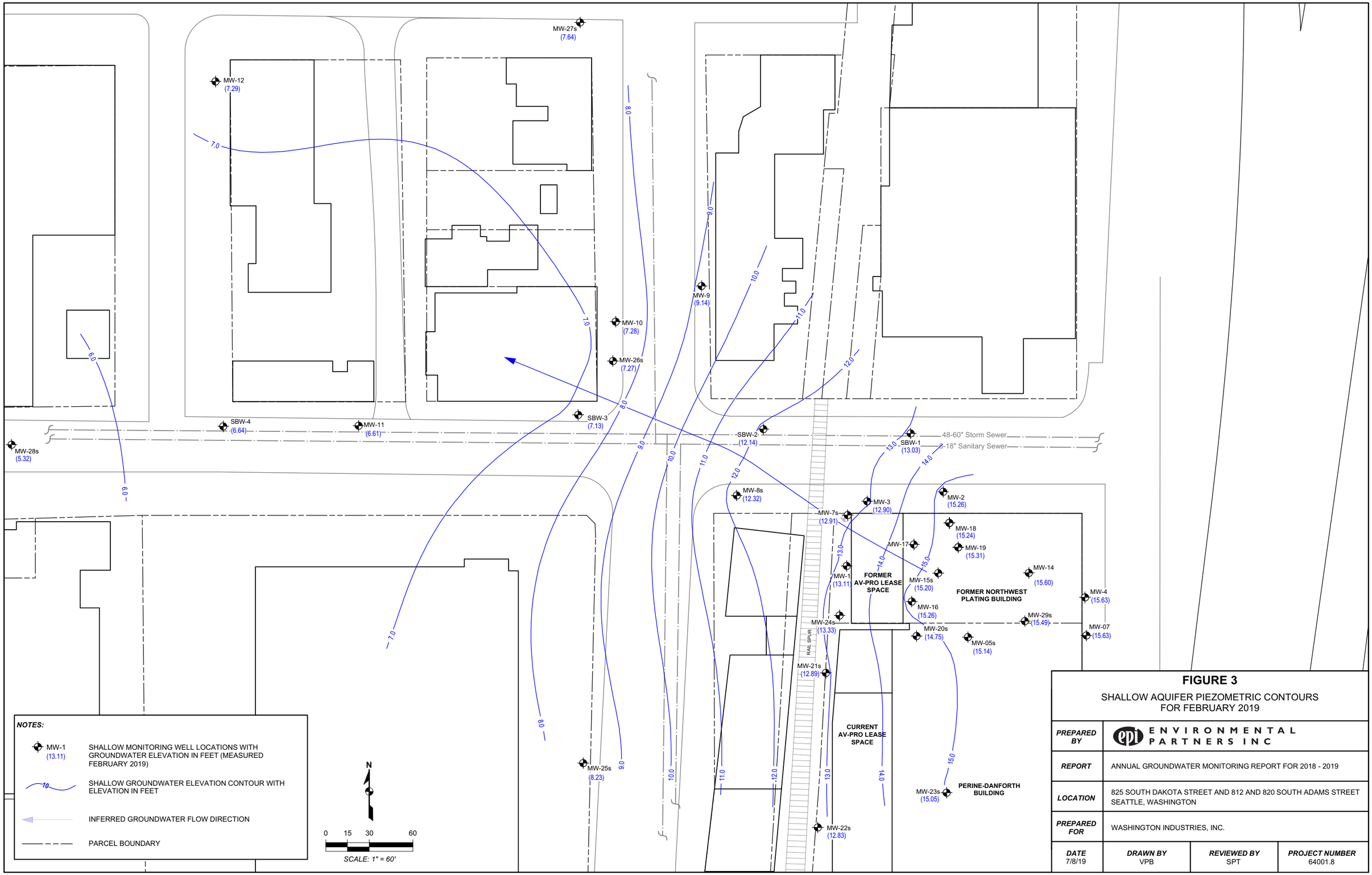
| | | | |
|---|---|---|---|
| ***PREPARED BY*** | ENVIRONMENTAL PARTNERS INC | | |
| ***REPORT*** | ANNUAL GROUNDWATER MONITORING REPORT FOR 2018 - 2019 | | |
| ***LOCATION*** | 825 SOUTH DAKOTA STREET AND 812 AND 820 SOUTH ADAMS STREET SEATTLE, WASHINGTON | | |
| ***PREPARED FOR*** | WASHINGTON INDUSTRIES, INC. | | |
| ***DATE*** 7/8/19 | ***DRAWN BY*** AM/VPB | ***REVIEWED BY*** SPT | ***PROJECT NUMBER*** 64001.8 |




# FIGURE 2

FEBRUARY 2019 SITE REPRESENTATION WITH GROUNDWATER SAMPLING LOCATIONS

| | | | |
|---|---|---|---|
| ***PREPARED BY*** | ENVIRONMENTAL PARTNERS INC | | |
| ***REPORT*** | ANNUAL GROUNDWATER MONITORING REPORT FOR 2018 - 2019 | | |
| ***LOCATION*** | 825 SOUTH DAKOTA STREET AND 812 AND 820 SOUTH ADAMS STREET SEATTLE, WASHINGTON | | |
| ***PREPARED FOR*** | WASHINGTON INDUSTRIES, INC. | | |
| ***DATE*** 7/8/19 | ***DRAWN BY*** VPB | ***REVIEWED BY*** SPT | ***PROJECT NUMBER*** 64001.8 |



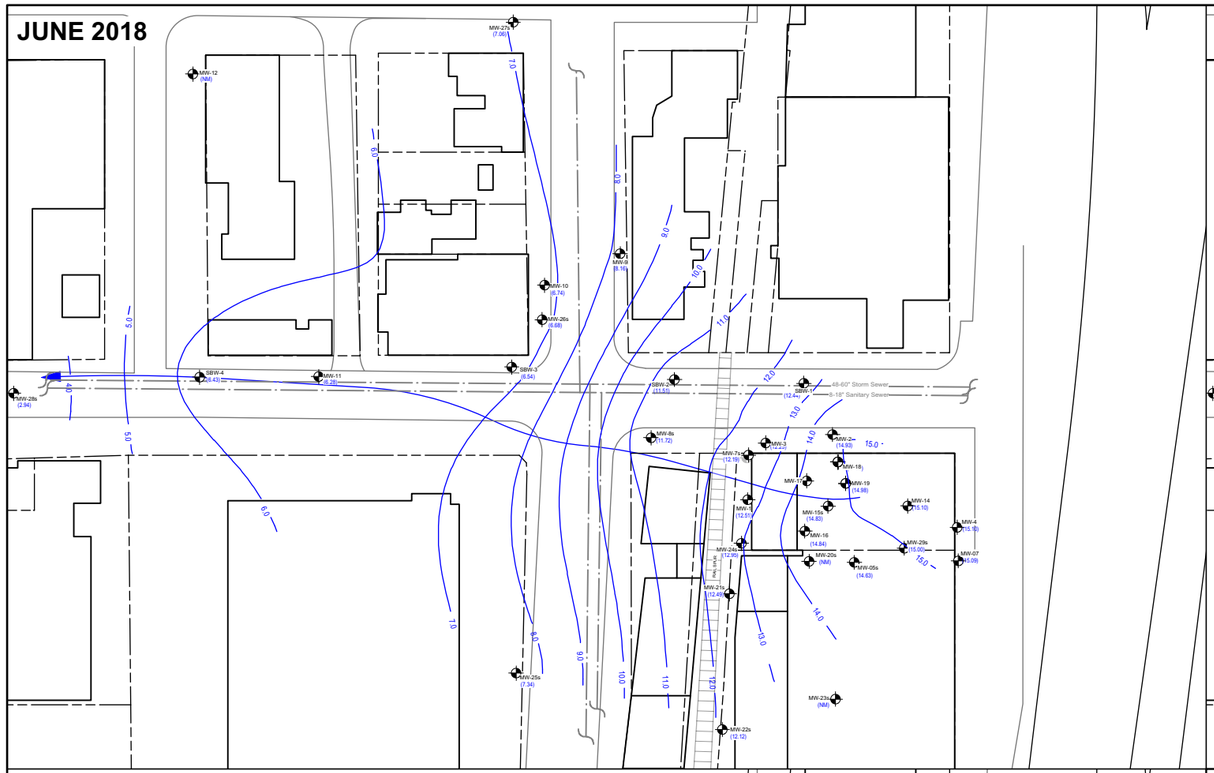

***NOTES:***

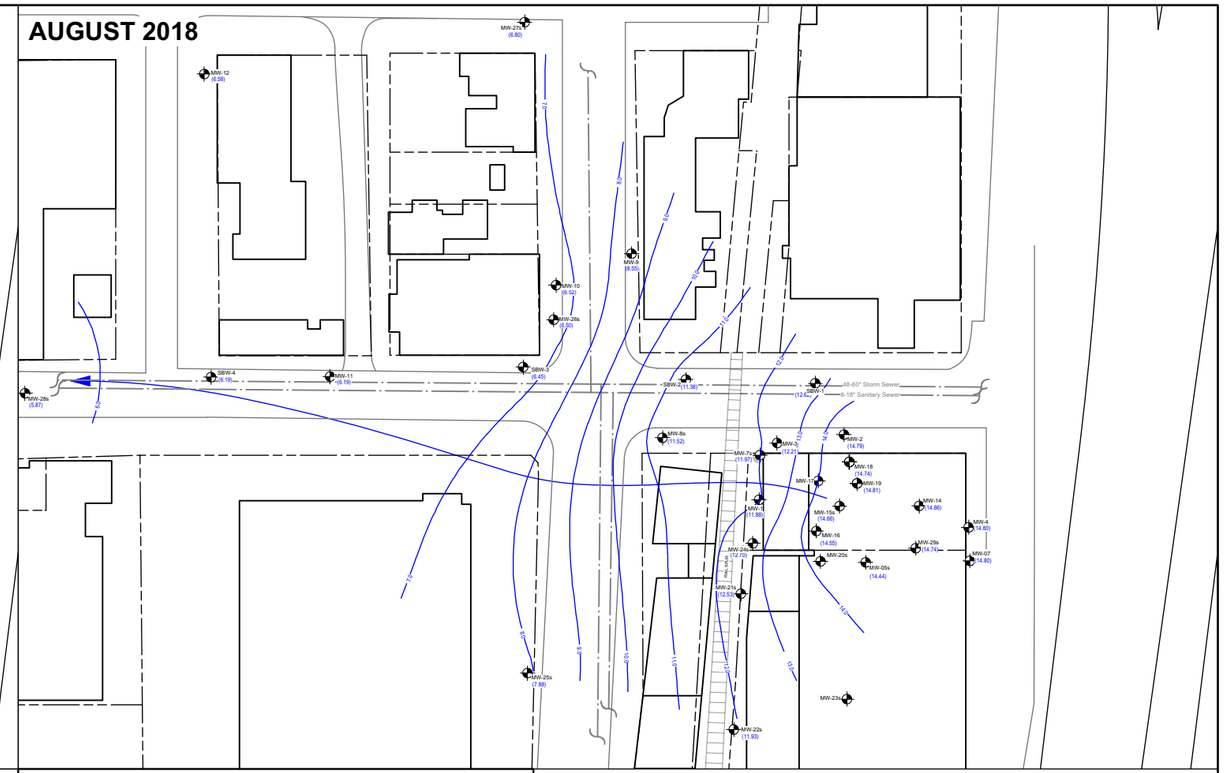
- MW-1 (13.11) — SHALLOW MONITORING WELL LOCATIONS WITH GROUNDWATER ELEVATION IN FEET (MEASURED FEBRUARY 2019)
- 10 — SHALLOW GROUNDWATER ELEVATION CONTOUR WITH ELEVATION IN FEET
- INFERRED GROUNDWATER FLOW DIRECTION
- PARCEL BOUNDARY

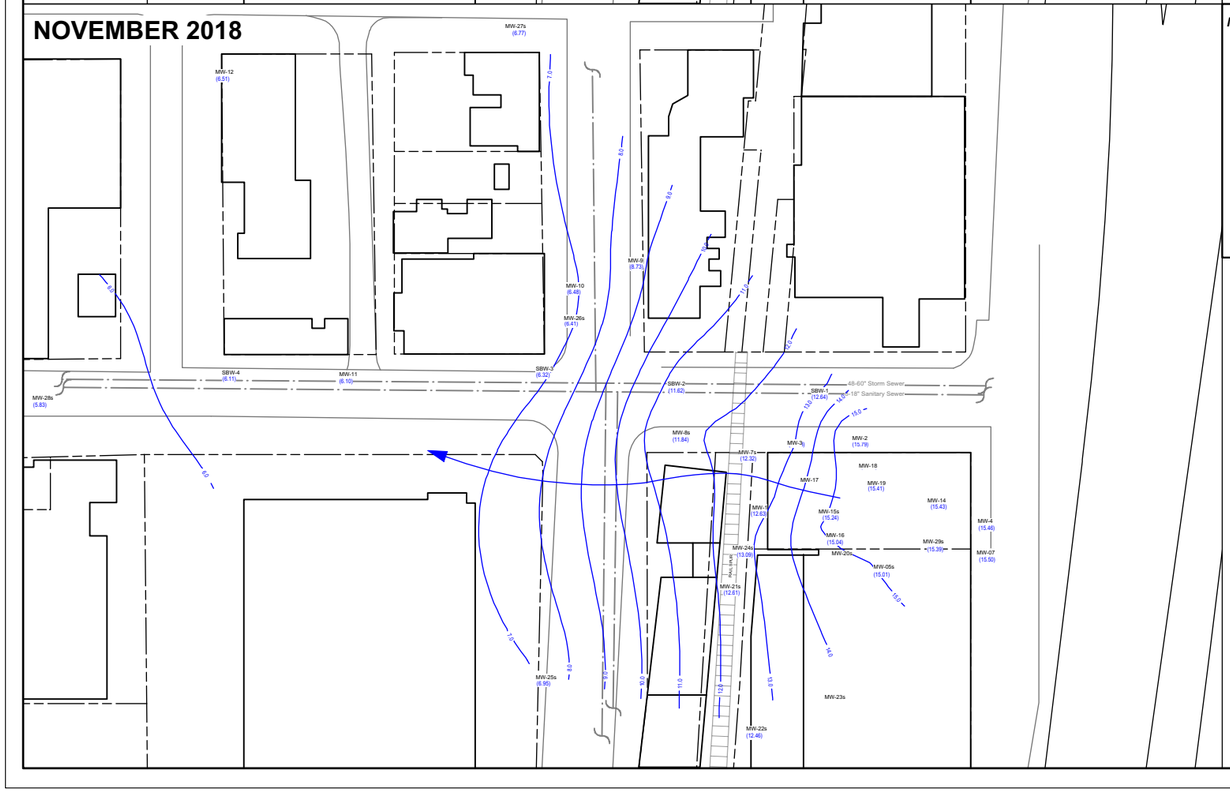
# FIGURE 3

SHALLOW AQUIFER PIEZOMETRIC CONTOURS
FOR FEBRUARY 2019

| | | | |
|---|---|---|---|
| ***PREPARED BY*** | ENVIRONMENTAL PARTNERS INC | | |
| ***REPORT*** | ANNUAL GROUNDWATER MONITORING REPORT FOR 2018 - 2019 | | |
| ***LOCATION*** | 825 SOUTH DAKOTA STREET AND 812 AND 820 SOUTH ADAMS STREET SEATTLE, WASHINGTON | | |
| ***PREPARED FOR*** | WASHINGTON INDUSTRIES, INC. | | |
| ***DATE*** 7/8/19 | ***DRAWN BY*** VPB | ***REVIEWED BY*** SPT | ***PROJECT NUMBER*** 64001.8 |




***NOTES:***

| | |
|---|---|
| MW-1 (12.51) | SHALLOW MONITORING WELL LOCATION WITH GROUNDWATER ELEVATION IN FEET |
| 10.0 | SHALLOW GROUNDWATER ELEVATION CONTOUR WITH ELEVATION IN FEET |
| | INFERRED GROUNDWATER FLOW DIRECTION |
| | PARCEL BOUNDARY |

N

0 30 60 120

*SCALE: 1" = 120'*

## FIGURE 4

SHALLOW AQUIFER PIEZOMETRIC CONTOURS
JUNE 2018 THROUGH NOVEMBER 2018

| | | | |
|---|---|---|---|
| ***PREPARED BY*** | ENVIRONMENTAL PARTNERS INC | | |
| ***REPORT*** | ANNUAL GROUNDWATER MONITORING REPORT FOR 2018 - 2019 | | |
| ***LOCATION*** | 825 SOUTH DAKOTA STREET AND 812 AND 820 SOUTH ADAMS STREET SEATTLE, WASHINGTON | | |
| ***PREPARED FOR*** | WASHINGTON INDUSTRIES, INC. | | |
| ***DATE*** 7/8/19 | ***DRAWN BY*** VPB | ***REVIEWED BY*** SPT | ***PROJECT NUMBER*** 64001.8 |

MW-10i
(7.91)

MW-26i
(8.64)

9.0
10.0
11.0
12.0
13.0
14.0
15.0
16.0

48-60" Storm Sewer
8-18" Sanitary Sewer

MW-8
(14.58)

MW-7ir

MW-7i
(15.56)

MW-1i
(15.93)

MW-5B
(17.06)

MW-5

MW-15i
(18.04)

MW-24ir

MW-24i
(17.31)

MW-4i
(18.30)

RAIL SPUR

MW-20i
(17.00)

MW-05i
(16.81)

MW-21i
(16.00)

MW-25i
(11.57)

MW-23i
(16.28)

MW-22i
(14.86)

**NOTES:**

| | |
|---|---|
| MW-25i (11.57) | INTERMEDIATE MONITORING WELL LOCATION WITH GROUNDWATER ELEVATION IN FEET (MEASURED FEBRUARY 2019) |
| (NM) | NOT MEASURED |
| MW-7i | ABANDONED INTERMEDIATE MONITORING WELL LOCATION |
| 10.0 | INTERMEDIATE GROUNDWATER ELEVATION CONTOUR WITH ELEVATION IN FEET |
| | INFERRED GROUNDWATER FLOW DIRECTION |
| | PARCEL BOUNDARY |

N

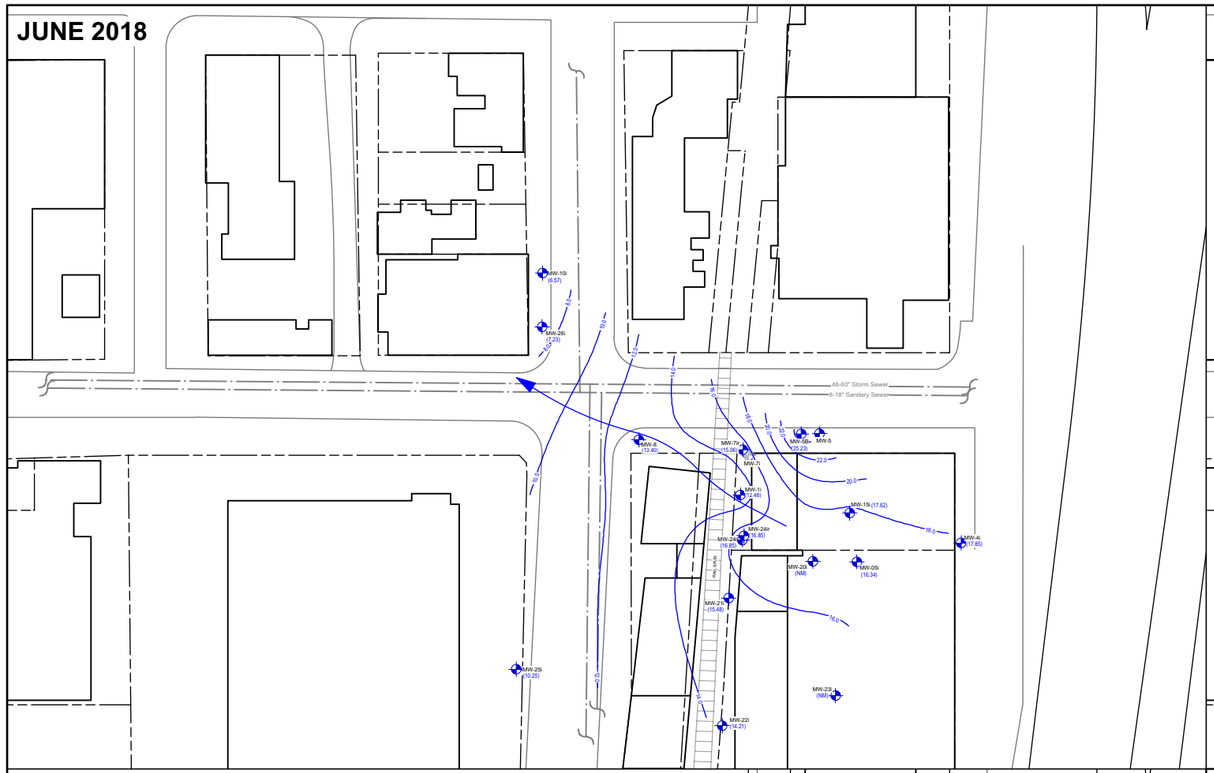
0 15 30 60

SCALE: 1" = 60'

# FIGURE 5

INTERMEDIATE AQUIFER PIEZOMETRIC CONTOURS
FOR FEBRUARY 2019

| | | | |
|---|---|---|---|
| ***PREPARED BY*** | epi ENVIRONMENTAL PARTNERS INC | | |
| ***REPORT*** | ANNUAL GROUNDWATER MONITORING REPORT FOR 2018 - 2019 | | |
| ***LOCATION*** | 825 SOUTH DAKOTA STREET AND 812 AND 820 SOUTH ADAMS STREET SEATTLE, WASHINGTON | | |
| ***PREPARED FOR*** | WASHINGTON INDUSTRIES, INC. | | |
| ***DATE*** 7/8/19 | ***DRAWN BY*** VPB | ***REVIEWED BY*** SPT | ***PROJECT NUMBER*** 64001.8 |




***NOTES:***

| | |
|---|---|
| MW-25i (10.25) | INTERMEDIATE MONITORING WELL LOCATION WITH GROUNDWATER ELEVATION IN FEET |
| (NM) | NOT MEASURED |
| MW-7i | ABANDONED INTERMEDIATE MONITORING WELL LOCATION |
| 10.0 | INTERMEDIATE GROUNDWATER ELEVATION CONTOUR WITH ELEVATION IN FEET |
| | INFERRED GROUNDWATER FLOW DIRECTION |
| | PARCEL BOUNDARY |

N

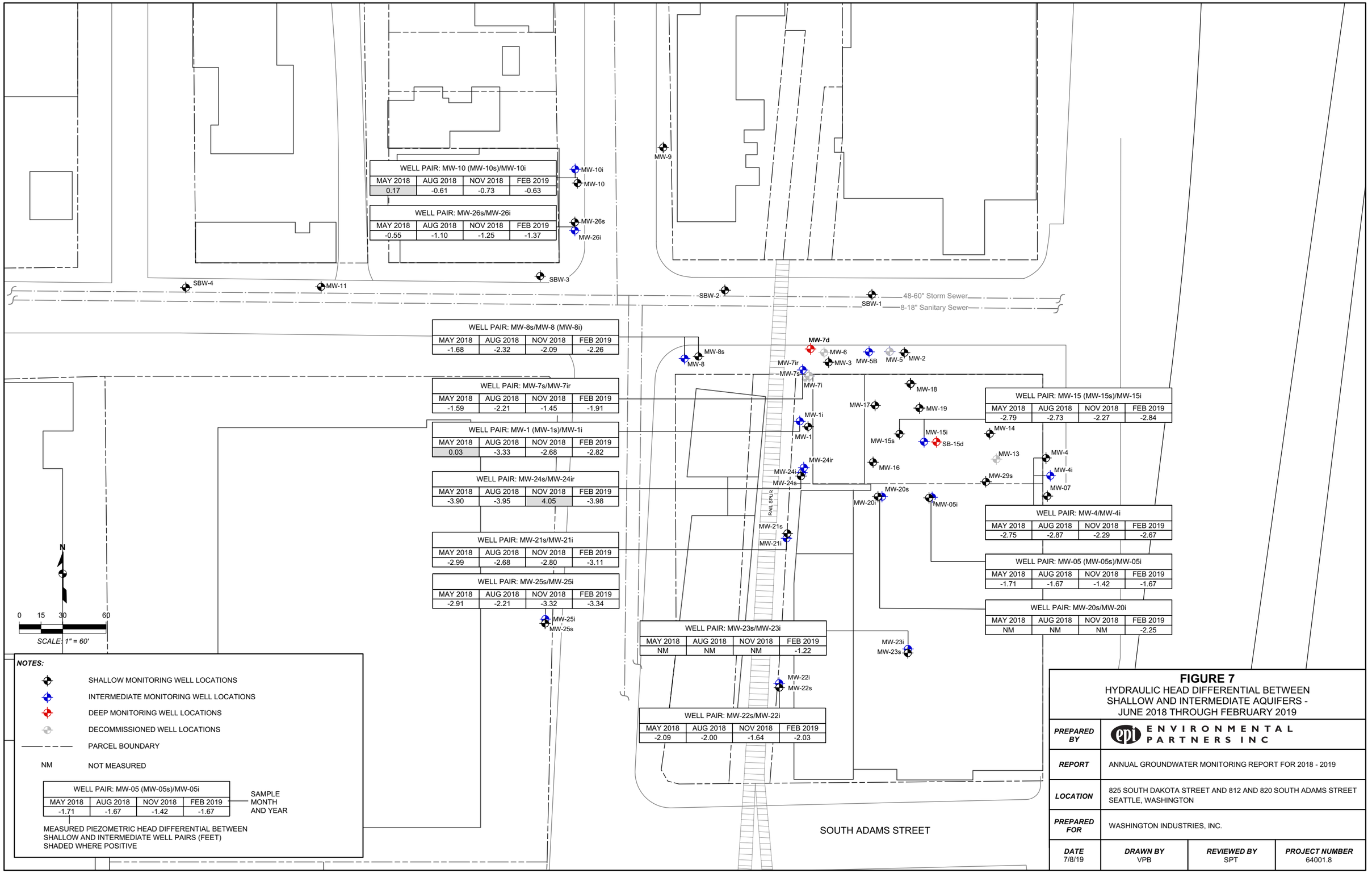
0 30 60 120

*SCALE: 1" = 120'*

# FIGURE 6

INTERMEDIATE AQUIFER PIEZOMETRIC CONTOURS
JUNE 2018 THROUGH NOVEMBER 2018

| | | | |
|---|---|---|---|
| ***PREPARED BY*** | ENVIRONMENTAL PARTNERS INC | | |
| ***REPORT*** | ANNUAL GROUNDWATER MONITORING REPORT FOR 2018 - 2019 | | |
| ***LOCATION*** | 825 SOUTH DAKOTA STREET AND 812 AND 820 SOUTH ADAMS STREET SEATTLE, WASHINGTON | | |
| ***PREPARED FOR*** | WASHINGTON INDUSTRIES, INC. | | |
| ***DATE*** 7/8/19 | ***DRAWN BY*** VPB | ***REVIEWED BY*** SPT | ***PROJECT NUMBER*** 64001.8 |

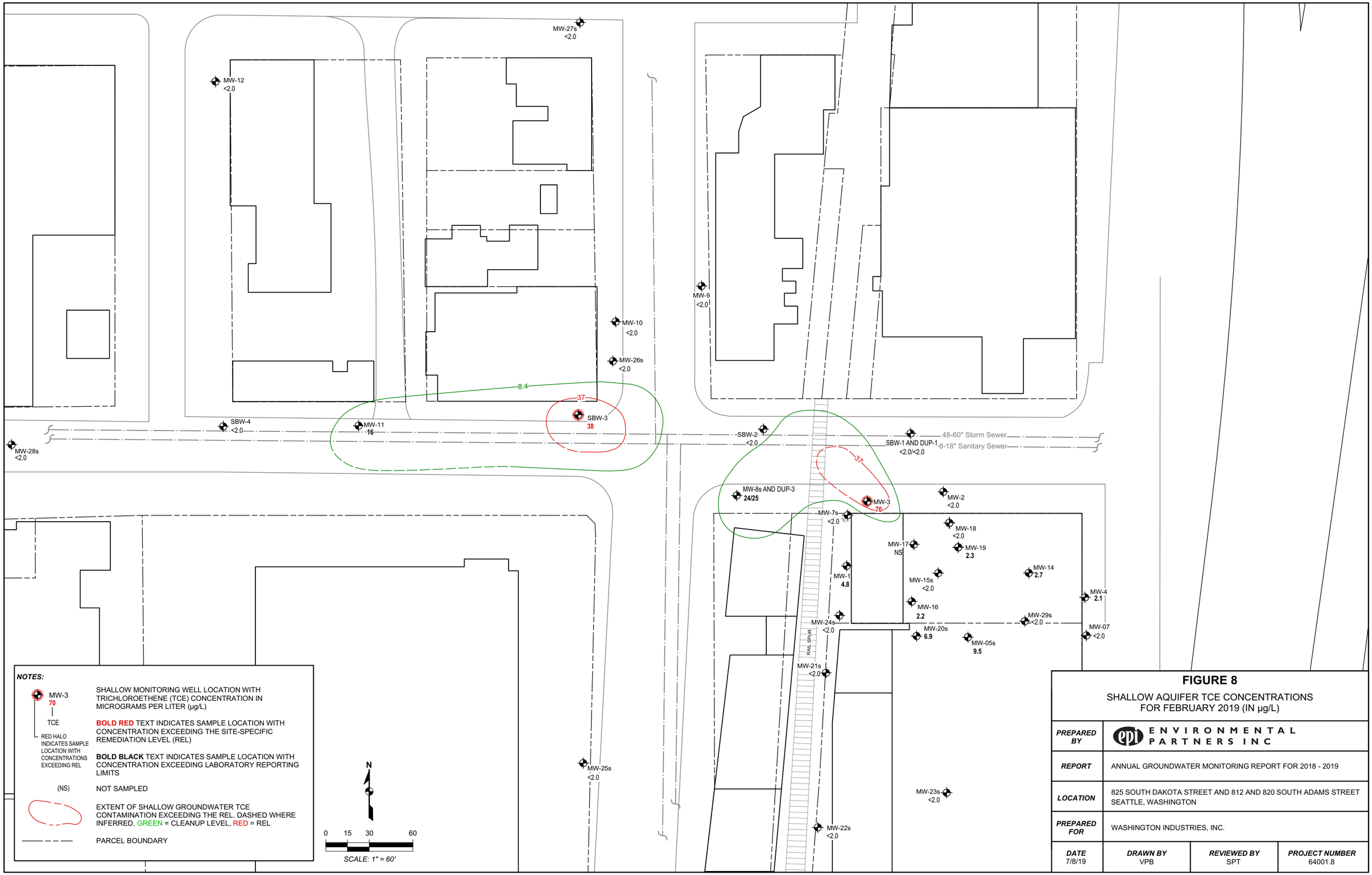



# FIGURE 7

HYDRAULIC HEAD DIFFERENTIAL BETWEEN SHALLOW AND INTERMEDIATE AQUIFERS - JUNE 2018 THROUGH FEBRUARY 2019

| | |
|---|---|
| ***PREPARED BY*** | ENVIRONMENTAL PARTNERS INC |
| ***REPORT*** | ANNUAL GROUNDWATER MONITORING REPORT FOR 2018 - 2019 |
| ***LOCATION*** | 825 SOUTH DAKOTA STREET AND 812 AND 820 SOUTH ADAMS STREET SEATTLE, WASHINGTON |
| ***PREPARED FOR*** | WASHINGTON INDUSTRIES, INC. |

| ***DATE*** | ***DRAWN BY*** | ***REVIEWED BY*** | ***PROJECT NUMBER*** |
|---|---|---|---|
| 7/8/19 | VPB | SPT | 64001.8 |




***NOTES:***

MW-3
70
TCE
RED HALO INDICATES SAMPLE LOCATION WITH CONCENTRATIONS EXCEEDING REL

SHALLOW MONITORING WELL LOCATION WITH TRICHLOROETHENE (TCE) CONCENTRATION IN MICROGRAMS PER LITER (µg/L)

**BOLD RED** TEXT INDICATES SAMPLE LOCATION WITH CONCENTRATION EXCEEDING THE SITE-SPECIFIC REMEDIATION LEVEL (REL)

**BOLD BLACK** TEXT INDICATES SAMPLE LOCATION WITH CONCENTRATION EXCEEDING LABORATORY REPORTING LIMITS

(NS) NOT SAMPLED

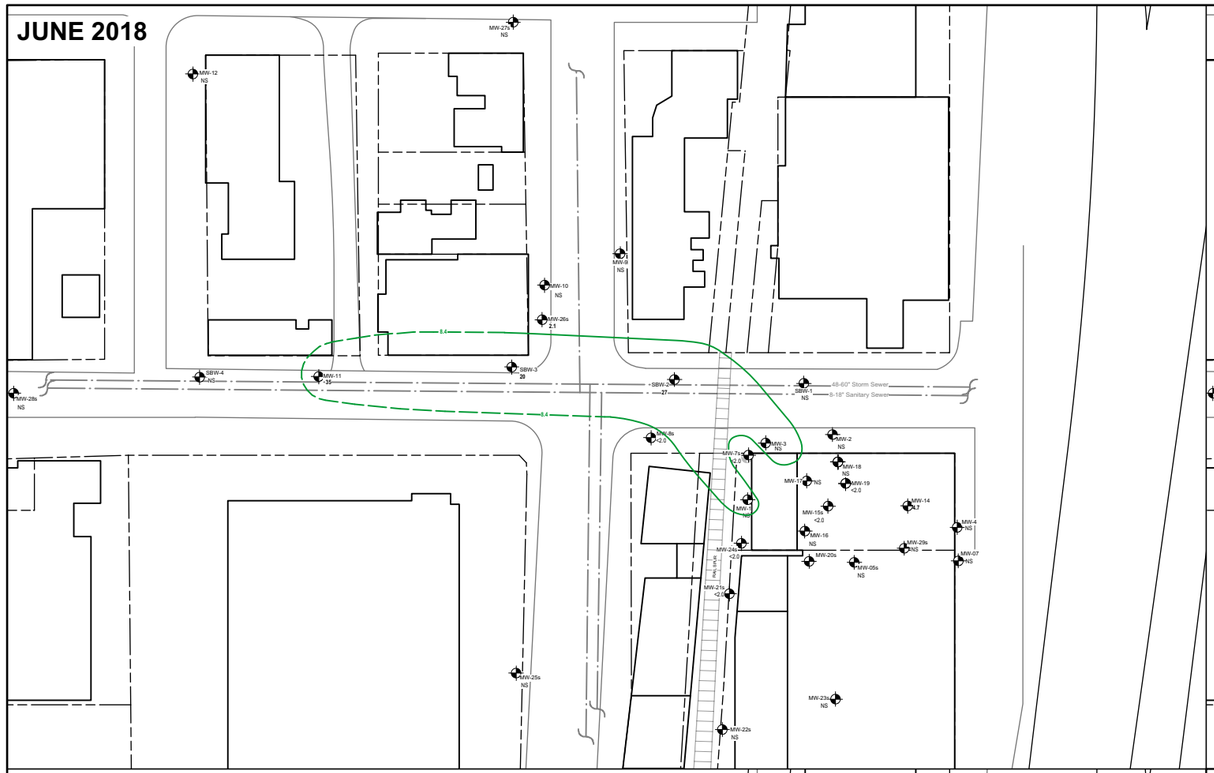
EXTENT OF SHALLOW GROUNDWATER TCE CONTAMINATION EXCEEDING THE REL. DASHED WHERE INFERRED. GREEN = CLEANUP LEVEL, RED = REL

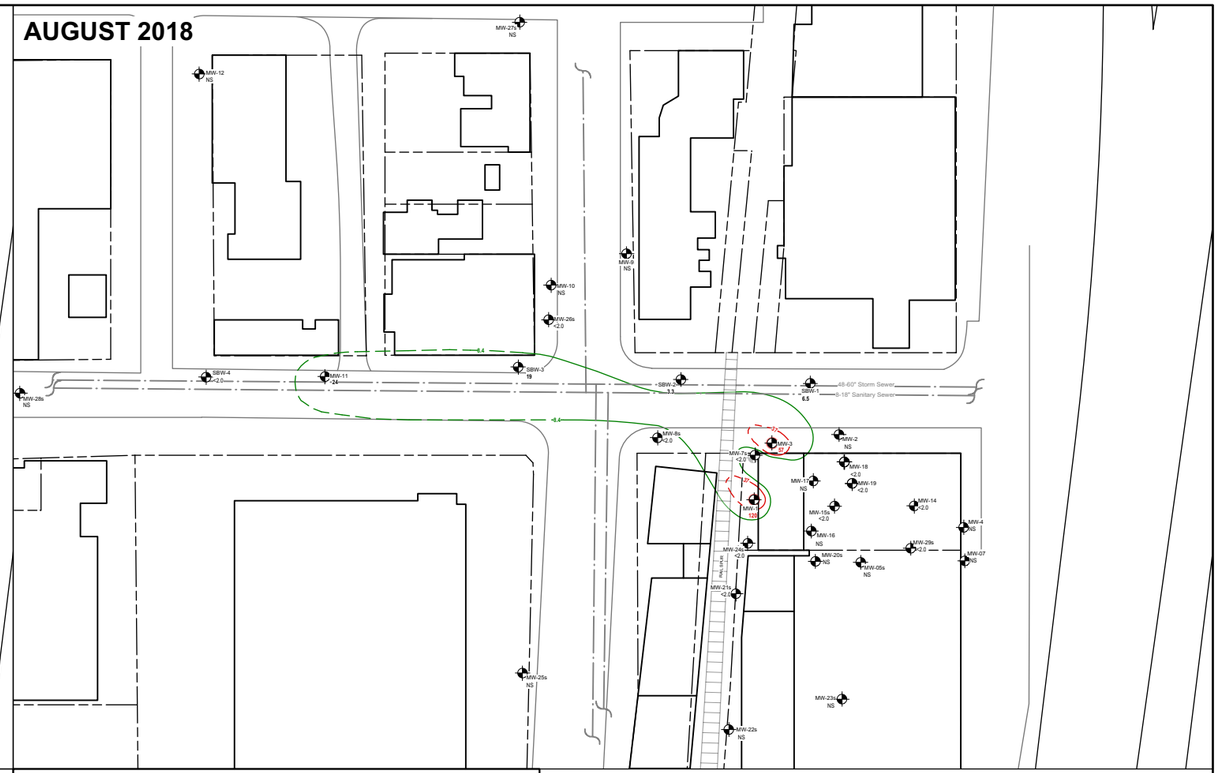
PARCEL BOUNDARY

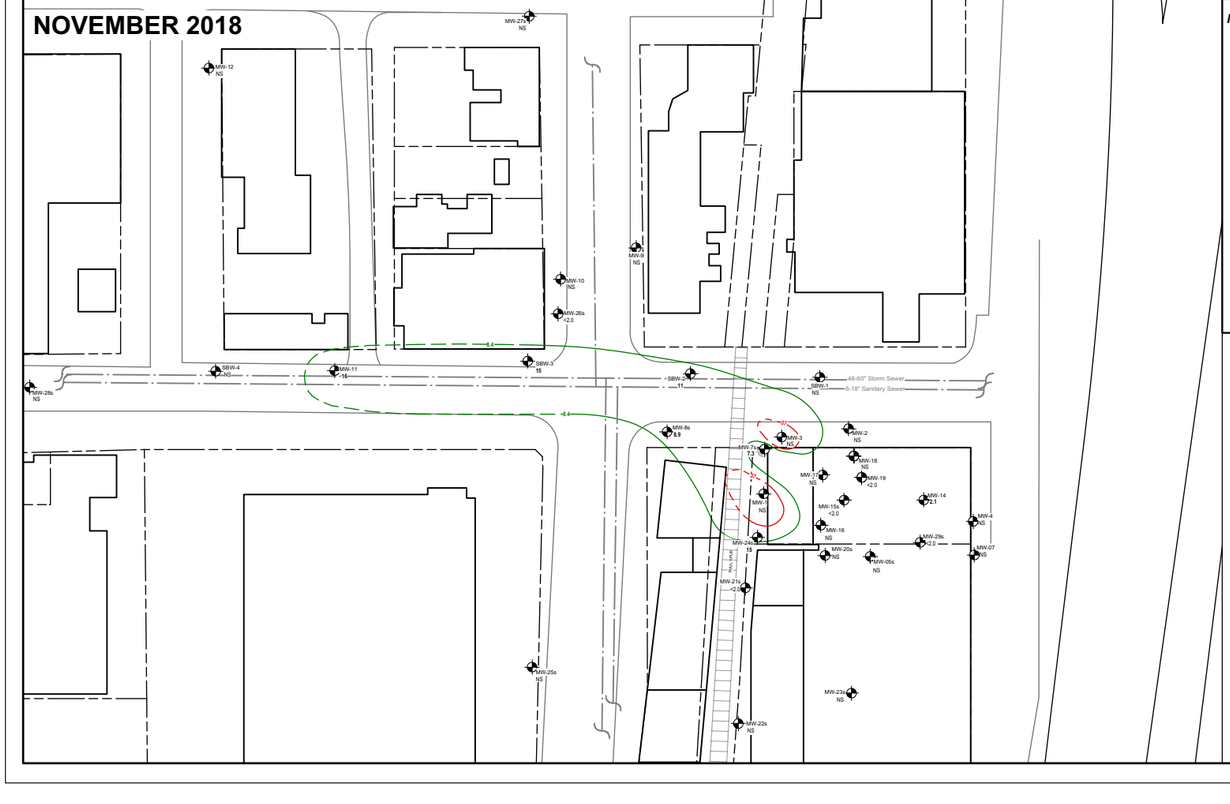
# FIGURE 8

SHALLOW AQUIFER TCE CONCENTRATIONS
FOR FEBRUARY 2019 (IN µg/L)

| | | | |
|---|---|---|---|
| ***PREPARED BY*** | ENVIRONMENTAL PARTNERS INC | | |
| ***REPORT*** | ANNUAL GROUNDWATER MONITORING REPORT FOR 2018 - 2019 | | |
| ***LOCATION*** | 825 SOUTH DAKOTA STREET AND 812 AND 820 SOUTH ADAMS STREET SEATTLE, WASHINGTON | | |
| ***PREPARED FOR*** | WASHINGTON INDUSTRIES, INC. | | |
| ***DATE*** 7/8/19 | ***DRAWN BY*** VPB | ***REVIEWED BY*** SPT | ***PROJECT NUMBER*** 64001.8 |




***NOTES:***

MW-3 / 57 / TCE — SHALLOW MONITORING WELL LOCATION WITH TRICHLOROETHENE (TCE) CONCENTRATION IN MICROGRAMS PER LITER (µg/L)

RED HALO INDICATES SAMPLE LOCATION WITH CONCENTRATIONS EXCEEDING REL — **BOLD RED** TEXT INDICATES SAMPLE LOCATION WITH CONCENTRATION EXCEEDING THE SITE-SPECIFIC REMEDIATION LEVEL (REL)

**BOLD BLACK** TEXT INDICATES SAMPLE LOCATION WITH CONCENTRATION EXCEEDING LABORATORY REPORTING LIMITS

NS — NOT SAMPLED

EXTENT OF SHALLOW GROUNDWATER TCE CONTAMINATION EXCEEDING THE REL. DASHED WHERE INFERRED. GREEN = CLEANUP LEVEL, RED = REL

PARCEL BOUNDARY

N

0 30 60 120

*SCALE: 1" = 120'*

# FIGURE 9

SHALLOW AQUIFER TCE CONCENTRATIONS
JUNE 2018 THROUGH NOVEMBER 2018

| | | | |
|---|---|---|---|
| ***PREPARED BY*** | ENVIRONMENTAL PARTNERS INC | | |
| ***REPORT*** | ANNUAL GROUNDWATER MONITORING REPORT FOR 2018 - 2019 | | |
| ***LOCATION*** | 825 SOUTH DAKOTA STREET AND 812 AND 820 SOUTH ADAMS STREET SEATTLE, WASHINGTON | | |
| ***PREPARED FOR*** | WASHINGTON INDUSTRIES, INC. | | |
| ***DATE*** 7/8/19 | ***DRAWN BY*** VPB | ***REVIEWED BY*** SPT | ***PROJECT NUMBER*** 64001.8 |

## DECEMBER 2016
**ERD INJECTION**

1,000 µg/L
1,930 FT²
100 µg/L
21,480 FT²
37 µg/L
43,660 FT²
8.4 µg/L
57,000 FT²

## MARCH 2017

100 µg/L
23,750 FT²
37 µg/L
43,400 FT²
8.4 µg/L
58,565 FT²

## MAY 2017
**SVE SYSTEM 1 STARTUP**

100 µg/L
21,575 FT²
37 µg/L
43,500 FT²
8.4 µg/L
57,600 FT²

## AUGUST 2017
**ERD INJECTION**

100 µg/L
7,180 FT²
37 µg/L
15,075 FT²
8.4 µg/L
25,690 FT²

## NOVEMBER 2017
**SVE SYSTEM 2 STARTUP**

100 µg/L
3,855 FT²
37 µg/L
16,535 FT²
8.4 µg/L
22,875 FT²

## FEBRUARY 2018

37 µg/L
4,420 FT²
8.4 µg/L
25,820 FT²

## MAY 2018

8.4 µg/L
25,575 FT²

## AUGUST 2018

37 µg/L
1,040 FT²
8.4 µg/L
20,380 FT²

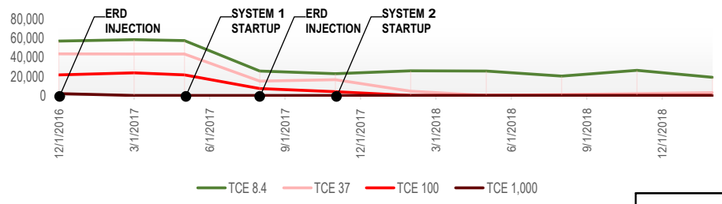
## NOVEMBER 2018

37 µg/L
1,845 FT²
8.4 µg/L
26,355 FT²

## FEBRUARY 2019

37 µg/L
2,965 FT²
8.4 µg/L
19,045 FT²

AREA OF TCE IN SHALLOW GROUNDWATER IN SQUARE FEET
FROM DECEMBER 2016 THROUGH FEBRUARY 2019




N

0 50 100 200

*SCALE: 1" = 200'*

ALL CONCENTRATIONS IN MICROGRAMS PER LITER

| | |
|---|---|
| TCE | TRICHLOROETHENE |
| FT² | SQUARE FEET |
| µg/L | MICROGRAMS PER LITER |
| ——— – – ——— | PARCEL BOUNDARY |

APPROXIMATE EXTENT OF TCE IN SHALLOW GROUNDWATER WITH CONCENTRATIONS > 8.4µg/L

APPROXIMATE EXTENT OF TCE IN SHALLOW GROUNDWATER WITH CONCENTRATIONS >37µg/L

APPROXIMATE EXTENT OF TCE IN SHALLOW GROUNDWATER WITH CONCENTRATIONS >100µg/L

APPROXIMATE EXTENT OF TCE IN SHALLOW GROUNDWATER WITH CONCENTRATIONS > 1,000 µg/L

# FIGURE 10

SHALLOW AQUIFER TCE CONCENTRATIONS
DECEMBER 2016 THROUGH FEBRUARY 2019

| | | | |
|---|---|---|---|
| ***PREPARED BY*** | EPI ENVIRONMENTAL PARTNERS INC | | |
| ***REPORT*** | ANNUAL GROUNDWATER MONITORING REPORT FOR 2018 - 2019 | | |
| ***LOCATION*** | 825 SOUTH DAKOTA STREET AND 812 AND 820 SOUTH ADAMS STREET SEATTLE, WASHINGTON | | |
| ***PREPARED FOR*** | WASHINGTON INDUSTRIES, INC. | | |
| ***DATE*** 7/8/19 | ***DRAWN BY*** VPB | ***REVIEWED BY*** SPT | ***PROJECT NUMBER*** 64001.8 |

# Attachment A
# Laboratory Analytical Reports for Groundwater

March 5, 2019

Mr. Sean Trimble
Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

Dear Mr. Trimble,

On February 26th, 39 samples were received by our laboratory and assigned our laboratory project number EV19020119. The project was identified as your 64001. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director



ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

Environmental www.alsglobal.com
RIGHT SOLUTIONS RIGHT PARTNER

ALS Environmental

## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-01 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/25/2019 12:15:00 PM |
| CLIENT SAMPLE ID | MW-05i | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 02/27/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 02/27/2019 | DLC |



ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

Environmental www.alsglobal.com
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ALS Environmental

## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-01 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/25/2019 12:15:00 PM |
| CLIENT SAMPLE ID | MW-05i | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 02/27/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **97.0** | 02/27/2019 | DLC |
| Toluene-d8 | EPA-8260 | **99.2** | 02/27/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **111** | 02/27/2019 | DLC |

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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-02 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/25/2019 12:49:00 PM |
| CLIENT SAMPLE ID | MW-23i | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 02/27/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 02/27/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-02 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/25/2019 12:49:00 PM |
| CLIENT SAMPLE ID | MW-23i | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 02/27/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **95.9** | 02/27/2019 | DLC |
| Toluene-d8 | EPA-8260 | **98.4** | 02/27/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **112** | 02/27/2019 | DLC |

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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-03 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/25/2019 1:25:00 PM |
| CLIENT SAMPLE ID | MW-23s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 02/27/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroform | EPA-8260 | **12** | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 02/27/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |



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| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-03 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/25/2019 1:25:00 PM |
| CLIENT SAMPLE ID | MW-23s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 02/27/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **99.7** | 02/27/2019 | DLC |
| Toluene-d8 | EPA-8260 | **99.4** | 02/27/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **111** | 02/27/2019 | DLC |

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| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-04 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/25/2019 1:59:00 PM |
| CLIENT SAMPLE ID | MW-20i | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 02/27/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 02/27/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-04 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/25/2019 1:59:00 PM |
| CLIENT SAMPLE ID | MW-20i | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 02/27/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **94.4** | 02/27/2019 | DLC |
| Toluene-d8 | EPA-8260 | **98.7** | 02/27/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **112** | 02/27/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-05 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 8:15:00 AM |
| CLIENT SAMPLE ID | MW-28s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Vinyl Chloride | EPA-8260 | **0.21** | 0.20 | 1 | UG/L | 02/27/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 02/27/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |



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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-05 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 8:15:00 AM |
| CLIENT SAMPLE ID | MW-28s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 02/27/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **100** | 02/27/2019 | DLC |
| Toluene-d8 | EPA-8260 | **99.5** | 02/27/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **107** | 02/27/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

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| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-06 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 8:20:00 AM |
| CLIENT SAMPLE ID | SBW-4 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 02/27/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 02/27/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |



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| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-06 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 8:20:00 AM |
| CLIENT SAMPLE ID | SBW-4 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 02/27/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **98.6** | 02/27/2019 | DLC |
| Toluene-d8 | EPA-8260 | **98.2** | 02/27/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **109** | 02/27/2019 | DLC |

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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-07 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 8:27:00 AM |
| CLIENT SAMPLE ID | MW-12 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 02/27/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 02/27/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-07 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 8:27:00 AM |
| CLIENT SAMPLE ID | MW-12 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 02/27/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **97.9** | 02/27/2019 | DLC |
| Toluene-d8 | EPA-8260 | **99.0** | 02/27/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **108** | 02/27/2019 | DLC |

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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-08 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 8:33:00 AM |
| CLIENT SAMPLE ID | MW-27s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 02/27/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroform | EPA-8260 | **2.0** | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 02/27/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-08 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 8:33:00 AM |
| CLIENT SAMPLE ID | MW-27s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 02/27/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **99.1** | 02/27/2019 | DLC |
| Toluene-d8 | EPA-8260 | **98.1** | 02/27/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **107** | 02/27/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-09 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 8:40:00 AM |
| CLIENT SAMPLE ID | MW-11 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 02/27/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **25** | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichloroethene | EPA-8260 | **16** | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 02/27/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-09 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 8:40:00 AM |
| CLIENT SAMPLE ID | MW-11 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 02/27/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chromium (VI) | EPA-7196 | U | 10 | 1 | UG/L | 02/26/2019 | RAL |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **92.0** | 02/27/2019 | DLC |
| Toluene-d8 | EPA-8260 | **98.9** | 02/27/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **107** | 02/27/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-10 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 8:50:00 AM |
| CLIENT SAMPLE ID | MW-10i | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 02/27/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 02/27/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |



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| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-10 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 8:50:00 AM |
| CLIENT SAMPLE ID | MW-10i | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 02/27/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **101** | 02/27/2019 | DLC |
| Toluene-d8 | EPA-8260 | **98.9** | 02/27/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **99.8** | 02/27/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-11 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 8:57:00 AM |
| CLIENT SAMPLE ID | MW-10 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Vinyl Chloride | EPA-8260 | **2.0** | 0.20 | 1 | UG/L | 02/27/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 02/27/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |



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| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-11 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 8:57:00 AM |
| CLIENT SAMPLE ID | MW-10 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 02/27/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **101** | 02/27/2019 | DLC |
| Toluene-d8 | EPA-8260 | **99.2** | 02/27/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **104** | 02/27/2019 | DLC |

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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE: | 3/5/2019 |
| | | ALS JOB#: | EV19020119 |
| | | ALS SAMPLE#: | EV19020119-12 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 9:00:00 AM |
| CLIENT SAMPLE ID | MW-26s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Vinyl Chloride | EPA-8260 | **1.9** | 0.20 | 1 | UG/L | 02/27/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **19** | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 02/27/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-12 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 9:00:00 AM |
| CLIENT SAMPLE ID | MW-26s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 02/27/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **98.6** | 02/27/2019 | DLC |
| Toluene-d8 | EPA-8260 | **98.4** | 02/27/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **103** | 02/27/2019 | DLC |

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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-13 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 9:05:00 AM |
| CLIENT SAMPLE ID | MW-26i | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 02/27/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 02/27/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-13 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 9:05:00 AM |
| CLIENT SAMPLE ID | MW-26i | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 02/27/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **96.7** | 02/27/2019 | DLC |
| Toluene-d8 | EPA-8260 | **98.9** | 02/27/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **98.3** | 02/27/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-14 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 9:10:00 AM |
| CLIENT SAMPLE ID | MW-25s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 02/27/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroform | EPA-8260 | **2.9** | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 02/27/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-14 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 9:10:00 AM |
| CLIENT SAMPLE ID | MW-25s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 02/27/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **98.5** | 02/27/2019 | DLC |
| Toluene-d8 | EPA-8260 | **98.9** | 02/27/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **103** | 02/27/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-15 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 9:12:00 AM |
| CLIENT SAMPLE ID | MW-25i | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 02/27/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 02/27/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |



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| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-15 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 9:12:00 AM |
| CLIENT SAMPLE ID | MW-25i | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 02/27/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **98.6** | 02/27/2019 | DLC |
| Toluene-d8 | EPA-8260 | **98.8** | 02/27/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **103** | 02/27/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-16 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 9:38:00 AM |
| CLIENT SAMPLE ID | MW-21s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 02/27/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 02/27/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-16 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 9:38:00 AM |
| CLIENT SAMPLE ID | MW-21s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 02/27/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **97.4** | 02/27/2019 | DLC |
| Toluene-d8 | EPA-8260 | **98.0** | 02/27/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **105** | 02/27/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-17 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 9:40:00 AM |
| CLIENT SAMPLE ID | MW-21i | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 02/27/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 02/27/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-17 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 9:40:00 AM |
| CLIENT SAMPLE ID | MW-21i | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 02/27/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **101** | 02/27/2019 | DLC |
| Toluene-d8 | EPA-8260 | **98.7** | 02/27/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **102** | 02/27/2019 | DLC |

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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-18 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 9:46:00 AM |
| CLIENT SAMPLE ID | MW-22s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 02/27/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 02/27/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 02/27/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-18 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 9:46:00 AM |
| CLIENT SAMPLE ID | MW-22s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 02/27/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/27/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **95.9** | 02/27/2019 | DLC |
| Toluene-d8 | EPA-8260 | **99.1** | 02/27/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **101** | 02/27/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-19 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 9:48:00 AM |
| CLIENT SAMPLE ID | MW-22i | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 02/28/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 02/28/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 02/28/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-19 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 9:48:00 AM |
| CLIENT SAMPLE ID | MW-22i | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 02/28/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **92.3** | 02/28/2019 | DLC |
| Toluene-d8 | EPA-8260 | **98.0** | 02/28/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **101** | 02/28/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-20 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 9:58:00 AM |
| CLIENT SAMPLE ID | MW-07 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 02/28/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 02/28/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 02/28/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

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| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-20 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 9:58:00 AM |
| CLIENT SAMPLE ID | MW-07 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 02/28/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **99.0** | 02/28/2019 | DLC |
| Toluene-d8 | EPA-8260 | **98.8** | 02/28/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **102** | 02/28/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-21 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 10:03:00 AM |
| CLIENT SAMPLE ID | MW-4 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 02/28/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 02/28/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trichloroethene | EPA-8260 | **2.1** | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 02/28/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-21 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 10:03:00 AM |
| CLIENT SAMPLE ID | MW-4 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 02/28/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **94.0** | 02/28/2019 | DLC |
| Toluene-d8 | EPA-8260 | **98.4** | 02/28/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **99.7** | 02/28/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-22 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 10:05:00 AM |
| CLIENT SAMPLE ID | MW-4i | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 02/28/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 02/28/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 02/28/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |



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| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-22 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 10:05:00 AM |
| CLIENT SAMPLE ID | MW-4i | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 02/28/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **93.1** | 02/28/2019 | DLC |
| Toluene-d8 | EPA-8260 | **98.0** | 02/28/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **97.9** | 02/28/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-23 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 10:11:00 AM |
| CLIENT SAMPLE ID | MW-9 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 02/28/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 02/28/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 02/28/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-23 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 10:11:00 AM |
| CLIENT SAMPLE ID | MW-9 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 02/28/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **99.1** | 02/28/2019 | DLC |
| Toluene-d8 | EPA-8260 | **97.4** | 02/28/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **94.3** | 02/28/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-24 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 10:20:00 AM |
| CLIENT SAMPLE ID | MW-8 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Vinyl Chloride | EPA-8260 | **0.76** | 0.20 | 1 | UG/L | 02/28/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 02/28/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 02/28/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-24 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 10:20:00 AM |
| CLIENT SAMPLE ID | MW-8 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 02/28/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **93.5** | 02/28/2019 | DLC |
| Toluene-d8 | EPA-8260 | **98.0** | 02/28/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **96.5** | 02/28/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-25 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 10:58:00 AM |
| CLIENT SAMPLE ID | MW-05s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 02/28/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 02/28/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trichloroethene | EPA-8260 | **9.5** | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 02/28/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |



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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-25 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 10:58:00 AM |
| CLIENT SAMPLE ID | MW-05s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 02/28/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Chromium (VI) | EPA-7196 | U | 10 | 1 | UG/L | 02/26/2019 | RAL |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **93.9** | 02/28/2019 | DLC |
| Toluene-d8 | EPA-8260 | **98.9** | 02/28/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **98.4** | 02/28/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-26 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 11:38:00 AM |
| CLIENT SAMPLE ID | MW-20s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Vinyl Chloride | EPA-8260 | **1.1** | 0.20 | 1 | UG/L | 02/28/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 02/28/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **13** | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trichloroethene | EPA-8260 | **6.9** | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 02/28/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-26 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 11:38:00 AM |
| CLIENT SAMPLE ID | MW-20s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 02/28/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Chromium (VI) | EPA-7196 | U | 10 | 1 | UG/L | 02/26/2019 | RAL |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **90.3** | 02/28/2019 | DLC |
| Toluene-d8 | EPA-8260 | **97.4** | 02/28/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **95.7** | 02/28/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-27 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 12:32:00 PM |
| CLIENT SAMPLE ID | MW-5B | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 02/28/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 02/28/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 02/28/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-27 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 12:32:00 PM |
| CLIENT SAMPLE ID | MW-5B | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 02/28/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **99.2** | 02/28/2019 | DLC |
| Toluene-d8 | EPA-8260 | **98.2** | 02/28/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **102** | 02/28/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-28 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 12:41:00 PM |
| CLIENT SAMPLE ID | MW-24ir | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 02/28/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 02/28/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 02/28/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |



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| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-28 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 12:41:00 PM |
| CLIENT SAMPLE ID | MW-24ir | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 02/28/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 02/28/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **96.7** | 02/28/2019 | DLC |
| Toluene-d8 | EPA-8260 | **97.7** | 02/28/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **96.6** | 02/28/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-29 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 12:46:00 PM |
| CLIENT SAMPLE ID | MW-1 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Vinyl Chloride | EPA-8260 | **7.0** | 0.20 | 1 | UG/L | 03/04/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 03/04/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **16** | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trichloroethene | EPA-8260 | **4.8** | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 03/04/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-29 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 12:46:00 PM |
| CLIENT SAMPLE ID | MW-1 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 03/04/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **98.5** | 03/04/2019 | DLC |
| Toluene-d8 | EPA-8260 | **99.7** | 03/04/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **100** | 03/04/2019 | DLC |

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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-30 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 12:54:00 PM |
| CLIENT SAMPLE ID | MW-1i | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 03/04/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 03/04/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 03/04/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-30 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 12:54:00 PM |
| CLIENT SAMPLE ID | MW-1i | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 03/04/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **98.6** | 03/04/2019 | DLC |
| Toluene-d8 | EPA-8260 | **100** | 03/04/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **100** | 03/04/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

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| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-31 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 1:00:00 PM |
| CLIENT SAMPLE ID | MW-7ir | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Vinyl Chloride | EPA-8260 | **0.58** | 0.20 | 1 | UG/L | 03/04/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 03/04/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 03/04/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-31 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 1:00:00 PM |
| CLIENT SAMPLE ID | MW-7ir | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 03/04/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **103** | 03/04/2019 | DLC |
| Toluene-d8 | EPA-8260 | **99.6** | 03/04/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **102** | 03/04/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE: | 3/5/2019 |
| | | ALS JOB#: | EV19020119 |
| | | ALS SAMPLE#: | EV19020119-32 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 1:05:00 PM |
| CLIENT SAMPLE ID | MW-7s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Vinyl Chloride | EPA-8260 | **4.5** | 0.20 | 1 | UG/L | 03/04/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 03/04/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **13** | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 03/04/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-32 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 1:05:00 PM |
| CLIENT SAMPLE ID | MW-7s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 03/04/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **102** | 03/04/2019 | DLC |
| Toluene-d8 | EPA-8260 | **99.7** | 03/04/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **97.8** | 03/04/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-33 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 1:15:00 PM |
| CLIENT SAMPLE ID | MW-29s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 03/04/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 03/04/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 03/04/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-33 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 1:15:00 PM |
| CLIENT SAMPLE ID | MW-29s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 03/04/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **100** | 03/04/2019 | DLC |
| Toluene-d8 | EPA-8260 | **99.4** | 03/04/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **99.5** | 03/04/2019 | DLC |

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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-34 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 1:20:00 PM |
| CLIENT SAMPLE ID | MW-15i | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Vinyl Chloride | EPA-8260 | **0.38** | 0.20 | 1 | UG/L | 03/04/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 03/04/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 03/04/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-34 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 1:20:00 PM |
| CLIENT SAMPLE ID | MW-15i | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 03/04/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **103** | 03/04/2019 | DLC |
| Toluene-d8 | EPA-8260 | **97.5** | 03/04/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **106** | 03/04/2019 | DLC |

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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-35 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 1:27:00 PM |
| CLIENT SAMPLE ID | MW-15s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Vinyl Chloride | EPA-8260 | **3.3** | 0.20 | 1 | UG/L | 03/04/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 03/04/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 03/04/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-35 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 1:27:00 PM |
| CLIENT SAMPLE ID | MW-15s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 03/04/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **105** | 03/04/2019 | DLC |
| Toluene-d8 | EPA-8260 | **99.0** | 03/04/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **104** | 03/04/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-36 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 1:30:00 PM |
| CLIENT SAMPLE ID | SBW-1 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 03/04/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 03/04/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 03/04/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-36 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 1:30:00 PM |
| CLIENT SAMPLE ID | SBW-1 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 03/04/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **104** | 03/04/2019 | DLC |
| Toluene-d8 | EPA-8260 | **97.9** | 03/04/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **103** | 03/04/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-37 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 1:40:00 PM |
| CLIENT SAMPLE ID | MW-16 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Vinyl Chloride | EPA-8260 | **0.24** | 0.20 | 1 | UG/L | 03/04/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 03/04/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **5.2** | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 03/04/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-37 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 1:40:00 PM |
| CLIENT SAMPLE ID | MW-16 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 03/04/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **103** | 03/04/2019 | DLC |
| Toluene-d8 | EPA-8260 | **98.1** | 03/04/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **104** | 03/04/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-38 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 |
| CLIENT SAMPLE ID | DUP-1 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 03/04/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 03/04/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 03/04/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-38 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 |
| CLIENT SAMPLE ID | DUP-1 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 03/04/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **104** | 03/04/2019 | DLC |
| Toluene-d8 | EPA-8260 | **98.0** | 03/04/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **103** | 03/04/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-39 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 |
| CLIENT SAMPLE ID | DUP-2 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Vinyl Chloride | EPA-8260 | **0.23** | 0.20 | 1 | UG/L | 03/04/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 03/04/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **4.9** | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 03/04/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/5/2019<br>EV19020119<br>EV19020119-39 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/26/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/26/2019 |
| CLIENT SAMPLE ID | DUP-2 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 03/04/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/04/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **104** | 03/04/2019 | DLC |
| Toluene-d8 | EPA-8260 | **98.7** | 03/04/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **104** | 03/04/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

CLIENT: Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 3/5/2019
ALS SDG#: EV19020119
WDOE ACCREDITATION: C601

## LABORATORY BLANK RESULTS

### MB-022719W - Batch 138276 - Water by EPA-8260

| ANALYTE | METHOD | RESULTS | UNITS | REPORTING LIMITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Chloromethane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | UG/L | 0.20 | 02/27/2019 | DLC |
| Bromomethane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Chloroethane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Acetone | EPA-8260 | U | UG/L | 25 | 02/27/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | UG/L | 5.0 | 02/27/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | UG/L | 10 | 02/27/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 2-Butanone | EPA-8260 | U | UG/L | 10 | 02/27/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Chloroform | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Benzene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Trichloroethene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Dibromomethane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | UG/L | 10 | 02/27/2019 | DLC |
| Toluene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | UG/L | 10 | 02/27/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | UG/L | 0.010 | 02/27/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |



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CERTIFICATE OF ANALYSIS

CLIENT: Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027
CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 3/5/2019
ALS SDG#: EV19020119
WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

**MB-022719W - Batch 138276 - Water by EPA-8260**

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | UG/L | 4.0 | 02/27/2019 | DLC |
| Styrene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| o-Xylene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Bromoform | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Bromobenzene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | UG/L | 10 | 02/27/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Naphthalene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.

**MB-022719W2 - Batch 138269 - Water by EPA-8260**

| ANALYTE | METHOD | RESULTS | UNITS | REPORTING LIMITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Chloromethane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | UG/L | 0.20 | 02/27/2019 | DLC |
| Bromomethane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Chloroethane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Acetone | EPA-8260 | U | UG/L | 25 | 02/27/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE: | 3/5/2019 |
| | | ALS SDG#: | EV19020119 |
| | | WDOE ACCREDITATION: | C601 |
| CLIENT CONTACT: | Sean Trimble | | |
| CLIENT PROJECT: | 64001 | | |

## LABORATORY BLANK RESULTS

### MB-022719W2 - Batch 138269 - Water by EPA-8260

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | UG/L | 5.0 | 02/27/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | UG/L | 10 | 02/27/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 2-Butanone | EPA-8260 | U | UG/L | 10 | 02/27/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Chloroform | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Benzene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Trichloroethene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Dibromomethane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | UG/L | 10 | 02/27/2019 | DLC |
| Toluene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | UG/L | 10 | 02/27/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | UG/L | 0.010 | 02/27/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | UG/L | 4.0 | 02/27/2019 | DLC |
| Styrene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| o-Xylene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Bromoform | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Bromobenzene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS SDG#:<br>WDOE ACCREDITATION: | 3/5/2019<br>EV19020119<br>C601 |
| CLIENT CONTACT: | Sean Trimble | | |
| CLIENT PROJECT: | 64001 | | |

## LABORATORY BLANK RESULTS

### MB-022719W2 - Batch 138269 - Water by EPA-8260

| | | | | | | |
|---|---|---|---|---|---|---|
| 2-Chlorotoluene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | UG/L | 10 | 02/27/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| Naphthalene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 02/27/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.

### MB-030419W2 - Batch 138344 - Water by EPA-8260

| ANALYTE | METHOD | RESULTS | UNITS | REPORTING LIMITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| Chloromethane | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | UG/L | 0.20 | 03/04/2019 | DLC |
| Bromomethane | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| Chloroethane | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| Acetone | EPA-8260 | U | UG/L | 25 | 03/04/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | UG/L | 5.0 | 03/04/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | UG/L | 10 | 03/04/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| 2-Butanone | EPA-8260 | U | UG/L | 10 | 03/04/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| Chloroform | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

CLIENT: Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027
CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 3/5/2019
ALS SDG#: EV19020119
WDOE ACCREDITATION: C601

## LABORATORY BLANK RESULTS

### MB-030419W2 - Batch 138344 - Water by EPA-8260

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| Benzene | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| Trichloroethene | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| Dibromomethane | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | UG/L | 10 | 03/04/2019 | DLC |
| Toluene | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | UG/L | 10 | 03/04/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | UG/L | 0.010 | 03/04/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | UG/L | 4.0 | 03/04/2019 | DLC |
| Styrene | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| o-Xylene | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| Bromoform | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| Bromobenzene | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE: | 3/5/2019 |
| | | ALS SDG#: | EV19020119 |
| | | WDOE ACCREDITATION: | C601 |
| CLIENT CONTACT: | Sean Trimble | | |
| CLIENT PROJECT: | 64001 | | |

## LABORATORY BLANK RESULTS

### MB-030419W2 - Batch 138344 - Water by EPA-8260

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | UG/L | 10 | 03/04/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| Naphthalene | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 03/04/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.

### MBLK-R333604 - Batch R333604 - Water by EPA-7196

| ANALYTE | METHOD | RESULTS | UNITS | REPORTING LIMITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|
| Chromium (VI) | EPA-7196 | U | UG/L | 10 | 02/26/2019 | RAL |

U - Analyte analyzed for but not detected at level above reporting limit.



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Issaquah, WA 98027

CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 3/5/2019
ALS SDG#: EV19020119
WDOE ACCREDITATION: C601

## LABORATORY CONTROL SAMPLE RESULTS

### ALS Test Batch ID: 138269 - Water by EPA-8260

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane - BS | EPA-8260 | **113** | | | 50 | 150 | 02/28/2019 | DLC |
| Dichlorodifluoromethane - BSD | EPA-8260 | **114** | **1** | | 50 | 150 | 02/28/2019 | DLC |
| Chloromethane - BS | EPA-8260 | **117** | | | 50 | 150 | 02/28/2019 | DLC |
| Chloromethane - BSD | EPA-8260 | **115** | **2** | | 50 | 150 | 02/28/2019 | DLC |
| Vinyl Chloride - BS | EPA-8260 | **102** | | | 50 | 150 | 02/28/2019 | DLC |
| Vinyl Chloride - BSD | EPA-8260 | **98.6** | **3** | | 50 | 150 | 02/28/2019 | DLC |
| Bromomethane - BS | EPA-8260 | **108** | | | 50 | 150 | 02/28/2019 | DLC |
| Bromomethane - BSD | EPA-8260 | **108** | **0** | | 50 | 150 | 02/28/2019 | DLC |
| Chloroethane - BS | EPA-8260 | **99.2** | | | 50 | 150 | 02/28/2019 | DLC |
| Chloroethane - BSD | EPA-8260 | **97.0** | **2** | | 50 | 150 | 02/28/2019 | DLC |
| Carbon Tetrachloride - BS | EPA-8260 | **108** | | | 50 | 150 | 02/28/2019 | DLC |
| Carbon Tetrachloride - BSD | EPA-8260 | **107** | **1** | | 50 | 150 | 02/28/2019 | DLC |
| Trichlorofluoromethane - BS | EPA-8260 | **113** | | | 50 | 150 | 02/28/2019 | DLC |
| Trichlorofluoromethane - BSD | EPA-8260 | **111** | **2** | | 50 | 150 | 02/28/2019 | DLC |
| Carbon Disulfide - BS | EPA-8260 | **93.3** | | | 50 | 150 | 02/28/2019 | DLC |
| Carbon Disulfide - BSD | EPA-8260 | **91.5** | **2** | | 50 | 150 | 02/28/2019 | DLC |
| Acetone - BS | EPA-8260 | **83.7** | | | 50 | 150 | 02/28/2019 | DLC |
| Acetone - BSD | EPA-8260 | **87.0** | **4** | | 50 | 150 | 02/28/2019 | DLC |
| 1,1-Dichloroethene - BS | EPA-8260 | **99.2** | | | 72.5 | 136 | 02/28/2019 | DLC |
| 1,1-Dichloroethene - BSD | EPA-8260 | **97.3** | **2** | | 72.5 | 136 | 02/28/2019 | DLC |
| Methylene Chloride - BS | EPA-8260 | **101** | | | 50 | 150 | 02/28/2019 | DLC |
| Methylene Chloride - BSD | EPA-8260 | **100** | **1** | | 50 | 150 | 02/28/2019 | DLC |
| Acrylonitrile - BS | EPA-8260 | **108** | | | 50 | 150 | 02/28/2019 | DLC |
| Acrylonitrile - BSD | EPA-8260 | **106** | **2** | | 50 | 150 | 02/28/2019 | DLC |
| Methyl T-Butyl Ether - BS | EPA-8260 | **94.0** | | | 50 | 150 | 02/28/2019 | DLC |
| Methyl T-Butyl Ether - BSD | EPA-8260 | **94.2** | **0** | | 50 | 150 | 02/28/2019 | DLC |
| Trans-1,2-Dichloroethene - BS | EPA-8260 | **97.4** | | | 50 | 150 | 02/28/2019 | DLC |
| Trans-1,2-Dichloroethene - BSD | EPA-8260 | **95.4** | **2** | | 50 | 150 | 02/28/2019 | DLC |
| 1,1-Dichloroethane - BS | EPA-8260 | **94.7** | | | 50 | 150 | 02/28/2019 | DLC |
| 1,1-Dichloroethane - BSD | EPA-8260 | **92.9** | **2** | | 50 | 150 | 02/28/2019 | DLC |
| 2-Butanone - BS | EPA-8260 | **91.1** | | | 50 | 150 | 02/28/2019 | DLC |
| 2-Butanone - BSD | EPA-8260 | **95.4** | **5** | | 50 | 150 | 02/28/2019 | DLC |
| Cis-1,2-Dichloroethene - BS | EPA-8260 | **93.0** | | | 50 | 150 | 02/28/2019 | DLC |
| Cis-1,2-Dichloroethene - BSD | EPA-8260 | **92.3** | **1** | | 50 | 150 | 02/28/2019 | DLC |
| 2,2-Dichloropropane - BS | EPA-8260 | **78.1** | | | 50 | 150 | 02/28/2019 | DLC |
| 2,2-Dichloropropane - BSD | EPA-8260 | **75.4** | **3** | | 50 | 150 | 02/28/2019 | DLC |
| Bromochloromethane - BS | EPA-8260 | **95.1** | | | 50 | 150 | 02/28/2019 | DLC |
| Bromochloromethane - BSD | EPA-8260 | **94.0** | **1** | | 50 | 150 | 02/28/2019 | DLC |
| Chloroform - BS | EPA-8260 | **94.1** | | | 50 | 150 | 02/28/2019 | DLC |



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CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 3/5/2019
ALS SDG#: EV19020119
WDOE ACCREDITATION: C601

## LABORATORY CONTROL SAMPLE RESULTS

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| Chloroform - BSD | EPA-8260 | **92.9** | **1** | | 50 | 150 | 02/28/2019 | DLC |
| 1,1,1-Trichloroethane - BS | EPA-8260 | **101** | | | 50 | 150 | 02/28/2019 | DLC |
| 1,1,1-Trichloroethane - BSD | EPA-8260 | **98.0** | **2** | | 50 | 150 | 02/28/2019 | DLC |
| 1,1-Dichloropropene - BS | EPA-8260 | **101** | | | 50 | 150 | 02/28/2019 | DLC |
| 1,1-Dichloropropene - BSD | EPA-8260 | **98.6** | **2** | | 50 | 150 | 02/28/2019 | DLC |
| 1,2-Dichloroethane - BS | EPA-8260 | **98.9** | | | 50 | 150 | 02/28/2019 | DLC |
| 1,2-Dichloroethane - BSD | EPA-8260 | **98.8** | **0** | | 50 | 150 | 02/28/2019 | DLC |
| Benzene - BS | EPA-8260 | **121** | | | 74.7 | 143 | 02/28/2019 | DLC |
| Benzene - BSD | EPA-8260 | **119** | **1** | | 74.7 | 143 | 02/28/2019 | DLC |
| Trichloroethene - BS | EPA-8260 | **123** | | | 74.4 | 141 | 02/28/2019 | DLC |
| Trichloroethene - BSD | EPA-8260 | **122** | **1** | | 74.4 | 141 | 02/28/2019 | DLC |
| 1,2-Dichloropropane - BS | EPA-8260 | **105** | | | 50 | 150 | 02/28/2019 | DLC |
| 1,2-Dichloropropane - BSD | EPA-8260 | **104** | **1** | | 50 | 150 | 02/28/2019 | DLC |
| Dibromomethane - BS | EPA-8260 | **104** | | | 50 | 150 | 02/28/2019 | DLC |
| Dibromomethane - BSD | EPA-8260 | **105** | **1** | | 50 | 150 | 02/28/2019 | DLC |
| Bromodichloromethane - BS | EPA-8260 | **106** | | | 50 | 150 | 02/28/2019 | DLC |
| Bromodichloromethane - BSD | EPA-8260 | **106** | **0** | | 50 | 150 | 02/28/2019 | DLC |
| Trans-1,3-Dichloropropene - BS | EPA-8260 | **106** | | | 50 | 150 | 02/28/2019 | DLC |
| Trans-1,3-Dichloropropene - BSD | EPA-8260 | **106** | **0** | | 50 | 150 | 02/28/2019 | DLC |
| 4-Methyl-2-Pentanone - BS | EPA-8260 | **102** | | | 50 | 150 | 02/28/2019 | DLC |
| 4-Methyl-2-Pentanone - BSD | EPA-8260 | **101** | **1** | | 50 | 150 | 02/28/2019 | DLC |
| Toluene - BS | EPA-8260 | **103** | | | 71.7 | 139 | 02/28/2019 | DLC |
| Toluene - BSD | EPA-8260 | **102** | **1** | | 71.7 | 139 | 02/28/2019 | DLC |
| Cis-1,3-Dichloropropene - BS | EPA-8260 | **99.8** | | | 50 | 150 | 02/28/2019 | DLC |
| Cis-1,3-Dichloropropene - BSD | EPA-8260 | **99.7** | **0** | | 50 | 150 | 02/28/2019 | DLC |
| 1,1,2-Trichloroethane - BS | EPA-8260 | **103** | | | 50 | 150 | 02/28/2019 | DLC |
| 1,1,2-Trichloroethane - BSD | EPA-8260 | **104** | **1** | | 50 | 150 | 02/28/2019 | DLC |
| 2-Hexanone - BS | EPA-8260 | **89.2** | | | 50 | 150 | 02/28/2019 | DLC |
| 2-Hexanone - BSD | EPA-8260 | **92.9** | **4** | | 50 | 150 | 02/28/2019 | DLC |
| 1,3-Dichloropropane - BS | EPA-8260 | **103** | | | 50 | 150 | 02/28/2019 | DLC |
| 1,3-Dichloropropane - BSD | EPA-8260 | **103** | **0** | | 50 | 150 | 02/28/2019 | DLC |
| Tetrachloroethylene - BS | EPA-8260 | **116** | | | 50 | 150 | 02/28/2019 | DLC |
| Tetrachloroethylene - BSD | EPA-8260 | **117** | **1** | | 50 | 150 | 02/28/2019 | DLC |
| Dibromochloromethane - BS | EPA-8260 | **102** | | | 50 | 150 | 02/28/2019 | DLC |
| Dibromochloromethane - BSD | EPA-8260 | **103** | **0** | | 50 | 150 | 02/28/2019 | DLC |
| 1,2-Dibromoethane - BS | EPA-8260 | **104** | | | 50 | 150 | 02/28/2019 | DLC |
| 1,2-Dibromoethane - BSD | EPA-8260 | **106** | **1** | | 50 | 150 | 02/28/2019 | DLC |
| Chlorobenzene - BS | EPA-8260 | **105** | | | 73 | 131 | 02/28/2019 | DLC |
| Chlorobenzene - BSD | EPA-8260 | **104** | **0** | | 73 | 131 | 02/28/2019 | DLC |
| 1,1,1,2-Tetrachloroethane - BS | EPA-8260 | **106** | | | 50 | 150 | 02/28/2019 | DLC |



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DATE: 3/5/2019
ALS SDG#: EV19020119
WDOE ACCREDITATION: C601

## LABORATORY CONTROL SAMPLE RESULTS

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane - BSD | EPA-8260 | **105** | **1** | | 50 | 150 | 02/28/2019 | DLC |
| Ethylbenzene - BS | EPA-8260 | **108** | | | 50 | 150 | 02/28/2019 | DLC |
| Ethylbenzene - BSD | EPA-8260 | **107** | **1** | | 50 | 150 | 02/28/2019 | DLC |
| m,p-Xylene - BS | EPA-8260 | **107** | | | 50 | 150 | 02/28/2019 | DLC |
| m,p-Xylene - BSD | EPA-8260 | **106** | **1** | | 50 | 150 | 02/28/2019 | DLC |
| Styrene - BS | EPA-8260 | **114** | | | 50 | 150 | 02/28/2019 | DLC |
| Styrene - BSD | EPA-8260 | **113** | **1** | | 50 | 150 | 02/28/2019 | DLC |
| o-Xylene - BS | EPA-8260 | **107** | | | 50 | 150 | 02/28/2019 | DLC |
| o-Xylene - BSD | EPA-8260 | **106** | **1** | | 50 | 150 | 02/28/2019 | DLC |
| Bromoform - BS | EPA-8260 | **104** | | | 50 | 150 | 02/28/2019 | DLC |
| Bromoform - BSD | EPA-8260 | **105** | **1** | | 50 | 150 | 02/28/2019 | DLC |
| Isopropylbenzene - BS | EPA-8260 | **107** | | | 50 | 150 | 02/28/2019 | DLC |
| Isopropylbenzene - BSD | EPA-8260 | **106** | **1** | | 50 | 150 | 02/28/2019 | DLC |
| 1,1,2,2-Tetrachloroethane - BS | EPA-8260 | **96.1** | | | 50 | 150 | 02/28/2019 | DLC |
| 1,1,2,2-Tetrachloroethane - BSD | EPA-8260 | **97.9** | **2** | | 50 | 150 | 02/28/2019 | DLC |
| 1,2,3-Trichloropropane - BS | EPA-8260 | **92.8** | | | 50 | 150 | 02/28/2019 | DLC |
| 1,2,3-Trichloropropane - BSD | EPA-8260 | **94.1** | **1** | | 50 | 150 | 02/28/2019 | DLC |
| Bromobenzene - BS | EPA-8260 | **104** | | | 50 | 150 | 02/28/2019 | DLC |
| Bromobenzene - BSD | EPA-8260 | **103** | **1** | | 50 | 150 | 02/28/2019 | DLC |
| N-Propyl Benzene - BS | EPA-8260 | **103** | | | 50 | 150 | 02/28/2019 | DLC |
| N-Propyl Benzene - BSD | EPA-8260 | **102** | **1** | | 50 | 150 | 02/28/2019 | DLC |
| 2-Chlorotoluene - BS | EPA-8260 | **99.9** | | | 50 | 150 | 02/28/2019 | DLC |
| 2-Chlorotoluene - BSD | EPA-8260 | **98.9** | **1** | | 50 | 150 | 02/28/2019 | DLC |
| 1,3,5-Trimethylbenzene - BS | EPA-8260 | **101** | | | 50 | 150 | 02/28/2019 | DLC |
| 1,3,5-Trimethylbenzene - BSD | EPA-8260 | **99.8** | **2** | | 50 | 150 | 02/28/2019 | DLC |
| 4-Chlorotoluene - BS | EPA-8260 | **103** | | | 50 | 150 | 02/28/2019 | DLC |
| 4-Chlorotoluene - BSD | EPA-8260 | **102** | **1** | | 50 | 150 | 02/28/2019 | DLC |
| T-Butyl Benzene - BS | EPA-8260 | **111** | | | 50 | 150 | 02/28/2019 | DLC |
| T-Butyl Benzene - BSD | EPA-8260 | **110** | **1** | | 50 | 150 | 02/28/2019 | DLC |
| 1,2,4-Trimethylbenzene - BS | EPA-8260 | **106** | | | 50 | 150 | 02/28/2019 | DLC |
| 1,2,4-Trimethylbenzene - BSD | EPA-8260 | **106** | **0** | | 50 | 150 | 02/28/2019 | DLC |
| S-Butyl Benzene - BS | EPA-8260 | **107** | | | 50 | 150 | 02/28/2019 | DLC |
| S-Butyl Benzene - BSD | EPA-8260 | **106** | **1** | | 50 | 150 | 02/28/2019 | DLC |
| P-Isopropyltoluene - BS | EPA-8260 | **111** | | | 50 | 150 | 02/28/2019 | DLC |
| P-Isopropyltoluene - BSD | EPA-8260 | **110** | **1** | | 50 | 150 | 02/28/2019 | DLC |
| 1,3-Dichlorobenzene - BS | EPA-8260 | **109** | | | 50 | 150 | 02/28/2019 | DLC |
| 1,3-Dichlorobenzene - BSD | EPA-8260 | **108** | **1** | | 50 | 150 | 02/28/2019 | DLC |
| 1,4-Dichlorobenzene - BS | EPA-8260 | **108** | | | 50 | 150 | 02/28/2019 | DLC |
| 1,4-Dichlorobenzene - BSD | EPA-8260 | **108** | **0** | | 50 | 150 | 02/28/2019 | DLC |
| N-Butylbenzene - BS | EPA-8260 | **124** | | | 50 | 150 | 02/28/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

CLIENT: Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 3/5/2019
ALS SDG#: EV19020119
WDOE ACCREDITATION: C601

## LABORATORY CONTROL SAMPLE RESULTS

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| N-Butylbenzene - BSD | EPA-8260 | **123** | **1** | | 50 | 150 | 02/28/2019 | DLC |
| 1,2-Dichlorobenzene - BS | EPA-8260 | **109** | | | 50 | 150 | 02/28/2019 | DLC |
| 1,2-Dichlorobenzene - BSD | EPA-8260 | **109** | **0** | | 50 | 150 | 02/28/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane - BS | EPA-8260 | **106** | | | 50 | 150 | 02/28/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane - BSD | EPA-8260 | **109** | **3** | | 50 | 150 | 02/28/2019 | DLC |
| 1,2,4-Trichlorobenzene - BS | EPA-8260 | **112** | | | 50 | 150 | 02/28/2019 | DLC |
| 1,2,4-Trichlorobenzene - BSD | EPA-8260 | **115** | **2** | | 50 | 150 | 02/28/2019 | DLC |
| Hexachlorobutadiene - BS | EPA-8260 | **113** | | | 50 | 150 | 02/28/2019 | DLC |
| Hexachlorobutadiene - BSD | EPA-8260 | **115** | **2** | | 50 | 150 | 02/28/2019 | DLC |
| Naphthalene - BS | EPA-8260 | **111** | | | 50 | 150 | 02/28/2019 | DLC |
| Naphthalene - BSD | EPA-8260 | **118** | **6** | | 50 | 150 | 02/28/2019 | DLC |
| 1,2,3-Trichlorobenzene - BS | EPA-8260 | **112** | | | 50 | 150 | 02/28/2019 | DLC |
| 1,2,3-Trichlorobenzene - BSD | EPA-8260 | **115** | **2** | | 50 | 150 | 02/28/2019 | DLC |

### ALS Test Batch ID: 138276 - Water by EPA-8260

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane - BS | EPA-8260 | **93.8** | | | 50 | 150 | 02/27/2019 | DLC |
| Dichlorodifluoromethane - BSD | EPA-8260 | **89.5** | **5** | | 50 | 150 | 02/27/2019 | DLC |
| Chloromethane - BS | EPA-8260 | **112** | | | 50 | 150 | 02/27/2019 | DLC |
| Chloromethane - BSD | EPA-8260 | **106** | **5** | | 50 | 150 | 02/27/2019 | DLC |
| Vinyl Chloride - BS | EPA-8260 | **92.6** | | | 50 | 150 | 02/27/2019 | DLC |
| Vinyl Chloride - BSD | EPA-8260 | **88.9** | **4** | | 50 | 150 | 02/27/2019 | DLC |
| Bromomethane - BS | EPA-8260 | **105** | | | 50 | 150 | 02/27/2019 | DLC |
| Bromomethane - BSD | EPA-8260 | **96.3** | **8** | | 50 | 150 | 02/27/2019 | DLC |
| Chloroethane - BS | EPA-8260 | **92.0** | | | 50 | 150 | 02/27/2019 | DLC |
| Chloroethane - BSD | EPA-8260 | **88.3** | **4** | | 50 | 150 | 02/27/2019 | DLC |
| Carbon Tetrachloride - BS | EPA-8260 | **99.8** | | | 50 | 150 | 02/27/2019 | DLC |
| Carbon Tetrachloride - BSD | EPA-8260 | **94.0** | **6** | | 50 | 150 | 02/27/2019 | DLC |
| Trichlorofluoromethane - BS | EPA-8260 | **99.1** | | | 50 | 150 | 02/27/2019 | DLC |
| Trichlorofluoromethane - BSD | EPA-8260 | **95.0** | **4** | | 50 | 150 | 02/27/2019 | DLC |
| Carbon Disulfide - BS | EPA-8260 | **87.9** | | | 50 | 150 | 02/27/2019 | DLC |
| Carbon Disulfide - BSD | EPA-8260 | **83.3** | **5** | | 50 | 150 | 02/27/2019 | DLC |
| Acetone - BS | EPA-8260 | **82.5** | | | 50 | 150 | 02/27/2019 | DLC |
| Acetone - BSD | EPA-8260 | **84.9** | **3** | | 50 | 150 | 02/27/2019 | DLC |
| 1,1-Dichloroethene - BS | EPA-8260 | **91.4** | | | 72.5 | 136 | 02/27/2019 | DLC |
| 1,1-Dichloroethene - BSD | EPA-8260 | **87.7** | **4** | | 72.5 | 136 | 02/27/2019 | DLC |
| Methylene Chloride - BS | EPA-8260 | **102** | | | 50 | 150 | 02/27/2019 | DLC |
| Methylene Chloride - BSD | EPA-8260 | **95.3** | **7** | | 50 | 150 | 02/27/2019 | DLC |
| Acrylonitrile - BS | EPA-8260 | **99.6** | | | 50 | 150 | 02/27/2019 | DLC |



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DATE: 3/5/2019
ALS SDG#: EV19020119
WDOE ACCREDITATION: C601

## LABORATORY CONTROL SAMPLE RESULTS

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| Acrylonitrile - BSD | EPA-8260 | **95.3** | **4** | | 50 | 150 | 02/27/2019 | DLC |
| Methyl T-Butyl Ether - BS | EPA-8260 | **93.6** | | | 50 | 150 | 02/27/2019 | DLC |
| Methyl T-Butyl Ether - BSD | EPA-8260 | **89.1** | **5** | | 50 | 150 | 02/27/2019 | DLC |
| Trans-1,2-Dichloroethene - BS | EPA-8260 | **91.9** | | | 50 | 150 | 02/27/2019 | DLC |
| Trans-1,2-Dichloroethene - BSD | EPA-8260 | **88.3** | **4** | | 50 | 150 | 02/27/2019 | DLC |
| 1,1-Dichloroethane - BS | EPA-8260 | **90.5** | | | 50 | 150 | 02/27/2019 | DLC |
| 1,1-Dichloroethane - BSD | EPA-8260 | **86.5** | **5** | | 50 | 150 | 02/27/2019 | DLC |
| 2-Butanone - BS | EPA-8260 | **90.8** | | | 50 | 150 | 02/27/2019 | DLC |
| 2-Butanone - BSD | EPA-8260 | **93.2** | **3** | | 50 | 150 | 02/27/2019 | DLC |
| Cis-1,2-Dichloroethene - BS | EPA-8260 | **90.5** | | | 50 | 150 | 02/27/2019 | DLC |
| Cis-1,2-Dichloroethene - BSD | EPA-8260 | **85.8** | **5** | | 50 | 150 | 02/27/2019 | DLC |
| 2,2-Dichloropropane - BS | EPA-8260 | **108** | | | 50 | 150 | 02/27/2019 | DLC |
| 2,2-Dichloropropane - BSD | EPA-8260 | **103** | **5** | | 50 | 150 | 02/27/2019 | DLC |
| Bromochloromethane - BS | EPA-8260 | **93.8** | | | 50 | 150 | 02/27/2019 | DLC |
| Bromochloromethane - BSD | EPA-8260 | **88.6** | **6** | | 50 | 150 | 02/27/2019 | DLC |
| Chloroform - BS | EPA-8260 | **91.3** | | | 50 | 150 | 02/27/2019 | DLC |
| Chloroform - BSD | EPA-8260 | **87.1** | **5** | | 50 | 150 | 02/27/2019 | DLC |
| 1,1,1-Trichloroethane - BS | EPA-8260 | **93.3** | | | 50 | 150 | 02/27/2019 | DLC |
| 1,1,1-Trichloroethane - BSD | EPA-8260 | **88.6** | **5** | | 50 | 150 | 02/27/2019 | DLC |
| 1,1-Dichloropropene - BS | EPA-8260 | **93.7** | | | 50 | 150 | 02/27/2019 | DLC |
| 1,1-Dichloropropene - BSD | EPA-8260 | **89.7** | **4** | | 50 | 150 | 02/27/2019 | DLC |
| 1,2-Dichloroethane - BS | EPA-8260 | **97.0** | | | 50 | 150 | 02/27/2019 | DLC |
| 1,2-Dichloroethane - BSD | EPA-8260 | **87.8** | **10** | | 50 | 150 | 02/27/2019 | DLC |
| Benzene - BS | EPA-8260 | **115** | | | 74.7 | 143 | 02/27/2019 | DLC |
| Benzene - BSD | EPA-8260 | **104** | **9** | | 74.7 | 143 | 02/27/2019 | DLC |
| Trichloroethene - BS | EPA-8260 | **117** | | | 74.4 | 141 | 02/27/2019 | DLC |
| Trichloroethene - BSD | EPA-8260 | **106** | **10** | | 74.4 | 141 | 02/27/2019 | DLC |
| 1,2-Dichloropropane - BS | EPA-8260 | **102** | | | 50 | 150 | 02/27/2019 | DLC |
| 1,2-Dichloropropane - BSD | EPA-8260 | **92.7** | **10** | | 50 | 150 | 02/27/2019 | DLC |
| Dibromomethane - BS | EPA-8260 | **102** | | | 50 | 150 | 02/27/2019 | DLC |
| Dibromomethane - BSD | EPA-8260 | **93.0** | **10** | | 50 | 150 | 02/27/2019 | DLC |
| Bromodichloromethane - BS | EPA-8260 | **103** | | | 50 | 150 | 02/27/2019 | DLC |
| Bromodichloromethane - BSD | EPA-8260 | **93.6** | **10** | | 50 | 150 | 02/27/2019 | DLC |
| Trans-1,3-Dichloropropene - BS | EPA-8260 | **109** | | | 50 | 150 | 02/27/2019 | DLC |
| Trans-1,3-Dichloropropene - BSD | EPA-8260 | **97.0** | **12** | | 50 | 150 | 02/27/2019 | DLC |
| 4-Methyl-2-Pentanone - BS | EPA-8260 | **95.8** | | | 50 | 150 | 02/27/2019 | DLC |
| 4-Methyl-2-Pentanone - BSD | EPA-8260 | **88.9** | **8** | | 50 | 150 | 02/27/2019 | DLC |
| Toluene - BS | EPA-8260 | **99.2** | | | 71.7 | 139 | 02/27/2019 | DLC |
| Toluene - BSD | EPA-8260 | **89.1** | **11** | | 71.7 | 139 | 02/27/2019 | DLC |
| Cis-1,3-Dichloropropene - BS | EPA-8260 | **103** | | | 50 | 150 | 02/27/2019 | DLC |



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DATE: 3/5/2019
ALS SDG#: EV19020119
WDOE ACCREDITATION: C601

## LABORATORY CONTROL SAMPLE RESULTS

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| Cis-1,3-Dichloropropene - BSD | EPA-8260 | **93.2** | **10** | | 50 | 150 | 02/27/2019 | DLC |
| 1,1,2-Trichloroethane - BS | EPA-8260 | **101** | | | 50 | 150 | 02/27/2019 | DLC |
| 1,1,2-Trichloroethane - BSD | EPA-8260 | **90.4** | **11** | | 50 | 150 | 02/27/2019 | DLC |
| 2-Hexanone - BS | EPA-8260 | **85.2** | | | 50 | 150 | 02/27/2019 | DLC |
| 2-Hexanone - BSD | EPA-8260 | **77.4** | **10** | | 50 | 150 | 02/27/2019 | DLC |
| 1,3-Dichloropropane - BS | EPA-8260 | **101** | | | 50 | 150 | 02/27/2019 | DLC |
| 1,3-Dichloropropane - BSD | EPA-8260 | **90.2** | **12** | | 50 | 150 | 02/27/2019 | DLC |
| Tetrachloroethylene - BS | EPA-8260 | **98.1** | | | 50 | 150 | 02/27/2019 | DLC |
| Tetrachloroethylene - BSD | EPA-8260 | **88.7** | **10** | | 50 | 150 | 02/27/2019 | DLC |
| Dibromochloromethane - BS | EPA-8260 | **100** | | | 50 | 150 | 02/27/2019 | DLC |
| Dibromochloromethane - BSD | EPA-8260 | **89.3** | **12** | | 50 | 150 | 02/27/2019 | DLC |
| 1,2-Dibromoethane - BS | EPA-8260 | **103** | | | 50 | 150 | 02/27/2019 | DLC |
| 1,2-Dibromoethane - BSD | EPA-8260 | **92.1** | **11** | | 50 | 150 | 02/27/2019 | DLC |
| Chlorobenzene - BS | EPA-8260 | **101** | | | 73 | 131 | 02/27/2019 | DLC |
| Chlorobenzene - BSD | EPA-8260 | **90.4** | **11** | | 73 | 131 | 02/27/2019 | DLC |
| 1,1,1,2-Tetrachloroethane - BS | EPA-8260 | **103** | | | 50 | 150 | 02/27/2019 | DLC |
| 1,1,1,2-Tetrachloroethane - BSD | EPA-8260 | **91.5** | **12** | | 50 | 150 | 02/27/2019 | DLC |
| Ethylbenzene - BS | EPA-8260 | **102** | | | 50 | 150 | 02/27/2019 | DLC |
| Ethylbenzene - BSD | EPA-8260 | **91.2** | **11** | | 50 | 150 | 02/27/2019 | DLC |
| m,p-Xylene - BS | EPA-8260 | **101** | | | 50 | 150 | 02/27/2019 | DLC |
| m,p-Xylene - BSD | EPA-8260 | **90.5** | **11** | | 50 | 150 | 02/27/2019 | DLC |
| Styrene - BS | EPA-8260 | **109** | | | 50 | 150 | 02/27/2019 | DLC |
| Styrene - BSD | EPA-8260 | **97.1** | **11** | | 50 | 150 | 02/27/2019 | DLC |
| o-Xylene - BS | EPA-8260 | **102** | | | 50 | 150 | 02/27/2019 | DLC |
| o-Xylene - BSD | EPA-8260 | **91.2** | **11** | | 50 | 150 | 02/27/2019 | DLC |
| Bromoform - BS | EPA-8260 | **102** | | | 50 | 150 | 02/27/2019 | DLC |
| Bromoform - BSD | EPA-8260 | **91.1** | **11** | | 50 | 150 | 02/27/2019 | DLC |
| Isopropylbenzene - BS | EPA-8260 | **101** | | | 50 | 150 | 02/27/2019 | DLC |
| Isopropylbenzene - BSD | EPA-8260 | **90.4** | **11** | | 50 | 150 | 02/27/2019 | DLC |
| 1,1,2,2-Tetrachloroethane - BS | EPA-8260 | **97.1** | | | 50 | 150 | 02/27/2019 | DLC |
| 1,1,2,2-Tetrachloroethane - BSD | EPA-8260 | **85.5** | **13** | | 50 | 150 | 02/27/2019 | DLC |
| 1,2,3-Trichloropropane - BS | EPA-8260 | **92.0** | | | 50 | 150 | 02/27/2019 | DLC |
| 1,2,3-Trichloropropane - BSD | EPA-8260 | **81.1** | **13** | | 50 | 150 | 02/27/2019 | DLC |
| Bromobenzene - BS | EPA-8260 | **102** | | | 50 | 150 | 02/27/2019 | DLC |
| Bromobenzene - BSD | EPA-8260 | **88.7** | **14** | | 50 | 150 | 02/27/2019 | DLC |
| N-Propyl Benzene - BS | EPA-8260 | **99.4** | | | 50 | 150 | 02/27/2019 | DLC |
| N-Propyl Benzene - BSD | EPA-8260 | **86.8** | **14** | | 50 | 150 | 02/27/2019 | DLC |
| 2-Chlorotoluene - BS | EPA-8260 | **97.2** | | | 50 | 150 | 02/27/2019 | DLC |
| 2-Chlorotoluene - BSD | EPA-8260 | **84.9** | **14** | | 50 | 150 | 02/27/2019 | DLC |
| 1,3,5-Trimethylbenzene - BS | EPA-8260 | **98.6** | | | 50 | 150 | 02/27/2019 | DLC |



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WDOE ACCREDITATION: C601

## LABORATORY CONTROL SAMPLE RESULTS

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene - BSD | EPA-8260 | **85.7** | **14** | | 50 | 150 | 02/27/2019 | DLC |
| 4-Chlorotoluene - BS | EPA-8260 | **101** | | | 50 | 150 | 02/27/2019 | DLC |
| 4-Chlorotoluene - BSD | EPA-8260 | **87.5** | **14** | | 50 | 150 | 02/27/2019 | DLC |
| T-Butyl Benzene - BS | EPA-8260 | **106** | | | 50 | 150 | 02/27/2019 | DLC |
| T-Butyl Benzene - BSD | EPA-8260 | **92.5** | **14** | | 50 | 150 | 02/27/2019 | DLC |
| 1,2,4-Trimethylbenzene - BS | EPA-8260 | **104** | | | 50 | 150 | 02/27/2019 | DLC |
| 1,2,4-Trimethylbenzene - BSD | EPA-8260 | **89.6** | **14** | | 50 | 150 | 02/27/2019 | DLC |
| S-Butyl Benzene - BS | EPA-8260 | **102** | | | 50 | 150 | 02/27/2019 | DLC |
| S-Butyl Benzene - BSD | EPA-8260 | **88.9** | **14** | | 50 | 150 | 02/27/2019 | DLC |
| P-Isopropyltoluene - BS | EPA-8260 | **106** | | | 50 | 150 | 02/27/2019 | DLC |
| P-Isopropyltoluene - BSD | EPA-8260 | **92.5** | **14** | | 50 | 150 | 02/27/2019 | DLC |
| 1,3-Dichlorobenzene - BS | EPA-8260 | **105** | | | 50 | 150 | 02/27/2019 | DLC |
| 1,3-Dichlorobenzene - BSD | EPA-8260 | **91.4** | **14** | | 50 | 150 | 02/27/2019 | DLC |
| 1,4-Dichlorobenzene - BS | EPA-8260 | **106** | | | 50 | 150 | 02/27/2019 | DLC |
| 1,4-Dichlorobenzene - BSD | EPA-8260 | **92.3** | **14** | | 50 | 150 | 02/27/2019 | DLC |
| N-Butylbenzene - BS | EPA-8260 | **116** | | | 50 | 150 | 02/27/2019 | DLC |
| N-Butylbenzene - BSD | EPA-8260 | **102** | **13** | | 50 | 150 | 02/27/2019 | DLC |
| 1,2-Dichlorobenzene - BS | EPA-8260 | **106** | | | 50 | 150 | 02/27/2019 | DLC |
| 1,2-Dichlorobenzene - BSD | EPA-8260 | **91.9** | **15** | | 50 | 150 | 02/27/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane - BS | EPA-8260 | **101** | | | 50 | 150 | 02/27/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane - BSD | EPA-8260 | **88.8** | **13** | | 50 | 150 | 02/27/2019 | DLC |
| 1,2,4-Trichlorobenzene - BS | EPA-8260 | **101** | | | 50 | 150 | 02/27/2019 | DLC |
| 1,2,4-Trichlorobenzene - BSD | EPA-8260 | **89.1** | **13** | | 50 | 150 | 02/27/2019 | DLC |
| Hexachlorobutadiene - BS | EPA-8260 | **108** | | | 50 | 150 | 02/27/2019 | DLC |
| Hexachlorobutadiene - BSD | EPA-8260 | **96.4** | **11** | | 50 | 150 | 02/27/2019 | DLC |
| Naphthalene - BS | EPA-8260 | **97.8** | | | 50 | 150 | 02/27/2019 | DLC |
| Naphthalene - BSD | EPA-8260 | **85.0** | **14** | | 50 | 150 | 02/27/2019 | DLC |
| 1,2,3-Trichlorobenzene - BS | EPA-8260 | **101** | | | 50 | 150 | 02/27/2019 | DLC |
| 1,2,3-Trichlorobenzene - BSD | EPA-8260 | **89.1** | **13** | | 50 | 150 | 02/27/2019 | DLC |

### ALS Test Batch ID: 138344 - Water by EPA-8260

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane - BS | EPA-8260 | **103** | | | 50 | 150 | 03/04/2019 | DLC |
| Dichlorodifluoromethane - BSD | EPA-8260 | **93.3** | **10** | | 50 | 150 | 03/04/2019 | DLC |
| Chloromethane - BS | EPA-8260 | **112** | | | 50 | 150 | 03/04/2019 | DLC |
| Chloromethane - BSD | EPA-8260 | **102** | **9** | | 50 | 150 | 03/04/2019 | DLC |
| Vinyl Chloride - BS | EPA-8260 | **87.6** | | | 50 | 150 | 03/04/2019 | DLC |
| Vinyl Chloride - BSD | EPA-8260 | **78.8** | **11** | | 50 | 150 | 03/04/2019 | DLC |
| Bromomethane - BS | EPA-8260 | **90.7** | | | 50 | 150 | 03/04/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

CLIENT: Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 3/5/2019
ALS SDG#: EV19020119
WDOE ACCREDITATION: C601

## LABORATORY CONTROL SAMPLE RESULTS

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| Bromomethane - BSD | EPA-8260 | **84.1** | **8** | | 50 | 150 | 03/04/2019 | DLC |
| Chloroethane - BS | EPA-8260 | **86.4** | | | 50 | 150 | 03/04/2019 | DLC |
| Chloroethane - BSD | EPA-8260 | **79.2** | **9** | | 50 | 150 | 03/04/2019 | DLC |
| Carbon Tetrachloride - BS | EPA-8260 | **92.3** | | | 50 | 150 | 03/04/2019 | DLC |
| Carbon Tetrachloride - BSD | EPA-8260 | **85.1** | **8** | | 50 | 150 | 03/04/2019 | DLC |
| Trichlorofluoromethane - BS | EPA-8260 | **97.4** | | | 50 | 150 | 03/04/2019 | DLC |
| Trichlorofluoromethane - BSD | EPA-8260 | **89.0** | **9** | | 50 | 150 | 03/04/2019 | DLC |
| Carbon Disulfide - BS | EPA-8260 | **77.7** | | | 50 | 150 | 03/04/2019 | DLC |
| Carbon Disulfide - BSD | EPA-8260 | **70.9** | **9** | | 50 | 150 | 03/04/2019 | DLC |
| Acetone - BS | EPA-8260 | **86.2** | | | 50 | 150 | 03/04/2019 | DLC |
| Acetone - BSD | EPA-8260 | **86.5** | **0** | | 50 | 150 | 03/04/2019 | DLC |
| 1,1-Dichloroethene - BS | EPA-8260 | **84.7** | | | 72.5 | 136 | 03/04/2019 | DLC |
| 1,1-Dichloroethene - BSD | EPA-8260 | **77.4** | **9** | | 72.5 | 136 | 03/04/2019 | DLC |
| Methylene Chloride - BS | EPA-8260 | **103** | | | 50 | 150 | 03/04/2019 | DLC |
| Methylene Chloride - BSD | EPA-8260 | **97.2** | **5** | | 50 | 150 | 03/04/2019 | DLC |
| Acrylonitrile - BS | EPA-8260 | **92.2** | | | 50 | 150 | 03/04/2019 | DLC |
| Acrylonitrile - BSD | EPA-8260 | **84.3** | **9** | | 50 | 150 | 03/04/2019 | DLC |
| Methyl T-Butyl Ether - BS | EPA-8260 | **80.7** | | | 50 | 150 | 03/04/2019 | DLC |
| Methyl T-Butyl Ether - BSD | EPA-8260 | **78.3** | **3** | | 50 | 150 | 03/04/2019 | DLC |
| Trans-1,2-Dichloroethene - BS | EPA-8260 | **84.0** | | | 50 | 150 | 03/04/2019 | DLC |
| Trans-1,2-Dichloroethene - BSD | EPA-8260 | **77.1** | **9** | | 50 | 150 | 03/04/2019 | DLC |
| 1,1-Dichloroethane - BS | EPA-8260 | **80.9** | | | 50 | 150 | 03/04/2019 | DLC |
| 1,1-Dichloroethane - BSD | EPA-8260 | **75.4** | **7** | | 50 | 150 | 03/04/2019 | DLC |
| 2-Butanone - BS | EPA-8260 | **92.1** | | | 50 | 150 | 03/04/2019 | DLC |
| 2-Butanone - BSD | EPA-8260 | **89.9** | **2** | | 50 | 150 | 03/04/2019 | DLC |
| Cis-1,2-Dichloroethene - BS | EPA-8260 | **80.5** | | | 50 | 150 | 03/04/2019 | DLC |
| Cis-1,2-Dichloroethene - BSD | EPA-8260 | **75.3** | **7** | | 50 | 150 | 03/04/2019 | DLC |
| 2,2-Dichloropropane - BS | EPA-8260 | **84.5** | | | 50 | 150 | 03/04/2019 | DLC |
| 2,2-Dichloropropane - BSD | EPA-8260 | **76.3** | **10** | | 50 | 150 | 03/04/2019 | DLC |
| Bromochloromethane - BS | EPA-8260 | **77.6** | | | 50 | 150 | 03/04/2019 | DLC |
| Bromochloromethane - BSD | EPA-8260 | **74.0** | **5** | | 50 | 150 | 03/04/2019 | DLC |
| Chloroform - BS | EPA-8260 | **80.8** | | | 50 | 150 | 03/04/2019 | DLC |
| Chloroform - BSD | EPA-8260 | **75.7** | **7** | | 50 | 150 | 03/04/2019 | DLC |
| 1,1,1-Trichloroethane - BS | EPA-8260 | **86.2** | | | 50 | 150 | 03/04/2019 | DLC |
| 1,1,1-Trichloroethane - BSD | EPA-8260 | **79.6** | **8** | | 50 | 150 | 03/04/2019 | DLC |
| 1,1-Dichloropropene - BS | EPA-8260 | **86.0** | | | 50 | 150 | 03/04/2019 | DLC |
| 1,1-Dichloropropene - BSD | EPA-8260 | **78.6** | **9** | | 50 | 150 | 03/04/2019 | DLC |
| 1,2-Dichloroethane - BS | EPA-8260 | **86.0** | | | 50 | 150 | 03/04/2019 | DLC |
| 1,2-Dichloroethane - BSD | EPA-8260 | **83.4** | **3** | | 50 | 150 | 03/04/2019 | DLC |
| Benzene - BS | EPA-8260 | **102** | | | 74.7 | 143 | 03/04/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

CLIENT: Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 3/5/2019
ALS SDG#: EV19020119
WDOE ACCREDITATION: C601

## LABORATORY CONTROL SAMPLE RESULTS

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| Benzene - BSD | EPA-8260 | **96.4** | **6** | | 74.7 | 143 | 03/04/2019 | DLC |
| Trichloroethene - BS | EPA-8260 | **101** | | | 74.4 | 141 | 03/04/2019 | DLC |
| Trichloroethene - BSD | EPA-8260 | **94.5** | **7** | | 74.4 | 141 | 03/04/2019 | DLC |
| 1,2-Dichloropropane - BS | EPA-8260 | **89.6** | | | 50 | 150 | 03/04/2019 | DLC |
| 1,2-Dichloropropane - BSD | EPA-8260 | **85.6** | **5** | | 50 | 150 | 03/04/2019 | DLC |
| Dibromomethane - BS | EPA-8260 | **90.3** | | | 50 | 150 | 03/04/2019 | DLC |
| Dibromomethane - BSD | EPA-8260 | **88.5** | **2** | | 50 | 150 | 03/04/2019 | DLC |
| Bromodichloromethane - BS | EPA-8260 | **91.1** | | | 50 | 150 | 03/04/2019 | DLC |
| Bromodichloromethane - BSD | EPA-8260 | **87.7** | **4** | | 50 | 150 | 03/04/2019 | DLC |
| Trans-1,3-Dichloropropene - BS | EPA-8260 | **99.0** | | | 50 | 150 | 03/04/2019 | DLC |
| Trans-1,3-Dichloropropene - BSD | EPA-8260 | **95.6** | **3** | | 50 | 150 | 03/04/2019 | DLC |
| 4-Methyl-2-Pentanone - BS | EPA-8260 | **89.7** | | | 50 | 150 | 03/04/2019 | DLC |
| 4-Methyl-2-Pentanone - BSD | EPA-8260 | **89.9** | **0** | | 50 | 150 | 03/04/2019 | DLC |
| Toluene - BS | EPA-8260 | **88.9** | | | 71.7 | 139 | 03/04/2019 | DLC |
| Toluene - BSD | EPA-8260 | **83.0** | **7** | | 71.7 | 139 | 03/04/2019 | DLC |
| Cis-1,3-Dichloropropene - BS | EPA-8260 | **91.6** | | | 50 | 150 | 03/04/2019 | DLC |
| Cis-1,3-Dichloropropene - BSD | EPA-8260 | **87.5** | **5** | | 50 | 150 | 03/04/2019 | DLC |
| 1,1,2-Trichloroethane - BS | EPA-8260 | **90.3** | | | 50 | 150 | 03/04/2019 | DLC |
| 1,1,2-Trichloroethane - BSD | EPA-8260 | **87.8** | **3** | | 50 | 150 | 03/04/2019 | DLC |
| 2-Hexanone - BS | EPA-8260 | **90.0** | | | 50 | 150 | 03/04/2019 | DLC |
| 2-Hexanone - BSD | EPA-8260 | **89.8** | **0** | | 50 | 150 | 03/04/2019 | DLC |
| 1,3-Dichloropropane - BS | EPA-8260 | **90.4** | | | 50 | 150 | 03/04/2019 | DLC |
| 1,3-Dichloropropane - BSD | EPA-8260 | **87.9** | **3** | | 50 | 150 | 03/04/2019 | DLC |
| Tetrachloroethylene - BS | EPA-8260 | **77.3** | | | 50 | 150 | 03/04/2019 | DLC |
| Tetrachloroethylene - BSD | EPA-8260 | **72.6** | **6** | | 50 | 150 | 03/04/2019 | DLC |
| Dibromochloromethane - BS | EPA-8260 | **91.7** | | | 50 | 150 | 03/04/2019 | DLC |
| Dibromochloromethane - BSD | EPA-8260 | **88.4** | **4** | | 50 | 150 | 03/04/2019 | DLC |
| 1,2-Dibromoethane - BS | EPA-8260 | **93.5** | | | 50 | 150 | 03/04/2019 | DLC |
| 1,2-Dibromoethane - BSD | EPA-8260 | **91.4** | **2** | | 50 | 150 | 03/04/2019 | DLC |
| Chlorobenzene - BS | EPA-8260 | **92.3** | | | 73 | 131 | 03/04/2019 | DLC |
| Chlorobenzene - BSD | EPA-8260 | **86.5** | **6** | | 73 | 131 | 03/04/2019 | DLC |
| 1,1,1,2-Tetrachloroethane - BS | EPA-8260 | **93.5** | | | 50 | 150 | 03/04/2019 | DLC |
| 1,1,1,2-Tetrachloroethane - BSD | EPA-8260 | **88.3** | **6** | | 50 | 150 | 03/04/2019 | DLC |
| Ethylbenzene - BS | EPA-8260 | **94.4** | | | 50 | 150 | 03/04/2019 | DLC |
| Ethylbenzene - BSD | EPA-8260 | **87.9** | **7** | | 50 | 150 | 03/04/2019 | DLC |
| m,p-Xylene - BS | EPA-8260 | **94.1** | | | 50 | 150 | 03/04/2019 | DLC |
| m,p-Xylene - BSD | EPA-8260 | **87.5** | **7** | | 50 | 150 | 03/04/2019 | DLC |
| Styrene - BS | EPA-8260 | **99.6** | | | 50 | 150 | 03/04/2019 | DLC |
| Styrene - BSD | EPA-8260 | **94.0** | **6** | | 50 | 150 | 03/04/2019 | DLC |
| o-Xylene - BS | EPA-8260 | **93.7** | | | 50 | 150 | 03/04/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

CLIENT: Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 3/5/2019
ALS SDG#: EV19020119
WDOE ACCREDITATION: C601

## LABORATORY CONTROL SAMPLE RESULTS

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| o-Xylene - BSD | EPA-8260 | **87.7** | **7** | | 50 | 150 | 03/04/2019 | DLC |
| Bromoform - BS | EPA-8260 | **91.3** | | | 50 | 150 | 03/04/2019 | DLC |
| Bromoform - BSD | EPA-8260 | **88.9** | **3** | | 50 | 150 | 03/04/2019 | DLC |
| Isopropylbenzene - BS | EPA-8260 | **94.6** | | | 50 | 150 | 03/04/2019 | DLC |
| Isopropylbenzene - BSD | EPA-8260 | **87.8** | **7** | | 50 | 150 | 03/04/2019 | DLC |
| 1,1,2,2-Tetrachloroethane - BS | EPA-8260 | **89.1** | | | 50 | 150 | 03/04/2019 | DLC |
| 1,1,2,2-Tetrachloroethane - BSD | EPA-8260 | **88.3** | **1** | | 50 | 150 | 03/04/2019 | DLC |
| 1,2,3-Trichloropropane - BS | EPA-8260 | **79.8** | | | 50 | 150 | 03/04/2019 | DLC |
| 1,2,3-Trichloropropane - BSD | EPA-8260 | **79.5** | **0** | | 50 | 150 | 03/04/2019 | DLC |
| Bromobenzene - BS | EPA-8260 | **88.3** | | | 50 | 150 | 03/04/2019 | DLC |
| Bromobenzene - BSD | EPA-8260 | **85.0** | **4** | | 50 | 150 | 03/04/2019 | DLC |
| N-Propyl Benzene - BS | EPA-8260 | **86.8** | | | 50 | 150 | 03/04/2019 | DLC |
| N-Propyl Benzene - BSD | EPA-8260 | **82.5** | **5** | | 50 | 150 | 03/04/2019 | DLC |
| 2-Chlorotoluene - BS | EPA-8260 | **84.4** | | | 50 | 150 | 03/04/2019 | DLC |
| 2-Chlorotoluene - BSD | EPA-8260 | **79.6** | **6** | | 50 | 150 | 03/04/2019 | DLC |
| 1,3,5-Trimethylbenzene - BS | EPA-8260 | **85.3** | | | 50 | 150 | 03/04/2019 | DLC |
| 1,3,5-Trimethylbenzene - BSD | EPA-8260 | **81.2** | **5** | | 50 | 150 | 03/04/2019 | DLC |
| 4-Chlorotoluene - BS | EPA-8260 | **87.5** | | | 50 | 150 | 03/04/2019 | DLC |
| 4-Chlorotoluene - BSD | EPA-8260 | **83.3** | **5** | | 50 | 150 | 03/04/2019 | DLC |
| T-Butyl Benzene - BS | EPA-8260 | **95.9** | | | 50 | 150 | 03/04/2019 | DLC |
| T-Butyl Benzene - BSD | EPA-8260 | **90.8** | **5** | | 50 | 150 | 03/04/2019 | DLC |
| 1,2,4-Trimethylbenzene - BS | EPA-8260 | **90.0** | | | 50 | 150 | 03/04/2019 | DLC |
| 1,2,4-Trimethylbenzene - BSD | EPA-8260 | **85.9** | **5** | | 50 | 150 | 03/04/2019 | DLC |
| S-Butyl Benzene - BS | EPA-8260 | **90.9** | | | 50 | 150 | 03/04/2019 | DLC |
| S-Butyl Benzene - BSD | EPA-8260 | **86.0** | **6** | | 50 | 150 | 03/04/2019 | DLC |
| P-Isopropyltoluene - BS | EPA-8260 | **95.9** | | | 50 | 150 | 03/04/2019 | DLC |
| P-Isopropyltoluene - BSD | EPA-8260 | **90.9** | **5** | | 50 | 150 | 03/04/2019 | DLC |
| 1,3-Dichlorobenzene - BS | EPA-8260 | **92.6** | | | 50 | 150 | 03/04/2019 | DLC |
| 1,3-Dichlorobenzene - BSD | EPA-8260 | **88.9** | **4** | | 50 | 150 | 03/04/2019 | DLC |
| 1,4-Dichlorobenzene - BS | EPA-8260 | **93.8** | | | 50 | 150 | 03/04/2019 | DLC |
| 1,4-Dichlorobenzene - BSD | EPA-8260 | **88.6** | **6** | | 50 | 150 | 03/04/2019 | DLC |
| N-Butylbenzene - BS | EPA-8260 | **112** | | | 50 | 150 | 03/04/2019 | DLC |
| N-Butylbenzene - BSD | EPA-8260 | **106** | **6** | | 50 | 150 | 03/04/2019 | DLC |
| 1,2-Dichlorobenzene - BS | EPA-8260 | **93.7** | | | 50 | 150 | 03/04/2019 | DLC |
| 1,2-Dichlorobenzene - BSD | EPA-8260 | **90.3** | **4** | | 50 | 150 | 03/04/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane - BS | EPA-8260 | **94.4** | | | 50 | 150 | 03/04/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane - BSD | EPA-8260 | **96.5** | **2** | | 50 | 150 | 03/04/2019 | DLC |
| 1,2,4-Trichlorobenzene - BS | EPA-8260 | **101** | | | 50 | 150 | 03/04/2019 | DLC |
| 1,2,4-Trichlorobenzene - BSD | EPA-8260 | **98.4** | **2** | | 50 | 150 | 03/04/2019 | DLC |
| Hexachlorobutadiene - BS | EPA-8260 | **103** | | | 50 | 150 | 03/04/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE: | 3/5/2019 |
| | | ALS SDG#: | EV19020119 |
| | | WDOE ACCREDITATION: | C601 |
| CLIENT CONTACT: | Sean Trimble | | |
| CLIENT PROJECT: | 64001 | | |

## LABORATORY CONTROL SAMPLE RESULTS

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene - BSD | EPA-8260 | **96.7** | **6** | | 50 | 150 | 03/04/2019 | DLC |
| Naphthalene - BS | EPA-8260 | **98.6** | | | 50 | 150 | 03/04/2019 | DLC |
| Naphthalene - BSD | EPA-8260 | **103** | **4** | | 50 | 150 | 03/04/2019 | DLC |
| 1,2,3-Trichlorobenzene - BS | EPA-8260 | **101** | | | 50 | 150 | 03/04/2019 | DLC |
| 1,2,3-Trichlorobenzene - BSD | EPA-8260 | **98.4** | **2** | | 50 | 150 | 03/04/2019 | DLC |

### ALS Test Batch ID: R333604 - Water by EPA-7196

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| Chromium (VI) - BS | EPA-7196 | **100** | | | 90 | 114 | 02/26/2019 | RAL |
| Chromium (VI) - BSD | EPA-7196 | **100** | **0** | | 90 | 114 | 02/26/2019 | RAL |

APPROVED BY



Laboratory Director



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# Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): EV1902011 9

Date 2/25/19 Page 1 Of 4

| | |
|---|---|
| PROJECT ID: | 64001 |
| REPORT TO COMPANY: | EPI |
| PROJECT MANAGER: | Sean Trimble |
| ADDRESS: | 1180 NW Maple St Ste 310 Issaquah, Wa, 98027 |
| PHONE: | 425-395-0010 P.O. #: |
| E-MAIL: | seant@epi-wa.com |
| INVOICE TO COMPANY: | |
| ATTENTION: | |
| ADDRESS: | |

ANALYSIS REQUESTED

OTHER (Specify)

| SAMPLE I.D. | DATE | TIME | TYPE | LAB# | NWTPH-HCID | NWTPH-DX | NWTPH-GX | BTEX by EPA 8021 ☐ BTEX by EPA 8260 ☐ | MTBE by EPA 8021 ☐ MTBE by EPA 8260 ☐ | Halogenated Volatiles by EPA 8260 | Volatile Organic Compounds by EPA 8260 | EDB / EDC by EPA 8260 SIM (water) | EDB / EDC by EPA 8260 (soil) | Semivolatile Organic Compounds by EPA 8270 | Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM | PCB by EPA 8082 ☐ Pesticides by EPA 8081 ☐ | Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐ | Metals Other (Specify) | TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐ | Hex Cr | | | | | | | NUMBER OF CONTAINERS | RECEIVED IN GOOD CONDITION? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. MW-05i | 2/25/19 | 1215 | water | 1 | | | | | | | X | | | | | | | | | | | | | | | | | 3 | |
| 2. MW-23i | | 1249 | | 2 | | | | | | | X | | | | | | | | | | | | | | | | | 3 | |
| 3. MW-23s | | 1325 | | 3 | | | | | | | X | | | | | | | | | | | | | | | | | 3 | |
| 4. MW-20i | | 1359 | | 4 | | | | | | | X | | | | | | | | | | | | | | | | | 3 | |
| 5. MW-28s | 2/26/19 | 0815 | | 5 | | | | | | | X | | | | | | | | | | | | | | | | | 3 | |
| 6. SBW-4 | | 0820 | | 6 | | | | | | | X | | | | | | | | | | | | | | | | | 3 | |
| 7. MW-12 | | 0827 | | 7 | | | | | | | X | | | | | | | | | | | | | | | | | 3 | |
| 8. MW-27s | | 0833 | | 8 | | | | | | | X | | | | | | | | | | | | | | | | | 3 | |
| 9. MW-11 | | 0840 | | 9 | | | | | | | X | | | | | | | | | X | | | | | | | | 4 | |
| 10. MW-10i | | 0850 | | 10 | | | | | | | X | | | | | | | | | | | | | | | | | 3 | |

**SPECIAL INSTRUCTIONS**

**SIGNATURES** (Name, Company, Date, Time):

1. Relinquished By: EPI 2/26/19 1355
   Received By: ALS 2/26/19 1355
2. Relinquished By:
   Received By:

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: [10] Standard | 5 | 3 | 2 | 1 | SAME DAY

Fuels & Hydrocarbon Analysis: 5 Standard | 3 | 1 | SAME DAY

OTHER:
Specify:

*Turnaround request less than standard may incur Rush Charges

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# Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): EV1902019

Date 2/26/19 Page 2 Of 4

PROJECT ID: 64001
REPORT TO COMPANY: EPI
PROJECT MANAGER: Sean Trimble
ADDRESS: 1180 NW Maple St Ste 310
Issaquah, Wa, 98027
PHONE: 425-395-0000 P.O. #:
E-MAIL: seant@epi-wa.com
INVOICE TO COMPANY:
ATTENTION:
ADDRESS:

ANALYSIS REQUESTED

OTHER (Specify)

| SAMPLE I.D. | DATE | TIME | TYPE | LAB# | NWTPH-HCID | NWTPH-DX | NWTPH-GX | BTEX by EPA 8021 ☐ BTEX by EPA 8260 ☐ | MTBE by EPA 8021 ☐ MTBE by EPA 8260 ☐ | Halogenated Volatiles by EPA 8260 | Volatile Organic Compounds by EPA 8260 | EDB / EDC by EPA 8260 SIM (water) | EDB / EDC by EPA 8260 (soil) | Semivolatile Organic Compounds by EPA 8270 | Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM | PCB by EPA 8082 ☐ Pesticides by EPA 8081 ☐ | Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐ | Metals Other (Specify) | TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐ | | | | | | | | NUMBER OF CONTAINERS | RECEIVED IN GOOD CONDITION? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. MW-10 | 2/26/19 | 0857 | Water | 11 | | | | | | | X | | | | | | | | | | | | | | | 3 | |
| 2. MW-26s | " | 0900 | " | 12 | | | | | | | X | | | | | | | | | | | | | | | 3 | |
| 3. MW-26i | " | 0905 | " | 13 | | | | | | | X | | | | | | | | | | | | | | | 3 | |
| 4. MW-25s | " | 0910 | " | 14 | | | | | | | X | | | | | | | | | | | | | | | 3 | |
| 5. MW-25i | " | 0912 | " | 15 | | | | | | | X | | | | | | | | | | | | | | | 3 | |
| 6. MW-21s | " | 0938 | " | 16 | | | | | | | X | | | | | | | | | | | | | | | 3 | |
| 7. MW-21i | " | 0940 | " | 17 | | | | | | | X | | | | | | | | | | | | | | | 3 | |
| 8. MW-22s | " | 0946 | " | 18 | | | | | | | X | | | | | | | | | | | | | | | 3 | |
| 9. MW-22i | " | 0948 | " | 19 | | | | | | | X | | | | | | | | | | | | | | | 3 | |
| 10. MW-07 | " | 0958 | " | 20 | | | | | | | X | | | | | | | | | | | | | | | 3 | |

**SPECIAL INSTRUCTIONS**

**SIGNATURES** (Name, Company, Date, Time):

1. Relinquished By: EPI 2/26/19 1355
Received By: ALS 2/26/19 13:55
2. Relinquished By:
Received By:

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: ~~10~~ Standard | 5 | 3 | 2 | 1 | SAME DAY

Fuels & Hydrocarbon Analysis: 5 Standard | 3 | 1 | SAME DAY

OTHER: Specify:

*Turnaround request less than standard may incur Rush Charges

**ALS Environmental**
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

# Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): EV1902019

Date 2/26/19 Page 3 Of 4

PROJECT ID: 64001
REPORT TO COMPANY: ~~Sean Trimble~~ EPI
PROJECT MANAGER: Sean Trimble
ADDRESS: 1180 NW Maple St ste 310
Issaquah, Wa. 98027
PHONE: 425-395-0010 P.O. #:
E-MAIL: seant@epi-wa.com
INVOICE TO COMPANY:
ATTENTION:
ADDRESS:

ANALYSIS REQUESTED

OTHER (Specify)

| SAMPLE I.D. | DATE | TIME | TYPE | LAB# | NWTPH-HCID | NWTPH-DX | NWTPH-GX | BTEX by EPA 8021 ☐ BTEX by EPA 8260 ☐ | MTBE by EPA 8021 ☐ MTBE by EPA 8260 ☐ | Halogenated Volatiles by EPA 8260 | Volatile Organic Compounds by EPA 8260 | EDB / EDC by EPA 8260 SIM (water) | EDB / EDC by EPA 8260 (soil) | Semivolatile Organic Compounds by EPA 8270 | Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM | PCB by EPA 8082 ☐ Pesticides by EPA 8081 ☐ | Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐ | Metals Other (Specify) | TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐ | Hex Cr | | | | | | | NUMBER OF CONTAINERS | RECEIVED IN GOOD CONDITION? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. MW-4 | 2/26/19 | 1003 | Water | 21 | | | | | | | X | | | | | | | | | | | | | | | | | 3 | |
| 2. MW-4i | ↓ | 1005 | ↓ | 22 | | | | | | | X | | | | | | | | | | | | | | | | | 3 | |
| 3. MW-9 | | 1011 | | 23 | | | | | | | X | | | | | | | | | | | | | | | | | 3 | |
| 4. MW-8 | | 1020 | | 24 | | | | | | | X | | | | | | | | | | | | | | | | | 3 | |
| 5. MW-05s | | 1058 | | 25 | | | | | | | X | | | | | | | | | X | | | | | | | | 3 | |
| 6. MW-20s | | 1138 | | 26 | | | | | | | X | | | | | | | | | X | | | | | | | | 4 | |
| 7. MW-5B | | 1232 | | 27 | | | | | | | X | | | | | | | | | | | | | | | | | 3 | |
| 8. MW-24ir | | 1241 | | 28 | | | | | | | X | | | | | | | | | | | | | | | | | 3 | |
| 9. MW-1 | | 1246 | | 29 | | | | | | | X | | | | | | | | | | | | | | | | | 3 | |
| 10. MW-1i | ↓ | 1254 | ↓ | 30 | | | | | | | X | | | | | | | | | | | | | | | | | 3 | |

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: EPI 2/26/19 1355
Received By: ALS 2/26/19 1355
2. Relinquished By:
Received By:

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: ~~10~~ Standard | 5 | 3 | 2 | 1 | SAME DAY

Fuels & Hydrocarbon Analysis: 5 Standard | 3 | 1 | SAME DAY

OTHER:
Specify:

*Turnaround request less than standard may incur Rush Charges

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Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
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# Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): EV1902019

Date 2/26/19 Page 4 Of 4

PROJECT ID: 64001
REPORT TO COMPANY: EPI
PROJECT MANAGER: Sean Trimble
ADDRESS: 1180 NW Maple St Ste 310
Issaquah, Wa, 98027
PHONE: 425-395-0010 P.O. #:
E-MAIL: sean@epi-wa.com
INVOICE TO COMPANY:
ATTENTION:
ADDRESS:

ANALYSIS REQUESTED

OTHER (Specify)

| SAMPLE I.D. | DATE | TIME | TYPE | LAB# | NWTPH-HCID | NWTPH-DX | NWTPH-GX | BTEX by EPA 8021 ☐ BTEX by EPA 8260 ☐ | MTBE by EPA 8021 ☐ MTBE by EPA 8260 ☐ | Halogenated Volatiles by EPA 8260 | Volatile Organic Compounds by EPA 8260 | EDB / EDC by EPA 8260 SIM (water) | EDB / EDC by EPA 8260 (soil) | Semivolatile Organic Compounds by EPA 8270 | Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM | PCB by EPA 8082 ☐ Pesticides by EPA 8081 ☐ | Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐ | Metals Other (Specify) | TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐ | OTHER (Specify) | NUMBER OF CONTAINERS | RECEIVED IN GOOD CONDITION? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. MW-7ir | 2/26/19 | 1300 | Water | 31 | | | | | | | X | | | | | | | | | | 3 | |
| 2. MW-7s | " | 1305 | " | 32 | | | | | | | X | | | | | | | | | | 3 | |
| 3. MW-29s | " | 1315 | " | 33 | | | | | | | X | | | | | | | | | | 3 | |
| 4. MW-15i | " | 1320 | " | 34 | | | | | | | X | | | | | | | | | | 3 | |
| 5. MW-15s | " | 1327 | " | 35 | | | | | | | X | | | | | | | | | | 3 | |
| 6. SBW-1 | " | 1330 | " | 36 | | | | | | | X | | | | | | | | | | 3 | |
| 7. MW-16 | " | 1340 | " | 37 | | | | | | | X | | | | | | | | | | 3 | |
| 8. Dup-1 | " | | " | 38 | | | | | | | X | | | | | | | | | | | |
| 9. Dup-2 | " | | " | 39 | | | | | | | X | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | | | | | | | |

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: EPI 2/26/19 1355
Received By: ALS 2-26-19 13:55
2. Relinquished By:
Received By:

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: ~~10~~ Standard | 5 | 3 | 2 | 1 | SAME DAY

Fuels & Hydrocarbon Analysis: 5 Standard | 3 | 1 | SAME DAY

OTHER: Specify:

*Turnaround request less than standard may incur Rush Charges

March 6, 2019

Mr. Sean Trimble
Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

Dear Mr. Trimble,

On February 27th, 10 samples were received by our laboratory and assigned our laboratory project number EV19020127. The project was identified as your 64001. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director



ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

Environmental www.alsglobal.com
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ALS Environmental

## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/6/2019<br>EV19020127<br>EV19020127-01 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/27/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/27/2019 7:23:00 AM |
| CLIENT SAMPLE ID | SBW-3 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 03/05/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 03/05/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 03/05/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 03/05/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **8.6** | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Trichloroethene | EPA-8260 | **38** | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 03/05/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 03/05/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 03/05/2019 | DLC |



ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

Environmental www.alsglobal.com
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ALS Environmental

## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/6/2019<br>EV19020127<br>EV19020127-01 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/27/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/27/2019 7:23:00 AM |
| CLIENT SAMPLE ID | SBW-3 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 03/05/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Chromium (VI) | EPA-7196 | **91** | 10 | 1 | UG/L | 02/27/2019 | RAL |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **95.8** | 03/05/2019 | DLC |
| Toluene-d8 | EPA-8260 | **98.0** | 03/05/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **101** | 03/05/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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ALS Group USA, Corp dba ALS Environmental

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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/6/2019<br>EV19020127<br>EV19020127-02 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/27/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/27/2019 8:00:00 AM |
| CLIENT SAMPLE ID | SBW-2 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Vinyl Chloride | EPA-8260 | **12** | 0.20 | 1 | UG/L | 03/05/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 03/05/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 03/05/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 03/05/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **39** | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 03/05/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 03/05/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 03/05/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/6/2019<br>EV19020127<br>EV19020127-02 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/27/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/27/2019 8:00:00 AM |
| CLIENT SAMPLE ID | SBW-2 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 03/05/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Chromium (VI) | EPA-7196 | U | 10 | 1 | UG/L | 02/27/2019 | RAL |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **106** | 03/05/2019 | DLC |
| Toluene-d8 | EPA-8260 | **97.0** | 03/05/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **99.9** | 03/05/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/6/2019<br>EV19020127<br>EV19020127-03 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/27/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/27/2019 8:29:00 AM |
| CLIENT SAMPLE ID | MW-24s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Vinyl Chloride | EPA-8260 | **3.6** | 0.20 | 1 | UG/L | 03/05/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 03/05/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 03/05/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 03/05/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 03/05/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 03/05/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 03/05/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/6/2019<br>EV19020127<br>EV19020127-03 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/27/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/27/2019 8:29:00 AM |
| CLIENT SAMPLE ID | MW-24s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 03/05/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **104** | 03/05/2019 | DLC |
| Toluene-d8 | EPA-8260 | **98.0** | 03/05/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **102** | 03/05/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/6/2019<br>EV19020127<br>EV19020127-04 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/27/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/27/2019 9:05:00 AM |
| CLIENT SAMPLE ID | MW-2 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 03/05/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 03/05/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 03/05/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 03/05/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 03/05/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 03/05/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 03/05/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/6/2019<br>EV19020127<br>EV19020127-04 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/27/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/27/2019 9:05:00 AM |
| CLIENT SAMPLE ID | MW-2 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 03/05/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Chromium (VI) | EPA-7196 | U | 10 | 1 | UG/L | 02/27/2019 | RAL |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **104** | 03/05/2019 | DLC |
| Toluene-d8 | EPA-8260 | **97.0** | 03/05/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **104** | 03/05/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/6/2019<br>EV19020127<br>EV19020127-05 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/27/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/27/2019 10:02:00 AM |
| CLIENT SAMPLE ID | MW-3 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Vinyl Chloride | EPA-8260 | **1.4** | 0.20 | 1 | UG/L | 03/05/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 03/05/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 03/05/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 03/05/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **29** | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Trichloroethene | EPA-8260 | **70** | 20 | 10 | UG/L | 03/06/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 03/05/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 03/05/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 03/05/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/6/2019<br>EV19020127<br>EV19020127-05 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/27/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/27/2019 10:02:00 AM |
| CLIENT SAMPLE ID | MW-3 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 03/05/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Chromium (VI) | EPA-7196 | U | 10 | 1 | UG/L | 02/27/2019 | RAL |
| Chromium | EPA-200.8 | **110** | 2.0 | 1 | UG/L | 03/04/2019 | RAL |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **97.9** | 03/05/2019 | DLC |
| 1,2-Dichloroethane-d4 10X Dilution | EPA-8260 | **98.9** | 03/06/2019 | DLC |
| Toluene-d8 | EPA-8260 | **97.3** | 03/05/2019 | DLC |
| Toluene-d8 10X Dilution | EPA-8260 | **97.0** | 03/06/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **107** | 03/05/2019 | DLC |
| 4-Bromofluorobenzene 10X Dilution | EPA-8260 | **109** | 03/06/2019 | DLC |

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| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/6/2019<br>EV19020127<br>EV19020127-06 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/27/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/27/2019 12:50:00 PM |
| CLIENT SAMPLE ID | MW-8s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Vinyl Chloride | EPA-8260 | **21** | 0.20 | 1 | UG/L | 03/05/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 03/05/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 03/05/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | **2.8** | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 03/05/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **30** | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Trichloroethene | EPA-8260 | **24** | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 03/05/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 03/05/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 03/05/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/6/2019<br>EV19020127<br>EV19020127-06 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/27/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/27/2019 12:50:00 PM |
| CLIENT SAMPLE ID | MW-8s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 03/05/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Chromium (VI) | EPA-7196 | U | 10 | 1 | UG/L | 02/27/2019 | RAL |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **103** | 03/05/2019 | DLC |
| Toluene-d8 | EPA-8260 | **97.3** | 03/05/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **107** | 03/05/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/6/2019<br>EV19020127<br>EV19020127-07 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/27/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/27/2019 11:41:00 AM |
| CLIENT SAMPLE ID | MW-18 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 03/06/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 03/06/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 03/06/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 03/06/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 03/06/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Chloroform | EPA-8260 | **9.0** | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Trichloroethene | EPA-8260 | **2.5** | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 03/06/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 03/06/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 03/06/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/6/2019<br>EV19020127<br>EV19020127-07 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/27/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/27/2019 11:41:00 AM |
| CLIENT SAMPLE ID | MW-18 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 03/06/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 03/06/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Chromium (VI) | EPA-7196 | U | 10 | 1 | UG/L | 02/27/2019 | RAL |
| Chromium | EPA-200.8 | **100** | 2.0 | 1 | UG/L | 03/04/2019 | RAL |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **101** | 03/06/2019 | DLC |
| Toluene-d8 | EPA-8260 | **99.3** | 03/06/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **106** | 03/06/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/6/2019<br>EV19020127<br>EV19020127-08 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/27/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/27/2019 12:16:00 PM |
| CLIENT SAMPLE ID | MW-19 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 03/06/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 03/06/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 03/06/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 03/06/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 03/06/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **15** | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Trichloroethene | EPA-8260 | **2.3** | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 03/06/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 03/06/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 03/06/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |



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| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/6/2019<br>EV19020127<br>EV19020127-08 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/27/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/27/2019 12:16:00 PM |
| CLIENT SAMPLE ID | MW-19 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 03/06/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 03/06/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Chromium (VI) | EPA-7196 | U | 10 | 1 | UG/L | 02/27/2019 | RAL |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **103** | 03/06/2019 | DLC |
| Toluene-d8 | EPA-8260 | **100** | 03/06/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **108** | 03/06/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/6/2019<br>EV19020127<br>EV19020127-09 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/27/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/27/2019 1:04:00 PM |
| CLIENT SAMPLE ID | MW-14 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 03/06/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 03/06/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 03/06/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 03/06/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 03/06/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Trichloroethene | EPA-8260 | **2.0** | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 03/06/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 03/06/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 03/06/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |



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| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/6/2019<br>EV19020127<br>EV19020127-09 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/27/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/27/2019 1:04:00 PM |
| CLIENT SAMPLE ID | MW-14 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 03/06/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 03/06/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/06/2019 | DLC |
| Chromium (VI) | EPA-7196 | **41** | 10 | 1 | UG/L | 02/27/2019 | RAL |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **102** | 03/06/2019 | DLC |
| Toluene-d8 | EPA-8260 | **98.3** | 03/06/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **108** | 03/06/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/6/2019<br>EV19020127<br>EV19020127-10 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/27/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/27/2019 |
| CLIENT SAMPLE ID | DUP-3 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Vinyl Chloride | EPA-8260 | **22** | 0.20 | 1 | UG/L | 03/05/2019 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 03/05/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 03/05/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | **2.8** | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 03/05/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **31** | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Trichloroethene | EPA-8260 | **25** | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 03/05/2019 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 03/05/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 03/05/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |



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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 3/6/2019<br>EV19020127<br>EV19020127-10 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 02/27/2019 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 2/27/2019 |
| CLIENT SAMPLE ID | DUP-3 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 03/05/2019 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 03/05/2019 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **102** | 03/05/2019 | DLC |
| Toluene-d8 | EPA-8260 | **97.7** | 03/05/2019 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **107** | 03/05/2019 | DLC |

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## CERTIFICATE OF ANALYSIS

CLIENT: Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 3/6/2019
ALS SDG#: EV19020127
WDOE ACCREDITATION: C601

## LABORATORY BLANK RESULTS

### MB-030519W - Batch 138432 - Water by EPA-8260

| ANALYTE | METHOD | RESULTS | UNITS | REPORTING LIMITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| Chloromethane | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| Vinyl Chloride | EPA-8260 | U | UG/L | 0.20 | 03/05/2019 | DLC |
| Bromomethane | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| Chloroethane | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| Carbon Disulfide | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| Acetone | EPA-8260 | U | UG/L | 25 | 03/05/2019 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| Methylene Chloride | EPA-8260 | U | UG/L | 5.0 | 03/05/2019 | DLC |
| Acrylonitrile | EPA-8260 | U | UG/L | 10 | 03/05/2019 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| 2-Butanone | EPA-8260 | U | UG/L | 10 | 03/05/2019 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| Bromochloromethane | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| Chloroform | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| Benzene | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| Trichloroethene | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| Dibromomethane | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| Bromodichloromethane | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | UG/L | 10 | 03/05/2019 | DLC |
| Toluene | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| 2-Hexanone | EPA-8260 | U | UG/L | 10 | 03/05/2019 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| Tetrachloroethylene | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| Dibromochloromethane | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | UG/L | 0.010 | 03/05/2019 | DLC |
| Chlorobenzene | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

CLIENT: Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 3/6/2019
ALS SDG#: EV19020127
WDOE ACCREDITATION: C601

## LABORATORY BLANK RESULTS

### MB-030519W - Batch 138432 - Water by EPA-8260

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| Ethylbenzene | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| m,p-Xylene | EPA-8260 | U | UG/L | 4.0 | 03/05/2019 | DLC |
| Styrene | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| o-Xylene | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| Bromoform | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| Isopropylbenzene | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| Bromobenzene | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| N-Propyl Benzene | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| T-Butyl Benzene | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| S-Butyl Benzene | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| N-Butylbenzene | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | UG/L | 10 | 03/05/2019 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| Naphthalene | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 03/05/2019 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.

### MBLK-R333759 - Batch R333759 - Water by EPA-7196

| ANALYTE | METHOD | RESULTS | UNITS | REPORTING LIMITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|
| Chromium (VI) | EPA-7196 | U | UG/L | 10 | 02/27/2019 | RAL |

U - Analyte analyzed for but not detected at level above reporting limit.

### MB-030119W - Batch 138336 - Water by EPA-200.8

| ANALYTE | METHOD | RESULTS | UNITS | REPORTING LIMITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|
| Chromium | EPA-200.8 | U | UG/L | 2.0 | 03/04/2019 | RAL |



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| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE: | 3/6/2019 |
| | | ALS SDG#: | EV19020127 |
| | | WDOE ACCREDITATION: | C601 |
| CLIENT CONTACT: | Sean Trimble | | |
| CLIENT PROJECT: | 64001 | | |

LABORATORY BLANK RESULTS

**MB-030119W - Batch 138336 - Water by EPA-200.8**

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Issaquah, WA 98027

CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 3/6/2019
ALS SDG#: EV19020127
WDOE ACCREDITATION: C601

## LABORATORY CONTROL SAMPLE RESULTS

### ALS Test Batch ID: 138432 - Water by EPA-8260

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane - BS | EPA-8260 | **114** | | | 50 | 150 | 03/05/2019 | DLC |
| Dichlorodifluoromethane - BSD | EPA-8260 | **108** | **5** | | 50 | 150 | 03/05/2019 | DLC |
| Chloromethane - BS | EPA-8260 | **123** | | | 50 | 150 | 03/05/2019 | DLC |
| Chloromethane - BSD | EPA-8260 | **125** | **2** | | 50 | 150 | 03/05/2019 | DLC |
| Vinyl Chloride - BS | EPA-8260 | **93.7** | | | 50 | 150 | 03/05/2019 | DLC |
| Vinyl Chloride - BSD | EPA-8260 | **95.1** | **1** | | 50 | 150 | 03/05/2019 | DLC |
| Bromomethane - BS | EPA-8260 | **107** | | | 50 | 150 | 03/05/2019 | DLC |
| Bromomethane - BSD | EPA-8260 | **109** | **2** | | 50 | 150 | 03/05/2019 | DLC |
| Chloroethane - BS | EPA-8260 | **93.8** | | | 50 | 150 | 03/05/2019 | DLC |
| Chloroethane - BSD | EPA-8260 | **95.5** | **2** | | 50 | 150 | 03/05/2019 | DLC |
| Carbon Tetrachloride - BS | EPA-8260 | **98.1** | | | 50 | 150 | 03/05/2019 | DLC |
| Carbon Tetrachloride - BSD | EPA-8260 | **99.2** | **1** | | 50 | 150 | 03/05/2019 | DLC |
| Trichlorofluoromethane - BS | EPA-8260 | **103** | | | 50 | 150 | 03/05/2019 | DLC |
| Trichlorofluoromethane - BSD | EPA-8260 | **102** | **2** | | 50 | 150 | 03/05/2019 | DLC |
| Carbon Disulfide - BS | EPA-8260 | **87.0** | | | 50 | 150 | 03/05/2019 | DLC |
| Carbon Disulfide - BSD | EPA-8260 | **86.5** | **1** | | 50 | 150 | 03/05/2019 | DLC |
| Acetone - BS | EPA-8260 | **83.2** | | | 50 | 150 | 03/05/2019 | DLC |
| Acetone - BSD | EPA-8260 | **128** | **43** | | 50 | 150 | 03/05/2019 | DLC |
| 1,1-Dichloroethene - BS | EPA-8260 | **93.3** | | | 72.5 | 136 | 03/05/2019 | DLC |
| 1,1-Dichloroethene - BSD | EPA-8260 | **91.9** | **2** | | 72.5 | 136 | 03/05/2019 | DLC |
| Methylene Chloride - BS | EPA-8260 | **102** | | | 50 | 150 | 03/05/2019 | DLC |
| Methylene Chloride - BSD | EPA-8260 | **101** | **1** | | 50 | 150 | 03/05/2019 | DLC |
| Acrylonitrile - BS | EPA-8260 | **100** | | | 50 | 150 | 03/05/2019 | DLC |
| Acrylonitrile - BSD | EPA-8260 | **99.8** | **1** | | 50 | 150 | 03/05/2019 | DLC |
| Methyl T-Butyl Ether - BS | EPA-8260 | **89.8** | | | 50 | 150 | 03/05/2019 | DLC |
| Methyl T-Butyl Ether - BSD | EPA-8260 | **88.9** | **1** | | 50 | 150 | 03/05/2019 | DLC |
| Trans-1,2-Dichloroethene - BS | EPA-8260 | **91.2** | | | 50 | 150 | 03/05/2019 | DLC |
| Trans-1,2-Dichloroethene - BSD | EPA-8260 | **92.7** | **2** | | 50 | 150 | 03/05/2019 | DLC |
| 1,1-Dichloroethane - BS | EPA-8260 | **90.5** | | | 50 | 150 | 03/05/2019 | DLC |
| 1,1-Dichloroethane - BSD | EPA-8260 | **89.6** | **1** | | 50 | 150 | 03/05/2019 | DLC |
| 2-Butanone - BS | EPA-8260 | **93.3** | | | 50 | 150 | 03/05/2019 | DLC |
| 2-Butanone - BSD | EPA-8260 | **122** | **27** | | 50 | 150 | 03/05/2019 | DLC |
| Cis-1,2-Dichloroethene - BS | EPA-8260 | **89.0** | | | 50 | 150 | 03/05/2019 | DLC |
| Cis-1,2-Dichloroethene - BSD | EPA-8260 | **89.1** | **0** | | 50 | 150 | 03/05/2019 | DLC |
| 2,2-Dichloropropane - BS | EPA-8260 | **90.4** | | | 50 | 150 | 03/05/2019 | DLC |
| 2,2-Dichloropropane - BSD | EPA-8260 | **88.6** | **2** | | 50 | 150 | 03/05/2019 | DLC |
| Bromochloromethane - BS | EPA-8260 | **89.5** | | | 50 | 150 | 03/05/2019 | DLC |
| Bromochloromethane - BSD | EPA-8260 | **87.1** | **3** | | 50 | 150 | 03/05/2019 | DLC |
| Chloroform - BS | EPA-8260 | **91.1** | | | 50 | 150 | 03/05/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

CLIENT: Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 3/6/2019
ALS SDG#: EV19020127
WDOE ACCREDITATION: C601

## LABORATORY CONTROL SAMPLE RESULTS

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| Chloroform - BSD | EPA-8260 | **89.9** | **1** | | 50 | 150 | 03/05/2019 | DLC |
| 1,1,1-Trichloroethane - BS | EPA-8260 | **93.0** | | | 50 | 150 | 03/05/2019 | DLC |
| 1,1,1-Trichloroethane - BSD | EPA-8260 | **93.1** | **0** | | 50 | 150 | 03/05/2019 | DLC |
| 1,1-Dichloropropene - BS | EPA-8260 | **93.7** | | | 50 | 150 | 03/05/2019 | DLC |
| 1,1-Dichloropropene - BSD | EPA-8260 | **92.9** | **1** | | 50 | 150 | 03/05/2019 | DLC |
| 1,2-Dichloroethane - BS | EPA-8260 | **98.5** | | | 50 | 150 | 03/05/2019 | DLC |
| 1,2-Dichloroethane - BSD | EPA-8260 | **96.1** | **2** | | 50 | 150 | 03/05/2019 | DLC |
| Benzene - BS | EPA-8260 | **115** | | | 74.7 | 143 | 03/05/2019 | DLC |
| Benzene - BSD | EPA-8260 | **115** | **0** | | 74.7 | 143 | 03/05/2019 | DLC |
| Trichloroethene - BS | EPA-8260 | **113** | | | 74.4 | 141 | 03/05/2019 | DLC |
| Trichloroethene - BSD | EPA-8260 | **114** | **1** | | 74.4 | 141 | 03/05/2019 | DLC |
| 1,2-Dichloropropane - BS | EPA-8260 | **102** | | | 50 | 150 | 03/05/2019 | DLC |
| 1,2-Dichloropropane - BSD | EPA-8260 | **101** | **1** | | 50 | 150 | 03/05/2019 | DLC |
| Dibromomethane - BS | EPA-8260 | **102** | | | 50 | 150 | 03/05/2019 | DLC |
| Dibromomethane - BSD | EPA-8260 | **102** | **1** | | 50 | 150 | 03/05/2019 | DLC |
| Bromodichloromethane - BS | EPA-8260 | **103** | | | 50 | 150 | 03/05/2019 | DLC |
| Bromodichloromethane - BSD | EPA-8260 | **103** | **1** | | 50 | 150 | 03/05/2019 | DLC |
| Trans-1,3-Dichloropropene - BS | EPA-8260 | **107** | | | 50 | 150 | 03/05/2019 | DLC |
| Trans-1,3-Dichloropropene - BSD | EPA-8260 | **111** | **4** | | 50 | 150 | 03/05/2019 | DLC |
| 4-Methyl-2-Pentanone - BS | EPA-8260 | **99.7** | | | 50 | 150 | 03/05/2019 | DLC |
| 4-Methyl-2-Pentanone - BSD | EPA-8260 | **97.4** | **2** | | 50 | 150 | 03/05/2019 | DLC |
| Toluene - BS | EPA-8260 | **96.7** | | | 71.7 | 139 | 03/05/2019 | DLC |
| Toluene - BSD | EPA-8260 | **99.4** | **3** | | 71.7 | 139 | 03/05/2019 | DLC |
| Cis-1,3-Dichloropropene - BS | EPA-8260 | **103** | | | 50 | 150 | 03/05/2019 | DLC |
| Cis-1,3-Dichloropropene - BSD | EPA-8260 | **103** | **1** | | 50 | 150 | 03/05/2019 | DLC |
| 1,1,2-Trichloroethane - BS | EPA-8260 | **98.5** | | | 50 | 150 | 03/05/2019 | DLC |
| 1,1,2-Trichloroethane - BSD | EPA-8260 | **101** | **2** | | 50 | 150 | 03/05/2019 | DLC |
| 2-Hexanone - BS | EPA-8260 | **89.6** | | | 50 | 150 | 03/05/2019 | DLC |
| 2-Hexanone - BSD | EPA-8260 | **107** | **18** | | 50 | 150 | 03/05/2019 | DLC |
| 1,3-Dichloropropane - BS | EPA-8260 | **98.5** | | | 50 | 150 | 03/05/2019 | DLC |
| 1,3-Dichloropropane - BSD | EPA-8260 | **102** | **3** | | 50 | 150 | 03/05/2019 | DLC |
| Tetrachloroethylene - BS | EPA-8260 | **82.6** | | | 50 | 150 | 03/05/2019 | DLC |
| Tetrachloroethylene - BSD | EPA-8260 | **110** | **29** | | 50 | 150 | 03/05/2019 | DLC |
| Dibromochloromethane - BS | EPA-8260 | **98.2** | | | 50 | 150 | 03/05/2019 | DLC |
| Dibromochloromethane - BSD | EPA-8260 | **102** | **4** | | 50 | 150 | 03/05/2019 | DLC |
| 1,2-Dibromoethane - BS | EPA-8260 | **101** | | | 50 | 150 | 03/05/2019 | DLC |
| 1,2-Dibromoethane - BSD | EPA-8260 | **104** | **3** | | 50 | 150 | 03/05/2019 | DLC |
| Chlorobenzene - BS | EPA-8260 | **99.5** | | | 73 | 131 | 03/05/2019 | DLC |
| Chlorobenzene - BSD | EPA-8260 | **104** | **4** | | 73 | 131 | 03/05/2019 | DLC |
| 1,1,1,2-Tetrachloroethane - BS | EPA-8260 | **100** | | | 50 | 150 | 03/05/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

CLIENT: Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 3/6/2019
ALS SDG#: EV19020127
WDOE ACCREDITATION: C601

## LABORATORY CONTROL SAMPLE RESULTS

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane - BSD | EPA-8260 | **104** | **4** | | 50 | 150 | 03/05/2019 | DLC |
| Ethylbenzene - BS | EPA-8260 | **100** | | | 50 | 150 | 03/05/2019 | DLC |
| Ethylbenzene - BSD | EPA-8260 | **105** | **4** | | 50 | 150 | 03/05/2019 | DLC |
| m,p-Xylene - BS | EPA-8260 | **99.8** | | | 50 | 150 | 03/05/2019 | DLC |
| m,p-Xylene - BSD | EPA-8260 | **104** | **4** | | 50 | 150 | 03/05/2019 | DLC |
| Styrene - BS | EPA-8260 | **106** | | | 50 | 150 | 03/05/2019 | DLC |
| Styrene - BSD | EPA-8260 | **111** | **5** | | 50 | 150 | 03/05/2019 | DLC |
| o-Xylene - BS | EPA-8260 | **100** | | | 50 | 150 | 03/05/2019 | DLC |
| o-Xylene - BSD | EPA-8260 | **104** | **4** | | 50 | 150 | 03/05/2019 | DLC |
| Bromoform - BS | EPA-8260 | **98.1** | | | 50 | 150 | 03/05/2019 | DLC |
| Bromoform - BSD | EPA-8260 | **99.5** | **1** | | 50 | 150 | 03/05/2019 | DLC |
| Isopropylbenzene - BS | EPA-8260 | **98.8** | | | 50 | 150 | 03/05/2019 | DLC |
| Isopropylbenzene - BSD | EPA-8260 | **105** | **6** | | 50 | 150 | 03/05/2019 | DLC |
| 1,1,2,2-Tetrachloroethane - BS | EPA-8260 | **96.3** | | | 50 | 150 | 03/05/2019 | DLC |
| 1,1,2,2-Tetrachloroethane - BSD | EPA-8260 | **107** | **11** | | 50 | 150 | 03/05/2019 | DLC |
| 1,2,3-Trichloropropane - BS | EPA-8260 | **86.9** | | | 50 | 150 | 03/05/2019 | DLC |
| 1,2,3-Trichloropropane - BSD | EPA-8260 | **92.6** | **6** | | 50 | 150 | 03/05/2019 | DLC |
| Bromobenzene - BS | EPA-8260 | **95.8** | | | 50 | 150 | 03/05/2019 | DLC |
| Bromobenzene - BSD | EPA-8260 | **100** | **5** | | 50 | 150 | 03/05/2019 | DLC |
| N-Propyl Benzene - BS | EPA-8260 | **92.5** | | | 50 | 150 | 03/05/2019 | DLC |
| N-Propyl Benzene - BSD | EPA-8260 | **104** | **12** | | 50 | 150 | 03/05/2019 | DLC |
| 2-Chlorotoluene - BS | EPA-8260 | **90.1** | | | 50 | 150 | 03/05/2019 | DLC |
| 2-Chlorotoluene - BSD | EPA-8260 | **100** | **10** | | 50 | 150 | 03/05/2019 | DLC |
| 1,3,5-Trimethylbenzene - BS | EPA-8260 | **91.2** | | | 50 | 150 | 03/05/2019 | DLC |
| 1,3,5-Trimethylbenzene - BSD | EPA-8260 | **99.4** | **9** | | 50 | 150 | 03/05/2019 | DLC |
| 4-Chlorotoluene - BS | EPA-8260 | **94.5** | | | 50 | 150 | 03/05/2019 | DLC |
| 4-Chlorotoluene - BSD | EPA-8260 | **105** | **11** | | 50 | 150 | 03/05/2019 | DLC |
| T-Butyl Benzene - BS | EPA-8260 | **99.7** | | | 50 | 150 | 03/05/2019 | DLC |
| T-Butyl Benzene - BSD | EPA-8260 | **109** | **9** | | 50 | 150 | 03/05/2019 | DLC |
| 1,2,4-Trimethylbenzene - BS | EPA-8260 | **96.4** | | | 50 | 150 | 03/05/2019 | DLC |
| 1,2,4-Trimethylbenzene - BSD | EPA-8260 | **106** | **10** | | 50 | 150 | 03/05/2019 | DLC |
| S-Butyl Benzene - BS | EPA-8260 | **94.3** | | | 50 | 150 | 03/05/2019 | DLC |
| S-Butyl Benzene - BSD | EPA-8260 | **105** | **10** | | 50 | 150 | 03/05/2019 | DLC |
| P-Isopropyltoluene - BS | EPA-8260 | **99.7** | | | 50 | 150 | 03/05/2019 | DLC |
| P-Isopropyltoluene - BSD | EPA-8260 | **109** | **9** | | 50 | 150 | 03/05/2019 | DLC |
| 1,3-Dichlorobenzene - BS | EPA-8260 | **99.6** | | | 50 | 150 | 03/05/2019 | DLC |
| 1,3-Dichlorobenzene - BSD | EPA-8260 | **106** | **7** | | 50 | 150 | 03/05/2019 | DLC |
| 1,4-Dichlorobenzene - BS | EPA-8260 | **100** | | | 50 | 150 | 03/05/2019 | DLC |
| 1,4-Dichlorobenzene - BSD | EPA-8260 | **107** | **6** | | 50 | 150 | 03/05/2019 | DLC |
| N-Butylbenzene - BS | EPA-8260 | **115** | | | 50 | 150 | 03/05/2019 | DLC |



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## CERTIFICATE OF ANALYSIS

CLIENT: Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 3/6/2019
ALS SDG#: EV19020127
WDOE ACCREDITATION: C601

## LABORATORY CONTROL SAMPLE RESULTS

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| N-Butylbenzene - BSD | EPA-8260 | **131** | **13** | | 50 | 150 | 03/05/2019 | DLC |
| 1,2-Dichlorobenzene - BS | EPA-8260 | **100** | | | 50 | 150 | 03/05/2019 | DLC |
| 1,2-Dichlorobenzene - BSD | EPA-8260 | **107** | **6** | | 50 | 150 | 03/05/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane - BS | EPA-8260 | **98.5** | | | 50 | 150 | 03/05/2019 | DLC |
| 1,2-Dibromo 3-Chloropropane - BSD | EPA-8260 | **110** | **11** | | 50 | 150 | 03/05/2019 | DLC |
| 1,2,4-Trichlorobenzene - BS | EPA-8260 | **101** | | | 50 | 150 | 03/05/2019 | DLC |
| 1,2,4-Trichlorobenzene - BSD | EPA-8260 | **110** | **8** | | 50 | 150 | 03/05/2019 | DLC |
| Hexachlorobutadiene - BS | EPA-8260 | **103** | | | 50 | 150 | 03/05/2019 | DLC |
| Hexachlorobutadiene - BSD | EPA-8260 | **109** | **6** | | 50 | 150 | 03/05/2019 | DLC |
| Naphthalene - BS | EPA-8260 | **95.0** | | | 50 | 150 | 03/05/2019 | DLC |
| Naphthalene - BSD | EPA-8260 | **106** | **11** | | 50 | 150 | 03/05/2019 | DLC |
| 1,2,3-Trichlorobenzene - BS | EPA-8260 | **101** | | | 50 | 150 | 03/05/2019 | DLC |
| 1,2,3-Trichlorobenzene - BSD | EPA-8260 | **110** | **8** | | 50 | 150 | 03/05/2019 | DLC |

### ALS Test Batch ID: R333759 - Water by EPA-7196

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| Chromium (VI) - BS | EPA-7196 | **99.0** | | | 90 | 114 | 02/27/2019 | RAL |
| Chromium (VI) - BSD | EPA-7196 | **102** | **3** | | 90 | 114 | 02/27/2019 | RAL |

### ALS Test Batch ID: 138336 - Water by EPA-200.8

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| Chromium - BS | EPA-200.8 | **94.5** | | | 88.3 | 110.2 | 03/04/2019 | RAL |
| Chromium - BSD | EPA-200.8 | **94.0** | **1** | | 88.3 | 110.2 | 03/04/2019 | RAL |

APPROVED BY

Laboratory Director



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# Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): EV1902027

Date 2/27/19 Page 1 Of

PROJECT ID: 64001
REPORT TO COMPANY: EPI
PROJECT MANAGER: Sean Trimble
ADDRESS: 1180 NW Maple st Ste 310
Issaquah, Wa, 98027
PHONE: 425-395-0010 P.O. #:
E-MAIL: Sean@epi-wa.com
INVOICE TO COMPANY:
ATTENTION:
ADDRESS:

ANALYSIS REQUESTED

OTHER (Specify)

| SAMPLE I.D. | DATE | TIME | TYPE | LAB# | NWTPH-HCID | NWTPH-DX | NWTPH-GX | BTEX by EPA 8021 ☐ BTEX by EPA 8260 ☐ | MTBE by EPA 8021 ☐ MTBE by EPA 8260 ☐ | Halogenated Volatiles by EPA 8260 | Volatile Organic Compounds by EPA 8260 | EDB / EDC by EPA 8260 SIM (water) | EDB / EDC by EPA 8260 (soil) | Semivolatile Organic Compounds by EPA 8270 | Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM | PCB by EPA 8082 ☐ Pesticides by EPA 8081 ☐ | Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐ | Metals Other (Specify) | TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐ | Hex Cr | Total Cr | | | | | | NUMBER OF CONTAINERS | RECEIVED IN GOOD CONDITION? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. SBW-3 | 2/27/19 | 723 | water | 1 | | | | | | | X | | | | | | | | X | | | | | | | 4 | |
| 2. SBW-2 | | 800 | | 2 | | | | | | | X | | | | | | | | X | | | | | | | 4 | |
| 3. MW-24s | | 829 | | 3 | | | | | | | X | | | | | | | | | | | | | | | 3 | |
| 4. MW-2 | | 905 | | 4 | | | | | | | X | | | | | | | | X | | | | | | | 4 | |
| 5. MW-3 | | 1002 | | 5 | | | | | | | X | | | | | | | | X | X | | | | | | ~~5~~ 4 | |
| 6. MW-8s A | | 1250 | | 6 | | | | | | | X | | | | | | | | X | | | | | | | 4 | |
| 7. MW-18 | | 1141 | | 7 | | | | | | | X | | | | | | | | X | X | | | | | | 5 | |
| 8. MW-19 | | 1216 | | 8 | | | | | | | X | | | | | | | | X | ~~X~~ | | | | | | 4 | |
| 9. MW-14 | | 1304 | | 9 | | | | | | | X | | | | | | | | X | | | | | | | 4 | |
| 10. Dup-3 | | | | 10 | | | | | | | X | | | | | | | | | | | | | | | | |

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Westley Wertzberger EPI 2/27/19 14:17
Received By: ALS 2/27/19 14:17
2. Relinquished By:
Received By:

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: ~~10~~ Standard | 5 | 3 | 2 | 1 | SAME DAY

Fuels & Hydrocarbon Analysis: 5 Standard | 3 | 1 | SAME DAY

OTHER:
Specify: A. Please filter the poly bottle for MW-8s.

*Turnaround request less than standard may incur Rush Charges

June 15, 2018

Mr. Sean Trimble
Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

Dear Mr. Trimble,

On June 13th, 15 samples were received by our laboratory and assigned our laboratory project number EV18060083. The project was identified as your 64001. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group



Rick Bagan
Laboratory Director



ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 6/15/2018<br>EV18060083<br>EV18060083-01 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 06/13/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 6/12/2018 12:00:00 PM |
| CLIENT SAMPLE ID | MW-14 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 06/14/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 06/14/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trichloroethene | EPA-8260 | **4.7** | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 06/14/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 6/15/2018<br>EV18060083<br>EV18060083-01 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 06/13/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 6/12/2018 12:00:00 PM |
| CLIENT SAMPLE ID | MW-14 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 06/14/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **103** | 06/14/2018 | DLC |
| Toluene-d8 | EPA-8260 | **99.3** | 06/14/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **98.0** | 06/14/2018 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 6/15/2018<br>EV18060083<br>EV18060083-02 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 06/13/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 6/12/2018 12:04:00 PM |
| CLIENT SAMPLE ID | MW-15I | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Vinyl Chloride | EPA-8260 | **2.4** | 0.20 | 1 | UG/L | 06/14/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 06/14/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trichloroethene | EPA-8260 | **2.2** | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 06/14/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 6/15/2018<br>EV18060083<br>EV18060083-02 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 06/13/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 6/12/2018 12:04:00 PM |
| CLIENT SAMPLE ID | MW-15I | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 06/14/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **103** | 06/14/2018 | DLC |
| Toluene-d8 | EPA-8260 | **99.7** | 06/14/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **99.4** | 06/14/2018 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 6/15/2018<br>EV18060083<br>EV18060083-03 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 06/13/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 6/12/2018 12:15:00 PM |
| CLIENT SAMPLE ID | MW-19 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 06/14/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 06/14/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **15** | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 06/14/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |



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| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 6/15/2018<br>EV18060083<br>EV18060083-03 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 06/13/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 6/12/2018 12:15:00 PM |
| CLIENT SAMPLE ID | MW-19 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 06/14/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **103** | 06/14/2018 | DLC |
| Toluene-d8 | EPA-8260 | **99.4** | 06/14/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **98.9** | 06/14/2018 | DLC |

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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 6/15/2018<br>EV18060083<br>EV18060083-04 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 06/13/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 6/12/2018 12:20:00 PM |
| CLIENT SAMPLE ID | MW-21s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 06/14/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 06/14/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 06/14/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 6/15/2018<br>EV18060083<br>EV18060083-04 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 06/13/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 6/12/2018 12:20:00 PM |
| CLIENT SAMPLE ID | MW-21s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 06/14/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **103** | 06/14/2018 | DLC |
| Toluene-d8 | EPA-8260 | **101** | 06/14/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **102** | 06/14/2018 | DLC |

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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 6/15/2018<br>EV18060083<br>EV18060083-05 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 06/13/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 6/12/2018 12:27:00 PM |
| CLIENT SAMPLE ID | MW-24s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Vinyl Chloride | EPA-8260 | **4.5** | 0.20 | 1 | UG/L | 06/14/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 06/14/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 06/14/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 6/15/2018<br>EV18060083<br>EV18060083-05 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 06/13/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 6/12/2018 12:27:00 PM |
| CLIENT SAMPLE ID | MW-24s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 06/14/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **102** | 06/14/2018 | DLC |
| Toluene-d8 | EPA-8260 | **101** | 06/14/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **100** | 06/14/2018 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

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| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 6/15/2018<br>EV18060083<br>EV18060083-06 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 06/13/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 6/12/2018 12:41:00 PM |
| CLIENT SAMPLE ID | MW-11 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Vinyl Chloride | EPA-8260 | **0.26** | 0.20 | 1 | UG/L | 06/14/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 06/14/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **49** | 20 | 10 | UG/L | 06/15/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trichloroethene | EPA-8260 | **35** | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 06/14/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 6/15/2018<br>EV18060083<br>EV18060083-06 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 06/13/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 6/12/2018 12:41:00 PM |
| CLIENT SAMPLE ID | MW-11 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 06/14/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **103** | 06/14/2018 | DLC |
| 1,2-Dichloroethane-d4 10X Dilution | EPA-8260 | **103** | 06/15/2018 | DLC |
| Toluene-d8 | EPA-8260 | **98.7** | 06/14/2018 | DLC |
| Toluene-d8 10X Dilution | EPA-8260 | **101** | 06/15/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **98.8** | 06/14/2018 | DLC |
| 4-Bromofluorobenzene 10X Dilution | EPA-8260 | **101** | 06/15/2018 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 6/15/2018<br>EV18060083<br>EV18060083-07 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 06/13/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 6/12/2018 12:50:00 PM |
| CLIENT SAMPLE ID | MW-26s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Vinyl Chloride | EPA-8260 | **0.78** | 0.20 | 1 | UG/L | 06/14/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 06/14/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **17** | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trichloroethene | EPA-8260 | **2.1** | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 06/14/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 6/15/2018<br>EV18060083<br>EV18060083-07 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 06/13/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 6/12/2018 12:50:00 PM |
| CLIENT SAMPLE ID | MW-26s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 06/14/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **103** | 06/14/2018 | DLC |
| Toluene-d8 | EPA-8260 | **100** | 06/14/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **101** | 06/14/2018 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 6/15/2018<br>EV18060083<br>EV18060083-08 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 06/13/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 6/12/2018 1:01:00 PM |
| CLIENT SAMPLE ID | MW-7ir | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Vinyl Chloride | EPA-8260 | **0.83** | 0.20 | 1 | UG/L | 06/14/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 06/14/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 06/14/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |



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| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 6/15/2018<br>EV18060083<br>EV18060083-08 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 06/13/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 6/12/2018 1:01:00 PM |
| CLIENT SAMPLE ID | MW-7ir | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 06/14/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **102** | 06/14/2018 | DLC |
| Toluene-d8 | EPA-8260 | **100** | 06/14/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **99.9** | 06/14/2018 | DLC |

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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 6/15/2018<br>EV18060083<br>EV18060083-09 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 06/13/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 6/12/2018 1:15:00 PM |
| CLIENT SAMPLE ID | MW-7s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Vinyl Chloride | EPA-8260 | **4.7** | 0.20 | 1 | UG/L | 06/14/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 06/14/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **14** | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 06/14/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 6/15/2018<br>EV18060083<br>EV18060083-09 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 06/13/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 6/12/2018 1:15:00 PM |
| CLIENT SAMPLE ID | MW-7s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 06/14/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **103** | 06/14/2018 | DLC |
| Toluene-d8 | EPA-8260 | **101** | 06/14/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **102** | 06/14/2018 | DLC |

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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 6/15/2018<br>EV18060083<br>EV18060083-10 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 06/13/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 6/13/2018 8:35:00 AM |
| CLIENT SAMPLE ID | SBW-3 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 06/14/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 06/14/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **7.8** | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trichloroethene | EPA-8260 | **20** | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 06/14/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

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| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 6/15/2018<br>EV18060083<br>EV18060083-10 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 06/13/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 6/13/2018 8:35:00 AM |
| CLIENT SAMPLE ID | SBW-3 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 06/14/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chromium (VI) | EPA-7196 | **51** | 10 | 1 | UG/L | 06/13/2018 | RAL |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **103** | 06/14/2018 | DLC |
| Toluene-d8 | EPA-8260 | **100** | 06/14/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **102** | 06/14/2018 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 06/13/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 6/13/2018 9:20:00 AM |
| CLIENT SAMPLE ID | MW-8s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Vinyl Chloride | EPA-8260 | **7.4** | 0.20 | 1 | UG/L | 06/14/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 06/14/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | **3.4** | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **3.7** | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 06/14/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 6/15/2018<br>EV18060083<br>EV18060083-11 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 06/13/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 6/13/2018 9:20:00 AM |
| CLIENT SAMPLE ID | MW-8s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 06/14/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **101** | 06/14/2018 | DLC |
| Toluene-d8 | EPA-8260 | **98.9** | 06/14/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **97.6** | 06/14/2018 | DLC |

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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 6/15/2018<br>EV18060083<br>EV18060083-12 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 06/13/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 6/13/2018 9:40:00 AM |
| CLIENT SAMPLE ID | SBW-2 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Vinyl Chloride | EPA-8260 | **81** | 2.0 | 10 | UG/L | 06/15/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 06/14/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **270** | 20 | 10 | UG/L | 06/15/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trichloroethene | EPA-8260 | **27** | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 06/14/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |



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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 6/15/2018<br>EV18060083<br>EV18060083-12 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 06/13/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 6/13/2018 9:40:00 AM |
| CLIENT SAMPLE ID | SBW-2 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 06/14/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/14/2018 | DLC |
| Chromium (VI) | EPA-7196 | U | 10 | 1 | UG/L | 06/13/2018 | RAL |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **103** | 06/14/2018 | DLC |
| 1,2-Dichloroethane-d4 10X Dilution | EPA-8260 | **103** | 06/15/2018 | DLC |
| Toluene-d8 | EPA-8260 | **99.9** | 06/14/2018 | DLC |
| Toluene-d8 10X Dilution | EPA-8260 | **99.7** | 06/15/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **99.5** | 06/14/2018 | DLC |
| 4-Bromofluorobenzene 10X Dilution | EPA-8260 | **101** | 06/15/2018 | DLC |

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| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 6/15/2018<br>EV18060083<br>EV18060083-13 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 06/13/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 6/13/2018 9:55:00 AM |
| CLIENT SAMPLE ID | MW-3 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Chromium (VI) | EPA-7196 | U | 10 | 1 | UG/L | 06/13/2018 | RAL |

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| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 6/15/2018<br>EV18060083<br>EV18060083-14 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 06/13/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 6/13/2018 10:15:00 AM |
| CLIENT SAMPLE ID | MW-18 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Chromium (VI) | EPA-7196 | U | 10 | 1 | UG/L | 06/13/2018 | RAL |

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 6/15/2018<br>EV18060083<br>EV18060083-15 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 06/13/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 6/13/2018 |
| CLIENT SAMPLE ID | DUP-1 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 06/15/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 06/15/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 06/15/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 06/15/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 06/15/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **7.9** | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| Trichloroethene | EPA-8260 | **20** | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 06/15/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 06/15/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 06/15/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 6/15/2018<br>EV18060083<br>EV18060083-15 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 06/13/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 6/13/2018 |
| CLIENT SAMPLE ID | DUP-1 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 06/15/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 06/15/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 06/15/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **102** | 06/15/2018 | DLC |
| Toluene-d8 | EPA-8260 | **101** | 06/15/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **98.9** | 06/15/2018 | DLC |

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## CERTIFICATE OF ANALYSIS

CLIENT: Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

CLIENT CONTACT: Sean Trimble

CLIENT PROJECT: 64001

DATE: 6/15/2018

ALS SDG#: EV18060083

WDOE ACCREDITATION: C601

## LABORATORY BLANK RESULTS

### MB-061418W - Batch 129460 - Water by EPA-8260

| ANALYTE | METHOD | RESULTS | UNITS | REPORTING LIMITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| Chloromethane | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| Vinyl Chloride | EPA-8260 | U | UG/L | 0.20 | 06/14/2018 | DLC |
| Bromomethane | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| Chloroethane | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| Acetone | EPA-8260 | U | UG/L | 25 | 06/14/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | UG/L | 5.0 | 06/14/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | UG/L | 10 | 06/14/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| 2-Butanone | EPA-8260 | U | UG/L | 10 | 06/14/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| Chloroform | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| Benzene | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| Trichloroethene | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| Dibromomethane | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | UG/L | 10 | 06/14/2018 | DLC |
| Toluene | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | UG/L | 10 | 06/14/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | UG/L | 0.010 | 06/14/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

CLIENT: Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 6/15/2018
ALS SDG#: EV18060083
WDOE ACCREDITATION: C601

## LABORATORY BLANK RESULTS

### MB-061418W - Batch 129460 - Water by EPA-8260

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | UG/L | 4.0 | 06/14/2018 | DLC |
| Styrene | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| o-Xylene | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| Bromoform | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| Bromobenzene | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | UG/L | 10 | 06/14/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| Naphthalene | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 06/14/2018 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.

### MBLK-R317986 - Batch R317986 - Water by EPA-7196

| ANALYTE | METHOD | RESULTS | UNITS | REPORTING LIMITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|
| Chromium (VI) | EPA-7196 | U | UG/L | 10 | 06/13/2018 | RAL |

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## CERTIFICATE OF ANALYSIS

CLIENT: Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 6/15/2018
ALS SDG#: EV18060083
WDOE ACCREDITATION: C601

## LABORATORY CONTROL SAMPLE RESULTS

### ALS Test Batch ID: 129460 - Water by EPA-8260

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane - BS | EPA-8260 | **108** | | | 50 | 150 | 06/14/2018 | DLC |
| Dichlorodifluoromethane - BSD | EPA-8260 | **107** | **1** | | 50 | 150 | 06/14/2018 | DLC |
| Chloromethane - BS | EPA-8260 | **93.8** | | | 50 | 150 | 06/14/2018 | DLC |
| Chloromethane - BSD | EPA-8260 | **92.7** | **1** | | 50 | 150 | 06/14/2018 | DLC |
| Vinyl Chloride - BS | EPA-8260 | **108** | | | 50 | 150 | 06/14/2018 | DLC |
| Vinyl Chloride - BSD | EPA-8260 | **110** | **2** | | 50 | 150 | 06/14/2018 | DLC |
| Bromomethane - BS | EPA-8260 | **59.4** | | | 50 | 150 | 06/14/2018 | DLC |
| Bromomethane - BSD | EPA-8260 | **63.7** | **7** | | 50 | 150 | 06/14/2018 | DLC |
| Chloroethane - BS | EPA-8260 | **109** | | | 50 | 150 | 06/14/2018 | DLC |
| Chloroethane - BSD | EPA-8260 | **110** | **1** | | 50 | 150 | 06/14/2018 | DLC |
| Carbon Tetrachloride - BS | EPA-8260 | **98.3** | | | 50 | 150 | 06/14/2018 | DLC |
| Carbon Tetrachloride - BSD | EPA-8260 | **99.6** | **1** | | 50 | 150 | 06/14/2018 | DLC |
| Trichlorofluoromethane - BS | EPA-8260 | **110** | | | 50 | 150 | 06/14/2018 | DLC |
| Trichlorofluoromethane - BSD | EPA-8260 | **111** | **1** | | 50 | 150 | 06/14/2018 | DLC |
| Carbon Disulfide - BS | EPA-8260 | **111** | | | 50 | 150 | 06/14/2018 | DLC |
| Carbon Disulfide - BSD | EPA-8260 | **113** | **1** | | 50 | 150 | 06/14/2018 | DLC |
| Acetone - BS | EPA-8260 | **102** | | | 50 | 150 | 06/14/2018 | DLC |
| Acetone - BSD | EPA-8260 | **92.0** | **10** | | 50 | 150 | 06/14/2018 | DLC |
| 1,1-Dichloroethene - BS | EPA-8260 | **107** | | | 72.5 | 136 | 06/14/2018 | DLC |
| 1,1-Dichloroethene - BSD | EPA-8260 | **109** | **2** | | 72.5 | 136 | 06/14/2018 | DLC |
| Methylene Chloride - BS | EPA-8260 | **106** | | | 50 | 150 | 06/14/2018 | DLC |
| Methylene Chloride - BSD | EPA-8260 | **107** | **2** | | 50 | 150 | 06/14/2018 | DLC |
| Acrylonitrile - BS | EPA-8260 | **109** | | | 50 | 150 | 06/14/2018 | DLC |
| Acrylonitrile - BSD | EPA-8260 | **110** | **1** | | 50 | 150 | 06/14/2018 | DLC |
| Methyl T-Butyl Ether - BS | EPA-8260 | **113** | | | 50 | 150 | 06/14/2018 | DLC |
| Methyl T-Butyl Ether - BSD | EPA-8260 | **114** | **1** | | 50 | 150 | 06/14/2018 | DLC |
| Trans-1,2-Dichloroethene - BS | EPA-8260 | **107** | | | 50 | 150 | 06/14/2018 | DLC |
| Trans-1,2-Dichloroethene - BSD | EPA-8260 | **108** | **1** | | 50 | 150 | 06/14/2018 | DLC |
| 1,1-Dichloroethane - BS | EPA-8260 | **109** | | | 50 | 150 | 06/14/2018 | DLC |
| 1,1-Dichloroethane - BSD | EPA-8260 | **109** | **0** | | 50 | 150 | 06/14/2018 | DLC |
| 2-Butanone - BS | EPA-8260 | **117** | | | 50 | 150 | 06/14/2018 | DLC |
| 2-Butanone - BSD | EPA-8260 | **109** | **7** | | 50 | 150 | 06/14/2018 | DLC |
| Cis-1,2-Dichloroethene - BS | EPA-8260 | **108** | | | 50 | 150 | 06/14/2018 | DLC |
| Cis-1,2-Dichloroethene - BSD | EPA-8260 | **109** | **0** | | 50 | 150 | 06/14/2018 | DLC |
| 2,2-Dichloropropane - BS | EPA-8260 | **122** | | | 50 | 150 | 06/14/2018 | DLC |
| 2,2-Dichloropropane - BSD | EPA-8260 | **120** | **1** | | 50 | 150 | 06/14/2018 | DLC |
| Bromochloromethane - BS | EPA-8260 | **108** | | | 50 | 150 | 06/14/2018 | DLC |
| Bromochloromethane - BSD | EPA-8260 | **109** | **1** | | 50 | 150 | 06/14/2018 | DLC |
| Chloroform - BS | EPA-8260 | **110** | | | 50 | 150 | 06/14/2018 | DLC |



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DATE: 6/15/2018
ALS SDG#: EV18060083
WDOE ACCREDITATION: C601

## LABORATORY CONTROL SAMPLE RESULTS

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| Chloroform - BSD | EPA-8260 | **110** | **0** | | 50 | 150 | 06/14/2018 | DLC |
| 1,1,1-Trichloroethane - BS | EPA-8260 | **108** | | | 50 | 150 | 06/14/2018 | DLC |
| 1,1,1-Trichloroethane - BSD | EPA-8260 | **110** | **2** | | 50 | 150 | 06/14/2018 | DLC |
| 1,1-Dichloropropene - BS | EPA-8260 | **108** | | | 50 | 150 | 06/14/2018 | DLC |
| 1,1-Dichloropropene - BSD | EPA-8260 | **110** | **2** | | 50 | 150 | 06/14/2018 | DLC |
| 1,2-Dichloroethane - BS | EPA-8260 | **109** | | | 50 | 150 | 06/14/2018 | DLC |
| 1,2-Dichloroethane - BSD | EPA-8260 | **108** | **1** | | 50 | 150 | 06/14/2018 | DLC |
| Benzene - BS | EPA-8260 | **107** | | | 74.7 | 143 | 06/14/2018 | DLC |
| Benzene - BSD | EPA-8260 | **105** | **2** | | 74.7 | 143 | 06/14/2018 | DLC |
| Trichloroethene - BS | EPA-8260 | **107** | | | 74.4 | 141 | 06/14/2018 | DLC |
| Trichloroethene - BSD | EPA-8260 | **106** | **1** | | 74.4 | 141 | 06/14/2018 | DLC |
| 1,2-Dichloropropane - BS | EPA-8260 | **111** | | | 50 | 150 | 06/14/2018 | DLC |
| 1,2-Dichloropropane - BSD | EPA-8260 | **109** | **2** | | 50 | 150 | 06/14/2018 | DLC |
| Dibromomethane - BS | EPA-8260 | **112** | | | 50 | 150 | 06/14/2018 | DLC |
| Dibromomethane - BSD | EPA-8260 | **110** | **2** | | 50 | 150 | 06/14/2018 | DLC |
| Bromodichloromethane - BS | EPA-8260 | **114** | | | 50 | 150 | 06/14/2018 | DLC |
| Bromodichloromethane - BSD | EPA-8260 | **112** | **1** | | 50 | 150 | 06/14/2018 | DLC |
| Trans-1,3-Dichloropropene - BS | EPA-8260 | **117** | | | 50 | 150 | 06/14/2018 | DLC |
| Trans-1,3-Dichloropropene - BSD | EPA-8260 | **115** | **2** | | 50 | 150 | 06/14/2018 | DLC |
| 4-Methyl-2-Pentanone - BS | EPA-8260 | **114** | | | 50 | 150 | 06/14/2018 | DLC |
| 4-Methyl-2-Pentanone - BSD | EPA-8260 | **113** | **1** | | 50 | 150 | 06/14/2018 | DLC |
| Toluene - BS | EPA-8260 | **109** | | | 71.7 | 139 | 06/14/2018 | DLC |
| Toluene - BSD | EPA-8260 | **108** | **1** | | 71.7 | 139 | 06/14/2018 | DLC |
| Cis-1,3-Dichloropropene - BS | EPA-8260 | **117** | | | 50 | 150 | 06/14/2018 | DLC |
| Cis-1,3-Dichloropropene - BSD | EPA-8260 | **115** | **2** | | 50 | 150 | 06/14/2018 | DLC |
| 1,1,2-Trichloroethane - BS | EPA-8260 | **111** | | | 50 | 150 | 06/14/2018 | DLC |
| 1,1,2-Trichloroethane - BSD | EPA-8260 | **110** | **1** | | 50 | 150 | 06/14/2018 | DLC |
| 2-Hexanone - BS | EPA-8260 | **113** | | | 50 | 150 | 06/14/2018 | DLC |
| 2-Hexanone - BSD | EPA-8260 | **106** | **6** | | 50 | 150 | 06/14/2018 | DLC |
| 1,3-Dichloropropane - BS | EPA-8260 | **112** | | | 50 | 150 | 06/14/2018 | DLC |
| 1,3-Dichloropropane - BSD | EPA-8260 | **110** | **2** | | 50 | 150 | 06/14/2018 | DLC |
| Tetrachloroethylene - BS | EPA-8260 | **94.1** | | | 50 | 150 | 06/14/2018 | DLC |
| Tetrachloroethylene - BSD | EPA-8260 | **92.7** | **1** | | 50 | 150 | 06/14/2018 | DLC |
| Dibromochloromethane - BS | EPA-8260 | **116** | | | 50 | 150 | 06/14/2018 | DLC |
| Dibromochloromethane - BSD | EPA-8260 | **114** | **1** | | 50 | 150 | 06/14/2018 | DLC |
| 1,2-Dibromoethane - BS | EPA-8260 | **118** | | | 50 | 150 | 06/14/2018 | DLC |
| 1,2-Dibromoethane - BSD | EPA-8260 | **116** | **1** | | 50 | 150 | 06/14/2018 | DLC |
| Chlorobenzene - BS | EPA-8260 | **110** | | | 73 | 131 | 06/14/2018 | DLC |
| Chlorobenzene - BSD | EPA-8260 | **109** | **2** | | 73 | 131 | 06/14/2018 | DLC |
| 1,1,1,2-Tetrachloroethane - BS | EPA-8260 | **112** | | | 50 | 150 | 06/14/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

CLIENT: Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 6/15/2018
ALS SDG#: EV18060083
WDOE ACCREDITATION: C601

## LABORATORY CONTROL SAMPLE RESULTS

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane - BSD | EPA-8260 | **110** | **1** | | 50 | 150 | 06/14/2018 | DLC |
| Ethylbenzene - BS | EPA-8260 | **110** | | | 50 | 150 | 06/14/2018 | DLC |
| Ethylbenzene - BSD | EPA-8260 | **109** | **2** | | 50 | 150 | 06/14/2018 | DLC |
| m,p-Xylene - BS | EPA-8260 | **110** | | | 50 | 150 | 06/14/2018 | DLC |
| m,p-Xylene - BSD | EPA-8260 | **108** | **2** | | 50 | 150 | 06/14/2018 | DLC |
| Styrene - BS | EPA-8260 | **115** | | | 50 | 150 | 06/14/2018 | DLC |
| Styrene - BSD | EPA-8260 | **113** | **2** | | 50 | 150 | 06/14/2018 | DLC |
| o-Xylene - BS | EPA-8260 | **110** | | | 50 | 150 | 06/14/2018 | DLC |
| o-Xylene - BSD | EPA-8260 | **107** | **2** | | 50 | 150 | 06/14/2018 | DLC |
| Bromoform - BS | EPA-8260 | **117** | | | 50 | 150 | 06/14/2018 | DLC |
| Bromoform - BSD | EPA-8260 | **115** | **1** | | 50 | 150 | 06/14/2018 | DLC |
| Isopropylbenzene - BS | EPA-8260 | **110** | | | 50 | 150 | 06/14/2018 | DLC |
| Isopropylbenzene - BSD | EPA-8260 | **109** | **2** | | 50 | 150 | 06/14/2018 | DLC |
| 1,1,2,2-Tetrachloroethane - BS | EPA-8260 | **117** | | | 50 | 150 | 06/14/2018 | DLC |
| 1,1,2,2-Tetrachloroethane - BSD | EPA-8260 | **118** | **1** | | 50 | 150 | 06/14/2018 | DLC |
| 1,2,3-Trichloropropane - BS | EPA-8260 | **113** | | | 50 | 150 | 06/14/2018 | DLC |
| 1,2,3-Trichloropropane - BSD | EPA-8260 | **114** | **1** | | 50 | 150 | 06/14/2018 | DLC |
| Bromobenzene - BS | EPA-8260 | **112** | | | 50 | 150 | 06/14/2018 | DLC |
| Bromobenzene - BSD | EPA-8260 | **112** | **0** | | 50 | 150 | 06/14/2018 | DLC |
| N-Propyl Benzene - BS | EPA-8260 | **112** | | | 50 | 150 | 06/14/2018 | DLC |
| N-Propyl Benzene - BSD | EPA-8260 | **113** | **1** | | 50 | 150 | 06/14/2018 | DLC |
| 2-Chlorotoluene - BS | EPA-8260 | **112** | | | 50 | 150 | 06/14/2018 | DLC |
| 2-Chlorotoluene - BSD | EPA-8260 | **113** | **1** | | 50 | 150 | 06/14/2018 | DLC |
| 1,3,5-Trimethylbenzene - BS | EPA-8260 | **114** | | | 50 | 150 | 06/14/2018 | DLC |
| 1,3,5-Trimethylbenzene - BSD | EPA-8260 | **114** | **0** | | 50 | 150 | 06/14/2018 | DLC |
| 4-Chlorotoluene - BS | EPA-8260 | **113** | | | 50 | 150 | 06/14/2018 | DLC |
| 4-Chlorotoluene - BSD | EPA-8260 | **113** | **0** | | 50 | 150 | 06/14/2018 | DLC |
| T-Butyl Benzene - BS | EPA-8260 | **121** | | | 50 | 150 | 06/14/2018 | DLC |
| T-Butyl Benzene - BSD | EPA-8260 | **122** | **1** | | 50 | 150 | 06/14/2018 | DLC |
| 1,2,4-Trimethylbenzene - BS | EPA-8260 | **116** | | | 50 | 150 | 06/14/2018 | DLC |
| 1,2,4-Trimethylbenzene - BSD | EPA-8260 | **116** | **0** | | 50 | 150 | 06/14/2018 | DLC |
| S-Butyl Benzene - BS | EPA-8260 | **112** | | | 50 | 150 | 06/14/2018 | DLC |
| S-Butyl Benzene - BSD | EPA-8260 | **113** | **1** | | 50 | 150 | 06/14/2018 | DLC |
| P-Isopropyltoluene - BS | EPA-8260 | **114** | | | 50 | 150 | 06/14/2018 | DLC |
| P-Isopropyltoluene - BSD | EPA-8260 | **116** | **1** | | 50 | 150 | 06/14/2018 | DLC |
| 1,3-Dichlorobenzene - BS | EPA-8260 | **112** | | | 50 | 150 | 06/14/2018 | DLC |
| 1,3-Dichlorobenzene - BSD | EPA-8260 | **113** | **1** | | 50 | 150 | 06/14/2018 | DLC |
| 1,4-Dichlorobenzene - BS | EPA-8260 | **114** | | | 50 | 150 | 06/14/2018 | DLC |
| 1,4-Dichlorobenzene - BSD | EPA-8260 | **113** | **1** | | 50 | 150 | 06/14/2018 | DLC |
| N-Butylbenzene - BS | EPA-8260 | **117** | | | 50 | 150 | 06/14/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

CLIENT: Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 6/15/2018
ALS SDG#: EV18060083
WDOE ACCREDITATION: C601

## LABORATORY CONTROL SAMPLE RESULTS

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| N-Butylbenzene - BSD | EPA-8260 | **118** | **0** | | 50 | 150 | 06/14/2018 | DLC |
| 1,2-Dichlorobenzene - BS | EPA-8260 | **112** | | | 50 | 150 | 06/14/2018 | DLC |
| 1,2-Dichlorobenzene - BSD | EPA-8260 | **113** | **1** | | 50 | 150 | 06/14/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane - BS | EPA-8260 | **121** | | | 50 | 150 | 06/14/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane - BSD | EPA-8260 | **122** | **1** | | 50 | 150 | 06/14/2018 | DLC |
| 1,2,4-Trichlorobenzene - BS | EPA-8260 | **120** | | | 50 | 150 | 06/14/2018 | DLC |
| 1,2,4-Trichlorobenzene - BSD | EPA-8260 | **122** | **1** | | 50 | 150 | 06/14/2018 | DLC |
| Hexachlorobutadiene - BS | EPA-8260 | **116** | | | 50 | 150 | 06/14/2018 | DLC |
| Hexachlorobutadiene - BSD | EPA-8260 | **116** | **0** | | 50 | 150 | 06/14/2018 | DLC |
| Naphthalene - BS | EPA-8260 | **123** | | | 50 | 150 | 06/14/2018 | DLC |
| Naphthalene - BSD | EPA-8260 | **125** | **2** | | 50 | 150 | 06/14/2018 | DLC |
| 1,2,3-Trichlorobenzene - BS | EPA-8260 | **120** | | | 50 | 150 | 06/14/2018 | DLC |
| 1,2,3-Trichlorobenzene - BSD | EPA-8260 | **122** | **1** | | 50 | 150 | 06/14/2018 | DLC |

### ALS Test Batch ID: R317986 - Water by EPA-7196

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| Chromium (VI) - BS | EPA-7196 | **101** | | | 90 | 114 | 06/13/2018 | RAL |
| Chromium (VI) - BSD | EPA-7196 | **104** | **3** | | 90 | 114 | 06/13/2018 | RAL |

APPROVED BY



Laboratory Director



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# Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): EV18060083

Date 6/13/18 Page 1 Of 8

PROJECT ID: 64001
REPORT TO COMPANY: EPI
PROJECT MANAGER: Sean Trimble
ADDRESS: 1180 NW Maple St.
Issaquah, WA 98027
PHONE: 425-395-0010 P.O. #:
E-MAIL:
INVOICE TO COMPANY: EPI
ATTENTION:
ADDRESS:

ANALYSIS REQUESTED

| SAMPLE I.D. | DATE | TIME | TYPE | LAB# | NWTPH-HCID | NWTPH-DX | NWTPH-GX | BTEX by EPA 8021 ☐ BTEX by EPA 8260 ☐ | MTBE by EPA 8021 ☐ MTBE by EPA 8260 ☐ | Halogenated Volatiles by EPA 8260 | Volatile Organic Compounds by EPA 8260 | EDB / EDC by EPA 8260 SIM (water) | EDB / EDC by EPA 8260 (soil) | Semivolatile Organic Compounds by EPA 8270 | Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM | PCB by EPA 8082 ☐ Pesticides by EPA 8081 ☐ | Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐ | Metals Other (Specify) | TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐ | OTHER (Specify): CVI by EPA 7196 | NUMBER OF CONTAINERS | RECEIVED IN GOOD CONDITION? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. MW-14 | 6/12/18 | 1200 | $H_2O$ | 1 | | | | | | | X | | | | | | | | | | 3 | |
| 2. MW-15I | | 1204 | | 2 | | | | | | | | | | | | | | | | | 3 | |
| 3. MW-19 | | 1215 | | 3 | | | | | | | | | | | | | | | | | 3 | |
| 4. MW-21S | | 1220 | | 4 | | | | | | | | | | | | | | | | | 3 | |
| 5. MW-24S | | 1227 | | 5 | | | | | | | | | | | | | | | | | 3 | |
| 6. MW-11 | | 1241 | | 6 | | | | | | | | | | | | | | | | | 3 | |
| 7. MW-26S | | 1250 | | 7 | | | | | | | | | | | | | | | | | 3 | |
| 8. MW-7IR | | 1301 | | 8 | | | | | | | | | | | | | | | | | 3 | |
| 9. MW-7S | ↓ | 1315 | | 9 | | | | | | | | | | | | | | | | | 3 | |
| 10. SBW-3 | 6/13/18 | 0835 | ↓ | 10 | | | | | | | ↓ | | | | | | | | | X | 4 | |

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: EPI 6/13/18 1207
   Received By: Sofia Salinas ALS 6/13/18 1207
2. Relinquished By:
   Received By:

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: (10) Standard | 5 | 3 | 2 | 1 | SAME DAY

Fuels & Hydrocarbon Analysis: (5) Standard | 3 | 1 | SAME DAY

OTHER: Specify:

*Turnaround request less than standard may incur Rush Charges

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# Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): EV1806083

Date 6/13/18 Page 2 of 2

PROJECT ID: 64001
REPORT TO COMPANY: EPI
PROJECT MANAGER: Sean Trimble
ADDRESS: 1180 NW Maple St.
Issaquah, WA 98027
PHONE: 425-395-0006 P.O. #:
E-MAIL:
INVOICE TO COMPANY: EPI
ATTENTION:
ADDRESS:

| SAMPLE I.D. | DATE | TIME | TYPE | LAB# | NWTPH-HCID | NWTPH-DX | NWTPH-GX | BTEX by EPA 8021 ☐ BTEX by EPA 8260 ☐ | MTBE by EPA 8021 ☐ MTBE by EPA 8260 ☐ | Halogenated Volatiles by EPA 8260 | Volatile Organic Compounds by EPA 8260 | EDB / EDC by EPA 8260 SIM (water) | EDB / EDC by EPA 8260 (soil) | Semivolatile Organic Compounds by EPA 8270 | Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM | PCB by EPA 8082 ☐ Pesticides by EPA 8081 ☐ | Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐ | Metals Other (Specify) | TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐ | OTHER (Specify): Cr VI | | | | | | | NUMBER OF CONTAINERS | RECEIVED IN GOOD CONDITION? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. MW-8S | 6/13/18 | 0920 | $H_2O$ | 11 | | | | | | | X | | | | | | | | | | | | | | | | | 3 | |
| 2. SBW-2 | | 0940 | | 12 | | | | | | | X | | | | | | | | | X | | | | | | | | 4 | |
| 3. MW-3 | | 0955 | | 13 | | | | | | | | | | | | | | | | X | | | | | | | | 1 | |
| 4. MW-18 | | 1015 | | 14 | | | | | | | | | | | | | | | | X | | | | | | | | 1 | |
| 5. Dup-1 | | | | 15 | | | | | | | X | | | | | | | | | | | | | | | | | 2 | |
| 6. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Joe Sherrod, EPI, 6/13/18/ 1207
   Received By: Sig Sulmen ALS 6/13/18 1207
2. Relinquished By:
   Received By:

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: (10) Standard | 5 | 3 | 2 | 1 | SAME DAY

Fuels & Hydrocarbon Analysis: (5) Standard | 3 | 1 | SAME DAY

OTHER:
Specify:

*Turnaround request less than standard may incur Rush Charges

August 16, 2018

Mr. Sean Trimble
Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

Dear Mr. Trimble,

On August 9th, 16 samples were received by our laboratory and assigned our laboratory project number EV18080053. The project was identified as your 64001. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director



ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/16/2018<br>EV18080053<br>EV18080053-01 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/09/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/8/2018 12:20:00 PM |
| CLIENT SAMPLE ID | SBW-4 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 08/13/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 08/13/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 08/13/2018 | DLC |



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ALS Group USA, Corp dba ALS Environmental

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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/16/2018<br>EV18080053<br>EV18080053-01 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/09/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/8/2018 12:20:00 PM |
| CLIENT SAMPLE ID | SBW-4 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 08/13/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **96.4** | 08/13/2018 | DLC |
| Toluene-d8 | EPA-8260 | **102** | 08/13/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **96.8** | 08/13/2018 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/16/2018<br>EV18080053<br>EV18080053-02 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/09/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/8/2018 12:34:00 PM |
| CLIENT SAMPLE ID | MW-26S | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Vinyl Chloride | EPA-8260 | **1.1** | 0.20 | 1 | UG/L | 08/13/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 08/13/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **22** | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 08/13/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |



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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/16/2018<br>EV18080053<br>EV18080053-02 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/09/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/8/2018 12:34:00 PM |
| CLIENT SAMPLE ID | MW-26S | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 08/13/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **96.9** | 08/13/2018 | DLC |
| Toluene-d8 | EPA-8260 | **103** | 08/13/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **97.1** | 08/13/2018 | DLC |

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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/16/2018<br>EV18080053<br>EV18080053-03 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/09/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/9/2018 7:30:00 AM |
| CLIENT SAMPLE ID | MW-11 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 08/13/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 08/13/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **25** | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trichloroethene | EPA-8260 | **24** | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 08/13/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/16/2018<br>EV18080053<br>EV18080053-03 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/09/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/9/2018 7:30:00 AM |
| CLIENT SAMPLE ID | MW-11 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 08/13/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chromium (VI) | EPA-7196 | **14** | 10 | 1 | UG/L | 08/09/2018 | RAL |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **96.5** | 08/13/2018 | DLC |
| Toluene-d8 | EPA-8260 | **103** | 08/13/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **97.4** | 08/13/2018 | DLC |

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## CERTIFICATE OF ANALYSIS

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| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/16/2018<br>EV18080053<br>EV18080053-04 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/09/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/9/2018 8:11:00 AM |
| CLIENT SAMPLE ID | SBW-3 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 08/13/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 08/13/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **3.4** | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trichloroethene | EPA-8260 | **19** | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 08/13/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/16/2018<br>EV18080053<br>EV18080053-04 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/09/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/9/2018 8:11:00 AM |
| CLIENT SAMPLE ID | SBW-3 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 08/13/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chromium (VI) | EPA-7196 | **64** | 10 | 1 | UG/L | 08/09/2018 | RAL |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **97.1** | 08/13/2018 | DLC |
| Toluene-d8 | EPA-8260 | **102** | 08/13/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **96.1** | 08/13/2018 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/16/2018<br>EV18080053<br>EV18080053-05 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/09/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/9/2018 9:12:00 AM |
| CLIENT SAMPLE ID | SBW-2 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Vinyl Chloride | EPA-8260 | **19** | 0.20 | 1 | UG/L | 08/13/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 08/13/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **260** | 20 | 10 | UG/L | 08/14/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trichloroethene | EPA-8260 | **3.3** | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 08/13/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/16/2018<br>EV18080053<br>EV18080053-05 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/09/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/9/2018 9:12:00 AM |
| CLIENT SAMPLE ID | SBW-2 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 08/13/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chromium (VI) | EPA-7196 | U | 10 | 1 | UG/L | 08/09/2018 | RAL |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **95.6** | 08/13/2018 | DLC |
| 1,2-Dichloroethane-d4 10X Dilution | EPA-8260 | **97.5** | 08/14/2018 | DLC |
| Toluene-d8 | EPA-8260 | **102** | 08/13/2018 | DLC |
| Toluene-d8 10X Dilution | EPA-8260 | **102** | 08/14/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **96.3** | 08/13/2018 | DLC |
| 4-Bromofluorobenzene 10X Dilution | EPA-8260 | **96.0** | 08/14/2018 | DLC |

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## CERTIFICATE OF ANALYSIS

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| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/16/2018<br>EV18080053<br>EV18080053-06 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/09/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/9/2018 |
| CLIENT SAMPLE ID | Dup-1 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| Vinyl Chloride | EPA-8260 | **17** | 0.20 | 1 | UG/L | 08/15/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 08/15/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 08/15/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 08/15/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 08/15/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **250** | 20 | 10 | UG/L | 08/14/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| Trichloroethene | EPA-8260 | **3.4** | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 08/15/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 08/15/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 08/15/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |



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| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/09/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/9/2018 |
| CLIENT SAMPLE ID | Dup-1 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 08/15/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 08/15/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/15/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 10X Dilution | EPA-8260 | **97.2** | 08/14/2018 | DLC |
| 1,2-Dichloroethane-d4 | EPA-8260 | **95.0** | 08/15/2018 | DLC |
| Toluene-d8 10X Dilution | EPA-8260 | **102** | 08/14/2018 | DLC |
| Toluene-d8 | EPA-8260 | **103** | 08/15/2018 | DLC |
| 4-Bromofluorobenzene 10X Dilution | EPA-8260 | **95.6** | 08/14/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **97.1** | 08/15/2018 | DLC |

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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/16/2018<br>EV18080053<br>EV18080053-07 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/09/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/9/2018 9:40:00 AM |
| CLIENT SAMPLE ID | SBW-1 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 08/13/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 08/13/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **3.4** | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trichloroethene | EPA-8260 | **6.5** | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 08/13/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/16/2018<br>EV18080053<br>EV18080053-07 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/09/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/9/2018 9:40:00 AM |
| CLIENT SAMPLE ID | SBW-1 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 08/13/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **97.1** | 08/13/2018 | DLC |
| Toluene-d8 | EPA-8260 | **104** | 08/13/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **99.0** | 08/13/2018 | DLC |

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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/16/2018<br>EV18080053<br>EV18080053-08 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/09/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/9/2018 10:10:00 AM |
| CLIENT SAMPLE ID | MW-8s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Vinyl Chloride | EPA-8260 | **15** | 0.20 | 1 | UG/L | 08/13/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 08/13/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | **3.5** | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **8.0** | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 08/13/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/16/2018<br>EV18080053<br>EV18080053-08 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/09/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/9/2018 10:10:00 AM |
| CLIENT SAMPLE ID | MW-8s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 08/13/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **96.6** | 08/13/2018 | DLC |
| Toluene-d8 | EPA-8260 | **101** | 08/13/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **95.9** | 08/13/2018 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/09/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/9/2018 10:25:00 AM |
| CLIENT SAMPLE ID | MW-21s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 08/13/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 08/13/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 08/13/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/16/2018<br>EV18080053<br>EV18080053-09 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/09/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/9/2018 10:25:00 AM |
| CLIENT SAMPLE ID | MW-21s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 08/13/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **96.4** | 08/13/2018 | DLC |
| Toluene-d8 | EPA-8260 | **102** | 08/13/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **95.7** | 08/13/2018 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/16/2018<br>EV18080053<br>EV18080053-10 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/09/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/9/2018 1:20:00 PM |
| CLIENT SAMPLE ID | MW-3 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Vinyl Chloride | EPA-8260 | **0.98** | 0.20 | 1 | UG/L | 08/13/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 08/13/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **9.8** | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trichloroethene | EPA-8260 | **57** | 20 | 10 | UG/L | 08/14/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 08/13/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

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| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/16/2018<br>EV18080053<br>EV18080053-10 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/09/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/9/2018 1:20:00 PM |
| CLIENT SAMPLE ID | MW-3 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 08/13/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chromium (VI) | EPA-7196 | U | 10 | 1 | UG/L | 08/09/2018 | RAL |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **97.2** | 08/13/2018 | DLC |
| 1,2-Dichloroethane-d4 10X Dilution | EPA-8260 | **97.1** | 08/14/2018 | DLC |
| Toluene-d8 | EPA-8260 | **101** | 08/13/2018 | DLC |
| Toluene-d8 10X Dilution | EPA-8260 | **102** | 08/14/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **97.7** | 08/13/2018 | DLC |
| 4-Bromofluorobenzene 10X Dilution | EPA-8260 | **94.8** | 08/14/2018 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/16/2018<br>EV18080053<br>EV18080053-11 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/09/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/9/2018 1:10:00 PM |
| CLIENT SAMPLE ID | MW-18 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Vinyl Chloride | EPA-8260 | **0.75** | 0.20 | 1 | UG/L | 08/13/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 08/13/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **7.9** | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 08/13/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |



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| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/09/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/9/2018 1:10:00 PM |
| CLIENT SAMPLE ID | MW-18 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 08/13/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chromium (VI) | EPA-7196 | U | 10 | 1 | UG/L | 08/09/2018 | RAL |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **97.3** | 08/13/2018 | DLC |
| Toluene-d8 | EPA-8260 | **103** | 08/13/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **97.0** | 08/13/2018 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/16/2018<br>EV18080053<br>EV18080053-12 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/09/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/9/2018 12:54:00 PM |
| CLIENT SAMPLE ID | MW-19 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 08/13/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 08/13/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **14** | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 08/13/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |



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| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/16/2018<br>EV18080053<br>EV18080053-12 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/09/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/9/2018 12:54:00 PM |
| CLIENT SAMPLE ID | MW-19 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 08/13/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chromium (VI) | EPA-7196 | U | 10 | 1 | UG/L | 08/09/2018 | RAL |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **97.5** | 08/13/2018 | DLC |
| Toluene-d8 | EPA-8260 | **103** | 08/13/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **96.5** | 08/13/2018 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/16/2018<br>EV18080053<br>EV18080053-13 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/09/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/9/2018 11:50:00 AM |
| CLIENT SAMPLE ID | MW-7s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Vinyl Chloride | EPA-8260 | **140** | 2.0 | 10 | UG/L | 08/14/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 08/13/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | **18** | 0.97 | 10 | UG/L | 08/14/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **1800** | 200 | 100 | UG/L | 08/14/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 08/13/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |



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| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/16/2018<br>EV18080053<br>EV18080053-13 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/09/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/9/2018 11:50:00 AM |
| CLIENT SAMPLE ID | MW-7s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 08/13/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **96.6** | 08/13/2018 | DLC |
| 1,2-Dichloroethane-d4 100X Dilution | EPA-8260 | **96.6** | 08/14/2018 | DLC |
| 1,2-Dichloroethane-d4 10X Dilution | EPA-8260 | **95.8** | 08/14/2018 | DLC |
| Toluene-d8 | EPA-8260 | **101** | 08/13/2018 | DLC |
| Toluene-d8 100X Dilution | EPA-8260 | **103** | 08/14/2018 | DLC |
| Toluene-d8 10X Dilution | EPA-8260 | **102** | 08/14/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **96.3** | 08/13/2018 | DLC |
| 4-Bromofluorobenzene 100X Dilution | EPA-8260 | **96.5** | 08/14/2018 | DLC |
| 4-Bromofluorobenzene 10X Dilution | EPA-8260 | **96.1** | 08/14/2018 | DLC |



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| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/16/2018<br>EV18080053<br>EV18080053-13 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/09/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/9/2018 11:50:00 AM |
| CLIENT SAMPLE ID | MW-7s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/16/2018<br>EV18080053<br>EV18080053-14 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/09/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/9/2018 |
| CLIENT SAMPLE ID | Dup-2 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Vinyl Chloride | EPA-8260 | **150** | 2.0 | 10 | UG/L | 08/14/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 08/13/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | **37** | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **1700** | 200 | 100 | UG/L | 08/14/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 08/13/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/16/2018<br>EV18080053<br>EV18080053-14 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/09/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/9/2018 |
| CLIENT SAMPLE ID | Dup-2 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 08/13/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/13/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **97.1** | 08/13/2018 | DLC |
| 1,2-Dichloroethane-d4 100X Dilution | EPA-8260 | **96.2** | 08/14/2018 | DLC |
| 1,2-Dichloroethane-d4 10X Dilution | EPA-8260 | **96.1** | 08/14/2018 | DLC |
| Toluene-d8 | EPA-8260 | **102** | 08/13/2018 | DLC |
| Toluene-d8 100X Dilution | EPA-8260 | **102** | 08/14/2018 | DLC |
| Toluene-d8 10X Dilution | EPA-8260 | **103** | 08/14/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **98.2** | 08/13/2018 | DLC |
| 4-Bromofluorobenzene 100X Dilution | EPA-8260 | **96.6** | 08/14/2018 | DLC |
| 4-Bromofluorobenzene 10X Dilution | EPA-8260 | **99.3** | 08/14/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/16/2018<br>EV18080053<br>EV18080053-14 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/09/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/9/2018 |
| CLIENT SAMPLE ID | Dup-2 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|

U - Analyte analyzed for but not detected at level above reporting limit.



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| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/16/2018<br>EV18080053<br>EV18080053-15 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/09/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/9/2018 12:05:00 PM |
| CLIENT SAMPLE ID | MW-7ir | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| Vinyl Chloride | EPA-8260 | **0.70** | 0.20 | 1 | UG/L | 08/14/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 08/14/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 08/14/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 08/14/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 08/14/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 08/14/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 08/14/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 08/14/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

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| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/16/2018<br>EV18080053<br>EV18080053-15 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/09/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/9/2018 12:05:00 PM |
| CLIENT SAMPLE ID | MW-7ir | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 08/14/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 08/14/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/14/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **97.3** | 08/14/2018 | DLC |
| Toluene-d8 | EPA-8260 | **103** | 08/14/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **98.6** | 08/14/2018 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

CLIENT: Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 8/16/2018
ALS SDG#: EV18080053
WDOE ACCREDITATION: C601

## LABORATORY BLANK RESULTS

### MB-081318W - Batch 131519 - Water by EPA-8260

| ANALYTE | METHOD | RESULTS | UNITS | REPORTING LIMITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| Chloromethane | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| Vinyl Chloride | EPA-8260 | U | UG/L | 0.20 | 08/13/2018 | DLC |
| Bromomethane | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| Chloroethane | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| Acetone | EPA-8260 | U | UG/L | 25 | 08/13/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | UG/L | 5.0 | 08/13/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | UG/L | 10 | 08/13/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| 2-Butanone | EPA-8260 | U | UG/L | 10 | 08/13/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| Chloroform | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| Benzene | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| Trichloroethene | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| Dibromomethane | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | UG/L | 10 | 08/13/2018 | DLC |
| Toluene | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | UG/L | 10 | 08/13/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | UG/L | 0.010 | 08/13/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

CLIENT: Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 8/16/2018
ALS SDG#: EV18080053
WDOE ACCREDITATION: C601

## LABORATORY BLANK RESULTS

### MB-081318W - Batch 131519 - Water by EPA-8260

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | UG/L | 4.0 | 08/13/2018 | DLC |
| Styrene | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| o-Xylene | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| Bromoform | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| Bromobenzene | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | UG/L | 10 | 08/13/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| Naphthalene | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 08/13/2018 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.

### MBLK-R321482 - Batch R321482 - Water by EPA-7196

| ANALYTE | METHOD | RESULTS | UNITS | REPORTING LIMITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|
| Chromium (VI) | EPA-7196 | U | UG/L | 10 | 08/09/2018 | RAL |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE: | 8/16/2018 |
| | | ALS SDG#: | EV18080053 |
| | | WDOE ACCREDITATION: | C601 |
| CLIENT CONTACT: | Sean Trimble | | |
| CLIENT PROJECT: | 64001 | | |

## LABORATORY CONTROL SAMPLE RESULTS

### ALS Test Batch ID: 131519 - Water by EPA-8260

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane - BS | EPA-8260 | **111** | | | 50 | 150 | 08/13/2018 | DLC |
| Dichlorodifluoromethane - BSD | EPA-8260 | **108** | **3** | | 50 | 150 | 08/13/2018 | DLC |
| Chloromethane - BS | EPA-8260 | **77.6** | | | 50 | 150 | 08/13/2018 | DLC |
| Chloromethane - BSD | EPA-8260 | **78.6** | **1** | | 50 | 150 | 08/13/2018 | DLC |
| Vinyl Chloride - BS | EPA-8260 | **98.1** | | | 50 | 150 | 08/13/2018 | DLC |
| Vinyl Chloride - BSD | EPA-8260 | **98.9** | **1** | | 50 | 150 | 08/13/2018 | DLC |
| Bromomethane - BS | EPA-8260 | **115** | | | 50 | 150 | 08/13/2018 | DLC |
| Bromomethane - BSD | EPA-8260 | **116** | **1** | | 50 | 150 | 08/13/2018 | DLC |
| Chloroethane - BS | EPA-8260 | **105** | | | 50 | 150 | 08/13/2018 | DLC |
| Chloroethane - BSD | EPA-8260 | **107** | **2** | | 50 | 150 | 08/13/2018 | DLC |
| Carbon Tetrachloride - BS | EPA-8260 | **97.6** | | | 50 | 150 | 08/13/2018 | DLC |
| Carbon Tetrachloride - BSD | EPA-8260 | **97.6** | **0** | | 50 | 150 | 08/13/2018 | DLC |
| Trichlorofluoromethane - BS | EPA-8260 | **104** | | | 50 | 150 | 08/13/2018 | DLC |
| Trichlorofluoromethane - BSD | EPA-8260 | **101** | **3** | | 50 | 150 | 08/13/2018 | DLC |
| Carbon Disulfide - BS | EPA-8260 | **106** | | | 50 | 150 | 08/13/2018 | DLC |
| Carbon Disulfide - BSD | EPA-8260 | **109** | **2** | | 50 | 150 | 08/13/2018 | DLC |
| Acetone - BS | EPA-8260 | **121** | | | 50 | 150 | 08/13/2018 | DLC |
| Acetone - BSD | EPA-8260 | **120** | **1** | | 50 | 150 | 08/13/2018 | DLC |
| 1,1-Dichloroethene - BS | EPA-8260 | **102** | | | 72.5 | 136 | 08/13/2018 | DLC |
| 1,1-Dichloroethene - BSD | EPA-8260 | **103** | **1** | | 72.5 | 136 | 08/13/2018 | DLC |
| Methylene Chloride - BS | EPA-8260 | **88.7** | | | 50 | 150 | 08/13/2018 | DLC |
| Methylene Chloride - BSD | EPA-8260 | **90.3** | **2** | | 50 | 150 | 08/13/2018 | DLC |
| Acrylonitrile - BS | EPA-8260 | **103** | | | 50 | 150 | 08/13/2018 | DLC |
| Acrylonitrile - BSD | EPA-8260 | **105** | **2** | | 50 | 150 | 08/13/2018 | DLC |
| Methyl T-Butyl Ether - BS | EPA-8260 | **108** | | | 50 | 150 | 08/13/2018 | DLC |
| Methyl T-Butyl Ether - BSD | EPA-8260 | **110** | **2** | | 50 | 150 | 08/13/2018 | DLC |
| Trans-1,2-Dichloroethene - BS | EPA-8260 | **105** | | | 50 | 150 | 08/13/2018 | DLC |
| Trans-1,2-Dichloroethene - BSD | EPA-8260 | **108** | **3** | | 50 | 150 | 08/13/2018 | DLC |
| 1,1-Dichloroethane - BS | EPA-8260 | **105** | | | 50 | 150 | 08/13/2018 | DLC |
| 1,1-Dichloroethane - BSD | EPA-8260 | **108** | **3** | | 50 | 150 | 08/13/2018 | DLC |
| 2-Butanone - BS | EPA-8260 | **130** | | | 50 | 150 | 08/13/2018 | DLC |
| 2-Butanone - BSD | EPA-8260 | **138** | **6** | | 50 | 150 | 08/13/2018 | DLC |
| Cis-1,2-Dichloroethene - BS | EPA-8260 | **109** | | | 50 | 150 | 08/13/2018 | DLC |
| Cis-1,2-Dichloroethene - BSD | EPA-8260 | **112** | **3** | | 50 | 150 | 08/13/2018 | DLC |
| 2,2-Dichloropropane - BS | EPA-8260 | **143** | | | 50 | 150 | 08/13/2018 | DLC |
| 2,2-Dichloropropane - BSD | EPA-8260 | **143** | **0** | | 50 | 150 | 08/13/2018 | DLC |
| Bromochloromethane - BS | EPA-8260 | **108** | | | 50 | 150 | 08/13/2018 | DLC |
| Bromochloromethane - BSD | EPA-8260 | **109** | **1** | | 50 | 150 | 08/13/2018 | DLC |
| Chloroform - BS | EPA-8260 | **108** | | | 50 | 150 | 08/13/2018 | DLC |



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CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 8/16/2018
ALS SDG#: EV18080053
WDOE ACCREDITATION: C601

## LABORATORY CONTROL SAMPLE RESULTS

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| Chloroform - BSD | EPA-8260 | **110** | **2** | | 50 | 150 | 08/13/2018 | DLC |
| 1,1,1-Trichloroethane - BS | EPA-8260 | **106** | | | 50 | 150 | 08/13/2018 | DLC |
| 1,1,1-Trichloroethane - BSD | EPA-8260 | **108** | **2** | | 50 | 150 | 08/13/2018 | DLC |
| 1,1-Dichloropropene - BS | EPA-8260 | **106** | | | 50 | 150 | 08/13/2018 | DLC |
| 1,1-Dichloropropene - BSD | EPA-8260 | **106** | **1** | | 50 | 150 | 08/13/2018 | DLC |
| 1,2-Dichloroethane - BS | EPA-8260 | **99.6** | | | 50 | 150 | 08/13/2018 | DLC |
| 1,2-Dichloroethane - BSD | EPA-8260 | **101** | **2** | | 50 | 150 | 08/13/2018 | DLC |
| Benzene - BS | EPA-8260 | **100** | | | 74.7 | 143 | 08/13/2018 | DLC |
| Benzene - BSD | EPA-8260 | **103** | **2** | | 74.7 | 143 | 08/13/2018 | DLC |
| Trichloroethene - BS | EPA-8260 | **103** | | | 74.4 | 141 | 08/13/2018 | DLC |
| Trichloroethene - BSD | EPA-8260 | **105** | **2** | | 74.4 | 141 | 08/13/2018 | DLC |
| 1,2-Dichloropropane - BS | EPA-8260 | **108** | | | 50 | 150 | 08/13/2018 | DLC |
| 1,2-Dichloropropane - BSD | EPA-8260 | **110** | **2** | | 50 | 150 | 08/13/2018 | DLC |
| Dibromomethane - BS | EPA-8260 | **107** | | | 50 | 150 | 08/13/2018 | DLC |
| Dibromomethane - BSD | EPA-8260 | **109** | **2** | | 50 | 150 | 08/13/2018 | DLC |
| Bromodichloromethane - BS | EPA-8260 | **110** | | | 50 | 150 | 08/13/2018 | DLC |
| Bromodichloromethane - BSD | EPA-8260 | **112** | **2** | | 50 | 150 | 08/13/2018 | DLC |
| Trans-1,3-Dichloropropene - BS | EPA-8260 | **122** | | | 50 | 150 | 08/13/2018 | DLC |
| Trans-1,3-Dichloropropene - BSD | EPA-8260 | **124** | **1** | | 50 | 150 | 08/13/2018 | DLC |
| 4-Methyl-2-Pentanone - BS | EPA-8260 | **112** | | | 50 | 150 | 08/13/2018 | DLC |
| 4-Methyl-2-Pentanone - BSD | EPA-8260 | **114** | **1** | | 50 | 150 | 08/13/2018 | DLC |
| Toluene - BS | EPA-8260 | **108** | | | 71.7 | 139 | 08/13/2018 | DLC |
| Toluene - BSD | EPA-8260 | **111** | **3** | | 71.7 | 139 | 08/13/2018 | DLC |
| Cis-1,3-Dichloropropene - BS | EPA-8260 | **115** | | | 50 | 150 | 08/13/2018 | DLC |
| Cis-1,3-Dichloropropene - BSD | EPA-8260 | **118** | **2** | | 50 | 150 | 08/13/2018 | DLC |
| 1,1,2-Trichloroethane - BS | EPA-8260 | **118** | | | 50 | 150 | 08/13/2018 | DLC |
| 1,1,2-Trichloroethane - BSD | EPA-8260 | **119** | **1** | | 50 | 150 | 08/13/2018 | DLC |
| 2-Hexanone - BS | EPA-8260 | **123** | | | 50 | 150 | 08/13/2018 | DLC |
| 2-Hexanone - BSD | EPA-8260 | **128** | **4** | | 50 | 150 | 08/13/2018 | DLC |
| 1,3-Dichloropropane - BS | EPA-8260 | **113** | | | 50 | 150 | 08/13/2018 | DLC |
| 1,3-Dichloropropane - BSD | EPA-8260 | **114** | **1** | | 50 | 150 | 08/13/2018 | DLC |
| Tetrachloroethylene - BS | EPA-8260 | **118** | | | 50 | 150 | 08/13/2018 | DLC |
| Tetrachloroethylene - BSD | EPA-8260 | **123** | **4** | | 50 | 150 | 08/13/2018 | DLC |
| Dibromochloromethane - BS | EPA-8260 | **122** | | | 50 | 150 | 08/13/2018 | DLC |
| Dibromochloromethane - BSD | EPA-8260 | **124** | **1** | | 50 | 150 | 08/13/2018 | DLC |
| 1,2-Dibromoethane - BS | EPA-8260 | **119** | | | 50 | 150 | 08/13/2018 | DLC |
| 1,2-Dibromoethane - BSD | EPA-8260 | **120** | **1** | | 50 | 150 | 08/13/2018 | DLC |
| Chlorobenzene - BS | EPA-8260 | **118** | | | 73 | 131 | 08/13/2018 | DLC |
| Chlorobenzene - BSD | EPA-8260 | **120** | **2** | | 73 | 131 | 08/13/2018 | DLC |
| 1,1,1,2-Tetrachloroethane - BS | EPA-8260 | **121** | | | 50 | 150 | 08/13/2018 | DLC |



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DATE: 8/16/2018
ALS SDG#: EV18080053
WDOE ACCREDITATION: C601

## LABORATORY CONTROL SAMPLE RESULTS

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane - BSD | EPA-8260 | **124** | **2** | | 50 | 150 | 08/13/2018 | DLC |
| Ethylbenzene - BS | EPA-8260 | **114** | | | 50 | 150 | 08/13/2018 | DLC |
| Ethylbenzene - BSD | EPA-8260 | **116** | **2** | | 50 | 150 | 08/13/2018 | DLC |
| m,p-Xylene - BS | EPA-8260 | **116** | | | 50 | 150 | 08/13/2018 | DLC |
| m,p-Xylene - BSD | EPA-8260 | **118** | **2** | | 50 | 150 | 08/13/2018 | DLC |
| Styrene - BS | EPA-8260 | **118** | | | 50 | 150 | 08/13/2018 | DLC |
| Styrene - BSD | EPA-8260 | **120** | **2** | | 50 | 150 | 08/13/2018 | DLC |
| o-Xylene - BS | EPA-8260 | **117** | | | 50 | 150 | 08/13/2018 | DLC |
| o-Xylene - BSD | EPA-8260 | **119** | **2** | | 50 | 150 | 08/13/2018 | DLC |
| Bromoform - BS | EPA-8260 | **120** | | | 50 | 150 | 08/13/2018 | DLC |
| Bromoform - BSD | EPA-8260 | **121** | **1** | | 50 | 150 | 08/13/2018 | DLC |
| Isopropylbenzene - BS | EPA-8260 | **115** | | | 50 | 150 | 08/13/2018 | DLC |
| Isopropylbenzene - BSD | EPA-8260 | **117** | **1** | | 50 | 150 | 08/13/2018 | DLC |
| 1,1,2,2-Tetrachloroethane - BS | EPA-8260 | **108** | | | 50 | 150 | 08/13/2018 | DLC |
| 1,1,2,2-Tetrachloroethane - BSD | EPA-8260 | **106** | **2** | | 50 | 150 | 08/13/2018 | DLC |
| 1,2,3-Trichloropropane - BS | EPA-8260 | **111** | | | 50 | 150 | 08/13/2018 | DLC |
| 1,2,3-Trichloropropane - BSD | EPA-8260 | **108** | **3** | | 50 | 150 | 08/13/2018 | DLC |
| Bromobenzene - BS | EPA-8260 | **118** | | | 50 | 150 | 08/13/2018 | DLC |
| Bromobenzene - BSD | EPA-8260 | **116** | **2** | | 50 | 150 | 08/13/2018 | DLC |
| N-Propyl Benzene - BS | EPA-8260 | **114** | | | 50 | 150 | 08/13/2018 | DLC |
| N-Propyl Benzene - BSD | EPA-8260 | **111** | **3** | | 50 | 150 | 08/13/2018 | DLC |
| 2-Chlorotoluene - BS | EPA-8260 | **113** | | | 50 | 150 | 08/13/2018 | DLC |
| 2-Chlorotoluene - BSD | EPA-8260 | **111** | **1** | | 50 | 150 | 08/13/2018 | DLC |
| 1,3,5-Trimethylbenzene - BS | EPA-8260 | **115** | | | 50 | 150 | 08/13/2018 | DLC |
| 1,3,5-Trimethylbenzene - BSD | EPA-8260 | **113** | **1** | | 50 | 150 | 08/13/2018 | DLC |
| 4-Chlorotoluene - BS | EPA-8260 | **114** | | | 50 | 150 | 08/13/2018 | DLC |
| 4-Chlorotoluene - BSD | EPA-8260 | **112** | **1** | | 50 | 150 | 08/13/2018 | DLC |
| T-Butyl Benzene - BS | EPA-8260 | **108** | | | 50 | 150 | 08/13/2018 | DLC |
| T-Butyl Benzene - BSD | EPA-8260 | **106** | **1** | | 50 | 150 | 08/13/2018 | DLC |
| 1,2,4-Trimethylbenzene - BS | EPA-8260 | **115** | | | 50 | 150 | 08/13/2018 | DLC |
| 1,2,4-Trimethylbenzene - BSD | EPA-8260 | **114** | **1** | | 50 | 150 | 08/13/2018 | DLC |
| S-Butyl Benzene - BS | EPA-8260 | **114** | | | 50 | 150 | 08/13/2018 | DLC |
| S-Butyl Benzene - BSD | EPA-8260 | **111** | **2** | | 50 | 150 | 08/13/2018 | DLC |
| P-Isopropyltoluene - BS | EPA-8260 | **116** | | | 50 | 150 | 08/13/2018 | DLC |
| P-Isopropyltoluene - BSD | EPA-8260 | **114** | **2** | | 50 | 150 | 08/13/2018 | DLC |
| 1,3-Dichlorobenzene - BS | EPA-8260 | **117** | | | 50 | 150 | 08/13/2018 | DLC |
| 1,3-Dichlorobenzene - BSD | EPA-8260 | **116** | **1** | | 50 | 150 | 08/13/2018 | DLC |
| 1,4-Dichlorobenzene - BS | EPA-8260 | **117** | | | 50 | 150 | 08/13/2018 | DLC |
| 1,4-Dichlorobenzene - BSD | EPA-8260 | **116** | **1** | | 50 | 150 | 08/13/2018 | DLC |
| N-Butylbenzene - BS | EPA-8260 | **116** | | | 50 | 150 | 08/13/2018 | DLC |



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DATE: 8/16/2018
ALS SDG#: EV18080053
WDOE ACCREDITATION: C601

## LABORATORY CONTROL SAMPLE RESULTS

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| N-Butylbenzene - BSD | EPA-8260 | **114** | **1** | | 50 | 150 | 08/13/2018 | DLC |
| 1,2-Dichlorobenzene - BS | EPA-8260 | **116** | | | 50 | 150 | 08/13/2018 | DLC |
| 1,2-Dichlorobenzene - BSD | EPA-8260 | **115** | **2** | | 50 | 150 | 08/13/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane - BS | EPA-8260 | **104** | | | 50 | 150 | 08/13/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane - BSD | EPA-8260 | **100** | **4** | | 50 | 150 | 08/13/2018 | DLC |
| 1,2,4-Trichlorobenzene - BS | EPA-8260 | **122** | | | 50 | 150 | 08/13/2018 | DLC |
| 1,2,4-Trichlorobenzene - BSD | EPA-8260 | **120** | **2** | | 50 | 150 | 08/13/2018 | DLC |
| Hexachlorobutadiene - BS | EPA-8260 | **125** | | | 50 | 150 | 08/13/2018 | DLC |
| Hexachlorobutadiene - BSD | EPA-8260 | **120** | **4** | | 50 | 150 | 08/13/2018 | DLC |
| Naphthalene - BS | EPA-8260 | **118** | | | 50 | 150 | 08/13/2018 | DLC |
| Naphthalene - BSD | EPA-8260 | **116** | **2** | | 50 | 150 | 08/13/2018 | DLC |
| 1,2,3-Trichlorobenzene - BS | EPA-8260 | **122** | | | 50 | 150 | 08/13/2018 | DLC |
| 1,2,3-Trichlorobenzene - BSD | EPA-8260 | **120** | **2** | | 50 | 150 | 08/13/2018 | DLC |

### ALS Test Batch ID: R321482 - Water by EPA-7196

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| Chromium (VI) - BS | EPA-7196 | **96.0** | | | 90 | 114 | 08/09/2018 | RAL |
| Chromium (VI) - BSD | EPA-7196 | **97.0** | **1** | | 90 | 114 | 08/09/2018 | RAL |

APPROVED BY

Laboratory Director



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Fax (425) 356-2626
http://www.alsglobal.com

# Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): EV1808053

Date 8/9/18 Page 1 Of 2

PROJECT ID: 64001
REPORT TO COMPANY: EPI
PROJECT MANAGER: Sean Trimble
ADDRESS: 1180 NW Maple St.
Issaquah, WA 98027
PHONE: 425-395-0060 P.O. #:
E-MAIL: seant@epi-wa.com
INVOICE TO COMPANY: EPI
ATTENTION:
ADDRESS:

| SAMPLE I.D. | DATE | TIME | TYPE | LAB# | NWTPH-HCID | NWTPH-DX | NWTPH-GX | BTEX by EPA 8021 ☐ BTEX by EPA 8260 ☐ | MTBE by EPA 8021 ☐ MTBE by EPA 8260 ☐ | Halogenated Volatiles by EPA 8260 | Volatile Organic Compounds by EPA 8260 | EDB / EDC by EPA 8260 SIM (water) | EDB / EDC by EPA 8260 (soil) | Semivolatile Organic Compounds by EPA 8270 | Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM | PCB by EPA 8082 ☐ Pesticides by EPA 8081 ☐ | Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐ | Metals Other (Specify) | TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐ | OTHER (Specify): CVI | NUMBER OF CONTAINERS | RECEIVED IN GOOD CONDITION? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. SBW-4 | 8/8/18 | 1220 | $H_2O$ | 1 | | | | | | | X | | | | | | | | | | 3 | |
| 2. MW-26s | ↓ | 1234 | \| | 2 | | | | | | | X | | | | | | | | | | 3 | |
| 3. MW-11 | 8/9/18 | 0730 | \| | 3 | | | | | | | X | | | | | | | | X | | 4 | |
| 4. SBW-3 | \| | 0811 | \| | 4 | | | | | | | X | | | | | | | | X | | 4 | |
| 5. SBW-2 | \| | 0912 | \| | 5 | | | | | | | X | | | | | | | | X | | 4 | |
| 6. Dup-1 | \| | | \| | 6 | | | | | | | X | | | | | | | | | | 3 | |
| 7. SBW-1 | \| | 0940 | \| | 7 | | | | | | | X | | | | | | | | | | 3 | |
| 8. MW-8s | \| | 1010 | \| | 8 | | | | | | | X | | | | | | | | | | 3 | |
| 9. MW-21s | \| | 1025 | \| | 9 | | | | | | | X | | | | | | | | | | 3 | |
| 10. MW-3 | ↓ | 1320 | ↓ | 10 | | | | | | | X | | | | | | | | X | | 4 | |

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Joe Sherman, EPI 8/9/18, 1330
   Received By: Skyler Sullivan ALS 8/9/18 1330
2. Relinquished By:
   Received By:

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: 10 (Standard) 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis: 5 (Standard) 3 1 SAME DAY

OTHER: Specify:

*Turnaround request less than standard may incur Rush Charges

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http://www.alsglobal.com

# Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): EV1808053

Date 8/9/18 Page 2 of 2

PROJECT ID: 64001
REPORT TO COMPANY: EPI
PROJECT MANAGER: Sean Trimble
ADDRESS: 1180 NW Maple St.
Issaquah, WA 98027
PHONE: 425-395-0010 P.O. #:
E-MAIL: seant@epi-wa.com
INVOICE TO COMPANY: EPI
ATTENTION:
ADDRESS:

ANALYSIS REQUESTED

| SAMPLE I.D. | DATE | TIME | TYPE | LAB# | NWTPH-HCID | NWTPH-DX | NWTPH-GX | BTEX by EPA 8021 ☐ BTEX by EPA 8260 ☐ | MTBE by EPA 8021 ☐ MTBE by EPA 8260 ☐ | Halogenated Volatiles by EPA 8260 | Volatile Organic Compounds by EPA 8260 | EDB / EDC by EPA 8260 SIM (water) | EDB / EDC by EPA 8260 (soil) | Semivolatile Organic Compounds by EPA 8270 | Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM | PCB by EPA 8082 ☐ Pesticides by EPA 8081 ☐ | Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐ | Metals Other (Specify) | TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐ | OTHER (Specify): Cr VI | NUMBER OF CONTAINERS | RECEIVED IN GOOD CONDITION? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. MW-18 | 8/9/18 | 1310 | $H_2O$ | 11 | | | | | | | X | | | | | | | | | X | | 4 | |
| 2. MW-19 | ↓ | 1254 | ↓ | 12 | | | | | | | X | | | | | | | | | X | | 4 | |
| 3. MW-7s | | 1150 | | 13 | | | | | | | X | | | | | | | | | | | 3 | |
| 4. Dup-2 | | | | 14 | | | | | | | X | | | | | | | | | | | 3 | |
| 5. MW-7ir | ↓ | 1205 | ↓ | 15 | | | | | | | X | | | | | | | | | | | 3 | |
| 6. Trip Blank | — | — | — | 16 | | | | | | | | | | | | | | | | | | | |
| 7. | | | | | | | | | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | | | | | | | | |

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Joe Shemet, EPI, 8/9/18, 1330
   Received By: Stig Salvesen ALS 8/9/18 1330
2. Relinquished By:
   Received By:

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: (10) Standard | 5 | 3 | 2 | 1 | SAME DAY

Fuels & Hydrocarbon Analysis: (5) Standard | 3 | 1 | SAME DAY

OTHER: Specify:

*Turnaround request less than standard may incur Rush Charges

August 14, 2018

Mr. Sean Trimble
Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

Dear Mr. Trimble,

On August 10th, 7 samples were received by our laboratory and assigned our laboratory project number EV18080058. The project was identified as your 64001. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/14/2018<br>EV18080058<br>EV18080058-01 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/10/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/10/2018 8:40:00 AM |
| CLIENT SAMPLE ID | MW-1 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Vinyl Chloride | EPA-8260 | **12** | 0.20 | 1 | UG/L | 08/10/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 08/10/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 08/10/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 08/10/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **150** | 20 | 10 | UG/L | 08/14/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Trichloroethene | EPA-8260 | **120** | 20 | 10 | UG/L | 08/14/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 08/10/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 08/10/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | **4.4** | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 08/10/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/14/2018<br>EV18080058<br>EV18080058-01 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/10/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/10/2018 8:40:00 AM |
| CLIENT SAMPLE ID | MW-1 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 08/10/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **96.5** | 08/10/2018 | DLC |
| 1,2-Dichloroethane-d4 10X Dilution | EPA-8260 | **95.7** | 08/14/2018 | DLC |
| Toluene-d8 | EPA-8260 | **101** | 08/10/2018 | DLC |
| Toluene-d8 10X Dilution | EPA-8260 | **102** | 08/14/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **96.7** | 08/10/2018 | DLC |
| 4-Bromofluorobenzene 10X Dilution | EPA-8260 | **95.7** | 08/14/2018 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/14/2018<br>EV18080058<br>EV18080058-02 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/10/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/10/2018 8:28:00 AM |
| CLIENT SAMPLE ID | MW-24s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Vinyl Chloride | EPA-8260 | **4.7** | 0.20 | 1 | UG/L | 08/10/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 08/10/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 08/10/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 08/10/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 08/10/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 08/10/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 08/10/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |



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ALS Group USA, Corp dba ALS Environmental

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ALS Environmental

## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/14/2018<br>EV18080058<br>EV18080058-02 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/10/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/10/2018 8:28:00 AM |
| CLIENT SAMPLE ID | MW-24s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 08/10/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **97.8** | 08/10/2018 | DLC |
| Toluene-d8 | EPA-8260 | **103** | 08/10/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **97.8** | 08/10/2018 | DLC |

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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/14/2018<br>EV18080058<br>EV18080058-03 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/10/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/10/2018 8:55:00 AM |
| CLIENT SAMPLE ID | MW-29s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 08/10/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 08/10/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 08/10/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 08/10/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 08/10/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 08/10/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 08/10/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |



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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/14/2018<br>EV18080058<br>EV18080058-03 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/10/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/10/2018 8:55:00 AM |
| CLIENT SAMPLE ID | MW-29s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 08/10/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **96.1** | 08/10/2018 | DLC |
| Toluene-d8 | EPA-8260 | **103** | 08/10/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **96.5** | 08/10/2018 | DLC |

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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/14/2018<br>EV18080058<br>EV18080058-04 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/10/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/10/2018 9:00:00 AM |
| CLIENT SAMPLE ID | MW-14 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 08/10/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 08/10/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 08/10/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 08/10/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 08/10/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 08/10/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 08/10/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

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| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/14/2018<br>EV18080058<br>EV18080058-04 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/10/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/10/2018 9:00:00 AM |
| CLIENT SAMPLE ID | MW-14 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 08/10/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **97.0** | 08/10/2018 | DLC |
| Toluene-d8 | EPA-8260 | **102** | 08/10/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **96.4** | 08/10/2018 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

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| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/14/2018<br>EV18080058<br>EV18080058-05 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/10/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/10/2018 9:10:00 AM |
| CLIENT SAMPLE ID | MW-15i | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Vinyl Chloride | EPA-8260 | **2.4** | 0.20 | 1 | UG/L | 08/10/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 08/10/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 08/10/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 08/10/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 08/10/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 08/10/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 08/10/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/14/2018<br>EV18080058<br>EV18080058-05 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/10/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/10/2018 9:10:00 AM |
| CLIENT SAMPLE ID | MW-15i | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 08/10/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **97.1** | 08/10/2018 | DLC |
| Toluene-d8 | EPA-8260 | **102** | 08/10/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **97.3** | 08/10/2018 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/14/2018<br>EV18080058<br>EV18080058-06 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/10/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/10/2018 9:20:00 AM |
| CLIENT SAMPLE ID | MW-15 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Vinyl Chloride | EPA-8260 | **4.4** | 0.20 | 1 | UG/L | 08/10/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 08/10/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 08/10/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 08/10/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 08/10/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 08/10/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 08/10/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |



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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 8/14/2018<br>EV18080058<br>EV18080058-06 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 08/10/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 8/10/2018 9:20:00 AM |
| CLIENT SAMPLE ID | MW-15 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 08/10/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 08/10/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **96.7** | 08/10/2018 | DLC |
| Toluene-d8 | EPA-8260 | **103** | 08/10/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **98.5** | 08/10/2018 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

CLIENT: Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 8/14/2018
ALS SDG#: EV18080058
WDOE ACCREDITATION: C601

## LABORATORY BLANK RESULTS

### MB-081018W - Batch 131470 - Water by EPA-8260

| ANALYTE | METHOD | RESULTS | UNITS | REPORTING LIMITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| Chloromethane | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| Vinyl Chloride | EPA-8260 | U | UG/L | 0.20 | 08/10/2018 | DLC |
| Bromomethane | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| Chloroethane | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| Acetone | EPA-8260 | U | UG/L | 25 | 08/10/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | UG/L | 5.0 | 08/10/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | UG/L | 10 | 08/10/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| 2-Butanone | EPA-8260 | U | UG/L | 10 | 08/10/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| Chloroform | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| Benzene | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| Trichloroethene | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| Dibromomethane | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | UG/L | 10 | 08/10/2018 | DLC |
| Toluene | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | UG/L | 10 | 08/10/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | UG/L | 0.010 | 08/10/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

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| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE: | 8/14/2018 |
| | | ALS SDG#: | EV18080058 |
| | | WDOE ACCREDITATION: | C601 |
| CLIENT CONTACT: | Sean Trimble | | |
| CLIENT PROJECT: | 64001 | | |

## LABORATORY BLANK RESULTS

### MB-081018W - Batch 131470 - Water by EPA-8260

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | UG/L | 4.0 | 08/10/2018 | DLC |
| Styrene | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| o-Xylene | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| Bromoform | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| Bromobenzene | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | UG/L | 10 | 08/10/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| Naphthalene | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 08/10/2018 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

CLIENT: Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 8/14/2018
ALS SDG#: EV18080058
WDOE ACCREDITATION: C601

## LABORATORY CONTROL SAMPLE RESULTS

### ALS Test Batch ID: 131470 - Water by EPA-8260

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane - BS | EPA-8260 | **137** | | | 50 | 150 | 08/10/2018 | DLC |
| Dichlorodifluoromethane - BSD | EPA-8260 | **122** | **12** | | 50 | 150 | 08/10/2018 | DLC |
| Chloromethane - BS | EPA-8260 | **82.6** | | | 50 | 150 | 08/10/2018 | DLC |
| Chloromethane - BSD | EPA-8260 | **75.3** | **9** | | 50 | 150 | 08/10/2018 | DLC |
| Vinyl Chloride - BS | EPA-8260 | **108** | | | 50 | 150 | 08/10/2018 | DLC |
| Vinyl Chloride - BSD | EPA-8260 | **98.2** | **10** | | 50 | 150 | 08/10/2018 | DLC |
| Bromomethane - BS | EPA-8260 | **116** | | | 50 | 150 | 08/10/2018 | DLC |
| Bromomethane - BSD | EPA-8260 | **107** | **9** | | 50 | 150 | 08/10/2018 | DLC |
| Chloroethane - BS | EPA-8260 | **111** | | | 50 | 150 | 08/10/2018 | DLC |
| Chloroethane - BSD | EPA-8260 | **100** | **10** | | 50 | 150 | 08/10/2018 | DLC |
| Carbon Tetrachloride - BS | EPA-8260 | **101** | | | 50 | 150 | 08/10/2018 | DLC |
| Carbon Tetrachloride - BSD | EPA-8260 | **92.1** | **9** | | 50 | 150 | 08/10/2018 | DLC |
| Trichlorofluoromethane - BS | EPA-8260 | **114** | | | 50 | 150 | 08/10/2018 | DLC |
| Trichlorofluoromethane - BSD | EPA-8260 | **103** | **10** | | 50 | 150 | 08/10/2018 | DLC |
| Carbon Disulfide - BS | EPA-8260 | **113** | | | 50 | 150 | 08/10/2018 | DLC |
| Carbon Disulfide - BSD | EPA-8260 | **103** | **9** | | 50 | 150 | 08/10/2018 | DLC |
| Acetone - BS | EPA-8260 | **90.3** | | | 50 | 150 | 08/10/2018 | DLC |
| Acetone - BSD | EPA-8260 | **80.1** | **12** | | 50 | 150 | 08/10/2018 | DLC |
| 1,1-Dichloroethene - BS | EPA-8260 | **110** | | | 72.5 | 136 | 08/10/2018 | DLC |
| 1,1-Dichloroethene - BSD | EPA-8260 | **99.8** | **10** | | 72.5 | 136 | 08/10/2018 | DLC |
| Methylene Chloride - BS | EPA-8260 | **125** | | | 50 | 150 | 08/10/2018 | DLC |
| Methylene Chloride - BSD | EPA-8260 | **121** | **3** | | 50 | 150 | 08/10/2018 | DLC |
| Acrylonitrile - BS | EPA-8260 | **108** | | | 50 | 150 | 08/10/2018 | DLC |
| Acrylonitrile - BSD | EPA-8260 | **98.7** | **9** | | 50 | 150 | 08/10/2018 | DLC |
| Methyl T-Butyl Ether - BS | EPA-8260 | **105** | | | 50 | 150 | 08/10/2018 | DLC |
| Methyl T-Butyl Ether - BSD | EPA-8260 | **97.5** | **8** | | 50 | 150 | 08/10/2018 | DLC |
| Trans-1,2-Dichloroethene - BS | EPA-8260 | **108** | | | 50 | 150 | 08/10/2018 | DLC |
| Trans-1,2-Dichloroethene - BSD | EPA-8260 | **99.0** | **9** | | 50 | 150 | 08/10/2018 | DLC |
| 1,1-Dichloroethane - BS | EPA-8260 | **106** | | | 50 | 150 | 08/10/2018 | DLC |
| 1,1-Dichloroethane - BSD | EPA-8260 | **97.7** | **9** | | 50 | 150 | 08/10/2018 | DLC |
| 2-Butanone - BS | EPA-8260 | **102** | | | 50 | 150 | 08/10/2018 | DLC |
| 2-Butanone - BSD | EPA-8260 | **91.4** | **11** | | 50 | 150 | 08/10/2018 | DLC |
| Cis-1,2-Dichloroethene - BS | EPA-8260 | **108** | | | 50 | 150 | 08/10/2018 | DLC |
| Cis-1,2-Dichloroethene - BSD | EPA-8260 | **99.1** | **8** | | 50 | 150 | 08/10/2018 | DLC |
| 2,2-Dichloropropane - BS | EPA-8260 | **143** | | | 50 | 150 | 08/10/2018 | DLC |
| 2,2-Dichloropropane - BSD | EPA-8260 | **128** | **11** | | 50 | 150 | 08/10/2018 | DLC |
| Bromochloromethane - BS | EPA-8260 | **105** | | | 50 | 150 | 08/10/2018 | DLC |
| Bromochloromethane - BSD | EPA-8260 | **96.5** | **8** | | 50 | 150 | 08/10/2018 | DLC |
| Chloroform - BS | EPA-8260 | **102** | | | 50 | 150 | 08/10/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

CLIENT: Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 8/14/2018
ALS SDG#: EV18080058
WDOE ACCREDITATION: C601

## LABORATORY CONTROL SAMPLE RESULTS

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| Chloroform - BSD | EPA-8260 | **93.8** | **8** | | 50 | 150 | 08/10/2018 | DLC |
| 1,1,1-Trichloroethane - BS | EPA-8260 | **108** | | | 50 | 150 | 08/10/2018 | DLC |
| 1,1,1-Trichloroethane - BSD | EPA-8260 | **98.9** | **9** | | 50 | 150 | 08/10/2018 | DLC |
| 1,1-Dichloropropene - BS | EPA-8260 | **110** | | | 50 | 150 | 08/10/2018 | DLC |
| 1,1-Dichloropropene - BSD | EPA-8260 | **100** | **10** | | 50 | 150 | 08/10/2018 | DLC |
| 1,2-Dichloroethane - BS | EPA-8260 | **95.3** | | | 50 | 150 | 08/10/2018 | DLC |
| 1,2-Dichloroethane - BSD | EPA-8260 | **87.9** | **8** | | 50 | 150 | 08/10/2018 | DLC |
| Benzene - BS | EPA-8260 | **101** | | | 74.7 | 143 | 08/10/2018 | DLC |
| Benzene - BSD | EPA-8260 | **92.5** | **9** | | 74.7 | 143 | 08/10/2018 | DLC |
| Trichloroethene - BS | EPA-8260 | **103** | | | 74.4 | 141 | 08/10/2018 | DLC |
| Trichloroethene - BSD | EPA-8260 | **93.4** | **9** | | 74.4 | 141 | 08/10/2018 | DLC |
| 1,2-Dichloropropane - BS | EPA-8260 | **104** | | | 50 | 150 | 08/10/2018 | DLC |
| 1,2-Dichloropropane - BSD | EPA-8260 | **95.2** | **8** | | 50 | 150 | 08/10/2018 | DLC |
| Dibromomethane - BS | EPA-8260 | **101** | | | 50 | 150 | 08/10/2018 | DLC |
| Dibromomethane - BSD | EPA-8260 | **92.9** | **8** | | 50 | 150 | 08/10/2018 | DLC |
| Bromodichloromethane - BS | EPA-8260 | **102** | | | 50 | 150 | 08/10/2018 | DLC |
| Bromodichloromethane - BSD | EPA-8260 | **93.6** | **8** | | 50 | 150 | 08/10/2018 | DLC |
| Trans-1,3-Dichloropropene - BS | EPA-8260 | **109** | | | 50 | 150 | 08/10/2018 | DLC |
| Trans-1,3-Dichloropropene - BSD | EPA-8260 | **102** | **7** | | 50 | 150 | 08/10/2018 | DLC |
| 4-Methyl-2-Pentanone - BS | EPA-8260 | **102** | | | 50 | 150 | 08/10/2018 | DLC |
| 4-Methyl-2-Pentanone - BSD | EPA-8260 | **93.9** | **9** | | 50 | 150 | 08/10/2018 | DLC |
| Toluene - BS | EPA-8260 | **106** | | | 71.7 | 139 | 08/10/2018 | DLC |
| Toluene - BSD | EPA-8260 | **96.3** | **9** | | 71.7 | 139 | 08/10/2018 | DLC |
| Cis-1,3-Dichloropropene - BS | EPA-8260 | **107** | | | 50 | 150 | 08/10/2018 | DLC |
| Cis-1,3-Dichloropropene - BSD | EPA-8260 | **98.6** | **9** | | 50 | 150 | 08/10/2018 | DLC |
| 1,1,2-Trichloroethane - BS | EPA-8260 | **106** | | | 50 | 150 | 08/10/2018 | DLC |
| 1,1,2-Trichloroethane - BSD | EPA-8260 | **98.7** | **7** | | 50 | 150 | 08/10/2018 | DLC |
| 2-Hexanone - BS | EPA-8260 | **101** | | | 50 | 150 | 08/10/2018 | DLC |
| 2-Hexanone - BSD | EPA-8260 | **93.1** | **9** | | 50 | 150 | 08/10/2018 | DLC |
| 1,3-Dichloropropane - BS | EPA-8260 | **103** | | | 50 | 150 | 08/10/2018 | DLC |
| 1,3-Dichloropropane - BSD | EPA-8260 | **95.8** | **7** | | 50 | 150 | 08/10/2018 | DLC |
| Tetrachloroethylene - BS | EPA-8260 | **108** | | | 50 | 150 | 08/10/2018 | DLC |
| Tetrachloroethylene - BSD | EPA-8260 | **97.5** | **10** | | 50 | 150 | 08/10/2018 | DLC |
| Dibromochloromethane - BS | EPA-8260 | **109** | | | 50 | 150 | 08/10/2018 | DLC |
| Dibromochloromethane - BSD | EPA-8260 | **101** | **7** | | 50 | 150 | 08/10/2018 | DLC |
| 1,2-Dibromoethane - BS | EPA-8260 | **107** | | | 50 | 150 | 08/10/2018 | DLC |
| 1,2-Dibromoethane - BSD | EPA-8260 | **99.8** | **7** | | 50 | 150 | 08/10/2018 | DLC |
| Chlorobenzene - BS | EPA-8260 | **110** | | | 73 | 131 | 08/10/2018 | DLC |
| Chlorobenzene - BSD | EPA-8260 | **101** | **8** | | 73 | 131 | 08/10/2018 | DLC |
| 1,1,1,2-Tetrachloroethane - BS | EPA-8260 | **110** | | | 50 | 150 | 08/10/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

CLIENT: Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 8/14/2018
ALS SDG#: EV18080058
WDOE ACCREDITATION: C601

## LABORATORY CONTROL SAMPLE RESULTS

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane - BSD | EPA-8260 | **102** | **7** | | 50 | 150 | 08/10/2018 | DLC |
| Ethylbenzene - BS | EPA-8260 | **110** | | | 50 | 150 | 08/10/2018 | DLC |
| Ethylbenzene - BSD | EPA-8260 | **101** | **9** | | 50 | 150 | 08/10/2018 | DLC |
| m,p-Xylene - BS | EPA-8260 | **111** | | | 50 | 150 | 08/10/2018 | DLC |
| m,p-Xylene - BSD | EPA-8260 | **102** | **9** | | 50 | 150 | 08/10/2018 | DLC |
| Styrene - BS | EPA-8260 | **111** | | | 50 | 150 | 08/10/2018 | DLC |
| Styrene - BSD | EPA-8260 | **102** | **8** | | 50 | 150 | 08/10/2018 | DLC |
| o-Xylene - BS | EPA-8260 | **111** | | | 50 | 150 | 08/10/2018 | DLC |
| o-Xylene - BSD | EPA-8260 | **102** | **8** | | 50 | 150 | 08/10/2018 | DLC |
| Bromoform - BS | EPA-8260 | **107** | | | 50 | 150 | 08/10/2018 | DLC |
| Bromoform - BSD | EPA-8260 | **100** | **6** | | 50 | 150 | 08/10/2018 | DLC |
| Isopropylbenzene - BS | EPA-8260 | **113** | | | 50 | 150 | 08/10/2018 | DLC |
| Isopropylbenzene - BSD | EPA-8260 | **103** | **9** | | 50 | 150 | 08/10/2018 | DLC |
| 1,1,2,2-Tetrachloroethane - BS | EPA-8260 | **100** | | | 50 | 150 | 08/10/2018 | DLC |
| 1,1,2,2-Tetrachloroethane - BSD | EPA-8260 | **93.6** | **7** | | 50 | 150 | 08/10/2018 | DLC |
| 1,2,3-Trichloropropane - BS | EPA-8260 | **101** | | | 50 | 150 | 08/10/2018 | DLC |
| 1,2,3-Trichloropropane - BSD | EPA-8260 | **93.7** | **8** | | 50 | 150 | 08/10/2018 | DLC |
| Bromobenzene - BS | EPA-8260 | **107** | | | 50 | 150 | 08/10/2018 | DLC |
| Bromobenzene - BSD | EPA-8260 | **99.3** | **8** | | 50 | 150 | 08/10/2018 | DLC |
| N-Propyl Benzene - BS | EPA-8260 | **108** | | | 50 | 150 | 08/10/2018 | DLC |
| N-Propyl Benzene - BSD | EPA-8260 | **98.6** | **9** | | 50 | 150 | 08/10/2018 | DLC |
| 2-Chlorotoluene - BS | EPA-8260 | **105** | | | 50 | 150 | 08/10/2018 | DLC |
| 2-Chlorotoluene - BSD | EPA-8260 | **96.7** | **8** | | 50 | 150 | 08/10/2018 | DLC |
| 1,3,5-Trimethylbenzene - BS | EPA-8260 | **108** | | | 50 | 150 | 08/10/2018 | DLC |
| 1,3,5-Trimethylbenzene - BSD | EPA-8260 | **99.2** | **8** | | 50 | 150 | 08/10/2018 | DLC |
| 4-Chlorotoluene - BS | EPA-8260 | **105** | | | 50 | 150 | 08/10/2018 | DLC |
| 4-Chlorotoluene - BSD | EPA-8260 | **97.5** | **8** | | 50 | 150 | 08/10/2018 | DLC |
| T-Butyl Benzene - BS | EPA-8260 | **120** | | | 50 | 150 | 08/10/2018 | DLC |
| T-Butyl Benzene - BSD | EPA-8260 | **96.0** | **22** | | 50 | 150 | 08/10/2018 | DLC |
| 1,2,4-Trimethylbenzene - BS | EPA-8260 | **107** | | | 50 | 150 | 08/10/2018 | DLC |
| 1,2,4-Trimethylbenzene - BSD | EPA-8260 | **98.4** | **8** | | 50 | 150 | 08/10/2018 | DLC |
| S-Butyl Benzene - BS | EPA-8260 | **110** | | | 50 | 150 | 08/10/2018 | DLC |
| S-Butyl Benzene - BSD | EPA-8260 | **101** | **9** | | 50 | 150 | 08/10/2018 | DLC |
| P-Isopropyltoluene - BS | EPA-8260 | **112** | | | 50 | 150 | 08/10/2018 | DLC |
| P-Isopropyltoluene - BSD | EPA-8260 | **102** | **9** | | 50 | 150 | 08/10/2018 | DLC |
| 1,3-Dichlorobenzene - BS | EPA-8260 | **108** | | | 50 | 150 | 08/10/2018 | DLC |
| 1,3-Dichlorobenzene - BSD | EPA-8260 | **100** | **8** | | 50 | 150 | 08/10/2018 | DLC |
| 1,4-Dichlorobenzene - BS | EPA-8260 | **109** | | | 50 | 150 | 08/10/2018 | DLC |
| 1,4-Dichlorobenzene - BSD | EPA-8260 | **101** | **7** | | 50 | 150 | 08/10/2018 | DLC |
| N-Butylbenzene - BS | EPA-8260 | **112** | | | 50 | 150 | 08/10/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

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CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 8/14/2018
ALS SDG#: EV18080058
WDOE ACCREDITATION: C601

## LABORATORY CONTROL SAMPLE RESULTS

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| N-Butylbenzene - BSD | EPA-8260 | **102** | **10** | | 50 | 150 | 08/10/2018 | DLC |
| 1,2-Dichlorobenzene - BS | EPA-8260 | **108** | | | 50 | 150 | 08/10/2018 | DLC |
| 1,2-Dichlorobenzene - BSD | EPA-8260 | **100** | **7** | | 50 | 150 | 08/10/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane - BS | EPA-8260 | **99.1** | | | 50 | 150 | 08/10/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane - BSD | EPA-8260 | **91.4** | **8** | | 50 | 150 | 08/10/2018 | DLC |
| 1,2,4-Trichlorobenzene - BS | EPA-8260 | **113** | | | 50 | 150 | 08/10/2018 | DLC |
| 1,2,4-Trichlorobenzene - BSD | EPA-8260 | **104** | **8** | | 50 | 150 | 08/10/2018 | DLC |
| Hexachlorobutadiene - BS | EPA-8260 | **121** | | | 50 | 150 | 08/10/2018 | DLC |
| Hexachlorobutadiene - BSD | EPA-8260 | **110** | **9** | | 50 | 150 | 08/10/2018 | DLC |
| Naphthalene - BS | EPA-8260 | **110** | | | 50 | 150 | 08/10/2018 | DLC |
| Naphthalene - BSD | EPA-8260 | **101** | **9** | | 50 | 150 | 08/10/2018 | DLC |
| 1,2,3-Trichlorobenzene - BS | EPA-8260 | **113** | | | 50 | 150 | 08/10/2018 | DLC |
| 1,2,3-Trichlorobenzene - BSD | EPA-8260 | **104** | **8** | | 50 | 150 | 08/10/2018 | DLC |

APPROVED BY

Laboratory Director



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# Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

EV1808058

Date 8/10/18 Page 1 Of 1

PROJECT ID: 64001
REPORT TO COMPANY: EPI
PROJECT MANAGER: Sean Trimble
ADDRESS: 1180 NW Maple St.
Issaquah, WA 98027
PHONE: 425-395-0010 P.O. #:
E-MAIL: seant@epi-nw.com
INVOICE TO COMPANY: EPI
ATTENTION:
ADDRESS:

| SAMPLE I.D. | DATE | TIME | TYPE | LAB# | NWTPH-HCID | NWTPH-DX | NWTPH-GX | BTEX by EPA 8021 ☐ BTEX by EPA 8260 ☐ | MTBE by EPA 8021 ☐ MTBE by EPA 8260 ☐ | Halogenated Volatiles by EPA 8260 | Volatile Organic Compounds by EPA 8260 | EDB / EDC by EPA 8260 SIM (water) | EDB / EDC by EPA 8260 (soil) | Semivolatile Organic Compounds by EPA 8270 | Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM | PCB by EPA 8082 ☐ Pesticides by EPA 8081 ☐ | Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐ | Metals Other (Specify) | TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐ | OTHER (Specify) | NUMBER OF CONTAINERS | RECEIVED IN GOOD CONDITION? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. MW-1 | 8/10/18 | 0840 | $H_2O$ | 1 | | | | | | | X | | | | | | | | | | 3 | |
| 2. MW-24s | ↓ | 0828 | ↓ | 2 | | | | | | | X | | | | | | | | | | ↓ | |
| 3. MW-29s | | 0855 | | 3 | | | | | | | X | | | | | | | | | | | |
| 4. MW-14 | | 0900 | | 4 | | | | | | | X | | | | | | | | | | | |
| 5. MW-15i | | 0910 | | 5 | | | | | | | X | | | | | | | | | | | |
| 6. MW-15 | ↓ | 0920 | ↓ | 6 | | | | | | | X | | | | | | | | | | ↓ | |
| 7. Trip Blank | ↓ | — | ↓ | 7 | | | | | | | | | | | | | | | | | 3 | |
| 8. | | | | | | | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | | | | | | | |

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: EPI 8/10/18 1043
   Received By: Shawn Roberson ALS 8/10/18 1043
2. Relinquished By:
   Received By:

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: (10 Standard) 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis: (5 Standard) 3 1 SAME DAY

OTHER: Specify:

*Turnaround request less than standard may incur Rush Charges

December 5, 2018

Mr. Sean Trimble
Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

Dear Mr. Trimble,

On November 20th, 17 samples were received by our laboratory and assigned our laboratory project number EV18110126. The project was identified as your 64001. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director



ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

Environmental www.alsglobal.com
RIGHT SOLUTIONS RIGHT PARTNER

ALS Environmental

## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 12/5/2018<br>EV18110126<br>EV18110126-01 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 11/20/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 11/20/2018 8:45:00 AM |
| CLIENT SAMPLE ID | MW-11 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 11/21/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 11/21/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **14** | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trichloroethene | EPA-8260 | **16** | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 11/21/2018 | DLC |



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| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 11/20/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 11/20/2018 8:45:00 AM |
| CLIENT SAMPLE ID | MW-11 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 11/21/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **88.4** | 11/21/2018 | DLC |
| Toluene-d8 | EPA-8260 | **104** | 11/21/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **101** | 11/21/2018 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 12/5/2018<br>EV18110126<br>EV18110126-02 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 11/20/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 11/20/2018 9:15:00 AM |
| CLIENT SAMPLE ID | MW-26s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Vinyl Chloride | EPA-8260 | **0.83** | 0.20 | 1 | UG/L | 11/21/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 11/21/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **20** | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 11/21/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |



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| CLIENT SAMPLE ID | MW-26s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 11/21/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **86.7** | 11/21/2018 | DLC |
| Toluene-d8 | EPA-8260 | **106** | 11/21/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **99.2** | 11/21/2018 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 11/20/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 11/20/2018 9:40:00 AM |
| CLIENT SAMPLE ID | SBW-3 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 11/21/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 11/21/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trichloroethene | EPA-8260 | **15** | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 11/21/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 12/5/2018<br>EV18110126<br>EV18110126-03 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 11/20/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 11/20/2018 9:40:00 AM |
| CLIENT SAMPLE ID | SBW-3 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 11/21/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **87.8** | 11/21/2018 | DLC |
| Toluene-d8 | EPA-8260 | **104** | 11/21/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **98.7** | 11/21/2018 | DLC |

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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE: | 12/5/2018 |
| | | ALS JOB#: | EV18110126 |
| | | ALS SAMPLE#: | EV18110126-04 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 11/20/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 11/20/2018 11:15:00 AM |
| CLIENT SAMPLE ID | SBW-3 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Chromium (VI) | EPA-7196 | **86** | 10 | 1 | UG/L | 11/21/2018 | JMK |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE: | 12/5/2018 |
| | | ALS JOB#: | EV18110126 |
| | | ALS SAMPLE#: | EV18110126-05 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 11/20/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 11/20/2018 11:25:00 AM |
| CLIENT SAMPLE ID | SBW-2 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Vinyl Chloride | EPA-8260 | **40** | 0.20 | 1 | UG/L | 11/21/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 11/21/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **220** | 20 | 10 | UG/L | 11/26/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trichloroethene | EPA-8260 | **11** | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 11/21/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 12/5/2018<br>EV18110126<br>EV18110126-05 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 11/20/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 11/20/2018 11:25:00 AM |
| CLIENT SAMPLE ID | SBW-2 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 11/21/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **88.1** | 11/21/2018 | DLC |
| 1,2-Dichloroethane-d4 10X Dilution | EPA-8260 | **88.4** | 11/26/2018 | DLC |
| Toluene-d8 | EPA-8260 | **104** | 11/21/2018 | DLC |
| Toluene-d8 10X Dilution | EPA-8260 | **104** | 11/26/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **96.8** | 11/21/2018 | DLC |
| 4-Bromofluorobenzene 10X Dilution | EPA-8260 | **95.8** | 11/26/2018 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE: | 12/5/2018 |
| | | ALS JOB#: | EV18110126 |
| | | ALS SAMPLE#: | EV18110126-06 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 11/20/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 11/20/2018 11:35:00 AM |
| CLIENT SAMPLE ID | MW-3 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Chromium (VI) | EPA-7196 | U | 10 | 1 | UG/L | 11/21/2018 | JMK |

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| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 12/5/2018<br>EV18110126<br>EV18110126-07 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 11/20/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 11/20/2018 11:55:00 AM |
| CLIENT SAMPLE ID | MW-18 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Chromium (VI) | EPA-7196 | U | 10 | 1 | UG/L | 11/21/2018 | JMK |

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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 12/5/2018<br>EV18110126<br>EV18110126-08 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 11/20/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 11/20/2018 12:00:00 PM |
| CLIENT SAMPLE ID | SBW-2 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Chromium (VI) | EPA-7196 | U | 10 | 1 | UG/L | 11/21/2018 | JMK |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 12/5/2018<br>EV18110126<br>EV18110126-09 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 11/20/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 11/20/2018 12:45:00 PM |
| CLIENT SAMPLE ID | MW-21s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 11/21/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 11/21/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 11/21/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 12/5/2018<br>EV18110126<br>EV18110126-09 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 11/20/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 11/20/2018 12:45:00 PM |
| CLIENT SAMPLE ID | MW-21s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 11/21/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **89.4** | 11/21/2018 | DLC |
| Toluene-d8 | EPA-8260 | **105** | 11/21/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **99.6** | 11/21/2018 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 12/5/2018<br>EV18110126<br>EV18110126-10 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 11/20/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 11/20/2018 12:55:00 PM |
| CLIENT SAMPLE ID | MW-8s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Vinyl Chloride | EPA-8260 | **38** | 1.0 | 5 | UG/L | 11/26/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 11/21/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | **5.8** | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **38** | 10 | 5 | UG/L | 11/26/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trichloroethene | EPA-8260 | **8.9** | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 11/21/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 12/5/2018<br>EV18110126<br>EV18110126-10 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 11/20/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 11/20/2018 12:55:00 PM |
| CLIENT SAMPLE ID | MW-8s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 11/21/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **87.7** | 11/21/2018 | DLC |
| 1,2-Dichloroethane-d4 5X Dilution | EPA-8260 | **88.0** | 11/26/2018 | DLC |
| Toluene-d8 | EPA-8260 | **104** | 11/21/2018 | DLC |
| Toluene-d8 5X Dilution | EPA-8260 | **105** | 11/26/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **97.7** | 11/21/2018 | DLC |
| 4-Bromofluorobenzene 5X Dilution | EPA-8260 | **96.2** | 11/26/2018 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 12/5/2018<br>EV18110126<br>EV18110126-11 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 11/20/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 11/20/2018 1:00:00 PM |
| CLIENT SAMPLE ID | MW-14 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 11/21/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 11/21/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloroform | EPA-8260 | **12** | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trichloroethene | EPA-8260 | **2.1** | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 11/21/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |



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| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 12/5/2018<br>EV18110126<br>EV18110126-11 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 11/20/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 11/20/2018 1:00:00 PM |
| CLIENT SAMPLE ID | MW-14 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 11/21/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **89.2** | 11/21/2018 | DLC |
| Toluene-d8 | EPA-8260 | **104** | 11/21/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **99.2** | 11/21/2018 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 12/5/2018<br>EV18110126<br>EV18110126-12 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 11/20/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 11/20/2018 1:10:00 PM |
| CLIENT SAMPLE ID | MW-15i | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Vinyl Chloride | EPA-8260 | **2.1** | 0.20 | 1 | UG/L | 11/21/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 11/21/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 11/21/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 12/5/2018<br>EV18110126<br>EV18110126-12 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 11/20/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 11/20/2018 1:10:00 PM |
| CLIENT SAMPLE ID | MW-15i | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 11/21/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **87.7** | 11/21/2018 | DLC |
| Toluene-d8 | EPA-8260 | **105** | 11/21/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **98.6** | 11/21/2018 | DLC |

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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 12/5/2018<br>EV18110126<br>EV18110126-13 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 11/20/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 11/20/2018 1:20:00 PM |
| CLIENT SAMPLE ID | MW-15s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Vinyl Chloride | EPA-8260 | **4.2** | 0.20 | 1 | UG/L | 11/21/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 11/21/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 11/21/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 12/5/2018<br>EV18110126<br>EV18110126-13 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 11/20/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 11/20/2018 1:20:00 PM |
| CLIENT SAMPLE ID | MW-15s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 11/21/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Total Organic Carbon (TOC) | SM5310C | U | 1.0 | 1 | MG/L | 11/28/2018 | ALFT |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **88.2** | 11/21/2018 | DLC |
| Toluene-d8 | EPA-8260 | **105** | 11/21/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **99.9** | 11/21/2018 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE: | 12/5/2018 |
| | | ALS JOB#: | EV18110126 |
| | | ALS SAMPLE#: | EV18110126-14 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 11/20/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 11/20/2018 1:35:00 PM |
| CLIENT SAMPLE ID | MW-19 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 11/21/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 11/21/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **4.0** | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 11/21/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 12/5/2018<br>EV18110126<br>EV18110126-14 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 11/20/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 11/20/2018 1:35:00 PM |
| CLIENT SAMPLE ID | MW-19 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 11/21/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **89.2** | 11/21/2018 | DLC |
| Toluene-d8 | EPA-8260 | **104** | 11/21/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **99.8** | 11/21/2018 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 12/5/2018<br>EV18110126<br>EV18110126-15 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 11/20/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 11/20/2018 |
| CLIENT SAMPLE ID | DUP-1 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Vinyl Chloride | EPA-8260 | U | 0.20 | 1 | UG/L | 11/21/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 11/21/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **3.8** | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 11/21/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 12/5/2018<br>EV18110126<br>EV18110126-15 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 11/20/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 11/20/2018 |
| CLIENT SAMPLE ID | DUP-1 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 11/21/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **86.9** | 11/21/2018 | DLC |
| Toluene-d8 | EPA-8260 | **105** | 11/21/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **98.8** | 11/21/2018 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 12/5/2018<br>EV18110126<br>EV18110126-16 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 11/20/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 11/20/2018 1:45:00 PM |
| CLIENT SAMPLE ID | MW-7s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Vinyl Chloride | EPA-8260 | **35** | 2.0 | 10 | UG/L | 11/26/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 11/21/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | **2.4** | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **100** | 20 | 10 | UG/L | 11/26/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trichloroethene | EPA-8260 | **7.3** | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 11/21/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 12/5/2018<br>EV18110126<br>EV18110126-16 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 11/20/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 11/20/2018 1:45:00 PM |
| CLIENT SAMPLE ID | MW-7s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 11/21/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Total Organic Carbon (TOC) | SM5310C | U | 1.0 | 1 | MG/L | 11/28/2018 | ALFT |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **86.9** | 11/21/2018 | DLC |
| 1,2-Dichloroethane-d4 10X Dilution | EPA-8260 | **88.7** | 11/26/2018 | DLC |
| Toluene-d8 | EPA-8260 | **103** | 11/21/2018 | DLC |
| Toluene-d8 10X Dilution | EPA-8260 | **105** | 11/26/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **98.2** | 11/21/2018 | DLC |
| 4-Bromofluorobenzene 10X Dilution | EPA-8260 | **97.6** | 11/26/2018 | DLC |

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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 12/5/2018<br>EV18110126<br>EV18110126-17 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 11/20/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 11/20/2018 1:55:00 PM |
| CLIENT SAMPLE ID | MW-7ir | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Vinyl Chloride | EPA-8260 | **0.68** | 0.20 | 1 | UG/L | 11/21/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 11/21/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 11/21/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |



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| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 12/5/2018<br>EV18110126<br>EV18110126-17 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 11/20/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 11/20/2018 1:55:00 PM |
| CLIENT SAMPLE ID | MW-7ir | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 11/21/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **89.8** | 11/21/2018 | DLC |
| Toluene-d8 | EPA-8260 | **103** | 11/21/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **97.3** | 11/21/2018 | DLC |

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## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS SDG#:<br>WDOE ACCREDITATION: | 12/5/2018<br>EV18110126<br>C601 |
| CLIENT CONTACT: | Sean Trimble | | |
| CLIENT PROJECT: | 64001 | | |

## LABORATORY BLANK RESULTS

### MB-112118W - Batch 134956 - Water by EPA-8260

| ANALYTE | METHOD | RESULTS | UNITS | REPORTING LIMITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Chloromethane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Vinyl Chloride | EPA-8260 | U | UG/L | 0.20 | 11/21/2018 | DLC |
| Bromomethane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Chloroethane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Acetone | EPA-8260 | U | UG/L | 25 | 11/21/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | UG/L | 5.0 | 11/21/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | UG/L | 10 | 11/21/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 2-Butanone | EPA-8260 | U | UG/L | 10 | 11/21/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Chloroform | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Benzene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Trichloroethene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Dibromomethane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | UG/L | 10 | 11/21/2018 | DLC |
| Toluene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | UG/L | 10 | 11/21/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | UG/L | 0.010 | 11/21/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

CLIENT: Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 12/5/2018
ALS SDG#: EV18110126
WDOE ACCREDITATION: C601

## LABORATORY BLANK RESULTS

### MB-112118W - Batch 134956 - Water by EPA-8260

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | UG/L | 4.0 | 11/21/2018 | DLC |
| Styrene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| o-Xylene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Bromoform | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Bromobenzene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | UG/L | 10 | 11/21/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Naphthalene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.

### MBLK-R327905 - Batch R327905 - Water by EPA-7196

| ANALYTE | METHOD | RESULTS | UNITS | REPORTING LIMITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|
| Chromium (VI) | EPA-7196 | U | UG/L | 10 | 11/21/2018 | JMK |

U - Analyte analyzed for but not detected at level above reporting limit.

### MBLK-328654 - Batch R328654 - Water by SM5310C

| ANALYTE | METHOD | RESULTS | UNITS | REPORTING LIMITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|
| Total Organic Carbon (TOC) | SM5310C | U | MG/L | 1.0 | 11/28/2018 | ALFT |



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CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE: | 12/5/2018 |
| | | ALS SDG#: | EV18110126 |
| | | WDOE ACCREDITATION: | C601 |
| CLIENT CONTACT: | Sean Trimble | | |
| CLIENT PROJECT: | 64001 | | |

LABORATORY BLANK RESULTS

**MBLK-328654 - Batch R328654 - Water by SM5310C**

U - Analyte analyzed for but not detected at level above reporting limit.



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CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 12/5/2018
ALS SDG#: EV18110126
WDOE ACCREDITATION: C601

## LABORATORY CONTROL SAMPLE RESULTS

### ALS Test Batch ID: 134956 - Water by EPA-8260

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane - BS | EPA-8260 | **118** | | | 50 | 150 | 11/21/2018 | DLC |
| Dichlorodifluoromethane - BSD | EPA-8260 | **97.9** | **19** | | 50 | 150 | 11/21/2018 | DLC |
| Chloromethane - BS | EPA-8260 | **108** | | | 50 | 150 | 11/21/2018 | DLC |
| Chloromethane - BSD | EPA-8260 | **97.4** | **11** | | 50 | 150 | 11/21/2018 | DLC |
| Vinyl Chloride - BS | EPA-8260 | **109** | | | 50 | 150 | 11/21/2018 | DLC |
| Vinyl Chloride - BSD | EPA-8260 | **95.5** | **13** | | 50 | 150 | 11/21/2018 | DLC |
| Bromomethane - BS | EPA-8260 | **181** | | SQ1 | 50 | 150 | 11/21/2018 | DLC |
| Bromomethane - BSD | EPA-8260 | **164** | **10** | SQ1 | 50 | 150 | 11/21/2018 | DLC |
| Chloroethane - BS | EPA-8260 | **114** | | | 50 | 150 | 11/21/2018 | DLC |
| Chloroethane - BSD | EPA-8260 | **101** | **12** | | 50 | 150 | 11/21/2018 | DLC |
| Carbon Tetrachloride - BS | EPA-8260 | **104** | | | 50 | 150 | 11/21/2018 | DLC |
| Carbon Tetrachloride - BSD | EPA-8260 | **92.1** | **12** | | 50 | 150 | 11/21/2018 | DLC |
| Trichlorofluoromethane - BS | EPA-8260 | **114** | | | 50 | 150 | 11/21/2018 | DLC |
| Trichlorofluoromethane - BSD | EPA-8260 | **101** | **12** | | 50 | 150 | 11/21/2018 | DLC |
| Carbon Disulfide - BS | EPA-8260 | **113** | | | 50 | 150 | 11/21/2018 | DLC |
| Carbon Disulfide - BSD | EPA-8260 | **99.4** | **13** | | 50 | 150 | 11/21/2018 | DLC |
| Acetone - BS | EPA-8260 | **166** | | SQ1 | 50 | 150 | 11/21/2018 | DLC |
| Acetone - BSD | EPA-8260 | **144** | **14** | | 50 | 150 | 11/21/2018 | DLC |
| 1,1-Dichloroethene - BS | EPA-8260 | **114** | | | 72.5 | 136 | 11/21/2018 | DLC |
| 1,1-Dichloroethene - BSD | EPA-8260 | **101** | **12** | | 72.5 | 136 | 11/21/2018 | DLC |
| Methylene Chloride - BS | EPA-8260 | **144** | | | 50 | 150 | 11/21/2018 | DLC |
| Methylene Chloride - BSD | EPA-8260 | **132** | **9** | | 50 | 150 | 11/21/2018 | DLC |
| Acrylonitrile - BS | EPA-8260 | **112** | | | 50 | 150 | 11/21/2018 | DLC |
| Acrylonitrile - BSD | EPA-8260 | **99.5** | **12** | | 50 | 150 | 11/21/2018 | DLC |
| Methyl T-Butyl Ether - BS | EPA-8260 | **107** | | | 50 | 150 | 11/21/2018 | DLC |
| Methyl T-Butyl Ether - BSD | EPA-8260 | **101** | **6** | | 50 | 150 | 11/21/2018 | DLC |
| Trans-1,2-Dichloroethene - BS | EPA-8260 | **116** | | | 50 | 150 | 11/21/2018 | DLC |
| Trans-1,2-Dichloroethene - BSD | EPA-8260 | **104** | **11** | | 50 | 150 | 11/21/2018 | DLC |
| 1,1-Dichloroethane - BS | EPA-8260 | **109** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,1-Dichloroethane - BSD | EPA-8260 | **98.5** | **10** | | 50 | 150 | 11/21/2018 | DLC |
| 2-Butanone - BS | EPA-8260 | **110** | | | 50 | 150 | 11/21/2018 | DLC |
| 2-Butanone - BSD | EPA-8260 | **99.6** | **10** | | 50 | 150 | 11/21/2018 | DLC |
| Cis-1,2-Dichloroethene - BS | EPA-8260 | **116** | | | 50 | 150 | 11/21/2018 | DLC |
| Cis-1,2-Dichloroethene - BSD | EPA-8260 | **105** | **10** | | 50 | 150 | 11/21/2018 | DLC |
| 2,2-Dichloropropane - BS | EPA-8260 | **118** | | | 50 | 150 | 11/21/2018 | DLC |
| 2,2-Dichloropropane - BSD | EPA-8260 | **103** | **14** | | 50 | 150 | 11/21/2018 | DLC |
| Bromochloromethane - BS | EPA-8260 | **105** | | | 50 | 150 | 11/21/2018 | DLC |
| Bromochloromethane - BSD | EPA-8260 | **97.2** | **7** | | 50 | 150 | 11/21/2018 | DLC |
| Chloroform - BS | EPA-8260 | **97.5** | | | 50 | 150 | 11/21/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

CLIENT: Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 12/5/2018
ALS SDG#: EV18110126
WDOE ACCREDITATION: C601

## LABORATORY CONTROL SAMPLE RESULTS

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| Chloroform - BSD | EPA-8260 | **88.5** | **10** | | 50 | 150 | 11/21/2018 | DLC |
| 1,1,1-Trichloroethane - BS | EPA-8260 | **110** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,1,1-Trichloroethane - BSD | EPA-8260 | **98.3** | **11** | | 50 | 150 | 11/21/2018 | DLC |
| 1,1-Dichloropropene - BS | EPA-8260 | **114** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,1-Dichloropropene - BSD | EPA-8260 | **101** | **12** | | 50 | 150 | 11/21/2018 | DLC |
| 1,2-Dichloroethane - BS | EPA-8260 | **88.8** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,2-Dichloroethane - BSD | EPA-8260 | **80.5** | **10** | | 50 | 150 | 11/21/2018 | DLC |
| Benzene - BS | EPA-8260 | **99.5** | | | 74.7 | 143 | 11/21/2018 | DLC |
| Benzene - BSD | EPA-8260 | **87.8** | **12** | | 74.7 | 143 | 11/21/2018 | DLC |
| Trichloroethene - BS | EPA-8260 | **101** | | | 74.4 | 141 | 11/21/2018 | DLC |
| Trichloroethene - BSD | EPA-8260 | **89.2** | **13** | | 74.4 | 141 | 11/21/2018 | DLC |
| 1,2-Dichloropropane - BS | EPA-8260 | **101** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,2-Dichloropropane - BSD | EPA-8260 | **90.6** | **11** | | 50 | 150 | 11/21/2018 | DLC |
| Dibromomethane - BS | EPA-8260 | **99.8** | | | 50 | 150 | 11/21/2018 | DLC |
| Dibromomethane - BSD | EPA-8260 | **91.1** | **9** | | 50 | 150 | 11/21/2018 | DLC |
| Bromodichloromethane - BS | EPA-8260 | **98.7** | | | 50 | 150 | 11/21/2018 | DLC |
| Bromodichloromethane - BSD | EPA-8260 | **88.5** | **11** | | 50 | 150 | 11/21/2018 | DLC |
| Trans-1,3-Dichloropropene - BS | EPA-8260 | **108** | | | 50 | 150 | 11/21/2018 | DLC |
| Trans-1,3-Dichloropropene - BSD | EPA-8260 | **99.2** | **9** | | 50 | 150 | 11/21/2018 | DLC |
| 4-Methyl-2-Pentanone - BS | EPA-8260 | **94.2** | | | 50 | 150 | 11/21/2018 | DLC |
| 4-Methyl-2-Pentanone - BSD | EPA-8260 | **89.2** | **5** | | 50 | 150 | 11/21/2018 | DLC |
| Toluene - BS | EPA-8260 | **104** | | | 71.7 | 139 | 11/21/2018 | DLC |
| Toluene - BSD | EPA-8260 | **91.1** | **13** | | 71.7 | 139 | 11/21/2018 | DLC |
| Cis-1,3-Dichloropropene - BS | EPA-8260 | **104** | | | 50 | 150 | 11/21/2018 | DLC |
| Cis-1,3-Dichloropropene - BSD | EPA-8260 | **93.2** | **11** | | 50 | 150 | 11/21/2018 | DLC |
| 1,1,2-Trichloroethane - BS | EPA-8260 | **106** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,1,2-Trichloroethane - BSD | EPA-8260 | **98.2** | **8** | | 50 | 150 | 11/21/2018 | DLC |
| 2-Hexanone - BS | EPA-8260 | **90.5** | | | 50 | 150 | 11/21/2018 | DLC |
| 2-Hexanone - BSD | EPA-8260 | **82.5** | **9** | | 50 | 150 | 11/21/2018 | DLC |
| 1,3-Dichloropropane - BS | EPA-8260 | **105** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,3-Dichloropropane - BSD | EPA-8260 | **96.9** | **8** | | 50 | 150 | 11/21/2018 | DLC |
| Tetrachloroethylene - BS | EPA-8260 | **91.4** | | | 50 | 150 | 11/21/2018 | DLC |
| Tetrachloroethylene - BSD | EPA-8260 | **81.7** | **11** | | 50 | 150 | 11/21/2018 | DLC |
| Dibromochloromethane - BS | EPA-8260 | **111** | | | 50 | 150 | 11/21/2018 | DLC |
| Dibromochloromethane - BSD | EPA-8260 | **102** | **9** | | 50 | 150 | 11/21/2018 | DLC |
| 1,2-Dibromoethane - BS | EPA-8260 | **117** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,2-Dibromoethane - BSD | EPA-8260 | **108** | **8** | | 50 | 150 | 11/21/2018 | DLC |
| Chlorobenzene - BS | EPA-8260 | **109** | | | 73 | 131 | 11/21/2018 | DLC |
| Chlorobenzene - BSD | EPA-8260 | **97.5** | **11** | | 73 | 131 | 11/21/2018 | DLC |
| 1,1,1,2-Tetrachloroethane - BS | EPA-8260 | **108** | | | 50 | 150 | 11/21/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

CLIENT: Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 12/5/2018
ALS SDG#: EV18110126
WDOE ACCREDITATION: C601

## LABORATORY CONTROL SAMPLE RESULTS

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane - BSD | EPA-8260 | **97.8** | **10** | | 50 | 150 | 11/21/2018 | DLC |
| Ethylbenzene - BS | EPA-8260 | **107** | | | 50 | 150 | 11/21/2018 | DLC |
| Ethylbenzene - BSD | EPA-8260 | **95.1** | **12** | | 50 | 150 | 11/21/2018 | DLC |
| m,p-Xylene - BS | EPA-8260 | **109** | | | 50 | 150 | 11/21/2018 | DLC |
| m,p-Xylene - BSD | EPA-8260 | **97.1** | **11** | | 50 | 150 | 11/21/2018 | DLC |
| Styrene - BS | EPA-8260 | **112** | | | 50 | 150 | 11/21/2018 | DLC |
| Styrene - BSD | EPA-8260 | **101** | **10** | | 50 | 150 | 11/21/2018 | DLC |
| o-Xylene - BS | EPA-8260 | **108** | | | 50 | 150 | 11/21/2018 | DLC |
| o-Xylene - BSD | EPA-8260 | **97.2** | **11** | | 50 | 150 | 11/21/2018 | DLC |
| Bromoform - BS | EPA-8260 | **112** | | | 50 | 150 | 11/21/2018 | DLC |
| Bromoform - BSD | EPA-8260 | **105** | **6** | | 50 | 150 | 11/21/2018 | DLC |
| Isopropylbenzene - BS | EPA-8260 | **109** | | | 50 | 150 | 11/21/2018 | DLC |
| Isopropylbenzene - BSD | EPA-8260 | **97.0** | **12** | | 50 | 150 | 11/21/2018 | DLC |
| 1,1,2,2-Tetrachloroethane - BS | EPA-8260 | **102** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,1,2,2-Tetrachloroethane - BSD | EPA-8260 | **95.1** | **7** | | 50 | 150 | 11/21/2018 | DLC |
| 1,2,3-Trichloropropane - BS | EPA-8260 | **99.0** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,2,3-Trichloropropane - BSD | EPA-8260 | **92.0** | **7** | | 50 | 150 | 11/21/2018 | DLC |
| Bromobenzene - BS | EPA-8260 | **102** | | | 50 | 150 | 11/21/2018 | DLC |
| Bromobenzene - BSD | EPA-8260 | **91.4** | **11** | | 50 | 150 | 11/21/2018 | DLC |
| N-Propyl Benzene - BS | EPA-8260 | **102** | | | 50 | 150 | 11/21/2018 | DLC |
| N-Propyl Benzene - BSD | EPA-8260 | **89.7** | **13** | | 50 | 150 | 11/21/2018 | DLC |
| 2-Chlorotoluene - BS | EPA-8260 | **98.5** | | | 50 | 150 | 11/21/2018 | DLC |
| 2-Chlorotoluene - BSD | EPA-8260 | **87.5** | **12** | | 50 | 150 | 11/21/2018 | DLC |
| 1,3,5-Trimethylbenzene - BS | EPA-8260 | **102** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,3,5-Trimethylbenzene - BSD | EPA-8260 | **90.1** | **12** | | 50 | 150 | 11/21/2018 | DLC |
| 4-Chlorotoluene - BS | EPA-8260 | **98.9** | | | 50 | 150 | 11/21/2018 | DLC |
| 4-Chlorotoluene - BSD | EPA-8260 | **87.9** | **12** | | 50 | 150 | 11/21/2018 | DLC |
| T-Butyl Benzene - BS | EPA-8260 | **103** | | | 50 | 150 | 11/21/2018 | DLC |
| T-Butyl Benzene - BSD | EPA-8260 | **91.8** | **12** | | 50 | 150 | 11/21/2018 | DLC |
| 1,2,4-Trimethylbenzene - BS | EPA-8260 | **99.5** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,2,4-Trimethylbenzene - BSD | EPA-8260 | **89.4** | **11** | | 50 | 150 | 11/21/2018 | DLC |
| S-Butyl Benzene - BS | EPA-8260 | **104** | | | 50 | 150 | 11/21/2018 | DLC |
| S-Butyl Benzene - BSD | EPA-8260 | **92.2** | **12** | | 50 | 150 | 11/21/2018 | DLC |
| P-Isopropyltoluene - BS | EPA-8260 | **103** | | | 50 | 150 | 11/21/2018 | DLC |
| P-Isopropyltoluene - BSD | EPA-8260 | **91.8** | **12** | | 50 | 150 | 11/21/2018 | DLC |
| 1,3-Dichlorobenzene - BS | EPA-8260 | **104** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,3-Dichlorobenzene - BSD | EPA-8260 | **93.3** | **11** | | 50 | 150 | 11/21/2018 | DLC |
| 1,4-Dichlorobenzene - BS | EPA-8260 | **103** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,4-Dichlorobenzene - BSD | EPA-8260 | **91.7** | **12** | | 50 | 150 | 11/21/2018 | DLC |
| N-Butylbenzene - BS | EPA-8260 | **101** | | | 50 | 150 | 11/21/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

CLIENT: Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 12/5/2018
ALS SDG#: EV18110126
WDOE ACCREDITATION: C601

## LABORATORY CONTROL SAMPLE RESULTS

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| N-Butylbenzene - BSD | EPA-8260 | **90.4** | **11** | | 50 | 150 | 11/21/2018 | DLC |
| 1,2-Dichlorobenzene - BS | EPA-8260 | **104** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,2-Dichlorobenzene - BSD | EPA-8260 | **93.6** | **10** | | 50 | 150 | 11/21/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane - BS | EPA-8260 | **99.9** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane - BSD | EPA-8260 | **93.4** | **7** | | 50 | 150 | 11/21/2018 | DLC |
| 1,2,4-Trichlorobenzene - BS | EPA-8260 | **91.8** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,2,4-Trichlorobenzene - BSD | EPA-8260 | **84.1** | **9** | | 50 | 150 | 11/21/2018 | DLC |
| Hexachlorobutadiene - BS | EPA-8260 | **114** | | | 50 | 150 | 11/21/2018 | DLC |
| Hexachlorobutadiene - BSD | EPA-8260 | **101** | **12** | | 50 | 150 | 11/21/2018 | DLC |
| Naphthalene - BS | EPA-8260 | **91.8** | | | 50 | 150 | 11/21/2018 | DLC |
| Naphthalene - BSD | EPA-8260 | **86.8** | **6** | | 50 | 150 | 11/21/2018 | DLC |
| 1,2,3-Trichlorobenzene - BS | EPA-8260 | **91.8** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,2,3-Trichlorobenzene - BSD | EPA-8260 | **84.1** | **9** | | 50 | 150 | 11/21/2018 | DLC |

SQ1 - Spike outside of control limits with a high bias. Associated compounds non-detect. No corrective action taken.

### ALS Test Batch ID: R327905 - Water by EPA-7196

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| Chromium (VI) - BS | EPA-7196 | **95.0** | | | 90 | 114 | 11/21/2018 | JMK |
| Chromium (VI) - BSD | EPA-7196 | **97.0** | **2** | | 90 | 114 | 11/21/2018 | JMK |

### ALS Test Batch ID: R328654 - Water by SM5310C

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon (TOC) - BS | SM5310C | **100** | | | 85 | 115 | 11/28/2018 | ALFT |
| Total Organic Carbon (TOC) - BSD | SM5310C | **101** | **1** | | 85 | 115 | 11/28/2018 | ALFT |

APPROVED BY

Laboratory Director



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Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

# Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): EV18110126

Date 11/20/18 Page 1 Of 2

PROJECT ID: 64001
REPORT TO COMPANY: Environmental Partners Inc.
PROJECT MANAGER: Sean Trimble
ADDRESS: 1180 NW. Maple St. Suite 310
Issaquah WA 98027
PHONE: 425-395-0010 P.O. #:
E-MAIL: seant@epi-wa.com
INVOICE TO COMPANY: Environmental Partners Inc.
ATTENTION: Sean. Trimble
ADDRESS: 1180 NW Maple St. Suite 310
Issaquah WA 98027

| SAMPLE I.D. | DATE | TIME | TYPE | LAB# | NWTPH-HCID | NWTPH-DX | NWTPH-GX | BTEX by EPA 8021 ☐ BTEX by EPA 8260 ☐ | MTBE by EPA 8021 ☐ MTBE by EPA 8260 ☐ | Halogenated Volatiles by EPA 8260 | Volatile Organic Compounds by EPA 8260 | EDB / EDC by EPA 8260 SIM (water) | EDB / EDC by EPA 8260 (soil) | Semivolatile Organic Compounds by EPA 8270 | Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM | PCB by EPA 8082 ☐ Pesticides by EPA 8081 ☐ | Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐ | Metals Other (Specify) | TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐ | OTHER (Specify): Hex Cr | NUMBER OF CONTAINERS | RECEIVED IN GOOD CONDITION? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. MW-11 | 11/20/18 | 0845 | Water | 1 | | | | | | | X | | | | | | | | | | 3 | |
| 2. MW-26s | 11/20/18 | 0915 | Water | 2 | | | | | | | X | | | | | | | | | | 3 | |
| 3. SBW-3 | 11/20/18 | 0940 | water | 3 | | | | | | | X | | | | | | | | | | 3 | |
| 4. SBW-3 | 11/20/18 | 1115 | water | 4 | | | | | | | | | | | | | | | X | | 1 | |
| 5. SBW-2 | 11/20/18 | 1125 | water | 5 | | | | | | | X | | | | | | | | | | 3 | |
| 6. MW-3 | 11/20/18 | 1135 | water | 6 | | | | | | | | | | | | | | | X | | 1 | |
| 7. MW-18 | 11/20/18 | 1155 | water | 7 | | | | | | | | | | | | | | | X | | 1 | |
| 8. SBW-2 | 11/20/18 | 1200 | Water | 8 | | | | | | | | | | | | | | | X | | 1 | |
| 9. MW-21s | 11/20/18 | 1245 | water | 9 | | | | | | | X | | | | | | | | | | 3 | |
| 10. ~~MW-24s~~ | ~~11/20/18~~ | ~~1250~~ | | | | | | | | | X | | | | | | | | | | 3 | |

WRW

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Wesley Weisberg, EPI, 11/20/18, 1400
Received By: ALS 11/20/18 14:00
2. Relinquished By:
Received By:

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: [10] Standard ✓ | 5 | 3 | 2 | 1 | SAME DAY

Fuels & Hydrocarbon Analysis: [5] Standard ✓ | 3 | 1 | SAME DAY

OTHER:
Specify:

*Turnaround request less than standard may incur Rush Charges

**ALS Environmental**
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# Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): EV1811012G

Date 11/20/18 Page 2 Of 2

PROJECT ID: 64001
REPORT TO COMPANY: Environmental Partners, Inc.
PROJECT MANAGER: Sean Trimble
ADDRESS: 1180 NW Maple St. Suite 310
Issaquah WA 98027
PHONE: 425-395-0010 P.O. #:
E-MAIL: seant@epi-wa.com
INVOICE TO COMPANY: epi
ATTENTION: Sean Trimble
ADDRESS: 1180 NW Maple St Suite 310
Issaquah WA 98027

| SAMPLE I.D. | DATE | TIME | TYPE | LAB# |
|---|---|---|---|---|
| 1. MW-8s | 11/20/18 | 1255 | Water | 10 |
| 2. MW-14 | 11/20/18 | 1300 | water | 11 |
| 3. MW-15d | 11/20/18 | 1310 | water | 12 |
| 4. MW-15s | 11/20/18 | 1320 | water | 13 |
| 5. MW-19 | 11/20/18 | 1335 | Water | 14 |
| 6. DUP-1 | 11/20/18 | | water | 15 |
| 7. MW-7s | 11/20/18 | 1345 | water | 16 |
| 8. MW-7ir | 11/20/18 | 1365 | water | 17 |
| 9. | | | | |
| 10. | | | | |

ANALYSIS REQUESTED

| NWTPH-HCID | NWTPH-DX | NWTPH-GX | BTEX by EPA 8021 ☐ BTEX by EPA 8260 ☐ | MTBE by EPA 8021 ☐ MTBE by EPA 8260 ☐ | Halogenated Volatiles by EPA 8260 | Volatile Organic Compounds by EPA 8260 | EDB / EDC by EPA 8260 SIM (water) | EDB / EDC by EPA 8260 (soil) | Semivolatile Organic Compounds by EPA 8270 | Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM | PCB by EPA 8082 ☐ Pesticides by EPA 8081 ☐ | Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐ | Metals Other (Specify) | TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | X | | | | | | | | |
| | | | | | | X | | | | | | | | |
| | | | | | | X | | | | | | | | |
| | | | | | | X | | | | | | | | |
| | | | | | | X | | | | | | | | |
| | | | | | | X | | | | | | | | |
| | | | | | | X | | | | | | | | |
| | | | | | | X | | | | | | | | |
| | | | | | | X | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

OTHER (Specify): TOC

| NUMBER OF CONTAINERS | RECEIVED IN GOOD CONDITION? |
|---|---|
| 3 | |
| 3 | |
| 3 | |
| 4 | |
| 3 | |
| 3 | |
| 4 | |
| 3 | |

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Wesley Weisberg, EPI, 11/20/18, 1400
Received By: [signature] ALS 11/20/18 1406
2. Relinquished By:
Received By:

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: 10 Standard ✓ | 5 | 3 | 2 | 1 | SAME DAY

Fuels & Hydrocarbon Analysis: 5 Standard ✓ | 3 | 1 | SAME DAY

OTHER:
Specify:

*Turnaround request less than standard may incur Rush Charges

December 5, 2018

Mr. Sean Trimble
Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

Dear Mr. Trimble,

On November 21st, 3 samples were received by our laboratory and assigned our laboratory project number EV18110134. The project was identified as your 64001. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director



ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 12/5/2018<br>EV18110134<br>EV18110134-01 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 11/21/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 11/21/2018 10:25:00 AM |
| CLIENT SAMPLE ID | MW-24s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Vinyl Chloride | EPA-8260 | **2.4** | 0.20 | 1 | UG/L | 11/21/2018 | DLC |
| Bromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Acetone | EPA-8260 | U | 25 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | 5.0 | 1 | UG/L | 11/21/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Butanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | **4.0** | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Chloroform | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trichloroethene | EPA-8260 | **15** | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Dibromomethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| Toluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 0.010 | 1 | UG/L | 11/21/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 12/5/2018<br>EV18110134<br>EV18110134-01 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 11/21/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 11/21/2018 10:25:00 AM |
| CLIENT SAMPLE ID | MW-24s | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Chlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | 4.0 | 1 | UG/L | 11/21/2018 | DLC |
| Styrene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| o-Xylene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromoform | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Bromobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 10 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| Naphthalene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 2.0 | 1 | UG/L | 11/21/2018 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | EPA-8260 | **89.1** | 11/21/2018 | DLC |
| Toluene-d8 | EPA-8260 | **104** | 11/21/2018 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **99.1** | 11/21/2018 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE: | 12/5/2018 |
| | | ALS JOB#: | EV18110134 |
| | | ALS SAMPLE#: | EV18110134-02 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 11/21/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 11/21/2018 10:15:00 AM |
| CLIENT SAMPLE ID | MW-16 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Total Organic Carbon (TOC) | SM5310C | U | 1.0 | 1 | MG/L | 11/28/2018 | ALFT |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Environmental Partners, Inc.<br>1180 NW Maple St, Suite 310<br>Issaquah, WA 98027 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 12/5/2018<br>EV18110134<br>EV18110134-03 |
| CLIENT CONTACT: | Sean Trimble | DATE RECEIVED: | 11/21/2018 |
| CLIENT PROJECT: | 64001 | COLLECTION DATE: | 11/21/2018 11:00:00 AM |
| CLIENT SAMPLE ID | MW-1 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| Total Organic Carbon (TOC) | SM5310C | **8.3** | 1.0 | 1 | MG/L | 11/28/2018 | ALFT |



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## CERTIFICATE OF ANALYSIS

CLIENT: Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

CLIENT CONTACT: Sean Trimble

CLIENT PROJECT: 64001

DATE: 12/5/2018

ALS SDG#: EV18110134

WDOE ACCREDITATION: C601

## LABORATORY BLANK RESULTS

### MB-112118W - Batch 134956 - Water by EPA-8260

| ANALYTE | METHOD | RESULTS | UNITS | REPORTING LIMITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Chloromethane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Vinyl Chloride | EPA-8260 | U | UG/L | 0.20 | 11/21/2018 | DLC |
| Bromomethane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Chloroethane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Carbon Disulfide | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Acetone | EPA-8260 | U | UG/L | 25 | 11/21/2018 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Methylene Chloride | EPA-8260 | U | UG/L | 5.0 | 11/21/2018 | DLC |
| Acrylonitrile | EPA-8260 | U | UG/L | 10 | 11/21/2018 | DLC |
| Methyl T-Butyl Ether | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 2-Butanone | EPA-8260 | U | UG/L | 10 | 11/21/2018 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Bromochloromethane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Chloroform | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Benzene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Trichloroethene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Dibromomethane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Bromodichloromethane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 4-Methyl-2-Pentanone | EPA-8260 | U | UG/L | 10 | 11/21/2018 | DLC |
| Toluene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 2-Hexanone | EPA-8260 | U | UG/L | 10 | 11/21/2018 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Tetrachloroethylene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Dibromochloromethane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | UG/L | 0.010 | 11/21/2018 | DLC |
| Chlorobenzene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

CLIENT: Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 12/5/2018
ALS SDG#: EV18110134
WDOE ACCREDITATION: C601

## LABORATORY BLANK RESULTS

### MB-112118W - Batch 134956 - Water by EPA-8260

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Ethylbenzene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| m,p-Xylene | EPA-8260 | U | UG/L | 4.0 | 11/21/2018 | DLC |
| Styrene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| o-Xylene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Bromoform | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Isopropylbenzene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Bromobenzene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| N-Propyl Benzene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 1,3,5-Trimethylbenzene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| T-Butyl Benzene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 1,2,4-Trimethylbenzene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| S-Butyl Benzene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| P-Isopropyltoluene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| N-Butylbenzene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | UG/L | 10 | 11/21/2018 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| Naphthalene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | UG/L | 2.0 | 11/21/2018 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.

### MBLK-328654 - Batch R328654 - Water by SM5310C

| ANALYTE | METHOD | RESULTS | UNITS | REPORTING LIMITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|
| Total Organic Carbon (TOC) | SM5310C | U | MG/L | 1.0 | 11/28/2018 | ALFT |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

CLIENT: Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 12/5/2018
ALS SDG#: EV18110134
WDOE ACCREDITATION: C601

## LABORATORY CONTROL SAMPLE RESULTS

### ALS Test Batch ID: 134956 - Water by EPA-8260

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane - BS | EPA-8260 | **118** | | | 50 | 150 | 11/21/2018 | DLC |
| Dichlorodifluoromethane - BSD | EPA-8260 | **97.9** | **19** | | 50 | 150 | 11/21/2018 | DLC |
| Chloromethane - BS | EPA-8260 | **108** | | | 50 | 150 | 11/21/2018 | DLC |
| Chloromethane - BSD | EPA-8260 | **97.4** | **11** | | 50 | 150 | 11/21/2018 | DLC |
| Vinyl Chloride - BS | EPA-8260 | **109** | | | 50 | 150 | 11/21/2018 | DLC |
| Vinyl Chloride - BSD | EPA-8260 | **95.5** | **13** | | 50 | 150 | 11/21/2018 | DLC |
| Bromomethane - BS | EPA-8260 | **181** | | SQ1 | 50 | 150 | 11/21/2018 | DLC |
| Bromomethane - BSD | EPA-8260 | **164** | **10** | SQ1 | 50 | 150 | 11/21/2018 | DLC |
| Chloroethane - BS | EPA-8260 | **114** | | | 50 | 150 | 11/21/2018 | DLC |
| Chloroethane - BSD | EPA-8260 | **101** | **12** | | 50 | 150 | 11/21/2018 | DLC |
| Carbon Tetrachloride - BS | EPA-8260 | **104** | | | 50 | 150 | 11/21/2018 | DLC |
| Carbon Tetrachloride - BSD | EPA-8260 | **92.1** | **12** | | 50 | 150 | 11/21/2018 | DLC |
| Trichlorofluoromethane - BS | EPA-8260 | **114** | | | 50 | 150 | 11/21/2018 | DLC |
| Trichlorofluoromethane - BSD | EPA-8260 | **101** | **12** | | 50 | 150 | 11/21/2018 | DLC |
| Carbon Disulfide - BS | EPA-8260 | **113** | | | 50 | 150 | 11/21/2018 | DLC |
| Carbon Disulfide - BSD | EPA-8260 | **99.4** | **13** | | 50 | 150 | 11/21/2018 | DLC |
| Acetone - BS | EPA-8260 | **166** | | SQ1 | 50 | 150 | 11/21/2018 | DLC |
| Acetone - BSD | EPA-8260 | **144** | **14** | | 50 | 150 | 11/21/2018 | DLC |
| 1,1-Dichloroethene - BS | EPA-8260 | **114** | | | 72.5 | 136 | 11/21/2018 | DLC |
| 1,1-Dichloroethene - BSD | EPA-8260 | **101** | **12** | | 72.5 | 136 | 11/21/2018 | DLC |
| Methylene Chloride - BS | EPA-8260 | **144** | | | 50 | 150 | 11/21/2018 | DLC |
| Methylene Chloride - BSD | EPA-8260 | **132** | **9** | | 50 | 150 | 11/21/2018 | DLC |
| Acrylonitrile - BS | EPA-8260 | **112** | | | 50 | 150 | 11/21/2018 | DLC |
| Acrylonitrile - BSD | EPA-8260 | **99.5** | **12** | | 50 | 150 | 11/21/2018 | DLC |
| Methyl T-Butyl Ether - BS | EPA-8260 | **107** | | | 50 | 150 | 11/21/2018 | DLC |
| Methyl T-Butyl Ether - BSD | EPA-8260 | **101** | **6** | | 50 | 150 | 11/21/2018 | DLC |
| Trans-1,2-Dichloroethene - BS | EPA-8260 | **116** | | | 50 | 150 | 11/21/2018 | DLC |
| Trans-1,2-Dichloroethene - BSD | EPA-8260 | **104** | **11** | | 50 | 150 | 11/21/2018 | DLC |
| 1,1-Dichloroethane - BS | EPA-8260 | **109** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,1-Dichloroethane - BSD | EPA-8260 | **98.5** | **10** | | 50 | 150 | 11/21/2018 | DLC |
| 2-Butanone - BS | EPA-8260 | **110** | | | 50 | 150 | 11/21/2018 | DLC |
| 2-Butanone - BSD | EPA-8260 | **99.6** | **10** | | 50 | 150 | 11/21/2018 | DLC |
| Cis-1,2-Dichloroethene - BS | EPA-8260 | **116** | | | 50 | 150 | 11/21/2018 | DLC |
| Cis-1,2-Dichloroethene - BSD | EPA-8260 | **105** | **10** | | 50 | 150 | 11/21/2018 | DLC |
| 2,2-Dichloropropane - BS | EPA-8260 | **118** | | | 50 | 150 | 11/21/2018 | DLC |
| 2,2-Dichloropropane - BSD | EPA-8260 | **103** | **14** | | 50 | 150 | 11/21/2018 | DLC |
| Bromochloromethane - BS | EPA-8260 | **105** | | | 50 | 150 | 11/21/2018 | DLC |
| Bromochloromethane - BSD | EPA-8260 | **97.2** | **7** | | 50 | 150 | 11/21/2018 | DLC |
| Chloroform - BS | EPA-8260 | **97.5** | | | 50 | 150 | 11/21/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

CLIENT: Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 12/5/2018
ALS SDG#: EV18110134
WDOE ACCREDITATION: C601

## LABORATORY CONTROL SAMPLE RESULTS

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| Chloroform - BSD | EPA-8260 | **88.5** | **10** | | 50 | 150 | 11/21/2018 | DLC |
| 1,1,1-Trichloroethane - BS | EPA-8260 | **110** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,1,1-Trichloroethane - BSD | EPA-8260 | **98.3** | **11** | | 50 | 150 | 11/21/2018 | DLC |
| 1,1-Dichloropropene - BS | EPA-8260 | **114** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,1-Dichloropropene - BSD | EPA-8260 | **101** | **12** | | 50 | 150 | 11/21/2018 | DLC |
| 1,2-Dichloroethane - BS | EPA-8260 | **88.8** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,2-Dichloroethane - BSD | EPA-8260 | **80.5** | **10** | | 50 | 150 | 11/21/2018 | DLC |
| Benzene - BS | EPA-8260 | **99.5** | | | 74.7 | 143 | 11/21/2018 | DLC |
| Benzene - BSD | EPA-8260 | **87.8** | **12** | | 74.7 | 143 | 11/21/2018 | DLC |
| Trichloroethene - BS | EPA-8260 | **101** | | | 74.4 | 141 | 11/21/2018 | DLC |
| Trichloroethene - BSD | EPA-8260 | **89.2** | **13** | | 74.4 | 141 | 11/21/2018 | DLC |
| 1,2-Dichloropropane - BS | EPA-8260 | **101** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,2-Dichloropropane - BSD | EPA-8260 | **90.6** | **11** | | 50 | 150 | 11/21/2018 | DLC |
| Dibromomethane - BS | EPA-8260 | **99.8** | | | 50 | 150 | 11/21/2018 | DLC |
| Dibromomethane - BSD | EPA-8260 | **91.1** | **9** | | 50 | 150 | 11/21/2018 | DLC |
| Bromodichloromethane - BS | EPA-8260 | **98.7** | | | 50 | 150 | 11/21/2018 | DLC |
| Bromodichloromethane - BSD | EPA-8260 | **88.5** | **11** | | 50 | 150 | 11/21/2018 | DLC |
| Trans-1,3-Dichloropropene - BS | EPA-8260 | **108** | | | 50 | 150 | 11/21/2018 | DLC |
| Trans-1,3-Dichloropropene - BSD | EPA-8260 | **99.2** | **9** | | 50 | 150 | 11/21/2018 | DLC |
| 4-Methyl-2-Pentanone - BS | EPA-8260 | **94.2** | | | 50 | 150 | 11/21/2018 | DLC |
| 4-Methyl-2-Pentanone - BSD | EPA-8260 | **89.2** | **5** | | 50 | 150 | 11/21/2018 | DLC |
| Toluene - BS | EPA-8260 | **104** | | | 71.7 | 139 | 11/21/2018 | DLC |
| Toluene - BSD | EPA-8260 | **91.1** | **13** | | 71.7 | 139 | 11/21/2018 | DLC |
| Cis-1,3-Dichloropropene - BS | EPA-8260 | **104** | | | 50 | 150 | 11/21/2018 | DLC |
| Cis-1,3-Dichloropropene - BSD | EPA-8260 | **93.2** | **11** | | 50 | 150 | 11/21/2018 | DLC |
| 1,1,2-Trichloroethane - BS | EPA-8260 | **106** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,1,2-Trichloroethane - BSD | EPA-8260 | **98.2** | **8** | | 50 | 150 | 11/21/2018 | DLC |
| 2-Hexanone - BS | EPA-8260 | **90.5** | | | 50 | 150 | 11/21/2018 | DLC |
| 2-Hexanone - BSD | EPA-8260 | **82.5** | **9** | | 50 | 150 | 11/21/2018 | DLC |
| 1,3-Dichloropropane - BS | EPA-8260 | **105** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,3-Dichloropropane - BSD | EPA-8260 | **96.9** | **8** | | 50 | 150 | 11/21/2018 | DLC |
| Tetrachloroethylene - BS | EPA-8260 | **91.4** | | | 50 | 150 | 11/21/2018 | DLC |
| Tetrachloroethylene - BSD | EPA-8260 | **81.7** | **11** | | 50 | 150 | 11/21/2018 | DLC |
| Dibromochloromethane - BS | EPA-8260 | **111** | | | 50 | 150 | 11/21/2018 | DLC |
| Dibromochloromethane - BSD | EPA-8260 | **102** | **9** | | 50 | 150 | 11/21/2018 | DLC |
| 1,2-Dibromoethane - BS | EPA-8260 | **117** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,2-Dibromoethane - BSD | EPA-8260 | **108** | **8** | | 50 | 150 | 11/21/2018 | DLC |
| Chlorobenzene - BS | EPA-8260 | **109** | | | 73 | 131 | 11/21/2018 | DLC |
| Chlorobenzene - BSD | EPA-8260 | **97.5** | **11** | | 73 | 131 | 11/21/2018 | DLC |
| 1,1,1,2-Tetrachloroethane - BS | EPA-8260 | **108** | | | 50 | 150 | 11/21/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

CLIENT: Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 12/5/2018
ALS SDG#: EV18110134
WDOE ACCREDITATION: C601

## LABORATORY CONTROL SAMPLE RESULTS

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane - BSD | EPA-8260 | **97.8** | **10** | | 50 | 150 | 11/21/2018 | DLC |
| Ethylbenzene - BS | EPA-8260 | **107** | | | 50 | 150 | 11/21/2018 | DLC |
| Ethylbenzene - BSD | EPA-8260 | **95.1** | **12** | | 50 | 150 | 11/21/2018 | DLC |
| m,p-Xylene - BS | EPA-8260 | **109** | | | 50 | 150 | 11/21/2018 | DLC |
| m,p-Xylene - BSD | EPA-8260 | **97.1** | **11** | | 50 | 150 | 11/21/2018 | DLC |
| Styrene - BS | EPA-8260 | **112** | | | 50 | 150 | 11/21/2018 | DLC |
| Styrene - BSD | EPA-8260 | **101** | **10** | | 50 | 150 | 11/21/2018 | DLC |
| o-Xylene - BS | EPA-8260 | **108** | | | 50 | 150 | 11/21/2018 | DLC |
| o-Xylene - BSD | EPA-8260 | **97.2** | **11** | | 50 | 150 | 11/21/2018 | DLC |
| Bromoform - BS | EPA-8260 | **112** | | | 50 | 150 | 11/21/2018 | DLC |
| Bromoform - BSD | EPA-8260 | **105** | **6** | | 50 | 150 | 11/21/2018 | DLC |
| Isopropylbenzene - BS | EPA-8260 | **109** | | | 50 | 150 | 11/21/2018 | DLC |
| Isopropylbenzene - BSD | EPA-8260 | **97.0** | **12** | | 50 | 150 | 11/21/2018 | DLC |
| 1,1,2,2-Tetrachloroethane - BS | EPA-8260 | **102** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,1,2,2-Tetrachloroethane - BSD | EPA-8260 | **95.1** | **7** | | 50 | 150 | 11/21/2018 | DLC |
| 1,2,3-Trichloropropane - BS | EPA-8260 | **99.0** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,2,3-Trichloropropane - BSD | EPA-8260 | **92.0** | **7** | | 50 | 150 | 11/21/2018 | DLC |
| Bromobenzene - BS | EPA-8260 | **102** | | | 50 | 150 | 11/21/2018 | DLC |
| Bromobenzene - BSD | EPA-8260 | **91.4** | **11** | | 50 | 150 | 11/21/2018 | DLC |
| N-Propyl Benzene - BS | EPA-8260 | **102** | | | 50 | 150 | 11/21/2018 | DLC |
| N-Propyl Benzene - BSD | EPA-8260 | **89.7** | **13** | | 50 | 150 | 11/21/2018 | DLC |
| 2-Chlorotoluene - BS | EPA-8260 | **98.5** | | | 50 | 150 | 11/21/2018 | DLC |
| 2-Chlorotoluene - BSD | EPA-8260 | **87.5** | **12** | | 50 | 150 | 11/21/2018 | DLC |
| 1,3,5-Trimethylbenzene - BS | EPA-8260 | **102** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,3,5-Trimethylbenzene - BSD | EPA-8260 | **90.1** | **12** | | 50 | 150 | 11/21/2018 | DLC |
| 4-Chlorotoluene - BS | EPA-8260 | **98.9** | | | 50 | 150 | 11/21/2018 | DLC |
| 4-Chlorotoluene - BSD | EPA-8260 | **87.9** | **12** | | 50 | 150 | 11/21/2018 | DLC |
| T-Butyl Benzene - BS | EPA-8260 | **103** | | | 50 | 150 | 11/21/2018 | DLC |
| T-Butyl Benzene - BSD | EPA-8260 | **91.8** | **12** | | 50 | 150 | 11/21/2018 | DLC |
| 1,2,4-Trimethylbenzene - BS | EPA-8260 | **99.5** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,2,4-Trimethylbenzene - BSD | EPA-8260 | **89.4** | **11** | | 50 | 150 | 11/21/2018 | DLC |
| S-Butyl Benzene - BS | EPA-8260 | **104** | | | 50 | 150 | 11/21/2018 | DLC |
| S-Butyl Benzene - BSD | EPA-8260 | **92.2** | **12** | | 50 | 150 | 11/21/2018 | DLC |
| P-Isopropyltoluene - BS | EPA-8260 | **103** | | | 50 | 150 | 11/21/2018 | DLC |
| P-Isopropyltoluene - BSD | EPA-8260 | **91.8** | **12** | | 50 | 150 | 11/21/2018 | DLC |
| 1,3-Dichlorobenzene - BS | EPA-8260 | **104** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,3-Dichlorobenzene - BSD | EPA-8260 | **93.3** | **11** | | 50 | 150 | 11/21/2018 | DLC |
| 1,4-Dichlorobenzene - BS | EPA-8260 | **103** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,4-Dichlorobenzene - BSD | EPA-8260 | **91.7** | **12** | | 50 | 150 | 11/21/2018 | DLC |
| N-Butylbenzene - BS | EPA-8260 | **101** | | | 50 | 150 | 11/21/2018 | DLC |



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## CERTIFICATE OF ANALYSIS

CLIENT: Environmental Partners, Inc.
1180 NW Maple St, Suite 310
Issaquah, WA 98027

CLIENT CONTACT: Sean Trimble
CLIENT PROJECT: 64001

DATE: 12/5/2018
ALS SDG#: EV18110134
WDOE ACCREDITATION: C601

## LABORATORY CONTROL SAMPLE RESULTS

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| N-Butylbenzene - BSD | EPA-8260 | **90.4** | **11** | | 50 | 150 | 11/21/2018 | DLC |
| 1,2-Dichlorobenzene - BS | EPA-8260 | **104** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,2-Dichlorobenzene - BSD | EPA-8260 | **93.6** | **10** | | 50 | 150 | 11/21/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane - BS | EPA-8260 | **99.9** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,2-Dibromo 3-Chloropropane - BSD | EPA-8260 | **93.4** | **7** | | 50 | 150 | 11/21/2018 | DLC |
| 1,2,4-Trichlorobenzene - BS | EPA-8260 | **91.8** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,2,4-Trichlorobenzene - BSD | EPA-8260 | **84.1** | **9** | | 50 | 150 | 11/21/2018 | DLC |
| Hexachlorobutadiene - BS | EPA-8260 | **114** | | | 50 | 150 | 11/21/2018 | DLC |
| Hexachlorobutadiene - BSD | EPA-8260 | **101** | **12** | | 50 | 150 | 11/21/2018 | DLC |
| Naphthalene - BS | EPA-8260 | **91.8** | | | 50 | 150 | 11/21/2018 | DLC |
| Naphthalene - BSD | EPA-8260 | **86.8** | **6** | | 50 | 150 | 11/21/2018 | DLC |
| 1,2,3-Trichlorobenzene - BS | EPA-8260 | **91.8** | | | 50 | 150 | 11/21/2018 | DLC |
| 1,2,3-Trichlorobenzene - BSD | EPA-8260 | **84.1** | **9** | | 50 | 150 | 11/21/2018 | DLC |

SQ1 - Spike outside of control limits with a high bias. Associated compounds non-detect. No corrective action taken.

### ALS Test Batch ID: R328654 - Water by SM5310C

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon (TOC) - BS | SM5310C | **100** | | | 85 | 115 | 11/28/2018 | ALFT |
| Total Organic Carbon (TOC) - BSD | SM5310C | **101** | **1** | | 85 | 115 | 11/28/2018 | ALFT |

APPROVED BY

Laboratory Director



ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

Environmental www.alsglobal.com
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http://www.alsglobal.com

# Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): EV18110134

Date 11/21/18 Page 1 Of 1

| | |
|---|---|
| PROJECT ID: | 64001 |
| REPORT TO COMPANY: | Environmental Partners Inc. |
| PROJECT MANAGER: | Sean Trimble |
| ADDRESS: | 1180 NW Maple St. Suite 310 |
| | Issaquah WA 98027 |
| PHONE: | 425-395-0010 P.O. #: |
| E-MAIL: | sean.t@epi-wa.com |
| INVOICE TO COMPANY: | Environmental Partners Inc. |
| ATTENTION: | Sean Trimble |
| ADDRESS: | 1180 NW Maple St. Suite 310 |
| | Issaquah WA 98027 |

| SAMPLE I.D. | DATE | TIME | TYPE | LAB# | NWTPH-HCID | NWTPH-DX | NWTPH-GX | BTEX by EPA 8021 ☐ BTEX by EPA 8260 ☐ | MTBE by EPA 8021 ☐ MTBE by EPA 8260 ☐ | Halogenated Volatiles by EPA 8260 | Volatile Organic Compounds by EPA 8260 | EDB / EDC by EPA 8260 SIM (water) | EDB / EDC by EPA 8260 (soil) | Semivolatile Organic Compounds by EPA 8270 | Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM | PCB by EPA 8082 ☐ Pesticides by EPA 8081 ☐ | Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐ | Metals Other (Specify) | TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐ | OTHER (Specify): TOC | NUMBER OF CONTAINERS | RECEIVED IN GOOD CONDITION? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. MW-24S | 11/21/18 | 1025 | Water | 1 | | | | | | | X | | | | | | | | | | 3 | |
| 2. MW-16 | 11/21/18 | 1015 | water | 2 | | | | | | | | | | | | | | | X | | 1 | |
| 3. MW-1 | 11/21/18 | 1100 | Water | 3 | | | | | | | | | | | | | | | X | | 1 | |
| 4. | | | | | | | | | | | | | | | | | | | | | | |
| 5. | | | | | | | | | | | | | | | | | | | | | | |
| 6. | | | | | | | | | | | | | | | | | | | | | | |
| 7. | | | | | | | | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | | | | | | | |

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Wesley Weisberg, epi 11/21/18 1200
   Received By: Ken Tang ALS 11/21/18 12:00
2. Relinquished By: _____
   Received By: _____

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: [10] Standard ✓ | 5 | 3 | 2 | 1 | SAME DAY

Fuels & Hydrocarbon Analysis: [5] Standard ✓ | 3 | 1 | SAME DAY

OTHER: Specify: _____

*Turnaround request less than standard may incur Rush Charges

# Attachment B
# Laboratory Analytical Reports for System Vapors

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

**Environmental Partners, Inc.**
Sean Trimble
1180 NW Maple Street, Suite 310
Issaquah, WA 98027

**RE: WA Industries**
**Work Order Number: 1804392**

May 02, 2018

**Attention Sean Trimble:**

Fremont Analytical, Inc. received 1 sample(s) on 4/25/2018 for the analyses presented in the following report.

***Volatile Organic Compounds by EPA Method 8260C***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director

**Date:** *05/02/2018*

**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries
**Work Order:** 1804392

# Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---|---|---|---|
| 1804392-001 | AIR-EFF | 04/25/2018 10:00 AM | 04/25/2018 1:44 PM |

# Case Narrative

WO#: **1804392**
Date: **5/2/2018**

**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

WorkOrder Narrative:
I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

**Client:** Environmental Partners, Inc.
**Collection Date:** 4/25/2018 10:00:00 AM
**Project:** WA Industries
**Lab ID:** 1804392-001
**Matrix:** Air
**Client Sample ID:** **AIR-EFF**

## Volatile Organic Compounds by EPA Method 8260C

Batch ID: 20526 Analyst: MW

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| Chloromethane | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| Vinyl chloride | ND | 0.0200 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| Bromomethane | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| Chloroethane | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| 1,1-Dichloroethene | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| Methylene chloride | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| trans-1,2-Dichloroethene | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| 1,1-Dichloroethane | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| 2,2-Dichloropropane | ND | 0.200 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| cis-1,2-Dichloroethene | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| Chloroform | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| 1,1-Dichloropropene | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| Carbon tetrachloride | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| Benzene | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| Trichloroethene (TCE) | 2.30 | 0.0500 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| 1,2-Dichloropropane | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| Bromodichloromethane | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| Dibromomethane | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| cis-1,3-Dichloropropene | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| Toluene | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| trans-1,3-Dichloropropylene | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| 1,1,2-Trichloroethane | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| 1,3-Dichloropropane | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| Tetrachloroethene (PCE) | 0.185 | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| Dibromochloromethane | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| Chlorobenzene | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| Ethylbenzene | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| m,p-Xylene | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| o-Xylene | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| Styrene | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| Isopropylbenzene | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| Bromoform | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |

# Analytical Report

Work Order: **1804392**
Date Reported: **5/2/2018**

**Client:** Environmental Partners, Inc.
**Collection Date:** 4/25/2018 10:00:00 AM
**Project:** WA Industries
**Lab ID:** 1804392-001
**Matrix:** Air
**Client Sample ID:** **AIR-EFF**

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA Method 8260C** | | | | Batch ID: 20526 | | Analyst: MW |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| n-Propylbenzene | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| Bromobenzene | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| 2-Chlorotoluene | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| 4-Chlorotoluene | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| tert-Butylbenzene | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| 1,2,3-Trichloropropane | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| sec-Butylbenzene | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| 4-Isopropyltoluene | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| 1,3-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| 1,4-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| n-Butylbenzene | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| 1,2-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| Hexachlorobutadiene | ND | 0.400 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| Naphthalene | ND | 0.100 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | µg/L | 1 | 4/27/2018 3:01:39 PM |
| Surr: Dibromofluoromethane | 92.8 | 56.4 - 141 | | %Rec | 1 | 4/27/2018 3:01:39 PM |
| Surr: Toluene-d8 | 101 | 66 - 138 | | %Rec | 1 | 4/27/2018 3:01:39 PM |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 102 | 64.7 - 128 | | %Rec | 1 | 4/27/2018 3:01:39 PM |

**Work Order:** 1804392
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1804391-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **4/27/2018** RunNo: **43177**
Client ID: **BATCH** Batch ID: **20526** Analysis Date: **4/27/2018** SeqNo: **834563**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Vinyl chloride | ND | 0.0200 | | | | | | 0 | | 30 | |
| Bromomethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Methylene chloride | ND | 0.100 | | | | | | 0 | | 30 | |
| trans-1,2-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 2,2-Dichloropropane | ND | 0.200 | | | | | | 0 | | 30 | |
| cis-1,2-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloroform | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloropropene | ND | 0.100 | | | | | | 0 | | 30 | |
| Carbon tetrachloride | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | | | | | 0 | | 30 | |
| Benzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Trichloroethene (TCE) | 1.17 | 0.0500 | | | | | | 1.059 | 9.79 | 30 | |
| 1,2-Dichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromodichloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Dibromomethane | ND | 0.100 | | | | | | 0 | | 30 | |
| cis-1,3-Dichloropropene | ND | 0.100 | | | | | | 0 | | 30 | |
| Toluene | ND | 0.100 | | | | | | 0 | | 30 | |
| trans-1,3-Dichloropropylene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,2-Trichloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3-Dichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| Tetrachloroethene (PCE) | ND | 0.100 | | | | | | 0 | | 30 | |
| Dibromochloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | | | | | 0 | | 30 | |

**Work Order:** 1804392
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1804391-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **4/27/2018** RunNo: **43177**
Client ID: **BATCH** Batch ID: **20526** Analysis Date: **4/27/2018** SeqNo: **834563**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Ethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| m,p-Xylene | ND | 0.100 | | | | | | 0 | | 30 | |
| o-Xylene | ND | 0.100 | | | | | | 0 | | 30 | |
| Styrene | ND | 0.100 | | | | | | 0 | | 30 | |
| Isopropylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromoform | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| n-Propylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 2-Chlorotoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| 4-Chlorotoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| tert-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,3-Trichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | | | | | 0 | | 30 | |
| sec-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 4-Isopropyltoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,4-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| n-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Hexachlorobutadiene | ND | 0.400 | | | | | | 0 | | 30 | |
| Naphthalene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | | | | | 0 | | 30 | |
| Surr: Dibromofluoromethane | 2.69 | | 2.500 | | 108 | 61.1 | 128 | | 0 | | |
| Surr: Toluene-d8 | 2.55 | | 2.500 | | 102 | 68.2 | 129 | | 0 | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.51 | | 2.500 | | 100 | 64.7 | 128 | | 0 | | |

**Work Order:** 1804392
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1804391-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **4/27/2018** RunNo: **43177**
Client ID: **BATCH** Batch ID: **20526** Analysis Date: **4/27/2018** SeqNo: **834563**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|

Sample ID **LCS-20526** SampType: **LCS** Units: **µg/L** Prep Date: **4/27/2018** RunNo: **43177**
Client ID: **LCSW** Batch ID: **20526** Analysis Date: **4/27/2018** SeqNo: **834580**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 3.12 | 0.100 | 2.000 | 0 | 156 | 38.8 | 143 | | | | S |
| Chloromethane | 2.08 | 0.100 | 2.000 | 0 | 104 | 42.5 | 131 | | | | |
| Vinyl chloride | 2.37 | 0.0200 | 2.000 | 0 | 118 | 56.2 | 130 | | | | |
| Bromomethane | 2.15 | 0.100 | 2.000 | 0 | 108 | 45.4 | 138 | | | | |
| Trichlorofluoromethane (CFC-11) | 2.24 | 0.100 | 2.000 | 0 | 112 | 64.7 | 129 | | | | |
| Chloroethane | 2.41 | 0.100 | 2.000 | 0 | 121 | 62.5 | 123 | | | | |
| 1,1-Dichloroethene | 2.18 | 0.100 | 2.000 | 0 | 109 | 60.7 | 146 | | | | |
| Methylene chloride | 2.09 | 0.100 | 2.000 | 0 | 104 | 60.3 | 135 | | | | |
| trans-1,2-Dichloroethene | 2.13 | 0.100 | 2.000 | 0 | 107 | 71.3 | 129 | | | | |
| Methyl tert-butyl ether (MTBE) | 2.15 | 0.100 | 2.000 | 0 | 108 | 59.3 | 138 | | | | |
| 1,1-Dichloroethane | 2.25 | 0.100 | 2.000 | 0 | 112 | 71.3 | 129 | | | | |
| 2,2-Dichloropropane | 2.12 | 0.200 | 2.000 | 0 | 106 | 37.8 | 132 | | | | |
| cis-1,2-Dichloroethene | 2.11 | 0.100 | 2.000 | 0 | 105 | 67.5 | 127 | | | | |
| Chloroform | 2.11 | 0.100 | 2.000 | 0 | 106 | 70.3 | 123 | | | | |
| 1,1,1-Trichloroethane (TCA) | 2.10 | 0.100 | 2.000 | 0 | 105 | 67.9 | 134 | | | | |
| 1,1-Dichloropropene | 2.15 | 0.100 | 2.000 | 0 | 107 | 72.1 | 133 | | | | |
| Carbon tetrachloride | 2.04 | 0.100 | 2.000 | 0 | 102 | 64.4 | 133 | | | | |
| 1,2-Dichloroethane (EDC) | 2.10 | 0.100 | 2.000 | 0 | 105 | 65.8 | 126 | | | | |
| Benzene | 2.15 | 0.100 | 2.000 | 0 | 107 | 67.1 | 132 | | | | |
| Trichloroethene (TCE) | 2.07 | 0.0500 | 2.000 | 0 | 103 | 71.9 | 130 | | | | |
| 1,2-Dichloropropane | 2.06 | 0.100 | 2.000 | 0 | 103 | 71.9 | 131 | | | | |
| Bromodichloromethane | 1.96 | 0.100 | 2.000 | 0 | 98.2 | 70 | 130 | | | | |
| Dibromomethane | 2.11 | 0.100 | 2.000 | 0 | 105 | 74.2 | 125 | | | | |
| cis-1,3-Dichloropropene | 1.97 | 0.100 | 2.000 | 0 | 98.4 | 62.8 | 135 | | | | |
| Toluene | 2.10 | 0.100 | 2.000 | 0 | 105 | 73.6 | 127 | | | | |

**Work Order:** 1804392
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-20526** SampType: **LCS** Units: **µg/L** Prep Date: **4/27/2018** RunNo: **43177**
Client ID: **LCSW** Batch ID: **20526** Analysis Date: **4/27/2018** SeqNo: **834580**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropylene | 1.97 | 0.100 | 2.000 | 0 | 98.4 | 58.1 | 138 | | | | |
| 1,1,2-Trichloroethane | 2.09 | 0.100 | 2.000 | 0 | 105 | 65.4 | 128 | | | | |
| 1,3-Dichloropropane | 2.02 | 0.100 | 2.000 | 0 | 101 | 71.9 | 131 | | | | |
| Tetrachloroethene (PCE) | 2.11 | 0.100 | 2.000 | 0 | 105 | 52.4 | 140 | | | | |
| Dibromochloromethane | 1.96 | 0.100 | 2.000 | 0 | 98.2 | 68.7 | 139 | | | | |
| 1,2-Dibromoethane (EDB) | 2.07 | 0.0250 | 2.000 | 0 | 104 | 71.2 | 129 | | | | |
| Chlorobenzene | 2.06 | 0.100 | 2.000 | 0 | 103 | 77.2 | 122 | | | | |
| 1,1,1,2-Tetrachloroethane | 2.05 | 0.100 | 2.000 | 0 | 102 | 76.2 | 130 | | | | |
| Ethylbenzene | 2.08 | 0.100 | 2.000 | 0 | 104 | 78 | 127 | | | | |
| m,p-Xylene | 4.17 | 0.100 | 4.000 | 0 | 104 | 77.5 | 130 | | | | |
| o-Xylene | 2.09 | 0.100 | 2.000 | 0 | 104 | 77.6 | 126 | | | | |
| Styrene | 2.04 | 0.100 | 2.000 | 0 | 102 | 66.8 | 137 | | | | |
| Isopropylbenzene | 2.10 | 0.100 | 2.000 | 0 | 105 | 75.9 | 133 | | | | |
| Bromoform | 1.65 | 0.100 | 2.000 | 0 | 82.5 | 54.1 | 146 | | | | |
| 1,1,2,2-Tetrachloroethane | 2.03 | 0.100 | 2.000 | 0 | 102 | 68 | 134 | | | | |
| n-Propylbenzene | 2.08 | 0.100 | 2.000 | 0 | 104 | 77.1 | 133 | | | | |
| Bromobenzene | 2.00 | 0.100 | 2.000 | 0 | 99.8 | 71.1 | 131 | | | | |
| 1,3,5-Trimethylbenzene | 2.05 | 0.100 | 2.000 | 0 | 103 | 76.2 | 133 | | | | |
| 2-Chlorotoluene | 2.17 | 0.100 | 2.000 | 0 | 109 | 67.1 | 137 | | | | |
| 4-Chlorotoluene | 2.15 | 0.100 | 2.000 | 0 | 107 | 70.7 | 132 | | | | |
| tert-Butylbenzene | 1.99 | 0.100 | 2.000 | 0 | 99.6 | 71.3 | 139 | | | | |
| 1,2,3-Trichloropropane | 1.91 | 0.100 | 2.000 | 0 | 95.5 | 70.8 | 132 | | | | |
| 1,2,4-Trichlorobenzene | 2.16 | 0.200 | 2.000 | 0 | 108 | 61.4 | 139 | | | | |
| sec-Butylbenzene | 2.05 | 0.100 | 2.000 | 0 | 102 | 77.4 | 136 | | | | |
| 4-Isopropyltoluene | 2.03 | 0.100 | 2.000 | 0 | 101 | 78.1 | 131 | | | | |
| 1,3-Dichlorobenzene | 2.03 | 0.100 | 2.000 | 0 | 101 | 73.5 | 125 | | | | |
| 1,4-Dichlorobenzene | 2.04 | 0.100 | 2.000 | 0 | 102 | 71.4 | 125 | | | | |
| n-Butylbenzene | 2.14 | 0.100 | 2.000 | 0 | 107 | 69.8 | 138 | | | | |
| 1,2-Dichlorobenzene | 2.08 | 0.100 | 2.000 | 0 | 104 | 74.2 | 123 | | | | |
| 1,2-Dibromo-3-chloropropane | 1.99 | 0.100 | 2.000 | 0 | 99.6 | 53.6 | 155 | | | | |
| 1,2,4-Trimethylbenzene | 2.00 | 0.100 | 2.000 | 0 | 100 | 72.3 | 133 | | | | |

**Work Order:** 1804392
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-20526** SampType: **LCS** Units: **µg/L** Prep Date: **4/27/2018** RunNo: **43177**
Client ID: **LCSW** Batch ID: **20526** Analysis Date: **4/27/2018** SeqNo: **834580**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | 2.19 | 0.400 | 2.000 | 0 | 109 | 60.9 | 141 | | | | |
| Naphthalene | 2.16 | 0.100 | 2.000 | 0 | 108 | 58.2 | 140 | | | | |
| 1,2,3-Trichlorobenzene | 2.19 | 0.400 | 2.000 | 0 | 110 | 61.3 | 133 | | | | |
| Surr: Dibromofluoromethane | 2.77 | | 2.500 | | 111 | 56.4 | 141 | | | | |
| Surr: Toluene-d8 | 2.54 | | 2.500 | | 102 | 66 | 138 | | | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.58 | | 2.500 | | 103 | 64.7 | 128 | | | | |

**NOTES:**
S - Outlying spike recovery observed (high bias). Samples are non-detect for this analyte; no further action required.

Sample ID **MB-20526** SampType: **MBLK** Units: **µg/L** Prep Date: **4/27/2018** RunNo: **43177**
Client ID: **MBLKW** Batch ID: **20526** Analysis Date: **4/28/2018** SeqNo: **834581**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | | | | | | | | |
| Chloromethane | ND | 0.100 | | | | | | | | | |
| Vinyl chloride | ND | 0.0200 | | | | | | | | | |
| Bromomethane | ND | 0.100 | | | | | | | | | |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | | | | | | | | |
| Chloroethane | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Methylene chloride | ND | 0.100 | | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.100 | | | | | | | | | |
| 2,2-Dichloropropane | ND | 0.200 | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Chloroform | ND | 0.100 | | | | | | | | | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.100 | | | | | | | | | |
| Carbon tetrachloride | ND | 0.100 | | | | | | | | | |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | | | | | | | | |

**Work Order:** 1804392
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **MB-20526** SampType: **MBLK** Units: **µg/L** Prep Date: **4/27/2018** RunNo: **43177**
Client ID: **MBLKW** Batch ID: **20526** Analysis Date: **4/28/2018** SeqNo: **834581**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | 0.100 | | | | | | | | | |
| Trichloroethene (TCE) | ND | 0.0500 | | | | | | | | | |
| 1,2-Dichloropropane | ND | 0.100 | | | | | | | | | |
| Bromodichloromethane | ND | 0.100 | | | | | | | | | |
| Dibromomethane | ND | 0.100 | | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.100 | | | | | | | | | |
| Toluene | ND | 0.100 | | | | | | | | | |
| trans-1,3-Dichloropropylene | ND | 0.100 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.100 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 0.100 | | | | | | | | | |
| Tetrachloroethene (PCE) | ND | 0.100 | | | | | | | | | |
| Dibromochloromethane | ND | 0.100 | | | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | | | | | | | | |
| Chlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | | | | | | | | |
| Ethylbenzene | ND | 0.100 | | | | | | | | | |
| m,p-Xylene | ND | 0.100 | | | | | | | | | |
| o-Xylene | ND | 0.100 | | | | | | | | | |
| Styrene | ND | 0.100 | | | | | | | | | |
| Isopropylbenzene | ND | 0.100 | | | | | | | | | |
| Bromoform | ND | 0.100 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | | | | | | | | |
| n-Propylbenzene | ND | 0.100 | | | | | | | | | |
| Bromobenzene | ND | 0.100 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | | | | | | | | |
| 2-Chlorotoluene | ND | 0.100 | | | | | | | | | |
| 4-Chlorotoluene | ND | 0.100 | | | | | | | | | |
| tert-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.100 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | | | | | | | | |
| sec-Butylbenzene | ND | 0.100 | | | | | | | | | |

**Work Order:** 1804392
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **MB-20526** SampType: **MBLK** Units: **µg/L** Prep Date: **4/27/2018** RunNo: **43177**
Client ID: **MBLKW** Batch ID: **20526** Analysis Date: **4/28/2018** SeqNo: **834581**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-Isopropyltoluene | ND | 0.100 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| n-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | | | | | | | | |
| Hexachlorobutadiene | ND | 0.400 | | | | | | | | | |
| Naphthalene | ND | 0.100 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | | | | | | | | |
| Surr: Dibromofluoromethane | 2.66 | | 2.500 | | 106 | 56.4 | 141 | | | | |
| Surr: Toluene-d8 | 2.51 | | 2.500 | | 100 | 66 | 138 | | | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.49 | | 2.500 | | 99.6 | 64.7 | 128 | | | | |

# Sample Log-In Check List

| | | | |
|---|---|---|---|
| Client Name: | **EPI** | Work Order Number: | **1804392** |
| Logged by: | **Brianna Barnes** | Date Received: | **4/25/2018 1:44:00 PM** |

## *Chain of Custody*

| | | | | | | |
|---|---|---|---|---|---|---|
| 1. | Is Chain of Custody complete? | Yes | ☑ | No ☐ | Not Present | ☐ |
| 2. | How was the sample delivered? | Client | | | | |

## *Log In*

| | | | | | | |
|---|---|---|---|---|---|---|
| 3. | Coolers are present? | Yes | ☐ | No ☑ | NA | ☐ |
| | | **Air Sample.** | | | | |
| 4. | Shipping container/cooler in good condition? | Yes | ☑ | No ☐ | | |
| 5. | Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact) | Yes | ☐ | No ☐ | Not Required | ☑ |
| 6. | Was an attempt made to cool the samples? | Yes | ☐ | No ☐ | NA | ☑ |
| 7. | Were all items received at a temperature of >0°C to 10.0°C* | Yes | ☐ | No ☐ | NA | ☑ |
| 8. | Sample(s) in proper container(s)? | Yes | ☑ | No ☐ | | |
| 9. | Sufficient sample volume for indicated test(s)? | Yes | ☑ | No ☐ | | |
| 10. | Are samples properly preserved? | Yes | ☑ | No ☐ | | |
| 11. | Was preservative added to bottles? | Yes | ☐ | No ☑ | NA | ☐ |
| 12. | Is there headspace in the VOA vials? | Yes | ☐ | No ☐ | NA | ☑ |
| 13. | Did all samples containers arrive in good condition(unbroken)? | Yes | ☑ | No ☐ | | |
| 14. | Does paperwork match bottle labels? | Yes | ☑ | No ☐ | | |
| 15. | Are matrices correctly identified on Chain of Custody? | Yes | ☑ | No ☐ | | |
| 16. | Is it clear what analyses were requested? | Yes | ☑ | No ☐ | | |
| 17. | Were all holding times able to be met? | Yes | ☑ | No ☐ | | |

## *Special Handling (if applicable)*

| | | | | | | |
|---|---|---|---|---|---|---|
| 18. | Was client notified of all discrepancies with this order? | Yes | ☐ | No ☐ | NA | ☑ |

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

19. Additional remarks:

**Item Information**

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

# Air Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Laboratory Project No (Internal): 1904392

Special Remarks: Provide EPD Table

Date: 4/25/18 Page: 1 of: 1

Project Name: WA Industries

Project No: 6400.4

Location: 825 S. Dakota St. Seattle, WA

Collected by: J. Sherrod

Reports to (PM): Sean Trimble

Email (PM): seant@epi-wa.com

Client: EPI

Address: 1180 NW Maple St.

City, State, Zip: Issaquah, WA 98027

Telephone: 425-395-0010

Fax:

| | Sample Name | Canister / Flow Reg Serial # | Sample Date & Time | Sample Type (Matrix) * | Container Type ** | Sample Volume | Fill Time | Flow Rate | Internal: Initial Evacuation Pressure (mtorr) | Internal: Field Initial Sample Pressure (" Hg) | Internal: Field Final Sample Pressure (" Hg) | Analysis Requested | Internal: Receipt Date | Internal: Final Pressure ("Hg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | AIR-EFF | Canister / Flow Reg | 4/25/18 Date / 1000 Time | S | TB | 1L | .5 Min | | Pressure / Date | Pressure / Time | Pressure / Time | VOCs by 8260c | | |
| 2 | | Canister / Flow Reg | Date / Time | | | | | | Pressure / Date | Pressure / Time | Pressure / Time | | | |
| 3 | | Canister / Flow Reg | Date / Time | | | | | | Pressure / Date | Pressure / Time | Pressure / Time | | | |
| 4 | | Canister / Flow Reg | Date / Time | | | | | | Pressure / Date | Pressure / Time | Pressure / Time | | | |
| 5 | | Canister / Flow Reg | Date / Time | | | | | | Pressure / Date | Pressure / Time | Pressure / Time | | | |

* Matrix Codes: AA = Ambient Air IA = Indoor Air L = Landfill S = Subslab / Soil Gas

** Container Codes: BV = 1 Liter Bottle Vac CAN = Canister CYL = High Pressure Cylinder F = Filter S = Sorbent Tube TB = Tedlar Bag

**I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.**

| Relinquished | Date/Time | Received | Date/Time |
|---|---|---|---|
| x | 4/25/18 / 1344 | x | 4/25/18 1344 |
| Relinquished | Date/Time | Received | Date/Time |
| x | | x | |

Turn-Around Time:

- [x] Standard
- [ ] 3 Day
- [ ] 2 Day
- [ ] Next Day
- Same Day _____ (specify)

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

**Environmental Partners, Inc.**
Sean Trimble
1180 NW Maple Street, Suite 310
Issaquah, WA 98027

**RE: WA Industries**
**Work Order Number: 1806069**

June 14, 2018

**Attention Sean Trimble:**

Fremont Analytical, Inc. received 1 sample(s) on 6/8/2018 for the analyses presented in the following report.

***Volatile Organic Compounds by EPA Method 8260C***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director

**CC:**
Joe Sherrod

**Date:** *06/14/2018*

**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries
**Work Order:** 1806069

# Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---|---|---|---|
| 1806069-001 | AIR-EFF | 06/08/2018 7:15 AM | 06/08/2018 8:02 AM |

# Case Narrative

WO#: **1806069**
Date: **6/14/2018**

**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

WorkOrder Narrative:
I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

**Client:** Environmental Partners, Inc. **Collection Date:** 6/8/2018 7:15:00 AM
**Project:** WA Industries
**Lab ID:** 1806069-001 **Matrix:** Air
**Client Sample ID: AIR-EFF**

## Volatile Organic Compounds by EPA Method 8260C

Batch ID: 20918 Analyst: MW

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | Q | µg/L | 1 | 6/8/2018 1:08:23 PM |
| Chloromethane | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| Vinyl chloride | ND | 0.0200 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| Bromomethane | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| Chloroethane | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| 1,1-Dichloroethene | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| Methylene chloride | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| trans-1,2-Dichloroethene | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| 1,1-Dichloroethane | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| 2,2-Dichloropropane | ND | 0.200 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| cis-1,2-Dichloroethene | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| Chloroform | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| 1,1-Dichloropropene | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| Carbon tetrachloride | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| Benzene | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| Trichloroethene (TCE) | 2.98 | 0.0500 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| 1,2-Dichloropropane | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| Bromodichloromethane | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| Dibromomethane | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| cis-1,3-Dichloropropene | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| Toluene | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| trans-1,3-Dichloropropylene | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| 1,1,2-Trichloroethane | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| 1,3-Dichloropropane | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| Tetrachloroethene (PCE) | 0.123 | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| Dibromochloromethane | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| Chlorobenzene | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| Ethylbenzene | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| m,p-Xylene | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| o-Xylene | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| Styrene | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| Isopropylbenzene | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| Bromoform | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |

# Analytical Report

Work Order: **1806069**
Date Reported: **6/14/2018**

**Client:** Environmental Partners, Inc.
**Collection Date:** 6/8/2018 7:15:00 AM
**Project:** WA Industries
**Lab ID:** 1806069-001
**Matrix:** Air
**Client Sample ID:** **AIR-EFF**

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA Method 8260C** | | | | Batch ID: 20918 | | Analyst: MW |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| n-Propylbenzene | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| Bromobenzene | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| 2-Chlorotoluene | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| 4-Chlorotoluene | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| tert-Butylbenzene | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| 1,2,3-Trichloropropane | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| sec-Butylbenzene | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| 4-Isopropyltoluene | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| 1,3-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| 1,4-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| n-Butylbenzene | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| 1,2-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| Hexachlorobutadiene | ND | 0.400 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| Naphthalene | ND | 0.100 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | µg/L | 1 | 6/8/2018 1:08:23 PM |
| Surr: Dibromofluoromethane | 101 | 56.4 - 141 | | %Rec | 1 | 6/8/2018 1:08:23 PM |
| Surr: Toluene-d8 | 99.0 | 66 - 138 | | %Rec | 1 | 6/8/2018 1:08:23 PM |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 98.3 | 64.7 - 128 | | %Rec | 1 | 6/8/2018 1:08:23 PM |

**NOTES:**
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift)

**Work Order:** 1806069
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **MB-20918** SampType: **MBLK** Units: **µg/L** Prep Date: **6/8/2018** RunNo: **43990**
Client ID: **MBLKW** Batch ID: **20918** Analysis Date: **6/8/2018** SeqNo: **851325**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | | | | | | | | Q |
| Chloromethane | ND | 0.100 | | | | | | | | | |
| Vinyl chloride | ND | 0.0200 | | | | | | | | | |
| Bromomethane | ND | 0.100 | | | | | | | | | |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | | | | | | | | |
| Chloroethane | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Methylene chloride | ND | 0.100 | | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.100 | | | | | | | | | |
| 2,2-Dichloropropane | ND | 0.200 | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Chloroform | ND | 0.100 | | | | | | | | | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.100 | | | | | | | | | |
| Carbon tetrachloride | ND | 0.100 | | | | | | | | | |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | | | | | | | | |
| Benzene | ND | 0.100 | | | | | | | | | |
| Trichloroethene (TCE) | ND | 0.0500 | | | | | | | | | |
| 1,2-Dichloropropane | ND | 0.100 | | | | | | | | | |
| Bromodichloromethane | ND | 0.100 | | | | | | | | | |
| Dibromomethane | ND | 0.100 | | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.100 | | | | | | | | | |
| Toluene | ND | 0.100 | | | | | | | | | |
| trans-1,3-Dichloropropylene | ND | 0.100 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.100 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 0.100 | | | | | | | | | |
| Tetrachloroethene (PCE) | ND | 0.100 | | | | | | | | | |
| Dibromochloromethane | ND | 0.100 | | | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | | | | | | | | |

**Work Order:** 1806069
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **MB-20918** SampType: **MBLK** Units: **µg/L** Prep Date: **6/8/2018** RunNo: **43990**
Client ID: **MBLKW** Batch ID: **20918** Analysis Date: **6/8/2018** SeqNo: **851325**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | | | | | | | | |
| Ethylbenzene | ND | 0.100 | | | | | | | | | |
| m,p-Xylene | ND | 0.100 | | | | | | | | | |
| o-Xylene | ND | 0.100 | | | | | | | | | |
| Styrene | ND | 0.100 | | | | | | | | | |
| Isopropylbenzene | ND | 0.100 | | | | | | | | | |
| Bromoform | ND | 0.100 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | | | | | | | | |
| n-Propylbenzene | ND | 0.100 | | | | | | | | | |
| Bromobenzene | ND | 0.100 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | | | | | | | | |
| 2-Chlorotoluene | ND | 0.100 | | | | | | | | | |
| 4-Chlorotoluene | ND | 0.100 | | | | | | | | | |
| tert-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.100 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | | | | | | | | |
| sec-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 4-Isopropyltoluene | ND | 0.100 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| n-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | | | | | | | | |
| Hexachlorobutadiene | ND | 0.400 | | | | | | | | | |
| Naphthalene | ND | 0.100 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | | | | | | | | |
| Surr: Dibromofluoromethane | 2.42 | | 2.500 | | 96.8 | 56.4 | 141 | | | | |
| Surr: Toluene-d8 | 2.47 | | 2.500 | | 98.6 | 66 | 138 | | | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.51 | | 2.500 | | 100 | 64.7 | 128 | | | | |

**Work Order:** 1806069
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **MB-20918** SampType: **MBLK** Units: **µg/L** Prep Date: **6/8/2018** RunNo: **43990**
Client ID: **MBLKW** Batch ID: **20918** Analysis Date: **6/8/2018** SeqNo: **851325**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|

**NOTES:**
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift)

Sample ID **1806068-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **6/8/2018** RunNo: **43990**
Client ID: **BATCH** Batch ID: **20918** Analysis Date: **6/8/2018** SeqNo: **851320**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | | | | | 0 | | 30 | Q |
| Chloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Vinyl chloride | ND | 0.0200 | | | | | | 0 | | 30 | |
| Bromomethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Methylene chloride | ND | 0.100 | | | | | | 0 | | 30 | |
| trans-1,2-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 2,2-Dichloropropane | ND | 0.200 | | | | | | 0 | | 30 | |
| cis-1,2-Dichloroethene | 0.233 | 0.100 | | | | | | 0.2136 | 8.69 | 30 | |
| Chloroform | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloropropene | ND | 0.100 | | | | | | 0 | | 30 | |
| Carbon tetrachloride | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | | | | | 0 | | 30 | |
| Benzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Trichloroethene (TCE) | 2.66 | 0.0500 | | | | | | 2.386 | 10.7 | 30 | |
| 1,2-Dichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromodichloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Dibromomethane | ND | 0.100 | | | | | | 0 | | 30 | |
| cis-1,3-Dichloropropene | ND | 0.100 | | | | | | 0 | | 30 | |

**Work Order:** 1806069
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1806068-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **6/8/2018** RunNo: **43990**
Client ID: **BATCH** Batch ID: **20918** Analysis Date: **6/8/2018** SeqNo: **851320**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Toluene | ND | 0.100 | | | | | | 0 | | 30 | |
| trans-1,3-Dichloropropylene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,2-Trichloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3-Dichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| Tetrachloroethene (PCE) | 0.243 | 0.100 | | | | | | 0.2210 | 9.29 | 30 | |
| Dibromochloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | | | | | 0 | | 30 | |
| Chlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Ethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| m,p-Xylene | ND | 0.100 | | | | | | 0 | | 30 | |
| o-Xylene | ND | 0.100 | | | | | | 0 | | 30 | |
| Styrene | ND | 0.100 | | | | | | 0 | | 30 | |
| Isopropylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromoform | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| n-Propylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 2-Chlorotoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| 4-Chlorotoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| tert-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,3-Trichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | | | | | 0 | | 30 | |
| sec-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 4-Isopropyltoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,4-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| n-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | | | | | 0 | | 30 | |

**Work Order:** 1806069
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1806068-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **6/8/2018** RunNo: **43990**
Client ID: **BATCH** Batch ID: **20918** Analysis Date: **6/8/2018** SeqNo: **851320**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Hexachlorobutadiene | ND | 0.400 | | | | | | 0 | | 30 | |
| Naphthalene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | | | | | 0 | | 30 | |
| Surr: Dibromofluoromethane | 2.53 | | 2.500 | | 101 | 61.1 | 128 | | 0 | | |
| Surr: Toluene-d8 | 2.49 | | 2.500 | | 99.4 | 68.2 | 129 | | 0 | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.45 | | 2.500 | | 97.9 | 64.7 | 128 | | 0 | | |

**NOTES:**
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift)

Sample ID **LCS-20918** SampType: **LCS** Units: **µg/L** Prep Date: **6/8/2018** RunNo: **43990**
Client ID: **LCSW** Batch ID: **20918** Analysis Date: **6/8/2018** SeqNo: **851324**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 2.08 | 0.100 | 2.000 | 0 | 104 | 38.8 | 143 | | | | |
| Chloromethane | 1.76 | 0.100 | 2.000 | 0 | 87.8 | 42.5 | 131 | | | | |
| Vinyl chloride | 1.85 | 0.0200 | 2.000 | 0 | 92.6 | 56.2 | 130 | | | | |
| Bromomethane | 1.90 | 0.100 | 2.000 | 0 | 95.0 | 45.4 | 138 | | | | |
| Trichlorofluoromethane (CFC-11) | 1.99 | 0.100 | 2.000 | 0 | 99.5 | 64.7 | 129 | | | | |
| Chloroethane | 1.87 | 0.100 | 2.000 | 0 | 93.3 | 62.5 | 123 | | | | |
| 1,1-Dichloroethene | 1.92 | 0.100 | 2.000 | 0 | 96.0 | 60.7 | 146 | | | | |
| Methylene chloride | 1.92 | 0.100 | 2.000 | 0 | 96.0 | 60.3 | 135 | | | | |
| trans-1,2-Dichloroethene | 1.90 | 0.100 | 2.000 | 0 | 95.0 | 71.3 | 129 | | | | |
| Methyl tert-butyl ether (MTBE) | 2.04 | 0.100 | 2.000 | 0 | 102 | 59.3 | 138 | | | | |
| 1,1-Dichloroethane | 1.89 | 0.100 | 2.000 | 0 | 94.7 | 71.3 | 129 | | | | |
| 2,2-Dichloropropane | 2.14 | 0.200 | 2.000 | 0 | 107 | 37.8 | 132 | | | | |
| cis-1,2-Dichloroethene | 1.99 | 0.100 | 2.000 | 0 | 99.5 | 67.5 | 127 | | | | |
| Chloroform | 1.98 | 0.100 | 2.000 | 0 | 98.8 | 70.3 | 123 | | | | |
| 1,1,1-Trichloroethane (TCA) | 1.97 | 0.100 | 2.000 | 0 | 98.4 | 67.9 | 134 | | | | |
| 1,1-Dichloropropene | 1.92 | 0.100 | 2.000 | 0 | 96.1 | 72.1 | 133 | | | | |
| Carbon tetrachloride | 1.93 | 0.100 | 2.000 | 0 | 96.5 | 64.4 | 133 | | | | |

**Work Order:** 1806069
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-20918** SampType: **LCS** Units: **µg/L** Prep Date: **6/8/2018** RunNo: **43990**
Client ID: **LCSW** Batch ID: **20918** Analysis Date: **6/8/2018** SeqNo: **851324**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane (EDC) | 2.09 | 0.100 | 2.000 | 0 | 105 | 65.8 | 126 | | | | |
| Benzene | 1.89 | 0.100 | 2.000 | 0 | 94.5 | 67.1 | 132 | | | | |
| Trichloroethene (TCE) | 1.96 | 0.0500 | 2.000 | 0 | 98.0 | 71.9 | 130 | | | | |
| 1,2-Dichloropropane | 1.88 | 0.100 | 2.000 | 0 | 94.2 | 71.9 | 131 | | | | |
| Bromodichloromethane | 1.94 | 0.100 | 2.000 | 0 | 97.2 | 70 | 130 | | | | |
| Dibromomethane | 2.13 | 0.100 | 2.000 | 0 | 107 | 74.2 | 125 | | | | |
| cis-1,3-Dichloropropene | 1.97 | 0.100 | 2.000 | 0 | 98.5 | 62.8 | 135 | | | | |
| Toluene | 1.93 | 0.100 | 2.000 | 0 | 96.6 | 73.6 | 127 | | | | |
| trans-1,3-Dichloropropylene | 2.04 | 0.100 | 2.000 | 0 | 102 | 58.1 | 138 | | | | |
| 1,1,2-Trichloroethane | 2.05 | 0.100 | 2.000 | 0 | 102 | 65.4 | 128 | | | | |
| 1,3-Dichloropropane | 2.04 | 0.100 | 2.000 | 0 | 102 | 71.9 | 131 | | | | |
| Tetrachloroethene (PCE) | 1.99 | 0.100 | 2.000 | 0 | 99.4 | 52.4 | 140 | | | | |
| Dibromochloromethane | 1.98 | 0.100 | 2.000 | 0 | 99.0 | 68.7 | 139 | | | | |
| 1,2-Dibromoethane (EDB) | 2.14 | 0.0250 | 2.000 | 0 | 107 | 71.2 | 129 | | | | |
| Chlorobenzene | 2.00 | 0.100 | 2.000 | 0 | 100 | 77.2 | 122 | | | | |
| 1,1,1,2-Tetrachloroethane | 2.01 | 0.100 | 2.000 | 0 | 101 | 76.2 | 130 | | | | |
| Ethylbenzene | 2.04 | 0.100 | 2.000 | 0 | 102 | 78 | 127 | | | | |
| m,p-Xylene | 3.99 | 0.100 | 4.000 | 0 | 99.7 | 77.5 | 130 | | | | |
| o-Xylene | 1.97 | 0.100 | 2.000 | 0 | 98.5 | 77.6 | 126 | | | | |
| Styrene | 1.99 | 0.100 | 2.000 | 0 | 99.6 | 66.8 | 137 | | | | |
| Isopropylbenzene | 2.02 | 0.100 | 2.000 | 0 | 101 | 75.9 | 133 | | | | |
| Bromoform | 2.03 | 0.100 | 2.000 | 0 | 101 | 54.1 | 146 | | | | |
| 1,1,2,2-Tetrachloroethane | 2.09 | 0.100 | 2.000 | 0 | 105 | 68 | 134 | | | | |
| n-Propylbenzene | 2.09 | 0.100 | 2.000 | 0 | 105 | 77.1 | 133 | | | | |
| Bromobenzene | 2.03 | 0.100 | 2.000 | 0 | 102 | 71.1 | 131 | | | | |
| 1,3,5-Trimethylbenzene | 1.96 | 0.100 | 2.000 | 0 | 98.0 | 76.2 | 133 | | | | |
| 2-Chlorotoluene | 2.01 | 0.100 | 2.000 | 0 | 101 | 67.1 | 137 | | | | |
| 4-Chlorotoluene | 2.13 | 0.100 | 2.000 | 0 | 106 | 70.7 | 132 | | | | |
| tert-Butylbenzene | 1.97 | 0.100 | 2.000 | 0 | 98.7 | 71.3 | 139 | | | | |
| 1,2,3-Trichloropropane | 2.07 | 0.100 | 2.000 | 0 | 103 | 70.8 | 132 | | | | |
| 1,2,4-Trichlorobenzene | 2.11 | 0.200 | 2.000 | 0 | 105 | 61.4 | 139 | | | | |

**Work Order:** 1806069
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-20918** SampType: **LCS** Units: **µg/L** Prep Date: **6/8/2018** RunNo: **43990**
Client ID: **LCSW** Batch ID: **20918** Analysis Date: **6/8/2018** SeqNo: **851324**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | 1.94 | 0.100 | 2.000 | 0 | 97.2 | 77.4 | 136 | | | | |
| 4-Isopropyltoluene | 1.96 | 0.100 | 2.000 | 0 | 97.8 | 78.1 | 131 | | | | |
| 1,3-Dichlorobenzene | 2.00 | 0.100 | 2.000 | 0 | 100 | 73.5 | 125 | | | | |
| 1,4-Dichlorobenzene | 2.05 | 0.100 | 2.000 | 0 | 103 | 71.4 | 125 | | | | |
| n-Butylbenzene | 2.03 | 0.100 | 2.000 | 0 | 102 | 69.8 | 138 | | | | |
| 1,2-Dichlorobenzene | 2.12 | 0.100 | 2.000 | 0 | 106 | 74.2 | 123 | | | | |
| 1,2-Dibromo-3-chloropropane | 2.03 | 0.100 | 2.000 | 0 | 102 | 53.6 | 155 | | | | |
| 1,2,4-Trimethylbenzene | 1.97 | 0.100 | 2.000 | 0 | 98.5 | 72.3 | 133 | | | | |
| Hexachlorobutadiene | 1.99 | 0.400 | 2.000 | 0 | 99.5 | 60.9 | 141 | | | | |
| Naphthalene | 2.32 | 0.100 | 2.000 | 0 | 116 | 58.2 | 140 | | | | |
| 1,2,3-Trichlorobenzene | 2.13 | 0.400 | 2.000 | 0 | 106 | 61.3 | 133 | | | | |
| Surr: Dibromofluoromethane | 2.51 | | 2.500 | | 100 | 56.4 | 141 | | | | |
| Surr: Toluene-d8 | 2.44 | | 2.500 | | 97.7 | 66 | 138 | | | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.50 | | 2.500 | | 100 | 64.7 | 128 | | | | |

# Sample Log-In Check List

| | | | |
|---|---|---|---|
| Client Name: | **EPI** | Work Order Number: | **1806069** |
| Logged by: | **Brianna Barnes** | Date Received: | **6/8/2018 8:02:00 AM** |

## *Chain of Custody*

| | | | | | | |
|---|---|---|---|---|---|---|
| 1. | Is Chain of Custody complete? | Yes | ☑ | No ☐ | Not Present | ☐ |
| 2. | How was the sample delivered? | Client | | | | |

## *Log In*

| | | | | | | |
|---|---|---|---|---|---|---|
| 3. | Coolers are present? | Yes | ☐ | No ☑ | NA | ☐ |
| | | **Air Sample.** | | | | |
| 4. | Shipping container/cooler in good condition? | Yes | ☑ | No ☐ | | |
| 5. | Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact) | Yes | ☐ | No ☐ | Not Required | ☑ |
| 6. | Was an attempt made to cool the samples? | Yes | ☐ | No ☐ | NA | ☑ |
| 7. | Were all items received at a temperature of >0°C to 10.0°C* | Yes | ☐ | No ☐ | NA | ☑ |
| 8. | Sample(s) in proper container(s)? | Yes | ☑ | No ☐ | | |
| 9. | Sufficient sample volume for indicated test(s)? | Yes | ☑ | No ☐ | | |
| 10. | Are samples properly preserved? | Yes | ☑ | No ☐ | | |
| 11. | Was preservative added to bottles? | Yes | ☐ | No ☑ | NA | ☐ |
| 12. | Is there headspace in the VOA vials? | Yes | ☐ | No ☐ | NA | ☑ |
| 13. | Did all samples containers arrive in good condition(unbroken)? | Yes | ☑ | No ☐ | | |
| 14. | Does paperwork match bottle labels? | Yes | ☑ | No ☐ | | |
| 15. | Are matrices correctly identified on Chain of Custody? | Yes | ☑ | No ☐ | | |
| 16. | Is it clear what analyses were requested? | Yes | ☑ | No ☐ | | |
| 17. | Were all holding times able to be met? | Yes | ☑ | No ☐ | | |

## *Special Handling (if applicable)*

| | | | | | | |
|---|---|---|---|---|---|---|
| 18. | Was client notified of all discrepancies with this order? | Yes | ☐ | No ☐ | NA | ☑ |

| | | | |
|---|---|---|---|
| Person Notified: | | Date | |
| By Whom: | | Via: | ☐ eMail ☐ Phone ☐ Fax ☐ In Person |
| Regarding: | | | |
| Client Instructions: | | | |

19. Additional remarks:

**Item Information**

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

# Air Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Laboratory Project No (Internal): 1806L0169

Date: 6/8/18 Page: 1 of: 1

Special Remarks: Provide EDD

Client: EPI

Address: 1180 NW Maple St

City, State, Zip: Issaquah, WA 98027

Telephone: 425-395-0010

Fax:

Project Name: WA Industries

Project No: 64001.4

Location: 825 S. Dakota St Seattle, WA

Collected by: J. Sherrod

Reports to (PM): Sean Trimble / Joe Sherrod

Email (PM): sean@epi-wa.com, joes@epi-wa.com

| | Sample Name | Canister / Flow Reg Serial # | Sample Date & Time | Sample Type (Matrix) * | Container Type ** | Sample Volume | Fill Time | Flow Rate | Internal: Initial Evacuation Pressure (mtorr) | Internal: Field Initial Sample Pressure (" Hg) | Internal: Field Final Sample Pressure (" Hg) | Analysis Requested | Internal: Receipt Date | Internal: Final Pressure ("Hg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | AIR-EFF | Canister / Flow Reg | 6/8/18 Date / 0715 Time | S | TB | 1L | 15 min | | Pressure / Date | Pressure / Time | Pressure / Time | VOCs by EPA 8260c | | |
| 2 | | Canister / Flow Reg | Date / Time | | | | | | Pressure / Date | Pressure / Time | Pressure / Time | | | |
| 3 | | Canister / Flow Reg | Date / Time | | | | | | Pressure / Date | Pressure / Time | Pressure / Time | | | |
| 4 | | Canister / Flow Reg | Date / Time | | | | | | Pressure / Date | Pressure / Time | Pressure / Time | | | |
| 5 | | Canister / Flow Reg | Date / Time | | | | | | Pressure / Date | Pressure / Time | Pressure / Time | | | |

* Matrix Codes: AA = Ambient Air IA = Indoor Air L = Landfill S = Subslab / Soil Gas

** Container Codes: BV = 1 Liter Bottle Vac CAN = Canister CYL = High Pressure Cylinder F = Filter S = Sorbent Tube TB = Tedlar Bag

**I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.**

| Relinquished | Date/Time | Received | Date/Time |
|---|---|---|---|
| x | 06/08/18 / 0802 | x | 6/8/18 0802 |
| Relinquished | Date/Time | Received | Date/Time |
| x | | x | |

**Turn-Around Time:**

- [x] Standard
- [ ] 3 Day
- [ ] 2 Day
- [ ] Next Day
- Same Day _____ (specify)

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

**Environmental Partners, Inc.**
Sean Trimble
1180 NW Maple Street, Suite 310
Issaquah, WA 98027

**RE: 64001 (WA Industries)**
**Work Order Number: 1806385**

July 05, 2018

**Attention Sean Trimble:**

Fremont Analytical, Inc. received 1 sample(s) on 6/29/2018 for the analyses presented in the following report.

***Volatile Organic Compounds by EPA Method 8260C***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director

**Date:** *07/05/2018*

**CLIENT:** Environmental Partners, Inc.
**Project:** 64001 (WA Industries)
**Work Order:** 1806385

# Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---|---|---|---|
| 1806385-001 | AIR-EFF | 06/29/2018 8:45 AM | 06/29/2018 12:04 PM |

# Case Narrative

WO#: **1806385**
Date: **7/5/2018**

**CLIENT:** Environmental Partners, Inc.
**Project:** 64001 (WA Industries)

WorkOrder Narrative:
I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

# Analytical Report

Work Order: **1806385**
Date Reported: **7/5/2018**

**Client:** Environmental Partners, Inc.
**Collection Date:** 6/29/2018 8:45:00 AM
**Project:** 64001 (WA Industries)
**Lab ID:** 1806385-001
**Matrix:** Air
**Client Sample ID:** **AIR-EFF**

## Volatile Organic Compounds by EPA Method 8260C

Batch ID: 21126 Analyst: TN

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| Chloromethane | ND | 0.100 | Q | µg/L | 1 | 7/2/2018 8:13:57 AM |
| Vinyl chloride | ND | 0.0200 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| Bromomethane | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| Chloroethane | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| 1,1-Dichloroethene | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| Methylene chloride | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| trans-1,2-Dichloroethene | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| 1,1-Dichloroethane | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| 2,2-Dichloropropane | ND | 0.200 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| cis-1,2-Dichloroethene | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| Chloroform | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| 1,1-Dichloropropene | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| Carbon tetrachloride | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| Benzene | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| Trichloroethene (TCE) | 2.84 | 0.0500 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| 1,2-Dichloropropane | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| Bromodichloromethane | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| Dibromomethane | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| cis-1,3-Dichloropropene | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| Toluene | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| trans-1,3-Dichloropropylene | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| 1,1,2-Trichloroethane | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| 1,3-Dichloropropane | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| Tetrachloroethene (PCE) | 0.136 | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| Dibromochloromethane | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| Chlorobenzene | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| Ethylbenzene | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| m,p-Xylene | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| o-Xylene | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| Styrene | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| Isopropylbenzene | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| Bromoform | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |

# Analytical Report

Work Order: **1806385**
Date Reported: **7/5/2018**

**Client:** Environmental Partners, Inc.
**Collection Date:** 6/29/2018 8:45:00 AM
**Project:** 64001 (WA Industries)
**Lab ID:** 1806385-001
**Matrix:** Air
**Client Sample ID:** **AIR-EFF**

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA Method 8260C** | | | | Batch ID: 21126 | | Analyst: TN |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| n-Propylbenzene | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| Bromobenzene | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| 2-Chlorotoluene | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| 4-Chlorotoluene | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| tert-Butylbenzene | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| 1,2,3-Trichloropropane | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| sec-Butylbenzene | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| 4-Isopropyltoluene | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| 1,3-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| 1,4-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| n-Butylbenzene | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| 1,2-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| Hexachlorobutadiene | ND | 0.400 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| Naphthalene | ND | 0.100 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | µg/L | 1 | 7/2/2018 8:13:57 AM |
| Surr: Dibromofluoromethane | 103 | 56.4 - 141 | | %Rec | 1 | 7/2/2018 8:13:57 AM |
| Surr: Toluene-d8 | 102 | 66 - 138 | | %Rec | 1 | 7/2/2018 8:13:57 AM |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 98.9 | 64.7 - 128 | | %Rec | 1 | 7/2/2018 8:13:57 AM |

**NOTES:**
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift)

**Work Order:** 1806385
**CLIENT:** Environmental Partners, Inc.
**Project:** 64001 (WA Industries)

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1806384-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **7/2/2018** RunNo: **44416**
Client ID: **BATCH** Batch ID: **21126** Analysis Date: **7/2/2018** SeqNo: **859842**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloromethane | ND | 0.100 | | | | | | 0 | | 30 | Q |
| Vinyl chloride | ND | 0.0200 | | | | | | 0 | | 30 | |
| Bromomethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Methylene chloride | ND | 0.100 | | | | | | 0 | | 30 | |
| trans-1,2-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 2,2-Dichloropropane | ND | 0.200 | | | | | | 0 | | 30 | |
| cis-1,2-Dichloroethene | 0.183 | 0.100 | | | | | | 0.2035 | 10.7 | 30 | |
| Chloroform | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloropropene | ND | 0.100 | | | | | | 0 | | 30 | |
| Carbon tetrachloride | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | | | | | 0 | | 30 | |
| Benzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Trichloroethene (TCE) | 2.31 | 0.0500 | | | | | | 2.562 | 10.1 | 30 | |
| 1,2-Dichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromodichloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Dibromomethane | ND | 0.100 | | | | | | 0 | | 30 | |
| cis-1,3-Dichloropropene | ND | 0.100 | | | | | | 0 | | 30 | |
| Toluene | ND | 0.100 | | | | | | 0 | | 30 | |
| trans-1,3-Dichloropropylene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,2-Trichloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3-Dichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| Tetrachloroethene (PCE) | 0.220 | 0.100 | | | | | | 0.2612 | 16.9 | 30 | |
| Dibromochloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | | | | | 0 | | 30 | |

**Work Order:** 1806385
**CLIENT:** Environmental Partners, Inc.
**Project:** 64001 (WA Industries)

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1806384-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **7/2/2018** RunNo: **44416**
Client ID: **BATCH** Batch ID: **21126** Analysis Date: **7/2/2018** SeqNo: **859842**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Ethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| m,p-Xylene | ND | 0.100 | | | | | | 0 | | 30 | |
| o-Xylene | ND | 0.100 | | | | | | 0 | | 30 | |
| Styrene | ND | 0.100 | | | | | | 0 | | 30 | |
| Isopropylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromoform | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| n-Propylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 2-Chlorotoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| 4-Chlorotoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| tert-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,3-Trichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | | | | | 0 | | 30 | |
| sec-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 4-Isopropyltoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,4-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| n-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Hexachlorobutadiene | ND | 0.400 | | | | | | 0 | | 30 | |
| Naphthalene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | | | | | 0 | | 30 | |
| Surr: Dibromofluoromethane | 2.90 | | 2.500 | | 116 | 61.1 | 128 | | 0 | | |
| Surr: Toluene-d8 | 2.45 | | 2.500 | | 97.9 | 68.2 | 129 | | 0 | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.59 | | 2.500 | | 104 | 64.7 | 128 | | 0 | | |

**Work Order:** 1806385
**CLIENT:** Environmental Partners, Inc.
**Project:** 64001 (WA Industries)

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1806384-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **7/2/2018** RunNo: **44416**
Client ID: **BATCH** Batch ID: **21126** Analysis Date: **7/2/2018** SeqNo: **859842**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|

**NOTES:**
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift)

Sample ID **LCS-21126** SampType: **LCS** Units: **µg/L** Prep Date: **7/2/2018** RunNo: **44416**
Client ID: **LCSW** Batch ID: **21126** Analysis Date: **7/2/2018** SeqNo: **859845**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 2.08 | 0.100 | 2.000 | 0 | 104 | 38.8 | 143 | | | | |
| Chloromethane | 1.60 | 0.100 | 2.000 | 0 | 80.1 | 42.5 | 131 | | | | |
| Vinyl chloride | 1.93 | 0.0200 | 2.000 | 0 | 96.6 | 56.2 | 130 | | | | |
| Bromomethane | 2.01 | 0.100 | 2.000 | 0 | 100 | 45.4 | 138 | | | | |
| Trichlorofluoromethane (CFC-11) | 2.03 | 0.100 | 2.000 | 0 | 102 | 64.7 | 129 | | | | |
| Chloroethane | 2.24 | 0.100 | 2.000 | 0 | 112 | 62.5 | 123 | | | | |
| 1,1-Dichloroethene | 2.00 | 0.100 | 2.000 | 0 | 99.9 | 60.7 | 146 | | | | |
| Methylene chloride | 2.00 | 0.100 | 2.000 | 0 | 99.9 | 60.3 | 135 | | | | |
| trans-1,2-Dichloroethene | 2.02 | 0.100 | 2.000 | 0 | 101 | 71.3 | 129 | | | | |
| Methyl tert-butyl ether (MTBE) | 2.13 | 0.100 | 2.000 | 0 | 107 | 59.3 | 138 | | | | |
| 1,1-Dichloroethane | 2.47 | 0.100 | 2.000 | 0 | 123 | 71.3 | 129 | | | | |
| 2,2-Dichloropropane | 4.11 | 0.200 | 2.000 | 0 | 206 | 37.8 | 132 | | | | S |
| cis-1,2-Dichloroethene | 2.04 | 0.100 | 2.000 | 0 | 102 | 67.5 | 127 | | | | |
| Chloroform | 2.01 | 0.100 | 2.000 | 0 | 100 | 70.3 | 123 | | | | |
| 1,1,1-Trichloroethane (TCA) | 2.04 | 0.100 | 2.000 | 0 | 102 | 67.9 | 134 | | | | |
| 1,1-Dichloropropene | 2.06 | 0.100 | 2.000 | 0 | 103 | 72.1 | 133 | | | | |
| Carbon tetrachloride | 2.03 | 0.100 | 2.000 | 0 | 102 | 64.4 | 133 | | | | |
| 1,2-Dichloroethane (EDC) | 1.96 | 0.100 | 2.000 | 0 | 98.0 | 65.8 | 126 | | | | |
| Benzene | 1.96 | 0.100 | 2.000 | 0 | 97.9 | 67.1 | 132 | | | | |
| Trichloroethene (TCE) | 1.88 | 0.0500 | 2.000 | 0 | 94.0 | 71.9 | 130 | | | | |
| 1,2-Dichloropropane | 1.97 | 0.100 | 2.000 | 0 | 98.7 | 71.9 | 131 | | | | |
| Bromodichloromethane | 1.92 | 0.100 | 2.000 | 0 | 95.8 | 70 | 130 | | | | |
| Dibromomethane | 1.99 | 0.100 | 2.000 | 0 | 99.6 | 74.2 | 125 | | | | |
| cis-1,3-Dichloropropene | 2.01 | 0.100 | 2.000 | 0 | 100 | 62.8 | 135 | | | | |

**Work Order:** 1806385
**CLIENT:** Environmental Partners, Inc.
**Project:** 64001 (WA Industries)

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-21126** SampType: **LCS** Units: **µg/L** Prep Date: **7/2/2018** RunNo: **44416**
Client ID: **LCSW** Batch ID: **21126** Analysis Date: **7/2/2018** SeqNo: **859845**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Toluene | 1.95 | 0.100 | 2.000 | 0 | 97.4 | 73.6 | 127 | | | | |
| trans-1,3-Dichloropropylene | 2.01 | 0.100 | 2.000 | 0 | 101 | 58.1 | 138 | | | | |
| 1,1,2-Trichloroethane | 1.93 | 0.100 | 2.000 | 0 | 96.6 | 65.4 | 128 | | | | |
| 1,3-Dichloropropane | 1.94 | 0.100 | 2.000 | 0 | 97.0 | 71.9 | 131 | | | | |
| Tetrachloroethene (PCE) | 2.00 | 0.100 | 2.000 | 0 | 100 | 52.4 | 140 | | | | |
| Dibromochloromethane | 1.86 | 0.100 | 2.000 | 0 | 92.9 | 68.7 | 139 | | | | |
| 1,2-Dibromoethane (EDB) | 1.92 | 0.0250 | 2.000 | 0 | 95.9 | 71.2 | 129 | | | | |
| Chlorobenzene | 1.98 | 0.100 | 2.000 | 0 | 98.9 | 77.2 | 122 | | | | |
| 1,1,1,2-Tetrachloroethane | 1.97 | 0.100 | 2.000 | 0 | 98.7 | 76.2 | 130 | | | | |
| Ethylbenzene | 2.02 | 0.100 | 2.000 | 0 | 101 | 78 | 127 | | | | |
| m,p-Xylene | 4.04 | 0.100 | 4.000 | 0 | 101 | 77.5 | 130 | | | | |
| o-Xylene | 1.96 | 0.100 | 2.000 | 0 | 98.1 | 77.6 | 126 | | | | |
| Styrene | 1.96 | 0.100 | 2.000 | 0 | 97.8 | 66.8 | 137 | | | | |
| Isopropylbenzene | 2.04 | 0.100 | 2.000 | 0 | 102 | 75.9 | 133 | | | | |
| Bromoform | 1.80 | 0.100 | 2.000 | 0 | 89.8 | 54.1 | 146 | | | | |
| 1,1,2,2-Tetrachloroethane | 2.28 | 0.100 | 2.000 | 0 | 114 | 68 | 134 | | | | |
| n-Propylbenzene | 2.02 | 0.100 | 2.000 | 0 | 101 | 77.1 | 133 | | | | |
| Bromobenzene | 2.03 | 0.100 | 2.000 | 0 | 101 | 71.1 | 131 | | | | |
| 1,3,5-Trimethylbenzene | 2.07 | 0.100 | 2.000 | 0 | 103 | 76.2 | 133 | | | | |
| 2-Chlorotoluene | 1.99 | 0.100 | 2.000 | 0 | 99.6 | 67.1 | 137 | | | | |
| 4-Chlorotoluene | 2.09 | 0.100 | 2.000 | 0 | 105 | 70.7 | 132 | | | | |
| tert-Butylbenzene | 2.00 | 0.100 | 2.000 | 0 | 100 | 71.3 | 139 | | | | |
| 1,2,3-Trichloropropane | 2.32 | 0.100 | 2.000 | 0 | 116 | 70.8 | 132 | | | | |
| 1,2,4-Trichlorobenzene | 2.07 | 0.200 | 2.000 | 0 | 103 | 61.4 | 139 | | | | |
| sec-Butylbenzene | 2.08 | 0.100 | 2.000 | 0 | 104 | 77.4 | 136 | | | | |
| 4-Isopropyltoluene | 2.08 | 0.100 | 2.000 | 0 | 104 | 78.1 | 131 | | | | |
| 1,3-Dichlorobenzene | 2.04 | 0.100 | 2.000 | 0 | 102 | 73.5 | 125 | | | | |
| 1,4-Dichlorobenzene | 1.99 | 0.100 | 2.000 | 0 | 99.3 | 71.4 | 125 | | | | |
| n-Butylbenzene | 2.14 | 0.100 | 2.000 | 0 | 107 | 69.8 | 138 | | | | |
| 1,2-Dichlorobenzene | 2.07 | 0.100 | 2.000 | 0 | 104 | 74.2 | 123 | | | | |
| 1,2-Dibromo-3-chloropropane | 2.32 | 0.100 | 2.000 | 0 | 116 | 53.6 | 155 | | | | |

**Work Order:** 1806385
**CLIENT:** Environmental Partners, Inc.
**Project:** 64001 (WA Industries)

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-21126** SampType: **LCS** Units: **µg/L** Prep Date: **7/2/2018** RunNo: **44416**
Client ID: **LCSW** Batch ID: **21126** Analysis Date: **7/2/2018** SeqNo: **859845**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 2.06 | 0.100 | 2.000 | 0 | 103 | 72.3 | 133 | | | | |
| Hexachlorobutadiene | 2.11 | 0.400 | 2.000 | 0 | 105 | 60.9 | 141 | | | | |
| Naphthalene | 2.01 | 0.100 | 2.000 | 0 | 101 | 58.2 | 140 | | | | |
| 1,2,3-Trichlorobenzene | 2.08 | 0.400 | 2.000 | 0 | 104 | 61.3 | 133 | | | | |
| Surr: Dibromofluoromethane | 2.95 | | 2.500 | | 118 | 56.4 | 141 | | | | |
| Surr: Toluene-d8 | 2.51 | | 2.500 | | 100 | 66 | 138 | | | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.66 | | 2.500 | | 106 | 64.7 | 128 | | | | |

**NOTES:**
S - Outlying spike recovery observed (high bias). Samples are non-detect for this analyte; no further action required.

Sample ID **MB-21126** SampType: **MBLK** Units: **µg/L** Prep Date: **7/2/2018** RunNo: **44416**
Client ID: **MBLKW** Batch ID: **21126** Analysis Date: **7/2/2018** SeqNo: **859846**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | | | | | | | | |
| Chloromethane | ND | 0.100 | | | | | | | | | Q |
| Vinyl chloride | ND | 0.0200 | | | | | | | | | |
| Bromomethane | ND | 0.100 | | | | | | | | | |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | | | | | | | | |
| Chloroethane | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Methylene chloride | ND | 0.100 | | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.100 | | | | | | | | | |
| 2,2-Dichloropropane | ND | 0.200 | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Chloroform | ND | 0.100 | | | | | | | | | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.100 | | | | | | | | | |
| Carbon tetrachloride | ND | 0.100 | | | | | | | | | |

**Work Order:** 1806385
**CLIENT:** Environmental Partners, Inc.
**Project:** 64001 (WA Industries)

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **MB-21126** SampType: **MBLK** Units: **µg/L** Prep Date: **7/2/2018** RunNo: **44416**
Client ID: **MBLKW** Batch ID: **21126** Analysis Date: **7/2/2018** SeqNo: **859846**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | | | | | | | | |
| Benzene | ND | 0.100 | | | | | | | | | |
| Trichloroethene (TCE) | ND | 0.0500 | | | | | | | | | |
| 1,2-Dichloropropane | ND | 0.100 | | | | | | | | | |
| Bromodichloromethane | ND | 0.100 | | | | | | | | | |
| Dibromomethane | ND | 0.100 | | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.100 | | | | | | | | | |
| Toluene | ND | 0.100 | | | | | | | | | |
| trans-1,3-Dichloropropylene | ND | 0.100 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.100 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 0.100 | | | | | | | | | |
| Tetrachloroethene (PCE) | ND | 0.100 | | | | | | | | | |
| Dibromochloromethane | ND | 0.100 | | | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | | | | | | | | |
| Chlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | | | | | | | | |
| Ethylbenzene | ND | 0.100 | | | | | | | | | |
| m,p-Xylene | ND | 0.100 | | | | | | | | | |
| o-Xylene | ND | 0.100 | | | | | | | | | |
| Styrene | ND | 0.100 | | | | | | | | | |
| Isopropylbenzene | ND | 0.100 | | | | | | | | | |
| Bromoform | ND | 0.100 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | | | | | | | | |
| n-Propylbenzene | ND | 0.100 | | | | | | | | | |
| Bromobenzene | ND | 0.100 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | | | | | | | | |
| 2-Chlorotoluene | ND | 0.100 | | | | | | | | | |
| 4-Chlorotoluene | ND | 0.100 | | | | | | | | | |
| tert-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.100 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | | | | | | | | |

**Work Order:** 1806385
**CLIENT:** Environmental Partners, Inc.
**Project:** 64001 (WA Industries)

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **MB-21126** SampType: **MBLK** Units: **µg/L** Prep Date: **7/2/2018** RunNo: **44416**
Client ID: **MBLKW** Batch ID: **21126** Analysis Date: **7/2/2018** SeqNo: **859846**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 4-Isopropyltoluene | ND | 0.100 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| n-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | | | | | | | | |
| Hexachlorobutadiene | ND | 0.400 | | | | | | | | | |
| Naphthalene | ND | 0.100 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | | | | | | | | |
| Surr: Dibromofluoromethane | 2.52 | | 2.500 | | 101 | 56.4 | 141 | | | | |
| Surr: Toluene-d8 | 2.51 | | 2.500 | | 100 | 66 | 138 | | | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.47 | | 2.500 | | 98.9 | 64.7 | 128 | | | | |

**NOTES:**
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift)

# Sample Log-In Check List

| | | | |
|---|---|---|---|
| Client Name: | **EPI** | Work Order Number: | **1806385** |
| Logged by: | **Brianna Barnes** | Date Received: | **6/29/2018 12:04:00 PM** |

## *Chain of Custody*

| | | | | |
|---|---|---|---|---|
| 1. | Is Chain of Custody complete? | Yes ☑ | No ☐ | Not Present ☐ |
| 2. | How was the sample delivered? | Client | | |

## *Log In*

| | | | | |
|---|---|---|---|---|
| 3. | Coolers are present? | Yes ☐ | No ☑ | NA ☐ |
| | | **Air Samples.** | | |
| 4. | Shipping container/cooler in good condition? | Yes ☑ | No ☐ | |
| 5. | Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact) | Yes ☐ | No ☐ | Not Required ☑ |
| 6. | Was an attempt made to cool the samples? | Yes ☐ | No ☐ | NA ☑ |
| 7. | Were all items received at a temperature of >0°C to 10.0°C* | Yes ☐ | No ☐ | NA ☑ |
| 8. | Sample(s) in proper container(s)? | Yes ☑ | No ☐ | |
| 9. | Sufficient sample volume for indicated test(s)? | Yes ☑ | No ☐ | |
| 10. | Are samples properly preserved? | Yes ☑ | No ☐ | |
| 11. | Was preservative added to bottles? | Yes ☐ | No ☑ | NA ☐ |
| 12. | Is there headspace in the VOA vials? | Yes ☐ | No ☐ | NA ☑ |
| 13. | Did all samples containers arrive in good condition(unbroken)? | Yes ☑ | No ☐ | |
| 14. | Does paperwork match bottle labels? | Yes ☑ | No ☐ | |
| 15. | Are matrices correctly identified on Chain of Custody? | Yes ☑ | No ☐ | |
| 16. | Is it clear what analyses were requested? | Yes ☑ | No ☐ | |
| 17. | Were all holding times able to be met? | Yes ☑ | No ☐ | |

## *Special Handling (if applicable)*

| | | | | |
|---|---|---|---|---|
| 18. | Was client notified of all discrepancies with this order? | Yes ☐ | No ☐ | NA ☑ |

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

19. Additional remarks:

**Item Information**

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

# Air Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Date: 6/29/18 Page: 1 of: 1

Laboratory Project No (Internal): 1806395

Project Name: 6400l (WA Industries)

Special Remarks: Provide EDD table

Client: EPI

Project No: 6400l

Address: 1180 NW Maple St.

Location: 825 S. Dakota St. Seattle, WA

City, State, Zip: Issaquah, WA 98027

Collected by: J. Sherrod

Telephone: 425-395-0060

Reports to (PM): Sean Trimble

Air samples are disposed of one week after report is submitted to client unless otherwise requested. ☐ OK to Dispose ☐ Hold (fees may apply)

Fax:

Email (PM): sean@epi-wa.com

| | Sample Name | Canister / Flow Reg Serial # | Sample Date & Time | Sample Type (Matrix) * | Container Type ** | Fill Time / Flow Rate | Internal: Initial Evacuation Pressure (mtorr) | Field Initial Sample Pressure (" Hg) | Field Final Sample Pressure (" Hg) | Analysis: VOCs TO15 SCAN | VOCs TO15 SCAN LL | VOCs TO15 SIM | Siloxanes TO15 | Sulfur TO15 | Sulfur Ext. TO15 | APH TO15 | Helium | Major Gases 3C | VOCs by 8260 | Comments | Internal: Final Pressure ("Hg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | AIR-EFF | Canister / Flow Reg | 6/29/18 Date / 0845 Time | S | TB | .5 min | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | X | | |
| 2 | | Canister / Flow Reg | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |
| 3 | | Canister / Flow Reg | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |
| 4 | | Canister / Flow Reg | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |
| 5 | | Canister / Flow Reg | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |

* Matrix Codes: AA = Ambient Air IA = Indoor Air L = Landfill S = Subslab / Soil Gas

** Container Codes: BV = 1 Liter Bottle Vac 6L = 6L Canister 1L = 1L Canister CYL = High Pressure Cylinder F = Filter S = Sorbent Tube TB = Tedlar Bag

**I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.**

| Relinquished | Date/Time | Received | Date/Time |
|---|---|---|---|
| x | 6/29/18 1204 | x | 6/29/18 1204 |
| Relinquished | Date/Time | Received | Date/Time |
| x | | x | |

**Turn-Around Time:**

- ☑ Standard
- ☐ 3 Day
- ☐ 2 Day
- ☐ Next Day
- Same Day _____ (specify)

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

**Environmental Partners, Inc.**
Sean Trimble
1180 NW Maple Street, Suite 310
Issaquah, WA 98027

**RE: 64001.4 / WA Industries**
**Work Order Number: 1807309**

July 31, 2018

**Attention Sean Trimble:**

Fremont Analytical, Inc. received 1 sample(s) on 7/24/2018 for the analyses presented in the following report.

***Volatile Organic Compounds by EPA Method 8260C***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director

**Date:** *07/31/2018*

**CLIENT:** Environmental Partners, Inc.
**Project:** 64001.4 / WA Industries
**Work Order:** 1807309

# Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---|---|---|---|
| 1807309-001 | AIR-EFF | 07/24/2018 11:09 AM | 07/24/2018 12:43 PM |

# Case Narrative

WO#: **1807309**
Date: **7/31/2018**

**CLIENT:** Environmental Partners, Inc.
**Project:** 64001.4 / WA Industries

WorkOrder Narrative:
I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

**Client:** Environmental Partners, Inc. **Collection Date:** 7/24/2018 11:09:00 AM
**Project:** 64001.4 / WA Industries
**Lab ID:** 1807309-001 **Matrix:** Air
**Client Sample ID:** **AIR-EFF**

## Volatile Organic Compounds by EPA Method 8260C

Batch ID: 21382 Analyst: EM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| Chloromethane | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| Vinyl chloride | ND | 0.0200 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| Bromomethane | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| Chloroethane | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| 1,1-Dichloroethene | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| Methylene chloride | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| trans-1,2-Dichloroethene | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| 1,1-Dichloroethane | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| 2,2-Dichloropropane | ND | 0.200 | Q | µg/L | 1 | 7/26/2018 12:58:08 PM |
| cis-1,2-Dichloroethene | 0.836 | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| Chloroform | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| 1,1-Dichloropropene | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| Carbon tetrachloride | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| Benzene | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| Trichloroethene (TCE) | 24.1 | 0.500 | D | µg/L | 10 | 7/26/2018 3:40:08 PM |
| 1,2-Dichloropropane | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| Bromodichloromethane | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| Dibromomethane | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| cis-1,3-Dichloropropene | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| Toluene | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| trans-1,3-Dichloropropylene | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| 1,1,2-Trichloroethane | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| 1,3-Dichloropropane | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| Tetrachloroethene (PCE) | 1.02 | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| Dibromochloromethane | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| Chlorobenzene | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| Ethylbenzene | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| m,p-Xylene | 0.104 | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| o-Xylene | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| Styrene | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| Isopropylbenzene | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| Bromoform | ND | 0.100 | Q | µg/L | 1 | 7/26/2018 12:58:08 PM |

# Analytical Report

Work Order: **1807309**
Date Reported: **7/31/2018**

**Client:** Environmental Partners, Inc.
**Collection Date:** 7/24/2018 11:09:00 AM
**Project:** 64001.4 / WA Industries
**Lab ID:** 1807309-001
**Matrix:** Air
**Client Sample ID:** **AIR-EFF**

## Volatile Organic Compounds by EPA Method 8260C

Batch ID: 21382 Analyst: EM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| n-Propylbenzene | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| Bromobenzene | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| 2-Chlorotoluene | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| 4-Chlorotoluene | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| tert-Butylbenzene | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| 1,2,3-Trichloropropane | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| sec-Butylbenzene | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| 4-Isopropyltoluene | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| 1,3-Dichlorobenzene | ND | 0.100 | Q | µg/L | 1 | 7/26/2018 12:58:08 PM |
| 1,4-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| n-Butylbenzene | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| 1,2-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| Hexachlorobutadiene | ND | 0.400 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| Naphthalene | ND | 0.100 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | µg/L | 1 | 7/26/2018 12:58:08 PM |
| Surr: Dibromofluoromethane | 104 | 56.4 - 141 | | %Rec | 1 | 7/26/2018 12:58:08 PM |
| Surr: Toluene-d8 | 103 | 66 - 138 | | %Rec | 1 | 7/26/2018 12:58:08 PM |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 105 | 64.7 - 128 | | %Rec | 1 | 7/26/2018 12:58:08 PM |

**NOTES:**
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift)

**Work Order:** 1807309
**CLIENT:** Environmental Partners, Inc.
**Project:** 64001.4 / WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1807296-002AREP** SampType: **REP** Units: **µg/L** Prep Date: **7/25/2018** RunNo: **45008**
Client ID: **BATCH** Batch ID: **21382** Analysis Date: **7/26/2018** SeqNo: **870599**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Vinyl chloride | ND | 0.0200 | | | | | | 0 | | 30 | |
| Bromomethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Methylene chloride | ND | 0.100 | | | | | | 0 | | 30 | |
| trans-1,2-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 2,2-Dichloropropane | ND | 0.200 | | | | | | 0 | | 30 | Q |
| cis-1,2-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloroform | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloropropene | ND | 0.100 | | | | | | 0 | | 30 | |
| Carbon tetrachloride | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | | | | | 0 | | 30 | |
| Benzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Trichloroethene (TCE) | ND | 0.0500 | | | | | | 0 | | 30 | |
| 1,2-Dichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromodichloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Dibromomethane | ND | 0.100 | | | | | | 0 | | 30 | |
| cis-1,3-Dichloropropene | ND | 0.100 | | | | | | 0 | | 30 | |
| Toluene | ND | 0.100 | | | | | | 0 | | 30 | |
| trans-1,3-Dichloropropylene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,2-Trichloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3-Dichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| Tetrachloroethene (PCE) | ND | 0.100 | | | | | | 0 | | 30 | |
| Dibromochloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | | | | | 0 | | 30 | |

**Work Order:** 1807309
**CLIENT:** Environmental Partners, Inc.
**Project:** 64001.4 / WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1807296-002AREP** SampType: **REP** Units: **µg/L** Prep Date: **7/25/2018** RunNo: **45008**
Client ID: **BATCH** Batch ID: **21382** Analysis Date: **7/26/2018** SeqNo: **870599**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Ethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| m,p-Xylene | ND | 0.100 | | | | | | 0.1028 | 6.28 | 30 | |
| o-Xylene | ND | 0.100 | | | | | | 0 | | 30 | |
| Styrene | ND | 0.100 | | | | | | 0 | | 30 | |
| Isopropylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromoform | ND | 0.100 | | | | | | 0 | | 30 | Q |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| n-Propylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 2-Chlorotoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| 4-Chlorotoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| tert-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,3-Trichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | | | | | 0 | | 30 | |
| sec-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 4-Isopropyltoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | Q |
| 1,4-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| n-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Hexachlorobutadiene | ND | 0.400 | | | | | | 0 | | 30 | |
| Naphthalene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | | | | | 0 | | 30 | |
| Surr: Dibromofluoromethane | 2.49 | | 2.500 | | 99.7 | 61.1 | 128 | | 0 | | |
| Surr: Toluene-d8 | 2.51 | | 2.500 | | 100 | 68.2 | 129 | | 0 | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.56 | | 2.500 | | 102 | 64.7 | 128 | | 0 | | |

**Work Order:** 1807309
**CLIENT:** Environmental Partners, Inc.
**Project:** 64001.4 / WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1807296-002AREP** SampType: **REP** Units: **µg/L** Prep Date: **7/25/2018** RunNo: **45008**
Client ID: **BATCH** Batch ID: **21382** Analysis Date: **7/26/2018** SeqNo: **870599**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|

**NOTES:**
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift)

Sample ID **MB-21382** SampType: **MBLK** Units: **µg/L** Prep Date: **7/25/2018** RunNo: **45008**
Client ID: **MBLKW** Batch ID: **21382** Analysis Date: **7/26/2018** SeqNo: **870613**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | | | | | | | | |
| Chloromethane | ND | 0.100 | | | | | | | | | |
| Vinyl chloride | ND | 0.0200 | | | | | | | | | |
| Bromomethane | ND | 0.100 | | | | | | | | | |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | | | | | | | | |
| Chloroethane | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Methylene chloride | ND | 0.100 | | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.100 | | | | | | | | | |
| 2,2-Dichloropropane | ND | 0.200 | | | | | | | | | Q |
| cis-1,2-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Chloroform | ND | 0.100 | | | | | | | | | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.100 | | | | | | | | | |
| Carbon tetrachloride | ND | 0.100 | | | | | | | | | |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | | | | | | | | |
| Benzene | ND | 0.100 | | | | | | | | | |
| Trichloroethene (TCE) | ND | 0.0500 | | | | | | | | | |
| 1,2-Dichloropropane | ND | 0.100 | | | | | | | | | |
| Bromodichloromethane | ND | 0.100 | | | | | | | | | |
| Dibromomethane | ND | 0.100 | | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.100 | | | | | | | | | |

**Work Order:** 1807309
**CLIENT:** Environmental Partners, Inc.
**Project:** 64001.4 / WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **MB-21382** SampType: **MBLK** Units: **µg/L** Prep Date: **7/25/2018** RunNo: **45008**
Client ID: **MBLKW** Batch ID: **21382** Analysis Date: **7/26/2018** SeqNo: **870613**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Toluene | ND | 0.100 | | | | | | | | | |
| trans-1,3-Dichloropropylene | ND | 0.100 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.100 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 0.100 | | | | | | | | | |
| Tetrachloroethene (PCE) | ND | 0.100 | | | | | | | | | |
| Dibromochloromethane | ND | 0.100 | | | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | | | | | | | | |
| Chlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | | | | | | | | |
| Ethylbenzene | ND | 0.100 | | | | | | | | | |
| m,p-Xylene | ND | 0.100 | | | | | | | | | |
| o-Xylene | ND | 0.100 | | | | | | | | | |
| Styrene | ND | 0.100 | | | | | | | | | |
| Isopropylbenzene | ND | 0.100 | | | | | | | | | |
| Bromoform | ND | 0.100 | | | | | | | | | Q |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | | | | | | | | |
| n-Propylbenzene | ND | 0.100 | | | | | | | | | |
| Bromobenzene | ND | 0.100 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | | | | | | | | |
| 2-Chlorotoluene | ND | 0.100 | | | | | | | | | |
| 4-Chlorotoluene | ND | 0.100 | | | | | | | | | |
| tert-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.100 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | | | | | | | | |
| sec-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 4-Isopropyltoluene | ND | 0.100 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.100 | | | | | | | | | Q |
| 1,4-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| n-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | | | | | | | | |

**Work Order:** 1807309
**CLIENT:** Environmental Partners, Inc.
**Project:** 64001.4 / WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **MB-21382** SampType: **MBLK** Units: **µg/L** Prep Date: **7/25/2018** RunNo: **45008**
Client ID: **MBLKW** Batch ID: **21382** Analysis Date: **7/26/2018** SeqNo: **870613**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | ND | 0.100 | | | | | | | | | |
| Hexachlorobutadiene | ND | 0.400 | | | | | | | | | |
| Naphthalene | ND | 0.100 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | | | | | | | | |
| Surr: Dibromofluoromethane | 2.44 | | 2.500 | | 97.8 | 56.4 | 141 | | | | |
| Surr: Toluene-d8 | 2.54 | | 2.500 | | 102 | 66 | 138 | | | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.56 | | 2.500 | | 103 | 64.7 | 128 | | | | |

**NOTES:**
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift)

Sample ID **LCS-21382** SampType: **LCS** Units: **µg/L** Prep Date: **7/25/2018** RunNo: **45008**
Client ID: **LCSW** Batch ID: **21382** Analysis Date: **7/26/2018** SeqNo: **870612**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 2.38 | 0.100 | 2.000 | 0 | 119 | 38.8 | 143 | | | | |
| Chloromethane | 2.58 | 0.100 | 2.000 | 0 | 129 | 42.5 | 131 | | | | |
| Vinyl chloride | 2.66 | 0.0200 | 2.000 | 0 | 133 | 56.2 | 130 | | | | S |
| Bromomethane | 2.01 | 0.100 | 2.000 | 0 | 101 | 45.4 | 138 | | | | |
| Trichlorofluoromethane (CFC-11) | 2.37 | 0.100 | 2.000 | 0 | 118 | 64.7 | 129 | | | | |
| Chloroethane | 2.26 | 0.100 | 2.000 | 0 | 113 | 62.5 | 123 | | | | |
| 1,1-Dichloroethene | 2.35 | 0.100 | 2.000 | 0 | 118 | 60.7 | 146 | | | | |
| Methylene chloride | 2.17 | 0.100 | 2.000 | 0 | 109 | 60.3 | 135 | | | | |
| trans-1,2-Dichloroethene | 2.28 | 0.100 | 2.000 | 0 | 114 | 71.3 | 129 | | | | |
| Methyl tert-butyl ether (MTBE) | 2.51 | 0.100 | 2.000 | 0 | 125 | 59.3 | 138 | | | | |
| 1,1-Dichloroethane | 2.36 | 0.100 | 2.000 | 0 | 118 | 71.3 | 129 | | | | |
| 2,2-Dichloropropane | 2.75 | 0.200 | 2.000 | 0 | 138 | 37.8 | 132 | | | | S |
| cis-1,2-Dichloroethene | 2.23 | 0.100 | 2.000 | 0 | 111 | 67.5 | 127 | | | | |
| Chloroform | 2.21 | 0.100 | 2.000 | 0 | 110 | 70.3 | 123 | | | | |
| 1,1,1-Trichloroethane (TCA) | 2.22 | 0.100 | 2.000 | 0 | 111 | 67.9 | 134 | | | | |
| 1,1-Dichloropropene | 2.41 | 0.100 | 2.000 | 0 | 121 | 72.1 | 133 | | | | |
| Carbon tetrachloride | 2.11 | 0.100 | 2.000 | 0 | 106 | 64.4 | 133 | | | | |

**Work Order:** 1807309
**CLIENT:** Environmental Partners, Inc.
**Project:** 64001.4 / WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-21382** SampType: **LCS** Units: **µg/L** Prep Date: **7/25/2018** RunNo: **45008**
Client ID: **LCSW** Batch ID: **21382** Analysis Date: **7/26/2018** SeqNo: **870612**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane (EDC) | 2.23 | 0.100 | 2.000 | 0 | 111 | 65.8 | 126 | | | | |
| Benzene | 2.32 | 0.100 | 2.000 | 0 | 116 | 67.1 | 132 | | | | |
| Trichloroethene (TCE) | 2.32 | 0.0500 | 2.000 | 0 | 116 | 71.9 | 130 | | | | |
| 1,2-Dichloropropane | 2.41 | 0.100 | 2.000 | 0 | 121 | 71.9 | 131 | | | | |
| Bromodichloromethane | 2.08 | 0.100 | 2.000 | 0 | 104 | 70 | 130 | | | | |
| Dibromomethane | 2.34 | 0.100 | 2.000 | 0 | 117 | 74.2 | 125 | | | | |
| cis-1,3-Dichloropropene | 2.06 | 0.100 | 2.000 | 0 | 103 | 62.8 | 135 | | | | |
| Toluene | 2.29 | 0.100 | 2.000 | 0 | 114 | 73.6 | 127 | | | | |
| trans-1,3-Dichloropropylene | 2.21 | 0.100 | 2.000 | 0 | 111 | 58.1 | 138 | | | | |
| 1,1,2-Trichloroethane | 2.48 | 0.100 | 2.000 | 0 | 124 | 65.4 | 128 | | | | |
| 1,3-Dichloropropane | 2.47 | 0.100 | 2.000 | 0 | 123 | 71.9 | 131 | | | | |
| Tetrachloroethene (PCE) | 2.42 | 0.100 | 2.000 | 0 | 121 | 52.4 | 140 | | | | |
| Dibromochloromethane | 2.09 | 0.100 | 2.000 | 0 | 105 | 68.7 | 139 | | | | |
| 1,2-Dibromoethane (EDB) | 2.48 | 0.0250 | 2.000 | 0 | 124 | 71.2 | 129 | | | | |
| Chlorobenzene | 2.19 | 0.100 | 2.000 | 0 | 110 | 77.2 | 122 | | | | |
| 1,1,1,2-Tetrachloroethane | 2.11 | 0.100 | 2.000 | 0 | 106 | 76.2 | 130 | | | | |
| Ethylbenzene | 2.15 | 0.100 | 2.000 | 0 | 107 | 78 | 127 | | | | |
| m,p-Xylene | 4.34 | 0.100 | 4.000 | 0 | 108 | 77.5 | 130 | | | | |
| o-Xylene | 2.14 | 0.100 | 2.000 | 0 | 107 | 77.6 | 126 | | | | |
| Styrene | 2.12 | 0.100 | 2.000 | 0 | 106 | 66.8 | 137 | | | | |
| Isopropylbenzene | 2.27 | 0.100 | 2.000 | 0 | 114 | 75.9 | 133 | | | | |
| Bromoform | 1.98 | 0.100 | 2.000 | 0 | 99.1 | 54.1 | 146 | | | | |
| 1,1,2,2-Tetrachloroethane | 2.43 | 0.100 | 2.000 | 0 | 121 | 68 | 134 | | | | |
| n-Propylbenzene | 2.33 | 0.100 | 2.000 | 0 | 117 | 77.1 | 133 | | | | |
| Bromobenzene | 2.14 | 0.100 | 2.000 | 0 | 107 | 71.1 | 131 | | | | |
| 1,3,5-Trimethylbenzene | 2.20 | 0.100 | 2.000 | 0 | 110 | 76.2 | 133 | | | | |
| 2-Chlorotoluene | 2.40 | 0.100 | 2.000 | 0 | 120 | 67.1 | 137 | | | | |
| 4-Chlorotoluene | 1.95 | 0.100 | 2.000 | 0 | 97.6 | 70.7 | 132 | | | | |
| tert-Butylbenzene | 2.26 | 0.100 | 2.000 | 0 | 113 | 71.3 | 139 | | | | |
| 1,2,3-Trichloropropane | 2.61 | 0.100 | 2.000 | 0 | 131 | 70.8 | 132 | | | | |
| 1,2,4-Trichlorobenzene | 2.27 | 0.200 | 2.000 | 0 | 114 | 61.4 | 139 | | | | |

**Work Order:** 1807309
**CLIENT:** Environmental Partners, Inc.
**Project:** 64001.4 / WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-21382** SampType: **LCS** Units: **µg/L** Prep Date: **7/25/2018** RunNo: **45008**
Client ID: **LCSW** Batch ID: **21382** Analysis Date: **7/26/2018** SeqNo: **870612**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | 2.28 | 0.100 | 2.000 | 0 | 114 | 77.4 | 136 | | | | |
| 4-Isopropyltoluene | 2.20 | 0.100 | 2.000 | 0 | 110 | 78.1 | 131 | | | | |
| 1,3-Dichlorobenzene | 1.83 | 0.100 | 2.000 | 0 | 91.6 | 73.5 | 125 | | | | |
| 1,4-Dichlorobenzene | 2.24 | 0.100 | 2.000 | 0 | 112 | 71.4 | 125 | | | | |
| n-Butylbenzene | 2.43 | 0.100 | 2.000 | 0 | 121 | 69.8 | 138 | | | | |
| 1,2-Dichlorobenzene | 2.21 | 0.100 | 2.000 | 0 | 111 | 74.2 | 123 | | | | |
| 1,2-Dibromo-3-chloropropane | 2.58 | 0.100 | 2.000 | 0 | 129 | 53.6 | 155 | | | | |
| 1,2,4-Trimethylbenzene | 2.24 | 0.100 | 2.000 | 0 | 112 | 72.3 | 133 | | | | |
| Hexachlorobutadiene | 2.46 | 0.400 | 2.000 | 0 | 123 | 60.9 | 141 | | | | |
| Naphthalene | 2.51 | 0.100 | 2.000 | 0 | 126 | 58.2 | 140 | | | | |
| 1,2,3-Trichlorobenzene | 2.38 | 0.400 | 2.000 | 0 | 119 | 61.3 | 133 | | | | |
| Surr: Dibromofluoromethane | 2.42 | | 2.500 | | 96.7 | 56.4 | 141 | | | | |
| Surr: Toluene-d8 | 2.59 | | 2.500 | | 104 | 66 | 138 | | | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.60 | | 2.500 | | 104 | 64.7 | 128 | | | | |

**NOTES:**
S - Outlying spike recovery observed (high bias). Samples are non-detect for this analyte; no further action required.

# Sample Log-In Check List

| | | | |
|---|---|---|---|
| Client Name: | **EPI** | Work Order Number: | **1807309** |
| Logged by: | **Brianna Barnes** | Date Received: | **7/24/2018 12:43:00 PM** |

## *Chain of Custody*

| | | | | |
|---|---|---|---|---|
| 1. | Is Chain of Custody complete? | Yes ☑ | No ☐ | Not Present ☐ |
| 2. | How was the sample delivered? | Client | | |

## *Log In*

| | | | | |
|---|---|---|---|---|
| 3. | Coolers are present? | Yes ☐ | No ☑ | NA ☐ |
| | | **Air samples.** | | |
| 4. | Shipping container/cooler in good condition? | Yes ☑ | No ☐ | |
| 5. | Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact) | Yes ☐ | No ☐ | Not Required ☑ |
| 6. | Was an attempt made to cool the samples? | Yes ☐ | No ☐ | NA ☑ |
| 7. | Were all items received at a temperature of >0°C to 10.0°C* | Yes ☐ | No ☐ | NA ☑ |
| 8. | Sample(s) in proper container(s)? | Yes ☑ | No ☐ | |
| 9. | Sufficient sample volume for indicated test(s)? | Yes ☑ | No ☐ | |
| 10. | Are samples properly preserved? | Yes ☑ | No ☐ | |
| 11. | Was preservative added to bottles? | Yes ☐ | No ☑ | NA ☐ |
| 12. | Is there headspace in the VOA vials? | Yes ☐ | No ☐ | NA ☑ |
| 13. | Did all samples containers arrive in good condition(unbroken)? | Yes ☑ | No ☐ | |
| 14. | Does paperwork match bottle labels? | Yes ☑ | No ☐ | |
| 15. | Are matrices correctly identified on Chain of Custody? | Yes ☑ | No ☐ | |
| 16. | Is it clear what analyses were requested? | Yes ☑ | No ☐ | |
| 17. | Were all holding times able to be met? | Yes ☑ | No ☐ | |

## *Special Handling (if applicable)*

| | | | | |
|---|---|---|---|---|
| 18. | Was client notified of all discrepancies with this order? | Yes ☐ | No ☐ | NA ☑ |

| | | | |
|---|---|---|---|
| Person Notified: | | Date | |
| By Whom: | | Via: | ☐ eMail ☐ Phone ☐ Fax ☐ In Person |
| Regarding: | | | |
| Client Instructions: | | | |

19. Additional remarks:

**Item Information**

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

# Air Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Date: 7/24/18 Page: 1 of: 1

Laboratory Project No (Internal): 1907309

Project Name: 6400.4 / WA Industries

Special Remarks: Provide EDD

Project No: 6400.4

Client: EPI

Address: 1180 NW Maple St.

Location: 825 S. Dakota St., Seattle, WA

City, State, Zip: Issaquah, WA 98027

Collected by: J. Sherrod

Telephone: 425-395-0010

Reports to (PM): Sean Trimble

Air samples are disposed of one week after report is submitted to client unless otherwise requested. ☐ OK to Dispose ☐ Hold (fees may apply)

Fax:

Email (PM): sean@epi-wa.com

| | Sample Name | Canister / Flow Reg Serial # | Sample Date & Time | Sample Type (Matrix) * | Container Type ** | Fill Time / Flow Rate | Internal: Initial Evacuation Pressure (mtorr) | Field Initial Sample Pressure (" Hg) | Field Final Sample Pressure (" Hg) | Analysis: VOCs TO15 SCAN | VOCs TO15 SCAN LL | VOCs TO15 SIM | Siloxanes TO15 | Sulfur TO15 | Sulfur Ext. TO15 | APH TO15 | Helium | Major Gases 3C | VOCs by 8260 | Comments | Internal: Final Pressure ("Hg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | AIR-EFF | / | 7/24/18 1109 | S | TB | .5 min | / | / | / | | | | | | | | | | X | | |
| 2 | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | |

* Matrix Codes: AA = Ambient Air IA = Indoor Air L = Landfill S = Subslab / Soil Gas

** Container Codes: BV = 1 Liter Bottle Vac 6L = 6L Canister 1L = 1L Canister CYL = High Pressure Cylinder F = Filter S = Sorbent Tube TB = Tedlar Bag

**I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.**

| Relinquished | Date/Time | Received | Date/Time |
|---|---|---|---|
| x | 7/24/18 / 1243 | x | 7/24/18 1243 |
| Relinquished | Date/Time | Received | Date/Time |
| x | | x | |

**Turn-Around Time:**

- ☑ Standard
- ☐ 3 Day
- ☐ 2 Day
- ☐ Next Day
- Same Day _____ (specify)

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

**Environmental Partners, Inc.**
Sean Trimble
1180 NW Maple Street, Suite 310
Issaquah, WA 98027

**RE: WA Industries**
**Work Order Number: 1810123**

October 12, 2018

**Attention Sean Trimble:**

Fremont Analytical, Inc. received 1 sample(s) on 10/5/2018 for the analyses presented in the following report.

***Volatile Organic Compounds by EPA Method 8260C***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director

**CC:**
Joe Sherrod

**Date:** *10/12/2018*

**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries
**Work Order:** 1810123

# Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---|---|---|---|
| 1810123-001 | AIR-EFF | 10/05/2018 8:10 AM | 10/05/2018 10:40 AM |

# Case Narrative

WO#: **1810123**
Date: **10/12/2018**

**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

WorkOrder Narrative:
I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

**Client:** Environmental Partners, Inc. **Collection Date:** 10/5/2018 8:10:00 AM
**Project:** WA Industries
**Lab ID:** 1810123-001 **Matrix:** Air
**Client Sample ID:** **AIR-EFF**

## Volatile Organic Compounds by EPA Method 8260C

Batch ID: 22214 Analyst: TN

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| Chloromethane | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| Vinyl chloride | ND | 0.0200 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| Bromomethane | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| Chloroethane | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| 1,1-Dichloroethene | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| Methylene chloride | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| trans-1,2-Dichloroethene | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| 1,1-Dichloroethane | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| 2,2-Dichloropropane | ND | 0.200 | Q | µg/L | 1 | 10/6/2018 4:18:11 PM |
| cis-1,2-Dichloroethene | 0.752 | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| Chloroform | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| 1,1-Dichloropropene | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| Carbon tetrachloride | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| Benzene | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| Trichloroethene (TCE) | 16.4 | 1.00 | DH | µg/L | 20 | 10/9/2018 1:28:00 PM |
| Trichloroethene (TCE) | 17.8 | 0.0500 | E | µg/L | 1 | 10/6/2018 4:18:11 PM |
| 1,2-Dichloropropane | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| Bromodichloromethane | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| Dibromomethane | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| cis-1,3-Dichloropropene | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| Toluene | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| trans-1,3-Dichloropropylene | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| 1,1,2-Trichloroethane | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| 1,3-Dichloropropane | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| Tetrachloroethene (PCE) | 0.648 | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| Dibromochloromethane | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| Chlorobenzene | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| Ethylbenzene | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| m,p-Xylene | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| o-Xylene | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| Styrene | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| Isopropylbenzene | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |

# Analytical Report

Work Order: **1810123**
Date Reported: **10/12/2018**

**Client:** Environmental Partners, Inc.
**Collection Date:** 10/5/2018 8:10:00 AM
**Project:** WA Industries
**Lab ID:** 1810123-001
**Matrix:** Air
**Client Sample ID:** **AIR-EFF**

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA Method 8260C** | | | | Batch ID: 22214 | | Analyst: TN |
| Bromoform | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| n-Propylbenzene | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| Bromobenzene | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| 2-Chlorotoluene | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| 4-Chlorotoluene | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| tert-Butylbenzene | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| 1,2,3-Trichloropropane | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| sec-Butylbenzene | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| 4-Isopropyltoluene | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| 1,3-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| 1,4-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| n-Butylbenzene | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| 1,2-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| Hexachlorobutadiene | ND | 0.400 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| Naphthalene | ND | 0.100 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | µg/L | 1 | 10/6/2018 4:18:11 PM |
| Surr: Dibromofluoromethane | 112 | 56.4 - 141 | | %Rec | 1 | 10/6/2018 4:18:11 PM |
| Surr: Toluene-d8 | 98.9 | 66 - 138 | | %Rec | 1 | 10/6/2018 4:18:11 PM |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 97.6 | 64.7 - 128 | | %Rec | 1 | 10/6/2018 4:18:11 PM |

**NOTES:**
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift)
E - Estimated value. The amount exceeds the linear working range of the instrument.

**Work Order:** 1810123
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID: **1810124-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **10/6/2018** RunNo: **46816**
Client ID: **BATCH** Batch ID: **22214** Analysis Date: **10/6/2018** SeqNo: **910658**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Vinyl chloride | ND | 0.0200 | | | | | | 0 | | 30 | |
| Bromomethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Methylene chloride | ND | 0.100 | | | | | | 0 | | 30 | |
| trans-1,2-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 2,2-Dichloropropane | ND | 0.200 | | | | | | 0 | | 30 | Q |
| cis-1,2-Dichloroethene | 0.464 | 0.100 | | | | | | 0.4541 | 2.07 | 30 | |
| Chloroform | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloropropene | ND | 0.100 | | | | | | 0 | | 30 | |
| Carbon tetrachloride | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | | | | | 0 | | 30 | |
| Benzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Trichloroethene (TCE) | 4.30 | 0.0500 | | | | | | 4.955 | 14.1 | 30 | E |
| 1,2-Dichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromodichloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Dibromomethane | ND | 0.100 | | | | | | 0 | | 30 | |
| cis-1,3-Dichloropropene | ND | 0.100 | | | | | | 0 | | 30 | |
| Toluene | ND | 0.100 | | | | | | 0 | | 30 | |
| trans-1,3-Dichloropropylene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,2-Trichloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3-Dichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| Tetrachloroethene (PCE) | 0.402 | 0.100 | | | | | | 0.3784 | 6.10 | 30 | |
| Dibromochloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | | | | | 0 | | 30 | |

**Work Order:** 1810123
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID: **1810124-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **10/6/2018** RunNo: **46816**
Client ID: **BATCH** Batch ID: **22214** Analysis Date: **10/6/2018** SeqNo: **910658**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Ethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| m,p-Xylene | ND | 0.100 | | | | | | 0 | | 30 | |
| o-Xylene | ND | 0.100 | | | | | | 0 | | 30 | |
| Styrene | ND | 0.100 | | | | | | 0 | | 30 | |
| Isopropylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromoform | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| n-Propylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 2-Chlorotoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| 4-Chlorotoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| tert-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,3-Trichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | | | | | 0 | | 30 | |
| sec-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 4-Isopropyltoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,4-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| n-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Hexachlorobutadiene | ND | 0.400 | | | | | | 0 | | 30 | |
| Naphthalene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | | | | | 0 | | 30 | |
| Surr: Dibromofluoromethane | 2.54 | | 2.500 | | 101 | 61.1 | 128 | | 0 | | |
| Surr: Toluene-d8 | 3.00 | | 2.500 | | 120 | 68.2 | 129 | | 0 | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.45 | | 2.500 | | 97.8 | 64.7 | 128 | | 0 | | |

**Work Order:** 1810123
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID: **1810124-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **10/6/2018** RunNo: **46816**
Client ID: **BATCH** Batch ID: **22214** Analysis Date: **10/6/2018** SeqNo: **910658**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|

**NOTES:**
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift)
E - Estimated value. The amount exceeds the linear working range of the instrument.

Sample ID: **LCS-22214** SampType: **LCS** Units: **µg/L** Prep Date: **10/6/2018** RunNo: **46816**
Client ID: **LCSW** Batch ID: **22214** Analysis Date: **10/6/2018** SeqNo: **910662**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 2.26 | 0.100 | 2.000 | 0 | 113 | 38.8 | 143 | | | | |
| Chloromethane | 2.18 | 0.100 | 2.000 | 0 | 109 | 42.5 | 131 | | | | |
| Vinyl chloride | 2.17 | 0.0200 | 2.000 | 0 | 108 | 56.2 | 130 | | | | |
| Bromomethane | 2.19 | 0.100 | 2.000 | 0 | 110 | 45.4 | 138 | | | | |
| Trichlorofluoromethane (CFC-11) | 2.15 | 0.100 | 2.000 | 0 | 108 | 64.7 | 129 | | | | |
| Chloroethane | 2.21 | 0.100 | 2.000 | 0 | 110 | 62.5 | 123 | | | | |
| 1,1-Dichloroethene | 2.17 | 0.100 | 2.000 | 0 | 109 | 60.7 | 146 | | | | |
| Methylene chloride | 1.97 | 0.100 | 2.000 | 0 | 98.4 | 60.3 | 135 | | | | |
| trans-1,2-Dichloroethene | 1.93 | 0.100 | 2.000 | 0 | 96.3 | 71.3 | 129 | | | | |
| Methyl tert-butyl ether (MTBE) | 1.78 | 0.100 | 2.000 | 0 | 89.0 | 59.3 | 138 | | | | |
| 1,1-Dichloroethane | 1.83 | 0.100 | 2.000 | 0 | 91.3 | 71.3 | 129 | | | | |
| 2,2-Dichloropropane | 2.04 | 0.200 | 2.000 | 0 | 102 | 37.8 | 132 | | | | |
| cis-1,2-Dichloroethene | 1.91 | 0.100 | 2.000 | 0 | 95.7 | 67.5 | 127 | | | | |
| Chloroform | 1.80 | 0.100 | 2.000 | 0 | 90.2 | 70.3 | 123 | | | | |
| 1,1,1-Trichloroethane (TCA) | 1.84 | 0.100 | 2.000 | 0 | 92.0 | 67.9 | 134 | | | | |
| 1,1-Dichloropropene | 1.74 | 0.100 | 2.000 | 0 | 87.1 | 72.1 | 133 | | | | |
| Carbon tetrachloride | 1.83 | 0.100 | 2.000 | 0 | 91.7 | 64.4 | 133 | | | | |
| 1,2-Dichloroethane (EDC) | 1.79 | 0.100 | 2.000 | 0 | 89.5 | 65.8 | 126 | | | | |
| Benzene | 1.87 | 0.100 | 2.000 | 0 | 93.6 | 67.1 | 132 | | | | |
| Trichloroethene (TCE) | 2.03 | 0.0500 | 2.000 | 0 | 102 | 71.9 | 130 | | | | |
| 1,2-Dichloropropane | 2.26 | 0.100 | 2.000 | 0 | 113 | 71.9 | 131 | | | | |
| Bromodichloromethane | 2.32 | 0.100 | 2.000 | 0 | 116 | 70 | 130 | | | | |
| Dibromomethane | 2.20 | 0.100 | 2.000 | 0 | 110 | 74.2 | 125 | | | | |

**Work Order:** 1810123
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID: **LCS-22214** SampType: **LCS** Units: **µg/L** Prep Date: **10/6/2018** RunNo: **46816**
Client ID: **LCSW** Batch ID: **22214** Analysis Date: **10/6/2018** SeqNo: **910662**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | 2.52 | 0.100 | 2.000 | 0 | 126 | 62.8 | 135 | | | | |
| Toluene | 2.32 | 0.100 | 2.000 | 0 | 116 | 73.6 | 127 | | | | |
| trans-1,3-Dichloropropylene | 2.02 | 0.100 | 2.000 | 0 | 101 | 58.1 | 138 | | | | |
| 1,1,2-Trichloroethane | 2.03 | 0.100 | 2.000 | 0 | 101 | 65.4 | 128 | | | | |
| 1,3-Dichloropropane | 2.00 | 0.100 | 2.000 | 0 | 100 | 71.9 | 131 | | | | |
| Tetrachloroethene (PCE) | 2.14 | 0.100 | 2.000 | 0 | 107 | 52.4 | 140 | | | | |
| Dibromochloromethane | 2.05 | 0.100 | 2.000 | 0 | 102 | 68.7 | 139 | | | | |
| 1,2-Dibromoethane (EDB) | 1.99 | 0.0250 | 2.000 | 0 | 99.6 | 71.2 | 129 | | | | |
| Chlorobenzene | 2.01 | 0.100 | 2.000 | 0 | 100 | 77.2 | 122 | | | | |
| 1,1,1,2-Tetrachloroethane | 2.01 | 0.100 | 2.000 | 0 | 100 | 76.2 | 130 | | | | |
| Ethylbenzene | 2.08 | 0.100 | 2.000 | 0 | 104 | 78 | 127 | | | | |
| m,p-Xylene | 4.09 | 0.100 | 4.000 | 0 | 102 | 77.5 | 130 | | | | |
| o-Xylene | 2.02 | 0.100 | 2.000 | 0 | 101 | 77.6 | 126 | | | | |
| Styrene | 2.05 | 0.100 | 2.000 | 0 | 102 | 66.8 | 137 | | | | |
| Isopropylbenzene | 2.08 | 0.100 | 2.000 | 0 | 104 | 75.9 | 133 | | | | |
| Bromoform | 1.94 | 0.100 | 2.000 | 0 | 97.0 | 54.1 | 146 | | | | |
| 1,1,2,2-Tetrachloroethane | 1.95 | 0.100 | 2.000 | 0 | 97.6 | 68 | 134 | | | | |
| n-Propylbenzene | 2.18 | 0.100 | 2.000 | 0 | 109 | 77.1 | 133 | | | | |
| Bromobenzene | 2.00 | 0.100 | 2.000 | 0 | 100 | 71.1 | 131 | | | | |
| 1,3,5-Trimethylbenzene | 2.08 | 0.100 | 2.000 | 0 | 104 | 76.2 | 133 | | | | |
| 2-Chlorotoluene | 2.34 | 0.100 | 2.000 | 0 | 117 | 67.1 | 137 | | | | |
| 4-Chlorotoluene | 2.07 | 0.100 | 2.000 | 0 | 103 | 70.7 | 132 | | | | |
| tert-Butylbenzene | 2.03 | 0.100 | 2.000 | 0 | 102 | 71.3 | 139 | | | | |
| 1,2,3-Trichloropropane | 1.95 | 0.100 | 2.000 | 0 | 97.7 | 70.8 | 132 | | | | |
| 1,2,4-Trichlorobenzene | 2.01 | 0.200 | 2.000 | 0 | 100 | 61.4 | 139 | | | | |
| sec-Butylbenzene | 2.11 | 0.100 | 2.000 | 0 | 106 | 77.4 | 136 | | | | |
| 4-Isopropyltoluene | 2.09 | 0.100 | 2.000 | 0 | 104 | 78.1 | 131 | | | | |
| 1,3-Dichlorobenzene | 2.09 | 0.100 | 2.000 | 0 | 104 | 73.5 | 125 | | | | |
| 1,4-Dichlorobenzene | 2.17 | 0.100 | 2.000 | 0 | 108 | 71.4 | 125 | | | | |
| n-Butylbenzene | 2.16 | 0.100 | 2.000 | 0 | 108 | 69.8 | 138 | | | | |
| 1,2-Dichlorobenzene | 2.05 | 0.100 | 2.000 | 0 | 102 | 74.2 | 123 | | | | |

**Work Order:** 1810123
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID: **LCS-22214** SampType: **LCS** Units: **µg/L** Prep Date: **10/6/2018** RunNo: **46816**
Client ID: **LCSW** Batch ID: **22214** Analysis Date: **10/6/2018** SeqNo: **910662**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-chloropropane | 1.95 | 0.100 | 2.000 | 0 | 97.4 | 53.6 | 155 | | | | |
| 1,2,4-Trimethylbenzene | 2.08 | 0.100 | 2.000 | 0 | 104 | 72.3 | 133 | | | | |
| Hexachlorobutadiene | 2.16 | 0.400 | 2.000 | 0 | 108 | 60.9 | 141 | | | | |
| Naphthalene | 1.81 | 0.100 | 2.000 | 0 | 90.7 | 58.2 | 140 | | | | |
| 1,2,3-Trichlorobenzene | 1.98 | 0.400 | 2.000 | 0 | 98.9 | 61.3 | 133 | | | | |
| Surr: Dibromofluoromethane | 2.34 | | 2.500 | | 93.7 | 56.4 | 141 | | | | |
| Surr: Toluene-d8 | 2.96 | | 2.500 | | 118 | 66 | 138 | | | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.53 | | 2.500 | | 101 | 64.7 | 128 | | | | |

Sample ID: **MB-22214** SampType: **MBLK** Units: **µg/L** Prep Date: **10/6/2018** RunNo: **46816**
Client ID: **MBLKW** Batch ID: **22214** Analysis Date: **10/6/2018** SeqNo: **910663**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | | | | | | | | |
| Chloromethane | ND | 0.100 | | | | | | | | | |
| Vinyl chloride | ND | 0.0200 | | | | | | | | | |
| Bromomethane | ND | 0.100 | | | | | | | | | |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | | | | | | | | |
| Chloroethane | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Methylene chloride | ND | 0.100 | | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.100 | | | | | | | | | |
| 2,2-Dichloropropane | ND | 0.200 | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Chloroform | ND | 0.100 | | | | | | | | | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.100 | | | | | | | | | |
| Carbon tetrachloride | ND | 0.100 | | | | | | | | | |

**Work Order:** 1810123
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID: **MB-22214** SampType: **MBLK** Units: **µg/L** Prep Date: **10/6/2018** RunNo: **46816**
Client ID: **MBLKW** Batch ID: **22214** Analysis Date: **10/6/2018** SeqNo: **910663**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | | | | | | | | |
| Benzene | ND | 0.100 | | | | | | | | | |
| Trichloroethene (TCE) | ND | 0.0500 | | | | | | | | | |
| 1,2-Dichloropropane | ND | 0.100 | | | | | | | | | |
| Bromodichloromethane | ND | 0.100 | | | | | | | | | |
| Dibromomethane | ND | 0.100 | | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.100 | | | | | | | | | |
| Toluene | ND | 0.100 | | | | | | | | | |
| trans-1,3-Dichloropropylene | ND | 0.100 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.100 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 0.100 | | | | | | | | | |
| Tetrachloroethene (PCE) | ND | 0.100 | | | | | | | | | |
| Dibromochloromethane | ND | 0.100 | | | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | | | | | | | | |
| Chlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | | | | | | | | |
| Ethylbenzene | ND | 0.100 | | | | | | | | | |
| m,p-Xylene | ND | 0.100 | | | | | | | | | |
| o-Xylene | ND | 0.100 | | | | | | | | | |
| Styrene | ND | 0.100 | | | | | | | | | |
| Isopropylbenzene | ND | 0.100 | | | | | | | | | |
| Bromoform | ND | 0.100 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | | | | | | | | |
| n-Propylbenzene | ND | 0.100 | | | | | | | | | |
| Bromobenzene | ND | 0.100 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | | | | | | | | |
| 2-Chlorotoluene | ND | 0.100 | | | | | | | | | |
| 4-Chlorotoluene | ND | 0.100 | | | | | | | | | |
| tert-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.100 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | | | | | | | | |

**Work Order:** 1810123
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID: **MB-22214** SampType: **MBLK** Units: **µg/L** Prep Date: **10/6/2018** RunNo: **46816**
Client ID: **MBLKW** Batch ID: **22214** Analysis Date: **10/6/2018** SeqNo: **910663**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 4-Isopropyltoluene | ND | 0.100 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| n-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | | | | | | | | |
| Hexachlorobutadiene | ND | 0.400 | | | | | | | | | |
| Naphthalene | ND | 0.100 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | | | | | | | | |
| Surr: Dibromofluoromethane | 2.64 | | 2.500 | | 105 | 56.4 | 141 | | | | |
| Surr: Toluene-d8 | 3.01 | | 2.500 | | 120 | 66 | 138 | | | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.25 | | 2.500 | | 90.1 | 64.7 | 128 | | | | |

# Sample Log-In Check List

| | | | |
|---|---|---|---|
| Client Name: | **EPI** | Work Order Number: | **1810123** |
| Logged by: | **Brianna Barnes** | Date Received: | **10/5/2018 10:40:00 AM** |

## *Chain of Custody*

| | | | | |
|---|---|---|---|---|
| 1. | Is Chain of Custody complete? | Yes ☑ | No ☐ | Not Present ☐ |
| 2. | How was the sample delivered? | Client | | |

## *Log In*

| | | | | |
|---|---|---|---|---|
| 3. | Coolers are present? | Yes ☐ | No ☑ | NA ☐ |
| | | **Air samples.** | | |
| 4. | Shipping container/cooler in good condition? | Yes ☑ | No ☐ | |
| 5. | Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact) | Yes ☐ | No ☐ | Not Required ☑ |
| 6. | Was an attempt made to cool the samples? | Yes ☐ | No ☐ | NA ☑ |
| 7. | Were all items received at a temperature of >0°C to 10.0°C * | Yes ☐ | No ☐ | NA ☑ |
| 8. | Sample(s) in proper container(s)? | Yes ☑ | No ☐ | |
| 9. | Sufficient sample volume for indicated test(s)? | Yes ☑ | No ☐ | |
| 10. | Are samples properly preserved? | Yes ☑ | No ☐ | |
| 11. | Was preservative added to bottles? | Yes ☐ | No ☑ | NA ☐ |
| 12. | Is there headspace in the VOA vials? | Yes ☐ | No ☐ | NA ☑ |
| 13. | Did all samples containers arrive in good condition(unbroken)? | Yes ☑ | No ☐ | |
| 14. | Does paperwork match bottle labels? | Yes ☑ | No ☐ | |
| 15. | Are matrices correctly identified on Chain of Custody? | Yes ☑ | No ☐ | |
| 16. | Is it clear what analyses were requested? | Yes ☑ | No ☐ | |
| 17. | Were all holding times able to be met? | Yes ☑ | No ☐ | |

## *Special Handling (if applicable)*

| | | | | |
|---|---|---|---|---|
| 18. | Was client notified of all discrepancies with this order? | Yes ☐ | No ☐ | NA ☑ |

| | | | |
|---|---|---|---|
| Person Notified: | | Date: | |
| By Whom: | | Via: | ☐ eMail ☐ Phone ☐ Fax ☐ In Person |
| Regarding: | | | |
| Client Instructions: | | | |

19. Additional remarks:

**Item Information**

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

# Air Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Date: 10/5/18 Page: 1 of: 1

Laboratory Project No (Internal): 1810123

Project Name: WA Industries

Special Remarks: Provide Edd table

Client: EPI

Project No: 64001.4

Address: 1180 NW Maple St.

Location: 825 S. Dakota St. Seattle, WA

City, State, Zip: Issaquah, WA 98027

Collected by: J. Sherrod

Telephone: 425-395-0010

Reports to (PM): Sean Trimble / Joe Sherrod

Air samples are disposed of one week after report is submitted to client unless otherwise requested. ☐ OK to Dispose ☐ Hold (fees may apply)

Fax:

Email (PM): seant@epi-wa.com

| | Sample Name | Canister / Flow Reg Serial # | Sample Date & Time | Sample Type (Matrix) * | Container Type ** | Fill Time / Flow Rate | Internal: Initial Evacuation Pressure (mtorr) | Field Initial Sample Pressure (" Hg) | Field Final Sample Pressure (" Hg) | Analysis: VOCs TO15 SCAN | VOCs TO15 SCAN LL | VOCs TO15 SIM | Siloxanes TO15 | Sulfur TO15 | Sulfur Ext. TO15 | APH TO15 | Helium | Major Gases 3C | VOCs by 8260C | Comments | Internal: Final Pressure ("Hg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | AIR-EFF | / | 10/5/18 0810 | S | TB | .5 min | | / | / | | | | | | | | | | X | | |
| 2 | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | |

* Matrix Codes: AA = Ambient Air IA = Indoor Air L = Landfill S = Subslab / Soil Gas

** Container Codes: BV = 1 Liter Bottle Vac 6L = 6L Canister 1L = 1L Canister CYL = High Pressure Cylinder F = Filter S = Sorbent Tube TB = Tedlar Bag

**I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.**

| Relinquished | Date/Time | Received | Date/Time |
|---|---|---|---|
| x | 10/5/18 / 1040 | x | 10/5/18 1040 |
| Relinquished | Date/Time | Received | Date/Time |
| x | | x | |

**Turn-Around Time:**

- ☑ Standard
- ☐ 3 Day
- ☐ 2 Day
- ☐ Next Day
- Same Day _____ (specify)

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

**Environmental Partners, Inc.**
Sean Trimble
1180 NW Maple Street, Suite 310
Issaquah, WA 98027

**RE: WA Industries**
**Work Order Number: 1811023**

November 07, 2018

**Attention Sean Trimble:**

Fremont Analytical, Inc. received 1 sample(s) on 11/2/2018 for the analyses presented in the following report.

***Volatile Organic Compounds by EPA Method 8260C***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director

**CC:**
Joe Sherrod

**Date:** *11/07/2018*

**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries
**Work Order:** 1811023

# Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---|---|---|---|
| 1811023-001 | AIR-EFF | 11/02/2018 8:10 AM | 11/02/2018 9:53 AM |

# Case Narrative

WO#: **1811023**
Date: **11/7/2018**

**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

WorkOrder Narrative:
I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

**Client:** Environmental Partners, Inc. **Collection Date:** 11/2/2018 8:10:00 AM
**Project:** WA Industries
**Lab ID:** 1811023-001 **Matrix:** Air
**Client Sample ID:** **AIR-EFF**

## Volatile Organic Compounds by EPA Method 8260C

Batch ID: 22497 Analyst: KT

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| Chloromethane | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| Vinyl chloride | ND | 0.0200 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| Bromomethane | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| Chloroethane | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| 1,1-Dichloroethene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| Methylene chloride | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| trans-1,2-Dichloroethene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| 1,1-Dichloroethane | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| 2,2-Dichloropropane | ND | 0.200 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| cis-1,2-Dichloroethene | 0.348 | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| Chloroform | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| 1,1-Dichloropropene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| Carbon tetrachloride | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| Benzene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| Trichloroethene (TCE) | 10.8 | 1.00 | D | µg/L | 20 | 11/2/2018 2:18:56 PM |
| 1,2-Dichloropropane | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| Bromodichloromethane | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| Dibromomethane | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| cis-1,3-Dichloropropene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| Toluene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| trans-1,3-Dichloropropylene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| 1,1,2-Trichloroethane | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| 1,3-Dichloropropane | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| Tetrachloroethene (PCE) | 0.346 | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| Dibromochloromethane | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| Chlorobenzene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| Ethylbenzene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| m,p-Xylene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| o-Xylene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| Styrene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| Isopropylbenzene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| Bromoform | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |

# Analytical Report

Work Order: **1811023**
Date Reported: **11/7/2018**

**Client:** Environmental Partners, Inc. **Collection Date:** 11/2/2018 8:10:00 AM
**Project:** WA Industries
**Lab ID:** 1811023-001 **Matrix:** Air
**Client Sample ID:** **AIR-EFF**

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA Method 8260C** | | | | Batch ID: 22497 | | Analyst: KT |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| n-Propylbenzene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| Bromobenzene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| 2-Chlorotoluene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| 4-Chlorotoluene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| tert-Butylbenzene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| 1,2,3-Trichloropropane | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| sec-Butylbenzene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| 4-Isopropyltoluene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| 1,3-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| 1,4-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| n-Butylbenzene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| 1,2-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| Hexachlorobutadiene | ND | 0.400 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| Naphthalene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | µg/L | 1 | 11/2/2018 3:20:01 PM |
| Surr: Dibromofluoromethane | 100 | 56.4 - 141 | | %Rec | 1 | 11/2/2018 3:20:01 PM |
| Surr: Toluene-d8 | 104 | 66 - 138 | | %Rec | 1 | 11/2/2018 3:20:01 PM |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 99.6 | 64.7 - 128 | | %Rec | 1 | 11/2/2018 3:20:01 PM |

**Work Order:** 1811023
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1810486-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **11/2/2018** RunNo: **47388**
Client ID: **BATCH** Batch ID: **22497** Analysis Date: **11/2/2018** SeqNo: **922897**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Vinyl chloride | ND | 0.0200 | | | | | | 0 | | 30 | |
| Bromomethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Methylene chloride | ND | 0.100 | | | | | | 0 | | 30 | |
| trans-1,2-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 2,2-Dichloropropane | ND | 0.200 | | | | | | 0 | | 30 | |
| cis-1,2-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloroform | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloropropene | ND | 0.100 | | | | | | 0 | | 30 | |
| Carbon tetrachloride | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | | | | | 0 | | 30 | |
| Benzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Trichloroethene (TCE) | ND | 0.0500 | | | | | | 0 | | 30 | |
| 1,2-Dichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromodichloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Dibromomethane | ND | 0.100 | | | | | | 0 | | 30 | |
| cis-1,3-Dichloropropene | ND | 0.100 | | | | | | 0 | | 30 | |
| Toluene | ND | 0.100 | | | | | | 0 | | 30 | |
| trans-1,3-Dichloropropylene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,2-Trichloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3-Dichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| Tetrachloroethene (PCE) | 29.3 | 0.100 | | | | | | 32.78 | 11.2 | 30 | E |
| Dibromochloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | | | | | 0 | | 30 | |

**Work Order:** 1811023
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1810486-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **11/2/2018** RunNo: **47388**
Client ID: **BATCH** Batch ID: **22497** Analysis Date: **11/2/2018** SeqNo: **922897**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Ethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| m,p-Xylene | ND | 0.100 | | | | | | 0 | | 30 | |
| o-Xylene | ND | 0.100 | | | | | | 0 | | 30 | |
| Styrene | ND | 0.100 | | | | | | 0 | | 30 | |
| Isopropylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromoform | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| n-Propylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 2-Chlorotoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| 4-Chlorotoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| tert-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,3-Trichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | | | | | 0 | | 30 | |
| sec-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 4-Isopropyltoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,4-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| n-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Hexachlorobutadiene | ND | 0.400 | | | | | | 0 | | 30 | |
| Naphthalene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | | | | | 0 | | 30 | |
| Surr: Dibromofluoromethane | 2.61 | | 2.500 | | 104 | 61.1 | 128 | | 0 | | |
| Surr: Toluene-d8 | 2.56 | | 2.500 | | 103 | 68.2 | 129 | | 0 | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.51 | | 2.500 | | 100 | 64.7 | 128 | | 0 | | |

**Work Order:** 1811023
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1810486-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **11/2/2018** RunNo: **47388**
Client ID: **BATCH** Batch ID: **22497** Analysis Date: **11/2/2018** SeqNo: **922897**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|

**NOTES:**
E - Estimated value. The amount exceeds the linear working range of the instrument.

Sample ID **MB-22497** SampType: **MBLK** Units: **µg/L** Prep Date: **11/2/2018** RunNo: **47388**
Client ID: **MBLKW** Batch ID: **22497** Analysis Date: **11/2/2018** SeqNo: **922908**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | | | | | | | | |
| Chloromethane | ND | 0.100 | | | | | | | | | |
| Vinyl chloride | ND | 0.0200 | | | | | | | | | |
| Bromomethane | ND | 0.100 | | | | | | | | | |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | | | | | | | | |
| Chloroethane | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Methylene chloride | ND | 0.100 | | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.100 | | | | | | | | | |
| 2,2-Dichloropropane | ND | 0.200 | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Chloroform | ND | 0.100 | | | | | | | | | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.100 | | | | | | | | | |
| Carbon tetrachloride | ND | 0.100 | | | | | | | | | |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | | | | | | | | |
| Benzene | ND | 0.100 | | | | | | | | | |
| Trichloroethene (TCE) | ND | 0.0500 | | | | | | | | | |
| 1,2-Dichloropropane | ND | 0.100 | | | | | | | | | |
| Bromodichloromethane | ND | 0.100 | | | | | | | | | |
| Dibromomethane | ND | 0.100 | | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.100 | | | | | | | | | |

**Work Order:** 1811023
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **MB-22497** SampType: **MBLK** Units: **µg/L** Prep Date: **11/2/2018** RunNo: **47388**
Client ID: **MBLKW** Batch ID: **22497** Analysis Date: **11/2/2018** SeqNo: **922908**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Toluene | ND | 0.100 | | | | | | | | | |
| trans-1,3-Dichloropropylene | ND | 0.100 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.100 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 0.100 | | | | | | | | | |
| Tetrachloroethene (PCE) | ND | 0.100 | | | | | | | | | |
| Dibromochloromethane | ND | 0.100 | | | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | | | | | | | | |
| Chlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | | | | | | | | |
| Ethylbenzene | ND | 0.100 | | | | | | | | | |
| m,p-Xylene | ND | 0.100 | | | | | | | | | |
| o-Xylene | ND | 0.100 | | | | | | | | | |
| Styrene | ND | 0.100 | | | | | | | | | |
| Isopropylbenzene | ND | 0.100 | | | | | | | | | |
| Bromoform | ND | 0.100 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | | | | | | | | |
| n-Propylbenzene | ND | 0.100 | | | | | | | | | |
| Bromobenzene | ND | 0.100 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | | | | | | | | |
| 2-Chlorotoluene | ND | 0.100 | | | | | | | | | |
| 4-Chlorotoluene | ND | 0.100 | | | | | | | | | |
| tert-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.100 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | | | | | | | | |
| sec-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 4-Isopropyltoluene | ND | 0.100 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| n-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | | | | | | | | |

**Work Order:** 1811023
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **MB-22497** SampType: **MBLK** Units: **µg/L** Prep Date: **11/2/2018** RunNo: **47388**
Client ID: **MBLKW** Batch ID: **22497** Analysis Date: **11/2/2018** SeqNo: **922908**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | ND | 0.100 | | | | | | | | | |
| Hexachlorobutadiene | ND | 0.400 | | | | | | | | | |
| Naphthalene | ND | 0.100 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | | | | | | | | |
| Surr: Dibromofluoromethane | 2.53 | | 2.500 | | 101 | 56.4 | 141 | | | | |
| Surr: Toluene-d8 | 2.55 | | 2.500 | | 102 | 66 | 138 | | | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.50 | | 2.500 | | 99.9 | 64.7 | 128 | | | | |

Sample ID **LCS-22497** SampType: **LCS** Units: **µg/L** Prep Date: **11/2/2018** RunNo: **47388**
Client ID: **LCSW** Batch ID: **22497** Analysis Date: **11/2/2018** SeqNo: **922907**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 2.43 | 0.100 | 2.000 | 0 | 122 | 38.8 | 143 | | | | |
| Chloromethane | 2.18 | 0.100 | 2.000 | 0 | 109 | 42.5 | 131 | | | | |
| Vinyl chloride | 2.39 | 0.0200 | 2.000 | 0 | 119 | 56.2 | 130 | | | | |
| Bromomethane | 3.21 | 0.100 | 2.000 | 0 | 160 | 45.4 | 138 | | | | S |
| Trichlorofluoromethane (CFC-11) | 2.10 | 0.100 | 2.000 | 0 | 105 | 64.7 | 129 | | | | |
| Chloroethane | 2.36 | 0.100 | 2.000 | 0 | 118 | 62.5 | 123 | | | | |
| 1,1-Dichloroethene | 2.19 | 0.100 | 2.000 | 0 | 109 | 60.7 | 146 | | | | |
| Methylene chloride | 2.28 | 0.100 | 2.000 | 0 | 114 | 60.3 | 135 | | | | |
| trans-1,2-Dichloroethene | 2.23 | 0.100 | 2.000 | 0 | 112 | 71.3 | 129 | | | | |
| Methyl tert-butyl ether (MTBE) | 2.32 | 0.100 | 2.000 | 0 | 116 | 59.3 | 138 | | | | |
| 1,1-Dichloroethane | 2.30 | 0.100 | 2.000 | 0 | 115 | 71.3 | 129 | | | | |
| 2,2-Dichloropropane | 2.56 | 0.200 | 2.000 | 0 | 128 | 37.8 | 132 | | | | |
| cis-1,2-Dichloroethene | 2.22 | 0.100 | 2.000 | 0 | 111 | 67.5 | 127 | | | | |
| Chloroform | 2.26 | 0.100 | 2.000 | 0 | 113 | 70.3 | 123 | | | | |
| 1,1,1-Trichloroethane (TCA) | 2.17 | 0.100 | 2.000 | 0 | 109 | 67.9 | 134 | | | | |
| 1,1-Dichloropropene | 2.28 | 0.100 | 2.000 | 0 | 114 | 72.1 | 133 | | | | |
| Carbon tetrachloride | 2.11 | 0.100 | 2.000 | 0 | 105 | 64.4 | 133 | | | | |
| 1,2-Dichloroethane (EDC) | 2.37 | 0.100 | 2.000 | 0 | 119 | 65.8 | 126 | | | | |

**Work Order:** 1811023
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-22497** SampType: **LCS** Units: **µg/L** Prep Date: **11/2/2018** RunNo: **47388**
Client ID: **LCSW** Batch ID: **22497** Analysis Date: **11/2/2018** SeqNo: **922907**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 2.27 | 0.100 | 2.000 | 0 | 114 | 67.1 | 132 | | | | |
| Trichloroethene (TCE) | 2.18 | 0.0500 | 2.000 | 0 | 109 | 71.9 | 130 | | | | |
| 1,2-Dichloropropane | 2.35 | 0.100 | 2.000 | 0 | 118 | 71.9 | 131 | | | | |
| Bromodichloromethane | 2.24 | 0.100 | 2.000 | 0 | 112 | 70 | 130 | | | | |
| Dibromomethane | 2.33 | 0.100 | 2.000 | 0 | 117 | 74.2 | 125 | | | | |
| cis-1,3-Dichloropropene | 2.30 | 0.100 | 2.000 | 0 | 115 | 62.8 | 135 | | | | |
| Toluene | 2.23 | 0.100 | 2.000 | 0 | 111 | 73.6 | 127 | | | | |
| trans-1,3-Dichloropropylene | 2.30 | 0.100 | 2.000 | 0 | 115 | 58.1 | 138 | | | | |
| 1,1,2-Trichloroethane | 2.28 | 0.100 | 2.000 | 0 | 114 | 65.4 | 128 | | | | |
| 1,3-Dichloropropane | 2.33 | 0.100 | 2.000 | 0 | 116 | 71.9 | 131 | | | | |
| Tetrachloroethene (PCE) | 2.09 | 0.100 | 2.000 | 0 | 104 | 52.4 | 140 | | | | |
| Dibromochloromethane | 2.11 | 0.100 | 2.000 | 0 | 105 | 68.7 | 139 | | | | |
| 1,2-Dibromoethane (EDB) | 2.25 | 0.0250 | 2.000 | 0 | 113 | 71.2 | 129 | | | | |
| Chlorobenzene | 2.15 | 0.100 | 2.000 | 0 | 108 | 77.2 | 122 | | | | |
| 1,1,1,2-Tetrachloroethane | 2.08 | 0.100 | 2.000 | 0 | 104 | 76.2 | 130 | | | | |
| Ethylbenzene | 2.29 | 0.100 | 2.000 | 0 | 114 | 78 | 127 | | | | |
| m,p-Xylene | 4.33 | 0.100 | 4.000 | 0 | 108 | 77.5 | 130 | | | | |
| o-Xylene | 2.14 | 0.100 | 2.000 | 0 | 107 | 77.6 | 126 | | | | |
| Styrene | 2.12 | 0.100 | 2.000 | 0 | 106 | 66.8 | 137 | | | | |
| Isopropylbenzene | 2.13 | 0.100 | 2.000 | 0 | 107 | 75.9 | 133 | | | | |
| Bromoform | 1.98 | 0.100 | 2.000 | 0 | 98.9 | 54.1 | 146 | | | | |
| 1,1,2,2-Tetrachloroethane | 2.40 | 0.100 | 2.000 | 0 | 120 | 68 | 134 | | | | |
| n-Propylbenzene | 2.15 | 0.100 | 2.000 | 0 | 107 | 77.1 | 133 | | | | |
| Bromobenzene | 2.11 | 0.100 | 2.000 | 0 | 106 | 71.1 | 131 | | | | |
| 1,3,5-Trimethylbenzene | 2.17 | 0.100 | 2.000 | 0 | 109 | 76.2 | 133 | | | | |
| 2-Chlorotoluene | 2.15 | 0.100 | 2.000 | 0 | 108 | 67.1 | 137 | | | | |
| 4-Chlorotoluene | 2.19 | 0.100 | 2.000 | 0 | 110 | 70.7 | 132 | | | | |
| tert-Butylbenzene | 2.10 | 0.100 | 2.000 | 0 | 105 | 71.3 | 139 | | | | |
| 1,2,3-Trichloropropane | 2.38 | 0.100 | 2.000 | 0 | 119 | 70.8 | 132 | | | | |
| 1,2,4-Trichlorobenzene | 2.17 | 0.200 | 2.000 | 0 | 109 | 61.4 | 139 | | | | |
| sec-Butylbenzene | 2.16 | 0.100 | 2.000 | 0 | 108 | 77.4 | 136 | | | | |

**Work Order:** 1811023
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-22497** SampType: **LCS** Units: **µg/L** Prep Date: **11/2/2018** RunNo: **47388**
Client ID: **LCSW** Batch ID: **22497** Analysis Date: **11/2/2018** SeqNo: **922907**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-Isopropyltoluene | 2.18 | 0.100 | 2.000 | 0 | 109 | 78.1 | 131 | | | | |
| 1,3-Dichlorobenzene | 2.12 | 0.100 | 2.000 | 0 | 106 | 73.5 | 125 | | | | |
| 1,4-Dichlorobenzene | 2.17 | 0.100 | 2.000 | 0 | 109 | 71.4 | 125 | | | | |
| n-Butylbenzene | 2.26 | 0.100 | 2.000 | 0 | 113 | 69.8 | 138 | | | | |
| 1,2-Dichlorobenzene | 2.19 | 0.100 | 2.000 | 0 | 110 | 74.2 | 123 | | | | |
| 1,2-Dibromo-3-chloropropane | 2.39 | 0.100 | 2.000 | 0 | 120 | 53.6 | 155 | | | | |
| 1,2,4-Trimethylbenzene | 2.18 | 0.100 | 2.000 | 0 | 109 | 72.3 | 133 | | | | |
| Hexachlorobutadiene | 2.08 | 0.400 | 2.000 | 0 | 104 | 60.9 | 141 | | | | |
| Naphthalene | 2.28 | 0.100 | 2.000 | 0 | 114 | 58.2 | 140 | | | | |
| 1,2,3-Trichlorobenzene | 2.20 | 0.400 | 2.000 | 0 | 110 | 61.3 | 133 | | | | |
| Surr: Dibromofluoromethane | 2.61 | | 2.500 | | 104 | 56.4 | 141 | | | | |
| Surr: Toluene-d8 | 2.59 | | 2.500 | | 103 | 66 | 138 | | | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.49 | | 2.500 | | 99.4 | 64.7 | 128 | | | | |

**NOTES:**
S - Outlying spike recovery observed (high bias). Samples are non-detect for this analyte; no further action required.

# Sample Log-In Check List

| | | | |
|---|---|---|---|
| Client Name: | **EPI** | Work Order Number: | **1811023** |
| Logged by: | **Brianna Barnes** | Date Received: | **11/2/2018 9:53:00 AM** |

## Chain of Custody

| | | | | |
|---|---|---|---|---|
| 1. | Is Chain of Custody complete? | Yes ☑ | No ☐ | Not Present ☐ |
| 2. | How was the sample delivered? | Client | | |

## Log In

| | | | | |
|---|---|---|---|---|
| 3. | Coolers are present? | Yes ☐ | No ☑ | NA ☐ |
| | | **Air samples.** | | |
| 4. | Shipping container/cooler in good condition? | Yes ☑ | No ☐ | |
| 5. | Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact) | Yes ☐ | No ☐ | Not Required ☑ |
| 6. | Was an attempt made to cool the samples? | Yes ☐ | No ☐ | NA ☑ |
| 7. | Were all items received at a temperature of >0°C to 10.0°C* | Yes ☐ | No ☐ | NA ☑ |
| 8. | Sample(s) in proper container(s)? | Yes ☑ | No ☐ | |
| 9. | Sufficient sample volume for indicated test(s)? | Yes ☑ | No ☐ | |
| 10. | Are samples properly preserved? | Yes ☑ | No ☐ | |
| 11. | Was preservative added to bottles? | Yes ☐ | No ☑ | NA ☐ |
| 12. | Is there headspace in the VOA vials? | Yes ☐ | No ☐ | NA ☑ |
| 13. | Did all samples containers arrive in good condition(unbroken)? | Yes ☑ | No ☐ | |
| 14. | Does paperwork match bottle labels? | Yes ☑ | No ☐ | |
| 15. | Are matrices correctly identified on Chain of Custody? | Yes ☑ | No ☐ | |
| 16. | Is it clear what analyses were requested? | Yes ☑ | No ☐ | |
| 17. | Were all holding times able to be met? | Yes ☑ | No ☐ | |

## Special Handling (if applicable)

| | | | | |
|---|---|---|---|---|
| 18. | Was client notified of all discrepancies with this order? | Yes ☐ | No ☐ | NA ☑ |

| | | | |
|---|---|---|---|
| Person Notified: | | Date | |
| By Whom: | | Via: | ☐ eMail ☐ Phone ☐ Fax ☐ In Person |
| Regarding: | | | |
| Client Instructions: | | | |

19. Additional remarks:

**Item Information**

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

# Air Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Date: 11/2/18 Page: 1 of: 1

Laboratory Project No (Internal): 1811023

Project Name: WA Industries

Special Remarks:

Project No: 64001

Client: EPI

Address: 1180 NW Maple St.

Location: 825 S. Dakota St. Seattle, WA

City, State, Zip: Issaquah, WA 98027

Collected by: J. Shemd

Telephone: 425-395-0010

Reports to (PM): Sean Trimble, Joe Shemd

Air samples are disposed of one week after report is submitted to client unless otherwise requested. ☐ OK to Dispose ☐ Hold (fees may apply)

Fax:

Email (PM): sean@epi-wa.com / joes@epi-wa.com

| | Sample Name | Canister / Flow Reg Serial # | Sample Date & Time | Sample Type (Matrix) * | Container Type ** | Fill Time / Flow Rate | Internal: Initial Evacuation Pressure (mtorr) | Internal: Field Initial Sample Pressure (" Hg) | Internal: Field Final Sample Pressure (" Hg) | Analysis: VOCs TO15 SCAN | VOCs TO15 SCAN LL | VOCs TO15 SIM | Siloxanes TO15 | Sulfur TO15 | Sulfur Ext. TO15 | APH TO15 | Helium | Major Gases 3C | VOCs by 8260 | Comments | Internal: Final Pressure ("Hg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | AIR-EFF | Canister / Flow Reg | 11/2/18 Date / 0910 Time | S | TB | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | X | | |
| 2 | | Canister / Flow Reg | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |
| 3 | | Canister / Flow Reg | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |
| 4 | | Canister / Flow Reg | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |
| 5 | | Canister / Flow Reg | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |

* Matrix Codes: AA = Ambient Air IA = Indoor Air L = Landfill S = Subslab / Soil Gas

** Container Codes: BV = 1 Liter Bottle Vac 6L = 6L Canister 1L = 1L Canister CYL = High Pressure Cylinder F = Filter S = Sorbent Tube TB = Tedlar Bag

**I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.**

| Relinquished | Date/Time | Received | Date/Time |
|---|---|---|---|
| x | 11/2/18 / 0954 | x | 11/2/18 0953 |
| Relinquished | Date/Time | Received | Date/Time |
| x | | x | |

Turn-Around Time:
- ☑ Standard
- ☐ 3 Day
- ☐ 2 Day
- ☐ Next Day
- Same Day _____ (specify)

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

**Environmental Partners, Inc.**
Sean Trimble
1180 NW Maple Street, Suite 310
Issaquah, WA 98027

**RE: WA Industries**
**Work Order Number: 1812260**

December 21, 2018

**Attention Sean Trimble:**

Fremont Analytical, Inc. received 1 sample(s) on 12/18/2018 for the analyses presented in the following report.

***Volatile Organic Compounds by EPA Method 8260C***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director

**Date:** *12/21/2018*

**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries
**Work Order:** 1812260

# Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---|---|---|---|
| 1812260-001 | AIR-EFF | 12/18/2018 12:40 PM | 12/18/2018 1:33 PM |

# Case Narrative

WO#: **1812260**
Date: **12/21/2018**

**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

WorkOrder Narrative:
I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

**Client:** Environmental Partners, Inc. **Collection Date:** 12/18/2018 12:40:00 PM
**Project:** WA Industries
**Lab ID:** 1812260-001 **Matrix:** Air
**Client Sample ID:** **AIR-EFF**

## Volatile Organic Compounds by EPA Method 8260C

Batch ID: 23020 Analyst: KT

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| Chloromethane | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| Vinyl chloride | ND | 0.0200 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| Bromomethane | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| Chloroethane | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| 1,1-Dichloroethene | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| Methylene chloride | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| trans-1,2-Dichloroethene | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| 1,1-Dichloroethane | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| 2,2-Dichloropropane | ND | 0.200 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| cis-1,2-Dichloroethene | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| Chloroform | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| 1,1-Dichloropropene | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| Carbon tetrachloride | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| Benzene | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| Trichloroethene (TCE) | 1.81 | 0.0500 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| 1,2-Dichloropropane | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| Bromodichloromethane | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| Dibromomethane | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| cis-1,3-Dichloropropene | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| Toluene | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| trans-1,3-Dichloropropylene | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| 1,1,2-Trichloroethane | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| 1,3-Dichloropropane | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| Tetrachloroethene (PCE) | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| Dibromochloromethane | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| Chlorobenzene | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| Ethylbenzene | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| m,p-Xylene | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| o-Xylene | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| Styrene | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| Isopropylbenzene | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| Bromoform | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |

# Analytical Report

Work Order: **1812260**
Date Reported: **12/21/2018**

**Client:** Environmental Partners, Inc.
**Collection Date:** 12/18/2018 12:40:00 PM
**Project:** WA Industries
**Lab ID:** 1812260-001
**Matrix:** Air
**Client Sample ID:** **AIR-EFF**

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA Method 8260C** | | | | Batch ID: 23020 | | Analyst: KT |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| n-Propylbenzene | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| Bromobenzene | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| 2-Chlorotoluene | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| 4-Chlorotoluene | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| tert-Butylbenzene | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| 1,2,3-Trichloropropane | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| sec-Butylbenzene | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| 4-Isopropyltoluene | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| 1,3-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| 1,4-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| n-Butylbenzene | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| 1,2-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| Hexachlorobutadiene | ND | 0.400 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| Naphthalene | ND | 0.100 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | µg/L | 1 | 12/20/2018 8:29:51 AM |
| Surr: Dibromofluoromethane | 94.8 | 56.4 - 141 | | %Rec | 1 | 12/20/2018 8:29:51 AM |
| Surr: Toluene-d8 | 86.7 | 66 - 138 | | %Rec | 1 | 12/20/2018 8:29:51 AM |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 95.9 | 64.7 - 128 | | %Rec | 1 | 12/20/2018 8:29:51 AM |

**Work Order:** 1812260
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-23020** SampType: **LCS** Units: **µg/L** Prep Date: **12/19/2018** RunNo: **48467**
Client ID: **LCSW** Batch ID: **23020** Analysis Date: **12/20/2018** SeqNo: **949315**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 2.63 | 0.100 | 2.000 | 0 | 131 | 38.8 | 143 | | | | |
| Chloromethane | 1.92 | 0.100 | 2.000 | 0 | 96.2 | 42.5 | 131 | | | | |
| Vinyl chloride | 1.94 | 0.0200 | 2.000 | 0 | 96.9 | 56.2 | 130 | | | | |
| Bromomethane | 2.04 | 0.100 | 2.000 | 0 | 102 | 45.4 | 138 | | | | |
| Trichlorofluoromethane (CFC-11) | 2.02 | 0.100 | 2.000 | 0 | 101 | 64.7 | 129 | | | | |
| Chloroethane | 1.75 | 0.100 | 2.000 | 0 | 87.3 | 62.5 | 123 | | | | |
| 1,1-Dichloroethene | 1.83 | 0.100 | 2.000 | 0 | 91.3 | 60.7 | 146 | | | | |
| Methylene chloride | 1.78 | 0.100 | 2.000 | 0 | 89.0 | 60.3 | 135 | | | | |
| trans-1,2-Dichloroethene | 1.83 | 0.100 | 2.000 | 0 | 91.5 | 71.3 | 129 | | | | |
| Methyl tert-butyl ether (MTBE) | 1.84 | 0.100 | 2.000 | 0 | 91.9 | 59.3 | 138 | | | | |
| 1,1-Dichloroethane | 1.79 | 0.100 | 2.000 | 0 | 89.6 | 71.3 | 129 | | | | |
| 2,2-Dichloropropane | 1.80 | 0.200 | 2.000 | 0 | 90.0 | 37.8 | 132 | | | | |
| cis-1,2-Dichloroethene | 1.82 | 0.100 | 2.000 | 0 | 90.9 | 67.5 | 127 | | | | |
| Chloroform | 1.88 | 0.100 | 2.000 | 0 | 94.2 | 70.3 | 123 | | | | |
| 1,1,1-Trichloroethane (TCA) | 1.99 | 0.100 | 2.000 | 0 | 99.4 | 67.9 | 134 | | | | |
| 1,1-Dichloropropene | 1.83 | 0.100 | 2.000 | 0 | 91.7 | 72.1 | 133 | | | | |
| Carbon tetrachloride | 2.06 | 0.100 | 2.000 | 0 | 103 | 64.4 | 133 | | | | |
| 1,2-Dichloroethane (EDC) | 2.01 | 0.100 | 2.000 | 0 | 101 | 65.8 | 126 | | | | |
| Benzene | 1.74 | 0.100 | 2.000 | 0 | 87.2 | 67.1 | 132 | | | | |
| Trichloroethene (TCE) | 1.79 | 0.0500 | 2.000 | 0 | 89.4 | 71.9 | 130 | | | | |
| 1,2-Dichloropropane | 1.68 | 0.100 | 2.000 | 0 | 84.1 | 71.9 | 131 | | | | |
| Bromodichloromethane | 1.87 | 0.100 | 2.000 | 0 | 93.7 | 70 | 130 | | | | |
| Dibromomethane | 1.83 | 0.100 | 2.000 | 0 | 91.3 | 74.2 | 125 | | | | |
| cis-1,3-Dichloropropene | 1.78 | 0.100 | 2.000 | 0 | 89.1 | 62.8 | 135 | | | | |
| Toluene | 1.84 | 0.100 | 2.000 | 0 | 92.0 | 73.6 | 127 | | | | |
| trans-1,3-Dichloropropylene | 1.83 | 0.100 | 2.000 | 0 | 91.3 | 58.1 | 138 | | | | |
| 1,1,2-Trichloroethane | 1.78 | 0.100 | 2.000 | 0 | 88.9 | 65.4 | 128 | | | | |
| 1,3-Dichloropropane | 1.76 | 0.100 | 2.000 | 0 | 88.2 | 71.9 | 131 | | | | |
| Tetrachloroethene (PCE) | 2.00 | 0.100 | 2.000 | 0 | 100 | 52.4 | 140 | | | | |
| Dibromochloromethane | 1.99 | 0.100 | 2.000 | 0 | 99.7 | 68.7 | 139 | | | | |
| 1,2-Dibromoethane (EDB) | 1.80 | 0.0250 | 2.000 | 0 | 90.0 | 71.2 | 129 | | | | |

**Work Order:** 1812260
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-23020** SampType: **LCS** Units: **µg/L** Prep Date: **12/19/2018** RunNo: **48467**
Client ID: **LCSW** Batch ID: **23020** Analysis Date: **12/20/2018** SeqNo: **949315**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | 2.09 | 0.100 | 2.000 | 0 | 104 | 77.2 | 122 | | | | |
| 1,1,1,2-Tetrachloroethane | 2.22 | 0.100 | 2.000 | 0 | 111 | 76.2 | 130 | | | | |
| Ethylbenzene | 2.03 | 0.100 | 2.000 | 0 | 102 | 78 | 127 | | | | |
| m,p-Xylene | 4.19 | 0.100 | 4.000 | 0 | 105 | 77.5 | 130 | | | | |
| o-Xylene | 2.05 | 0.100 | 2.000 | 0 | 102 | 77.6 | 126 | | | | |
| Styrene | 2.04 | 0.100 | 2.000 | 0 | 102 | 66.8 | 137 | | | | |
| Isopropylbenzene | 2.01 | 0.100 | 2.000 | 0 | 100 | 75.9 | 133 | | | | |
| Bromoform | 2.13 | 0.100 | 2.000 | 0 | 107 | 54.1 | 146 | | | | |
| 1,1,2,2-Tetrachloroethane | 1.78 | 0.100 | 2.000 | 0 | 89.0 | 68 | 134 | | | | |
| n-Propylbenzene | 1.96 | 0.100 | 2.000 | 0 | 97.9 | 77.1 | 133 | | | | |
| Bromobenzene | 2.11 | 0.100 | 2.000 | 0 | 106 | 71.1 | 131 | | | | |
| 1,3,5-Trimethylbenzene | 2.00 | 0.100 | 2.000 | 0 | 99.8 | 76.2 | 133 | | | | |
| 2-Chlorotoluene | 1.89 | 0.100 | 2.000 | 0 | 94.7 | 67.1 | 137 | | | | |
| 4-Chlorotoluene | 1.94 | 0.100 | 2.000 | 0 | 97.1 | 70.7 | 132 | | | | |
| tert-Butylbenzene | 2.11 | 0.100 | 2.000 | 0 | 105 | 71.3 | 139 | | | | |
| 1,2,3-Trichloropropane | 1.75 | 0.100 | 2.000 | 0 | 87.5 | 70.8 | 132 | | | | |
| 1,2,4-Trichlorobenzene | 2.17 | 0.200 | 2.000 | 0 | 109 | 61.4 | 139 | | | | |
| sec-Butylbenzene | 2.06 | 0.100 | 2.000 | 0 | 103 | 77.4 | 136 | | | | |
| 4-Isopropyltoluene | 2.13 | 0.100 | 2.000 | 0 | 106 | 78.1 | 131 | | | | |
| 1,3-Dichlorobenzene | 2.07 | 0.100 | 2.000 | 0 | 103 | 73.5 | 125 | | | | |
| 1,4-Dichlorobenzene | 2.06 | 0.100 | 2.000 | 0 | 103 | 71.4 | 125 | | | | |
| n-Butylbenzene | 1.89 | 0.100 | 2.000 | 0 | 94.6 | 69.8 | 138 | | | | |
| 1,2-Dichlorobenzene | 2.08 | 0.100 | 2.000 | 0 | 104 | 74.2 | 123 | | | | |
| 1,2-Dibromo-3-chloropropane | 1.90 | 0.100 | 2.000 | 0 | 94.9 | 53.6 | 155 | | | | |
| 1,2,4-Trimethylbenzene | 2.08 | 0.100 | 2.000 | 0 | 104 | 72.3 | 133 | | | | |
| Hexachlorobutadiene | 2.23 | 0.400 | 2.000 | 0 | 111 | 60.9 | 141 | | | | |
| Naphthalene | 2.00 | 0.100 | 2.000 | 0 | 100 | 58.2 | 140 | | | | |
| 1,2,3-Trichlorobenzene | 2.16 | 0.400 | 2.000 | 0 | 108 | 61.3 | 133 | | | | |
| Surr: Dibromofluoromethane | 2.32 | | 2.500 | | 92.7 | 56.4 | 141 | | | | |
| Surr: Toluene-d8 | 2.21 | | 2.500 | | 88.4 | 66 | 138 | | | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.33 | | 2.500 | | 93.3 | 64.7 | 128 | | | | |

**Work Order:** 1812260
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

| Sample ID | **LCS-23020** | SampType: | **LCS** | Units: | **µg/L** | Prep Date: | **12/19/2018** | RunNo: | **48467** |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSW** | Batch ID: | **23020** | | | Analysis Date: | **12/20/2018** | SeqNo: | **949315** |

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|

| Sample ID | **MB-23020** | SampType: | **MBLK** | Units: | **µg/L** | Prep Date: | **12/19/2018** | RunNo: | **48467** |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **MBLKW** | Batch ID: | **23020** | | | Analysis Date: | **12/20/2018** | SeqNo: | **949316** |

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | | | | | | | | |
| Chloromethane | ND | 0.100 | | | | | | | | | |
| Vinyl chloride | ND | 0.0200 | | | | | | | | | |
| Bromomethane | ND | 0.100 | | | | | | | | | |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | | | | | | | | |
| Chloroethane | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Methylene chloride | ND | 0.100 | | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.100 | | | | | | | | | |
| 2,2-Dichloropropane | ND | 0.200 | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Chloroform | ND | 0.100 | | | | | | | | | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.100 | | | | | | | | | |
| Carbon tetrachloride | ND | 0.100 | | | | | | | | | |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | | | | | | | | |
| Benzene | ND | 0.100 | | | | | | | | | |
| Trichloroethene (TCE) | ND | 0.0500 | | | | | | | | | |
| 1,2-Dichloropropane | ND | 0.100 | | | | | | | | | |
| Bromodichloromethane | ND | 0.100 | | | | | | | | | |
| Dibromomethane | ND | 0.100 | | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.100 | | | | | | | | | |
| Toluene | ND | 0.100 | | | | | | | | | |

**Work Order:** 1812260
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **MB-23020** SampType: **MBLK** Units: **µg/L** Prep Date: **12/19/2018** RunNo: **48467**
Client ID: **MBLKW** Batch ID: **23020** Analysis Date: **12/20/2018** SeqNo: **949316**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropylene | ND | 0.100 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.100 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 0.100 | | | | | | | | | |
| Tetrachloroethene (PCE) | ND | 0.100 | | | | | | | | | |
| Dibromochloromethane | ND | 0.100 | | | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | | | | | | | | |
| Chlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | | | | | | | | |
| Ethylbenzene | ND | 0.100 | | | | | | | | | |
| m,p-Xylene | ND | 0.100 | | | | | | | | | |
| o-Xylene | ND | 0.100 | | | | | | | | | |
| Styrene | ND | 0.100 | | | | | | | | | |
| Isopropylbenzene | ND | 0.100 | | | | | | | | | |
| Bromoform | ND | 0.100 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | | | | | | | | |
| n-Propylbenzene | ND | 0.100 | | | | | | | | | |
| Bromobenzene | ND | 0.100 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | | | | | | | | |
| 2-Chlorotoluene | ND | 0.100 | | | | | | | | | |
| 4-Chlorotoluene | ND | 0.100 | | | | | | | | | |
| tert-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.100 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | | | | | | | | |
| sec-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 4-Isopropyltoluene | ND | 0.100 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| n-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | | | | | | | | |

**Work Order:** 1812260
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **MB-23020** SampType: **MBLK** Units: **µg/L** Prep Date: **12/19/2018** RunNo: **48467**
Client ID: **MBLKW** Batch ID: **23020** Analysis Date: **12/20/2018** SeqNo: **949316**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ND | 0.400 | | | | | | | | | |
| Naphthalene | ND | 0.100 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | | | | | | | | |
| Surr: Dibromofluoromethane | 2.36 | | 2.500 | | 94.3 | 56.4 | 141 | | | | |
| Surr: Toluene-d8 | 2.16 | | 2.500 | | 86.4 | 66 | 138 | | | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.34 | | 2.500 | | 93.6 | 64.7 | 128 | | | | |

Sample ID **1812303-002AREP** SampType: **REP** Units: **µg/L** Prep Date: **12/19/2018** RunNo: **48467**
Client ID: **BATCH** Batch ID: **23020** Analysis Date: **12/20/2018** SeqNo: **949312**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Vinyl chloride | ND | 0.0200 | | | | | | 0 | | 30 | |
| Bromomethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Methylene chloride | ND | 0.100 | | | | | | 0 | | 30 | |
| trans-1,2-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 2,2-Dichloropropane | ND | 0.200 | | | | | | 0 | | 30 | |
| cis-1,2-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloroform | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloropropene | ND | 0.100 | | | | | | 0 | | 30 | |
| Carbon tetrachloride | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | | | | | 0 | | 30 | |
| Benzene | ND | 0.100 | | | | | | 0 | | 30 | |

**Work Order:** 1812260
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1812303-002AREP** SampType: **REP** Units: **µg/L** Prep Date: **12/19/2018** RunNo: **48467**
Client ID: **BATCH** Batch ID: **23020** Analysis Date: **12/20/2018** SeqNo: **949312**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene (TCE) | ND | 0.0500 | | | | | | 0 | | 30 | |
| 1,2-Dichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromodichloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Dibromomethane | ND | 0.100 | | | | | | 0 | | 30 | |
| cis-1,3-Dichloropropene | ND | 0.100 | | | | | | 0 | | 30 | |
| Toluene | ND | 0.100 | | | | | | 0 | | 30 | |
| trans-1,3-Dichloropropylene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,2-Trichloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3-Dichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| Tetrachloroethene (PCE) | ND | 0.100 | | | | | | 0 | | 30 | |
| Dibromochloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | | | | | 0 | | 30 | |
| Chlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Ethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| m,p-Xylene | ND | 0.100 | | | | | | 0 | | 30 | |
| o-Xylene | ND | 0.100 | | | | | | 0 | | 30 | |
| Styrene | ND | 0.100 | | | | | | 0 | | 30 | |
| Isopropylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromoform | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| n-Propylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 2-Chlorotoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| 4-Chlorotoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| tert-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,3-Trichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | | | | | 0 | | 30 | |
| sec-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 4-Isopropyltoluene | ND | 0.100 | | | | | | 0 | | 30 | |

**Work Order:** 1812260
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1812303-002AREP** SampType: **REP** Units: **µg/L** Prep Date: **12/19/2018** RunNo: **48467**
Client ID: **BATCH** Batch ID: **23020** Analysis Date: **12/20/2018** SeqNo: **949312**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,4-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| n-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Hexachlorobutadiene | ND | 0.400 | | | | | | 0 | | 30 | |
| Naphthalene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | | | | | 0 | | 30 | |
| Surr: Dibromofluoromethane | 2.37 | | 2.500 | | 94.9 | 61.1 | 128 | | 0 | | |
| Surr: Toluene-d8 | 2.20 | | 2.500 | | 88.1 | 68.2 | 129 | | 0 | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.32 | | 2.500 | | 92.9 | 64.7 | 128 | | 0 | | |

# Sample Log-In Check List

| | | | |
|---|---|---|---|
| Client Name: | **EPI** | Work Order Number: | **1812260** |
| Logged by: | **Brianna Barnes** | Date Received: | **12/18/2018 1:33:00 PM** |

## *Chain of Custody*

| | | | | |
|---|---|---|---|---|
| 1. | Is Chain of Custody complete? | Yes ☑ | No ☐ | Not Present ☐ |
| 2. | How was the sample delivered? | Client | | |

## *Log In*

| | | | | |
|---|---|---|---|---|
| 3. | Coolers are present? | Yes ☐ | No ☑ | NA ☐ |
| | | **Air sample.** | | |
| 4. | Shipping container/cooler in good condition? | Yes ☑ | No ☐ | |
| 5. | Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact) | Yes ☐ | No ☐ | Not Required ☑ |
| 6. | Was an attempt made to cool the samples? | Yes ☐ | No ☐ | NA ☑ |
| 7. | Were all items received at a temperature of >0°C to 10.0°C* | Yes ☐ | No ☐ | NA ☑ |
| 8. | Sample(s) in proper container(s)? | Yes ☑ | No ☐ | |
| 9. | Sufficient sample volume for indicated test(s)? | Yes ☑ | No ☐ | |
| 10. | Are samples properly preserved? | Yes ☑ | No ☐ | |
| 11. | Was preservative added to bottles? | Yes ☐ | No ☑ | NA ☐ |
| 12. | Is there headspace in the VOA vials? | Yes ☐ | No ☐ | NA ☑ |
| 13. | Did all samples containers arrive in good condition(unbroken)? | Yes ☑ | No ☐ | |
| 14. | Does paperwork match bottle labels? | Yes ☑ | No ☐ | |
| 15. | Are matrices correctly identified on Chain of Custody? | Yes ☑ | No ☐ | |
| 16. | Is it clear what analyses were requested? | Yes ☑ | No ☐ | |
| 17. | Were all holding times able to be met? | Yes ☑ | No ☐ | |

## *Special Handling (if applicable)*

| | | | | |
|---|---|---|---|---|
| 18. | Was client notified of all discrepancies with this order? | Yes ☐ | No ☐ | NA ☑ |

| | | | |
|---|---|---|---|
| Person Notified: | | Date | |
| By Whom: | | Via: | ☐ eMail ☐ Phone ☐ Fax ☐ In Person |
| Regarding: | | | |
| Client Instructions: | | | |

19. Additional remarks:

**Item Information**

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

# Air Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Date: 12/18/18 Page: 1 of: 1

Laboratory Project No (Internal): 1912260

Special Remarks: Provide EDD

Project Name: WA Industries

Project No: 64001.4

Client: EPI

Address: 1180 NW Maple St.

Location: 925 S. Dakota St. Seattle

City, State, Zip: Issaquah, WA 98027

Collected by: Joe Sherrod

Telephone: 425-395-0010

Reports to (PM): seantr@epi-wa.com JTS

Air samples are disposed of one week after report is submitted to client unless otherwise requested. ☐ OK to Dispose ☐ Hold (fees may apply)

Fax:

Email (PM): Sean Trimble

| | Sample Name | Canister / Flow Reg Serial # | Sample Date & Time | Sample Type (Matrix) * | Container Type ** | Fill Time / Flow Rate | Internal: Initial Evacuation Pressure (mtorr) | Field Initial Sample Pressure (" Hg) | Field Final Sample Pressure (" Hg) | Analysis: VOCs TO15 SCAN | VOCs TO15 SCAN LL | VOCs TO15 SIM | Siloxanes TO15 | Sulfur TO15 | Sulfur Ext. TO15 | APH TO15 | Helium | Major Gases 3C | VOCs by 8260 | Comments | Internal: Final Pressure ("Hg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | AIR-EFF | Canister / Flow Reg | 12/18/18 Date / 1240 Time | S | TB-1L | .5 min | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | X | | |
| 2 | | Canister / Flow Reg | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |
| 3 | | Canister / Flow Reg | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |
| 4 | | Canister / Flow Reg | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |
| 5 | | Canister / Flow Reg | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |

* Matrix Codes: AA = Ambient Air IA = Indoor Air L = Landfill S = Subslab / Soil Gas

** Container Codes: BV = 1 Liter Bottle Vac 6L = 6L Canister 1L = 1L Canister CYL = High Pressure Cylinder F = Filter S = Sorbent Tube TB = Tedlar Bag

**I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.**

| Relinquished | Date/Time | Received | Date/Time |
|---|---|---|---|
| x | 12/18/18 1333 | x | 12/18/18 1333 |
| Relinquished | Date/Time | Received | Date/Time |
| x | | x | |

Turn-Around Time:
- ☑ Standard
- ☐ 3 Day
- ☐ 2 Day
- ☐ Next Day
- Same Day _____ (specify)

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

**Environmental Partners, Inc.**
Sean Trimble
1180 NW Maple Street, Suite 310
Issaquah, WA 98027

**RE: WA Industries**
**Work Order Number: 1902084**

February 14, 2019

**Attention Sean Trimble:**

Fremont Analytical, Inc. received 1 sample(s) on 2/8/2019 for the analyses presented in the following report.

***Volatile Organic Compounds by EPA Method 8260C***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director

**CC:**
Joe Sherrod

**Date:** *02/14/2019*

**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries
**Work Order:** 1902084

# Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---|---|---|---|
| 1902084-001 | AIR-EFF | 02/08/2019 9:00 AM | 02/08/2019 9:19 AM |

# Case Narrative

WO#: **1902084**
Date: **2/14/2019**

**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

WorkOrder Narrative:
I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

# Analytical Report

Work Order: **1902084**
Date Reported: **2/14/2019**

**Client:** Environmental Partners, Inc.
**Collection Date:** 2/8/2019 9:00:00 AM
**Project:** WA Industries
**Lab ID:** 1902084-001
**Matrix:** Air
**Client Sample ID:** **AIR-EFF**

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA Method 8260C** | | | | Batch ID: 23489 | | Analyst: KT |
| Dichlorodifluoromethane | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| Chloromethane | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| Vinyl chloride | ND | 0.0200 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| Bromomethane | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| Chloroethane | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| 1,1-Dichloroethene | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| Methylene chloride | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| trans-1,2-Dichloroethene | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| 1,1-Dichloroethane | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| 2,2-Dichloropropane | ND | 0.200 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| cis-1,2-Dichloroethene | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| Chloroform | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| 1,1-Dichloropropene | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| Carbon tetrachloride | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| Benzene | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| Trichloroethene (TCE) | 3.27 | 0.0500 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| 1,2-Dichloropropane | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| Bromodichloromethane | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| Dibromomethane | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| cis-1,3-Dichloropropene | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| Toluene | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| trans-1,3-Dichloropropylene | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| 1,1,2-Trichloroethane | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| 1,3-Dichloropropane | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| Tetrachloroethene (PCE) | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| Dibromochloromethane | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| Chlorobenzene | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| Ethylbenzene | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| m,p-Xylene | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| o-Xylene | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| Styrene | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| Isopropylbenzene | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| Bromoform | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |

# Analytical Report

Work Order: **1902084**
Date Reported: **2/14/2019**

**Client:** Environmental Partners, Inc.
**Collection Date:** 2/8/2019 9:00:00 AM
**Project:** WA Industries
**Lab ID:** 1902084-001
**Matrix:** Air
**Client Sample ID:** **AIR-EFF**

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA Method 8260C** | | | | Batch ID: 23489 | | Analyst: KT |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| n-Propylbenzene | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| Bromobenzene | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| 2-Chlorotoluene | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| 4-Chlorotoluene | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| tert-Butylbenzene | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| 1,2,3-Trichloropropane | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| sec-Butylbenzene | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| 4-Isopropyltoluene | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| 1,3-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| 1,4-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| n-Butylbenzene | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| 1,2-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| Hexachlorobutadiene | ND | 0.400 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| Naphthalene | ND | 0.100 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | µg/L | 1 | 2/8/2019 10:24:04 AM |
| Surr: Dibromofluoromethane | 99.0 | 56.4 - 141 | | %Rec | 1 | 2/8/2019 10:24:04 AM |
| Surr: Toluene-d8 | 103 | 66 - 138 | | %Rec | 1 | 2/8/2019 10:24:04 AM |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 97.9 | 64.7 - 128 | | %Rec | 1 | 2/8/2019 10:24:04 AM |

**Work Order:** 1902084
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-23489** SampType: **LCS** Units: **µg/L** Prep Date: **2/8/2019** RunNo: **49433**
Client ID: **LCSW** Batch ID: **23489** Analysis Date: **2/8/2019** SeqNo: **969382**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 1.59 | 0.100 | 2.000 | 0 | 79.5 | 38.8 | 143 | | | | |
| Chloromethane | 2.03 | 0.100 | 2.000 | 0 | 101 | 42.5 | 131 | | | | |
| Vinyl chloride | 2.13 | 0.0200 | 2.000 | 0 | 106 | 56.2 | 130 | | | | |
| Bromomethane | 2.11 | 0.100 | 2.000 | 0 | 106 | 45.4 | 138 | | | | |
| Trichlorofluoromethane (CFC-11) | 1.86 | 0.100 | 2.000 | 0 | 93.1 | 64.7 | 129 | | | | |
| Chloroethane | 2.08 | 0.100 | 2.000 | 0 | 104 | 62.5 | 123 | | | | |
| 1,1-Dichloroethene | 2.10 | 0.100 | 2.000 | 0 | 105 | 60.7 | 146 | | | | |
| Methylene chloride | 2.01 | 0.100 | 2.000 | 0 | 100 | 60.3 | 135 | | | | |
| trans-1,2-Dichloroethene | 2.04 | 0.100 | 2.000 | 0 | 102 | 71.3 | 129 | | | | |
| Methyl tert-butyl ether (MTBE) | 1.82 | 0.100 | 2.000 | 0 | 90.9 | 59.3 | 138 | | | | |
| 1,1-Dichloroethane | 2.05 | 0.100 | 2.000 | 0 | 102 | 71.3 | 129 | | | | |
| 2,2-Dichloropropane | 2.26 | 0.200 | 2.000 | 0 | 113 | 37.8 | 132 | | | | |
| cis-1,2-Dichloroethene | 2.08 | 0.100 | 2.000 | 0 | 104 | 67.5 | 127 | | | | |
| Chloroform | 1.93 | 0.100 | 2.000 | 0 | 96.3 | 70.3 | 123 | | | | |
| 1,1,1-Trichloroethane (TCA) | 1.83 | 0.100 | 2.000 | 0 | 91.5 | 67.9 | 134 | | | | |
| 1,1-Dichloropropene | 1.99 | 0.100 | 2.000 | 0 | 99.7 | 72.1 | 133 | | | | |
| Carbon tetrachloride | 1.82 | 0.100 | 2.000 | 0 | 91.2 | 64.4 | 133 | | | | |
| 1,2-Dichloroethane (EDC) | 1.70 | 0.100 | 2.000 | 0 | 84.9 | 65.8 | 126 | | | | |
| Benzene | 2.08 | 0.100 | 2.000 | 0 | 104 | 67.1 | 132 | | | | |
| Trichloroethene (TCE) | 1.98 | 0.0500 | 2.000 | 0 | 98.9 | 71.9 | 130 | | | | |
| 1,2-Dichloropropane | 2.06 | 0.100 | 2.000 | 0 | 103 | 71.9 | 131 | | | | |
| Bromodichloromethane | 1.86 | 0.100 | 2.000 | 0 | 92.8 | 70 | 130 | | | | |
| Dibromomethane | 1.89 | 0.100 | 2.000 | 0 | 94.3 | 74.2 | 125 | | | | |
| cis-1,3-Dichloropropene | 1.98 | 0.100 | 2.000 | 0 | 98.9 | 62.8 | 135 | | | | |
| Toluene | 2.09 | 0.100 | 2.000 | 0 | 105 | 73.6 | 127 | | | | |
| trans-1,3-Dichloropropylene | 1.82 | 0.100 | 2.000 | 0 | 91.0 | 58.1 | 138 | | | | |
| 1,1,2-Trichloroethane | 1.90 | 0.100 | 2.000 | 0 | 94.8 | 65.4 | 128 | | | | |
| 1,3-Dichloropropane | 1.90 | 0.100 | 2.000 | 0 | 95.2 | 71.9 | 131 | | | | |
| Tetrachloroethene (PCE) | 2.05 | 0.100 | 2.000 | 0 | 102 | 52.4 | 140 | | | | |
| Dibromochloromethane | 1.76 | 0.100 | 2.000 | 0 | 87.8 | 68.7 | 139 | | | | |
| 1,2-Dibromoethane (EDB) | 1.83 | 0.0250 | 2.000 | 0 | 91.5 | 71.2 | 129 | | | | |

**Work Order:** 1902084
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-23489** SampType: **LCS** Units: **µg/L** Prep Date: **2/8/2019** RunNo: **49433**
Client ID: **LCSW** Batch ID: **23489** Analysis Date: **2/8/2019** SeqNo: **969382**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | 1.96 | 0.100 | 2.000 | 0 | 97.8 | 77.2 | 122 | | | | |
| 1,1,1,2-Tetrachloroethane | 1.92 | 0.100 | 2.000 | 0 | 95.9 | 76.2 | 130 | | | | |
| Ethylbenzene | 2.02 | 0.100 | 2.000 | 0 | 101 | 78 | 127 | | | | |
| m,p-Xylene | 3.99 | 0.100 | 4.000 | 0 | 99.7 | 77.5 | 130 | | | | |
| o-Xylene | 2.00 | 0.100 | 2.000 | 0 | 100 | 77.6 | 126 | | | | |
| Styrene | 2.04 | 0.100 | 2.000 | 0 | 102 | 66.8 | 137 | | | | |
| Isopropylbenzene | 2.01 | 0.100 | 2.000 | 0 | 101 | 75.9 | 133 | | | | |
| Bromoform | 1.77 | 0.100 | 2.000 | 0 | 88.6 | 54.1 | 146 | | | | |
| 1,1,2,2-Tetrachloroethane | 2.00 | 0.100 | 2.000 | 0 | 100 | 68 | 134 | | | | |
| n-Propylbenzene | 2.09 | 0.100 | 2.000 | 0 | 104 | 77.1 | 133 | | | | |
| Bromobenzene | 1.99 | 0.100 | 2.000 | 0 | 99.6 | 71.1 | 131 | | | | |
| 1,3,5-Trimethylbenzene | 2.01 | 0.100 | 2.000 | 0 | 101 | 76.2 | 133 | | | | |
| 2-Chlorotoluene | 2.03 | 0.100 | 2.000 | 0 | 102 | 67.1 | 137 | | | | |
| 4-Chlorotoluene | 2.03 | 0.100 | 2.000 | 0 | 102 | 70.7 | 132 | | | | |
| tert-Butylbenzene | 1.99 | 0.100 | 2.000 | 0 | 99.3 | 71.3 | 139 | | | | |
| 1,2,3-Trichloropropane | 1.92 | 0.100 | 2.000 | 0 | 95.9 | 70.8 | 132 | | | | |
| 1,2,4-Trichlorobenzene | 2.12 | 0.200 | 2.000 | 0 | 106 | 61.4 | 139 | | | | |
| sec-Butylbenzene | 2.03 | 0.100 | 2.000 | 0 | 101 | 77.4 | 136 | | | | |
| 4-Isopropyltoluene | 2.01 | 0.100 | 2.000 | 0 | 100 | 78.1 | 131 | | | | |
| 1,3-Dichlorobenzene | 2.13 | 0.100 | 2.000 | 0 | 106 | 73.5 | 125 | | | | |
| 1,4-Dichlorobenzene | 2.10 | 0.100 | 2.000 | 0 | 105 | 71.4 | 125 | | | | |
| n-Butylbenzene | 2.19 | 0.100 | 2.000 | 0 | 110 | 69.8 | 138 | | | | |
| 1,2-Dichlorobenzene | 2.04 | 0.100 | 2.000 | 0 | 102 | 74.2 | 123 | | | | |
| 1,2-Dibromo-3-chloropropane | 1.80 | 0.100 | 2.000 | 0 | 89.8 | 53.6 | 155 | | | | |
| 1,2,4-Trimethylbenzene | 2.01 | 0.100 | 2.000 | 0 | 101 | 72.3 | 133 | | | | |
| Hexachlorobutadiene | 2.23 | 0.400 | 2.000 | 0 | 112 | 60.9 | 141 | | | | |
| Naphthalene | 2.03 | 0.100 | 2.000 | 0 | 102 | 58.2 | 140 | | | | |
| 1,2,3-Trichlorobenzene | 2.12 | 0.400 | 2.000 | 0 | 106 | 61.3 | 133 | | | | |
| Surr: Dibromofluoromethane | 2.45 | | 2.500 | | 98.1 | 56.4 | 141 | | | | |
| Surr: Toluene-d8 | 2.58 | | 2.500 | | 103 | 66 | 138 | | | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.59 | | 2.500 | | 104 | 64.7 | 128 | | | | |

**Work Order:** 1902084
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

| Sample ID | **LCS-23489** | SampType: **LCS** | | | Units: **µg/L** | | Prep Date: **2/8/2019** | | RunNo: **49433** | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSW** | Batch ID: **23489** | | | | | Analysis Date: **2/8/2019** | | SeqNo: **969382** | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| Sample ID | **MB-23489** | SampType: **MBLK** | | | Units: **µg/L** | | Prep Date: **2/8/2019** | | RunNo: **49433** | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **MBLKW** | Batch ID: **23489** | | | | | Analysis Date: **2/8/2019** | | SeqNo: **969383** | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Dichlorodifluoromethane | ND | 0.100 | | | | | | | | | |
| Chloromethane | ND | 0.100 | | | | | | | | | |
| Vinyl chloride | ND | 0.0200 | | | | | | | | | |
| Bromomethane | ND | 0.100 | | | | | | | | | |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | | | | | | | | |
| Chloroethane | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Methylene chloride | ND | 0.100 | | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.100 | | | | | | | | | |
| 2,2-Dichloropropane | ND | 0.200 | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Chloroform | ND | 0.100 | | | | | | | | | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.100 | | | | | | | | | |
| Carbon tetrachloride | ND | 0.100 | | | | | | | | | |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | | | | | | | | |
| Benzene | ND | 0.100 | | | | | | | | | |
| Trichloroethene (TCE) | ND | 0.0500 | | | | | | | | | |
| 1,2-Dichloropropane | ND | 0.100 | | | | | | | | | |
| Bromodichloromethane | ND | 0.100 | | | | | | | | | |
| Dibromomethane | ND | 0.100 | | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.100 | | | | | | | | | |
| Toluene | ND | 0.100 | | | | | | | | | |

**Work Order:** 1902084
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **MB-23489** SampType: **MBLK** Units: **µg/L** Prep Date: **2/8/2019** RunNo: **49433**
Client ID: **MBLKW** Batch ID: **23489** Analysis Date: **2/8/2019** SeqNo: **969383**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropylene | ND | 0.100 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.100 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 0.100 | | | | | | | | | |
| Tetrachloroethene (PCE) | ND | 0.100 | | | | | | | | | |
| Dibromochloromethane | ND | 0.100 | | | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | | | | | | | | |
| Chlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | | | | | | | | |
| Ethylbenzene | ND | 0.100 | | | | | | | | | |
| m,p-Xylene | ND | 0.100 | | | | | | | | | |
| o-Xylene | ND | 0.100 | | | | | | | | | |
| Styrene | ND | 0.100 | | | | | | | | | |
| Isopropylbenzene | ND | 0.100 | | | | | | | | | |
| Bromoform | ND | 0.100 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | | | | | | | | |
| n-Propylbenzene | ND | 0.100 | | | | | | | | | |
| Bromobenzene | ND | 0.100 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | | | | | | | | |
| 2-Chlorotoluene | ND | 0.100 | | | | | | | | | |
| 4-Chlorotoluene | ND | 0.100 | | | | | | | | | |
| tert-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.100 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | | | | | | | | |
| sec-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 4-Isopropyltoluene | ND | 0.100 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| n-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | | | | | | | | |

**Work Order:** 1902084
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **MB-23489** SampType: **MBLK** Units: **µg/L** Prep Date: **2/8/2019** RunNo: **49433**
Client ID: **MBLKW** Batch ID: **23489** Analysis Date: **2/8/2019** SeqNo: **969383**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ND | 0.400 | | | | | | | | | |
| Naphthalene | ND | 0.100 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | | | | | | | | |
| Surr: Dibromofluoromethane | 2.46 | | 2.500 | | 98.3 | 56.4 | 141 | | | | |
| Surr: Toluene-d8 | 2.56 | | 2.500 | | 103 | 66 | 138 | | | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.54 | | 2.500 | | 102 | 64.7 | 128 | | | | |

Sample ID **1902084-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **2/8/2019** RunNo: **49433**
Client ID: **AIR-EFF** Batch ID: **23489** Analysis Date: **2/8/2019** SeqNo: **969378**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Vinyl chloride | ND | 0.0200 | | | | | | 0 | | 30 | |
| Bromomethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Methylene chloride | ND | 0.100 | | | | | | 0 | | 30 | |
| trans-1,2-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 2,2-Dichloropropane | ND | 0.200 | | | | | | 0 | | 30 | |
| cis-1,2-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloroform | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloropropene | ND | 0.100 | | | | | | 0 | | 30 | |
| Carbon tetrachloride | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | | | | | 0 | | 30 | |
| Benzene | ND | 0.100 | | | | | | 0 | | 30 | |

**Work Order:** 1902084
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1902084-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **2/8/2019** RunNo: **49433**
Client ID: **AIR-EFF** Batch ID: **23489** Analysis Date: **2/8/2019** SeqNo: **969378**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene (TCE) | 3.69 | 0.0500 | | | | | | 3.270 | 12.2 | 30 | |
| 1,2-Dichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromodichloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Dibromomethane | ND | 0.100 | | | | | | 0 | | 30 | |
| cis-1,3-Dichloropropene | ND | 0.100 | | | | | | 0 | | 30 | |
| Toluene | ND | 0.100 | | | | | | 0 | | 30 | |
| trans-1,3-Dichloropropylene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,2-Trichloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3-Dichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| Tetrachloroethene (PCE) | ND | 0.100 | | | | | | 0 | | 30 | |
| Dibromochloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | | | | | 0 | | 30 | |
| Chlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Ethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| m,p-Xylene | ND | 0.100 | | | | | | 0 | | 30 | |
| o-Xylene | ND | 0.100 | | | | | | 0 | | 30 | |
| Styrene | ND | 0.100 | | | | | | 0 | | 30 | |
| Isopropylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromoform | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| n-Propylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 2-Chlorotoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| 4-Chlorotoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| tert-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,3-Trichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | | | | | 0 | | 30 | |
| sec-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 4-Isopropyltoluene | ND | 0.100 | | | | | | 0 | | 30 | |

**Work Order:** 1902084
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1902084-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **2/8/2019** RunNo: **49433**
Client ID: **AIR-EFF** Batch ID: **23489** Analysis Date: **2/8/2019** SeqNo: **969378**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,4-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| n-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Hexachlorobutadiene | ND | 0.400 | | | | | | 0 | | 30 | |
| Naphthalene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | | | | | 0 | | 30 | |
| Surr: Dibromofluoromethane | 2.44 | | 2.500 | | 97.4 | 61.1 | 128 | | 0 | | |
| Surr: Toluene-d8 | 2.60 | | 2.500 | | 104 | 68.2 | 129 | | 0 | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.47 | | 2.500 | | 99.0 | 64.7 | 128 | | 0 | | |

# Sample Log-In Check List

| | | | |
|---|---|---|---|
| Client Name: | **EPI** | Work Order Number: | **1902084** |
| Logged by: | **Brianna Barnes** | Date Received: | **2/8/2019 9:19:00 AM** |

## *Chain of Custody*

| | | | | |
|---|---|---|---|---|
| 1. | Is Chain of Custody complete? | Yes ☑ | No ☐ | Not Present ☐ |
| 2. | How was the sample delivered? | Client | | |

## *Log In*

| | | | | |
|---|---|---|---|---|
| 3. | Coolers are present? | Yes ☐ | No ☑ | NA ☐ |
| | | **Air samples.** | | |
| 4. | Shipping container/cooler in good condition? | Yes ☑ | No ☐ | |
| 5. | Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact) | Yes ☐ | No ☐ | Not Required ☑ |
| 6. | Was an attempt made to cool the samples? | Yes ☐ | No ☐ | NA ☑ |
| 7. | Were all items received at a temperature of >0°C to 10.0°C* | Yes ☐ | No ☐ | NA ☑ |
| 8. | Sample(s) in proper container(s)? | Yes ☑ | No ☐ | |
| 9. | Sufficient sample volume for indicated test(s)? | Yes ☑ | No ☐ | |
| 10. | Are samples properly preserved? | Yes ☑ | No ☐ | |
| 11. | Was preservative added to bottles? | Yes ☐ | No ☑ | NA ☐ |
| 12. | Is there headspace in the VOA vials? | Yes ☐ | No ☐ | NA ☑ |
| 13. | Did all samples containers arrive in good condition(unbroken)? | Yes ☑ | No ☐ | |
| 14. | Does paperwork match bottle labels? | Yes ☑ | No ☐ | |
| 15. | Are matrices correctly identified on Chain of Custody? | Yes ☑ | No ☐ | |
| 16. | Is it clear what analyses were requested? | Yes ☑ | No ☐ | |
| 17. | Were all holding times able to be met? | Yes ☑ | No ☐ | |

## *Special Handling (if applicable)*

| | | | | |
|---|---|---|---|---|
| 18. | Was client notified of all discrepancies with this order? | Yes ☐ | No ☐ | NA ☑ |

| | | | |
|---|---|---|---|
| Person Notified: | | Date | |
| By Whom: | | Via: | ☐ eMail ☐ Phone ☐ Fax ☐ In Person |
| Regarding: | | | |
| Client Instructions: | | | |

19. Additional remarks:

**Item Information**

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

# Air Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Date: 2/09/19 Page: 1 of: 1

Laboratory Project No (Internal): 1902084

Project Name: WA Industries

Special Remarks: Provide EDD

Client: EPI

Project No: 64001

Address: 1180 NW Maple St.

Location: Seattle, WA

City, State, Zip: Seattle, WA 98027

Collected by: Joe Sherod

Telephone: 425-395-0010

Reports to (PM): Sean Trimble / Joe Sherod

Air samples are disposed of one week after report is submitted to client unless otherwise requested. ☐ OK to Dispose ☐ Hold (fees may apply)

Fax:

Email (PM): Sean@epi-wa.com

| | Sample Name | Canister / Flow Reg Serial # | Sample Date & Time | Sample Type (Matrix) * | Container Type ** | Fill Time / Flow Rate | Internal: Initial Evacuation Pressure (mtorr) | Field Initial Sample Pressure (" Hg) | Field Final Sample Pressure (" Hg) | Analysis: VOCs TO15 SCAN | VOCs TO15 SCAN LL | VOCs TO15 SIM | Siloxanes TO15 | Sulfur TO15 | Sulfur Ext. TO15 | APH TO15 | Helium | Major Gases 3C | VOCs by 8260 | Comments | Internal: Final Pressure ("Hg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | AIR-EFF | Canister / Flow Reg | 02/08/19 Date / 0900 Time | S | TB 1L | 15 min | Pressure / Date | / Date | / Date | | | | | | | | | | X | | |
| 2 | | Canister / Flow Reg | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |
| 3 | | Canister / Flow Reg | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |
| 4 | | Canister / Flow Reg | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |
| 5 | | Canister / Flow Reg | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |

* Matrix Codes: AA = Ambient Air IA = Indoor Air L = Landfill S = Subslab / Soil Gas

** Container Codes: BV = 1 Liter Bottle Vac 6L = 6L Canister 1L = 1L Canister CYL = High Pressure Cylinder F = Filter S = Sorbent Tube TB = Tedlar Bag

**I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.**

| Relinquished | Date/Time | Received | Date/Time |
|---|---|---|---|
| x | 02/08/19 / 0919 | x | 2/8/19 0919 |
| Relinquished | Date/Time | Received | Date/Time |
| x | | x | |

Turn-Around Time:
- ☑ Standard
- ☐ 3 Day
- ☐ 2 Day
- ☐ Next Day
- Same Day _____ (specify)

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

**Environmental Partners, Inc.**
Sean Trimble
1180 NW Maple Street, Suite 310
Issaquah, WA 98027

**RE: WA Industries**
**Work Order Number: 1804391**

May 02, 2018

**Attention Sean Trimble:**

Fremont Analytical, Inc. received 1 sample(s) on 4/25/2018 for the analyses presented in the following report.

***Volatile Organic Compounds by EPA Method 8260C***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director

**Date:** *05/02/2018*

**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries
**Work Order:** 1804391

# Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---|---|---|---|
| 1804391-001 | S2-EFF-0425 | 04/25/2018 8:45 AM | 04/25/2018 1:44 PM |

# Case Narrative

WO#: **1804391**
Date: **5/2/2018**

**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

WorkOrder Narrative:
I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

**Client:** Environmental Partners, Inc.
**Collection Date:** 4/25/2018 8:45:00 AM
**Project:** WA Industries
**Lab ID:** 1804391-001
**Matrix:** Air
**Client Sample ID:** **S2-EFF-0425**

## Volatile Organic Compounds by EPA Method 8260C

Batch ID: 20526 Analyst: MW

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| Chloromethane | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| Vinyl chloride | ND | 0.0200 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| Bromomethane | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| Chloroethane | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| 1,1-Dichloroethene | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| Methylene chloride | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| trans-1,2-Dichloroethene | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| 1,1-Dichloroethane | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| 2,2-Dichloropropane | ND | 0.200 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| cis-1,2-Dichloroethene | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| Chloroform | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| 1,1-Dichloropropene | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| Carbon tetrachloride | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| Benzene | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| Trichloroethene (TCE) | 1.06 | 0.0500 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| 1,2-Dichloropropane | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| Bromodichloromethane | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| Dibromomethane | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| cis-1,3-Dichloropropene | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| Toluene | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| trans-1,3-Dichloropropylene | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| 1,1,2-Trichloroethane | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| 1,3-Dichloropropane | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| Tetrachloroethene (PCE) | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| Dibromochloromethane | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| Chlorobenzene | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| Ethylbenzene | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| m,p-Xylene | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| o-Xylene | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| Styrene | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| Isopropylbenzene | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| Bromoform | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |

# Analytical Report

Work Order: **1804391**
Date Reported: **5/2/2018**

**Client:** Environmental Partners, Inc.
**Collection Date:** 4/25/2018 8:45:00 AM
**Project:** WA Industries
**Lab ID:** 1804391-001
**Matrix:** Air
**Client Sample ID:** **S2-EFF-0425**

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA Method 8260C** | | | | Batch ID: 20526 | | Analyst: MW |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| n-Propylbenzene | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| Bromobenzene | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| 2-Chlorotoluene | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| 4-Chlorotoluene | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| tert-Butylbenzene | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| 1,2,3-Trichloropropane | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| sec-Butylbenzene | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| 4-Isopropyltoluene | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| 1,3-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| 1,4-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| n-Butylbenzene | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| 1,2-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| Hexachlorobutadiene | ND | 0.400 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| Naphthalene | ND | 0.100 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | µg/L | 1 | 4/27/2018 8:48:42 AM |
| Surr: Dibromofluoromethane | 106 | 56.4 - 141 | | %Rec | 1 | 4/27/2018 8:48:42 AM |
| Surr: Toluene-d8 | 100 | 66 - 138 | | %Rec | 1 | 4/27/2018 8:48:42 AM |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 102 | 64.7 - 128 | | %Rec | 1 | 4/27/2018 8:48:42 AM |

**Work Order:** 1804391
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1804391-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **4/27/2018** RunNo: **43177**
Client ID: **S2-EFF-0425** Batch ID: **20526** Analysis Date: **4/27/2018** SeqNo: **834563**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Vinyl chloride | ND | 0.0200 | | | | | | 0 | | 30 | |
| Bromomethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Methylene chloride | ND | 0.100 | | | | | | 0 | | 30 | |
| trans-1,2-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 2,2-Dichloropropane | ND | 0.200 | | | | | | 0 | | 30 | |
| cis-1,2-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloroform | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloropropene | ND | 0.100 | | | | | | 0 | | 30 | |
| Carbon tetrachloride | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | | | | | 0 | | 30 | |
| Benzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Trichloroethene (TCE) | 1.17 | 0.0500 | | | | | | 1.059 | 9.79 | 30 | |
| 1,2-Dichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromodichloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Dibromomethane | ND | 0.100 | | | | | | 0 | | 30 | |
| cis-1,3-Dichloropropene | ND | 0.100 | | | | | | 0 | | 30 | |
| Toluene | ND | 0.100 | | | | | | 0 | | 30 | |
| trans-1,3-Dichloropropylene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,2-Trichloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3-Dichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| Tetrachloroethene (PCE) | ND | 0.100 | | | | | | 0 | | 30 | |
| Dibromochloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | | | | | 0 | | 30 | |

**Work Order:** 1804391
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1804391-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **4/27/2018** RunNo: **43177**
Client ID: **S2-EFF-0425** Batch ID: **20526** Analysis Date: **4/27/2018** SeqNo: **834563**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Ethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| m,p-Xylene | ND | 0.100 | | | | | | 0 | | 30 | |
| o-Xylene | ND | 0.100 | | | | | | 0 | | 30 | |
| Styrene | ND | 0.100 | | | | | | 0 | | 30 | |
| Isopropylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromoform | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| n-Propylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 2-Chlorotoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| 4-Chlorotoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| tert-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,3-Trichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | | | | | 0 | | 30 | |
| sec-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 4-Isopropyltoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,4-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| n-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Hexachlorobutadiene | ND | 0.400 | | | | | | 0 | | 30 | |
| Naphthalene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | | | | | 0 | | 30 | |
| Surr: Dibromofluoromethane | 2.69 | | 2.500 | | 108 | 61.1 | 128 | | 0 | | |
| Surr: Toluene-d8 | 2.55 | | 2.500 | | 102 | 68.2 | 129 | | 0 | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.51 | | 2.500 | | 100 | 64.7 | 128 | | 0 | | |

**Work Order:** 1804391
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1804391-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **4/27/2018** RunNo: **43177**
Client ID: **S2-EFF-0425** Batch ID: **20526** Analysis Date: **4/27/2018** SeqNo: **834563**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|

Sample ID **LCS-20526** SampType: **LCS** Units: **µg/L** Prep Date: **4/27/2018** RunNo: **43177**
Client ID: **LCSW** Batch ID: **20526** Analysis Date: **4/27/2018** SeqNo: **834580**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 3.12 | 0.100 | 2.000 | 0 | 156 | 38.8 | 143 | | | | S |
| Chloromethane | 2.08 | 0.100 | 2.000 | 0 | 104 | 42.5 | 131 | | | | |
| Vinyl chloride | 2.37 | 0.0200 | 2.000 | 0 | 118 | 56.2 | 130 | | | | |
| Bromomethane | 2.15 | 0.100 | 2.000 | 0 | 108 | 45.4 | 138 | | | | |
| Trichlorofluoromethane (CFC-11) | 2.24 | 0.100 | 2.000 | 0 | 112 | 64.7 | 129 | | | | |
| Chloroethane | 2.41 | 0.100 | 2.000 | 0 | 121 | 62.5 | 123 | | | | |
| 1,1-Dichloroethene | 2.18 | 0.100 | 2.000 | 0 | 109 | 60.7 | 146 | | | | |
| Methylene chloride | 2.09 | 0.100 | 2.000 | 0 | 104 | 60.3 | 135 | | | | |
| trans-1,2-Dichloroethene | 2.13 | 0.100 | 2.000 | 0 | 107 | 71.3 | 129 | | | | |
| Methyl tert-butyl ether (MTBE) | 2.15 | 0.100 | 2.000 | 0 | 108 | 59.3 | 138 | | | | |
| 1,1-Dichloroethane | 2.25 | 0.100 | 2.000 | 0 | 112 | 71.3 | 129 | | | | |
| 2,2-Dichloropropane | 2.12 | 0.200 | 2.000 | 0 | 106 | 37.8 | 132 | | | | |
| cis-1,2-Dichloroethene | 2.11 | 0.100 | 2.000 | 0 | 105 | 67.5 | 127 | | | | |
| Chloroform | 2.11 | 0.100 | 2.000 | 0 | 106 | 70.3 | 123 | | | | |
| 1,1,1-Trichloroethane (TCA) | 2.10 | 0.100 | 2.000 | 0 | 105 | 67.9 | 134 | | | | |
| 1,1-Dichloropropene | 2.15 | 0.100 | 2.000 | 0 | 107 | 72.1 | 133 | | | | |
| Carbon tetrachloride | 2.04 | 0.100 | 2.000 | 0 | 102 | 64.4 | 133 | | | | |
| 1,2-Dichloroethane (EDC) | 2.10 | 0.100 | 2.000 | 0 | 105 | 65.8 | 126 | | | | |
| Benzene | 2.15 | 0.100 | 2.000 | 0 | 107 | 67.1 | 132 | | | | |
| Trichloroethene (TCE) | 2.07 | 0.0500 | 2.000 | 0 | 103 | 71.9 | 130 | | | | |
| 1,2-Dichloropropane | 2.06 | 0.100 | 2.000 | 0 | 103 | 71.9 | 131 | | | | |
| Bromodichloromethane | 1.96 | 0.100 | 2.000 | 0 | 98.2 | 70 | 130 | | | | |
| Dibromomethane | 2.11 | 0.100 | 2.000 | 0 | 105 | 74.2 | 125 | | | | |
| cis-1,3-Dichloropropene | 1.97 | 0.100 | 2.000 | 0 | 98.4 | 62.8 | 135 | | | | |
| Toluene | 2.10 | 0.100 | 2.000 | 0 | 105 | 73.6 | 127 | | | | |

**Work Order:** 1804391
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-20526** SampType: **LCS** Units: **µg/L** Prep Date: **4/27/2018** RunNo: **43177**
Client ID: **LCSW** Batch ID: **20526** Analysis Date: **4/27/2018** SeqNo: **834580**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropylene | 1.97 | 0.100 | 2.000 | 0 | 98.4 | 58.1 | 138 | | | | |
| 1,1,2-Trichloroethane | 2.09 | 0.100 | 2.000 | 0 | 105 | 65.4 | 128 | | | | |
| 1,3-Dichloropropane | 2.02 | 0.100 | 2.000 | 0 | 101 | 71.9 | 131 | | | | |
| Tetrachloroethene (PCE) | 2.11 | 0.100 | 2.000 | 0 | 105 | 52.4 | 140 | | | | |
| Dibromochloromethane | 1.96 | 0.100 | 2.000 | 0 | 98.2 | 68.7 | 139 | | | | |
| 1,2-Dibromoethane (EDB) | 2.07 | 0.0250 | 2.000 | 0 | 104 | 71.2 | 129 | | | | |
| Chlorobenzene | 2.06 | 0.100 | 2.000 | 0 | 103 | 77.2 | 122 | | | | |
| 1,1,1,2-Tetrachloroethane | 2.05 | 0.100 | 2.000 | 0 | 102 | 76.2 | 130 | | | | |
| Ethylbenzene | 2.08 | 0.100 | 2.000 | 0 | 104 | 78 | 127 | | | | |
| m,p-Xylene | 4.17 | 0.100 | 4.000 | 0 | 104 | 77.5 | 130 | | | | |
| o-Xylene | 2.09 | 0.100 | 2.000 | 0 | 104 | 77.6 | 126 | | | | |
| Styrene | 2.04 | 0.100 | 2.000 | 0 | 102 | 66.8 | 137 | | | | |
| Isopropylbenzene | 2.10 | 0.100 | 2.000 | 0 | 105 | 75.9 | 133 | | | | |
| Bromoform | 1.65 | 0.100 | 2.000 | 0 | 82.5 | 54.1 | 146 | | | | |
| 1,1,2,2-Tetrachloroethane | 2.03 | 0.100 | 2.000 | 0 | 102 | 68 | 134 | | | | |
| n-Propylbenzene | 2.08 | 0.100 | 2.000 | 0 | 104 | 77.1 | 133 | | | | |
| Bromobenzene | 2.00 | 0.100 | 2.000 | 0 | 99.8 | 71.1 | 131 | | | | |
| 1,3,5-Trimethylbenzene | 2.05 | 0.100 | 2.000 | 0 | 103 | 76.2 | 133 | | | | |
| 2-Chlorotoluene | 2.17 | 0.100 | 2.000 | 0 | 109 | 67.1 | 137 | | | | |
| 4-Chlorotoluene | 2.15 | 0.100 | 2.000 | 0 | 107 | 70.7 | 132 | | | | |
| tert-Butylbenzene | 1.99 | 0.100 | 2.000 | 0 | 99.6 | 71.3 | 139 | | | | |
| 1,2,3-Trichloropropane | 1.91 | 0.100 | 2.000 | 0 | 95.5 | 70.8 | 132 | | | | |
| 1,2,4-Trichlorobenzene | 2.16 | 0.200 | 2.000 | 0 | 108 | 61.4 | 139 | | | | |
| sec-Butylbenzene | 2.05 | 0.100 | 2.000 | 0 | 102 | 77.4 | 136 | | | | |
| 4-Isopropyltoluene | 2.03 | 0.100 | 2.000 | 0 | 101 | 78.1 | 131 | | | | |
| 1,3-Dichlorobenzene | 2.03 | 0.100 | 2.000 | 0 | 101 | 73.5 | 125 | | | | |
| 1,4-Dichlorobenzene | 2.04 | 0.100 | 2.000 | 0 | 102 | 71.4 | 125 | | | | |
| n-Butylbenzene | 2.14 | 0.100 | 2.000 | 0 | 107 | 69.8 | 138 | | | | |
| 1,2-Dichlorobenzene | 2.08 | 0.100 | 2.000 | 0 | 104 | 74.2 | 123 | | | | |
| 1,2-Dibromo-3-chloropropane | 1.99 | 0.100 | 2.000 | 0 | 99.6 | 53.6 | 155 | | | | |
| 1,2,4-Trimethylbenzene | 2.00 | 0.100 | 2.000 | 0 | 100 | 72.3 | 133 | | | | |

**Work Order:** 1804391
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-20526** SampType: **LCS** Units: **µg/L** Prep Date: **4/27/2018** RunNo: **43177**
Client ID: **LCSW** Batch ID: **20526** Analysis Date: **4/27/2018** SeqNo: **834580**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | 2.19 | 0.400 | 2.000 | 0 | 109 | 60.9 | 141 | | | | |
| Naphthalene | 2.16 | 0.100 | 2.000 | 0 | 108 | 58.2 | 140 | | | | |
| 1,2,3-Trichlorobenzene | 2.19 | 0.400 | 2.000 | 0 | 110 | 61.3 | 133 | | | | |
| Surr: Dibromofluoromethane | 2.77 | | 2.500 | | 111 | 56.4 | 141 | | | | |
| Surr: Toluene-d8 | 2.54 | | 2.500 | | 102 | 66 | 138 | | | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.58 | | 2.500 | | 103 | 64.7 | 128 | | | | |

**NOTES:**
S - Outlying spike recovery observed (high bias). Samples are non-detect for this analyte; no further action required.

Sample ID **MB-20526** SampType: **MBLK** Units: **µg/L** Prep Date: **4/27/2018** RunNo: **43177**
Client ID: **MBLKW** Batch ID: **20526** Analysis Date: **4/28/2018** SeqNo: **834581**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | | | | | | | | |
| Chloromethane | ND | 0.100 | | | | | | | | | |
| Vinyl chloride | ND | 0.0200 | | | | | | | | | |
| Bromomethane | ND | 0.100 | | | | | | | | | |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | | | | | | | | |
| Chloroethane | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Methylene chloride | ND | 0.100 | | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.100 | | | | | | | | | |
| 2,2-Dichloropropane | ND | 0.200 | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Chloroform | ND | 0.100 | | | | | | | | | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.100 | | | | | | | | | |
| Carbon tetrachloride | ND | 0.100 | | | | | | | | | |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | | | | | | | | |

**Work Order:** 1804391
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **MB-20526** SampType: **MBLK** Units: **µg/L** Prep Date: **4/27/2018** RunNo: **43177**
Client ID: **MBLKW** Batch ID: **20526** Analysis Date: **4/28/2018** SeqNo: **834581**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | 0.100 | | | | | | | | | |
| Trichloroethene (TCE) | ND | 0.0500 | | | | | | | | | |
| 1,2-Dichloropropane | ND | 0.100 | | | | | | | | | |
| Bromodichloromethane | ND | 0.100 | | | | | | | | | |
| Dibromomethane | ND | 0.100 | | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.100 | | | | | | | | | |
| Toluene | ND | 0.100 | | | | | | | | | |
| trans-1,3-Dichloropropylene | ND | 0.100 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.100 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 0.100 | | | | | | | | | |
| Tetrachloroethene (PCE) | ND | 0.100 | | | | | | | | | |
| Dibromochloromethane | ND | 0.100 | | | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | | | | | | | | |
| Chlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | | | | | | | | |
| Ethylbenzene | ND | 0.100 | | | | | | | | | |
| m,p-Xylene | ND | 0.100 | | | | | | | | | |
| o-Xylene | ND | 0.100 | | | | | | | | | |
| Styrene | ND | 0.100 | | | | | | | | | |
| Isopropylbenzene | ND | 0.100 | | | | | | | | | |
| Bromoform | ND | 0.100 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | | | | | | | | |
| n-Propylbenzene | ND | 0.100 | | | | | | | | | |
| Bromobenzene | ND | 0.100 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | | | | | | | | |
| 2-Chlorotoluene | ND | 0.100 | | | | | | | | | |
| 4-Chlorotoluene | ND | 0.100 | | | | | | | | | |
| tert-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.100 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | | | | | | | | |
| sec-Butylbenzene | ND | 0.100 | | | | | | | | | |

**Work Order:** 1804391
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **MB-20526** SampType: **MBLK** Units: **µg/L** Prep Date: **4/27/2018** RunNo: **43177**
Client ID: **MBLKW** Batch ID: **20526** Analysis Date: **4/28/2018** SeqNo: **834581**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-Isopropyltoluene | ND | 0.100 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| n-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | | | | | | | | |
| Hexachlorobutadiene | ND | 0.400 | | | | | | | | | |
| Naphthalene | ND | 0.100 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | | | | | | | | |
| Surr: Dibromofluoromethane | 2.66 | | 2.500 | | 106 | 56.4 | 141 | | | | |
| Surr: Toluene-d8 | 2.51 | | 2.500 | | 100 | 66 | 138 | | | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.49 | | 2.500 | | 99.6 | 64.7 | 128 | | | | |

# Sample Log-In Check List

| | | | |
|---|---|---|---|
| Client Name: | **EPI** | Work Order Number: | **1804391** |
| Logged by: | **Brianna Barnes** | Date Received: | **4/25/2018 1:44:00 PM** |

## Chain of Custody

| | | | | |
|---|---|---|---|---|
| 1. | Is Chain of Custody complete? | Yes ☑ | No ☐ | Not Present ☐ |
| 2. | How was the sample delivered? | Client | | |

## Log In

| | | | | |
|---|---|---|---|---|
| 3. | Coolers are present? | Yes ☐ | No ☑ | NA ☐ |
| | | **Air Sample.** | | |
| 4. | Shipping container/cooler in good condition? | Yes ☑ | No ☐ | |
| 5. | Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact) | Yes ☐ | No ☐ | Not Required ☑ |
| 6. | Was an attempt made to cool the samples? | Yes ☐ | No ☐ | NA ☑ |
| 7. | Were all items received at a temperature of >0°C to 10.0°C* | Yes ☐ | No ☐ | NA ☑ |
| 8. | Sample(s) in proper container(s)? | Yes ☑ | No ☐ | |
| 9. | Sufficient sample volume for indicated test(s)? | Yes ☑ | No ☐ | |
| 10. | Are samples properly preserved? | Yes ☑ | No ☐ | |
| 11. | Was preservative added to bottles? | Yes ☐ | No ☑ | NA ☐ |
| 12. | Is there headspace in the VOA vials? | Yes ☐ | No ☐ | NA ☑ |
| 13. | Did all samples containers arrive in good condition(unbroken)? | Yes ☑ | No ☐ | |
| 14. | Does paperwork match bottle labels? | Yes ☑ | No ☐ | |
| 15. | Are matrices correctly identified on Chain of Custody? | Yes ☑ | No ☐ | |
| 16. | Is it clear what analyses were requested? | Yes ☑ | No ☐ | |
| 17. | Were all holding times able to be met? | Yes ☑ | No ☐ | |

## Special Handling (if applicable)

| | | | | |
|---|---|---|---|---|
| 18. | Was client notified of all discrepancies with this order? | Yes ☐ | No ☐ | NA ☑ |

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

19. Additional remarks:

**Item Information**

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

# Air Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Laboratory Project No (Internal): 1804391

Date: 4/25/18 Page: 1 of: 1

Special Remarks: Provide EDD Table

Client: EPI

Address: 1180 NW Maple St.

City, State, Zip: Issaquah, WA 98027

Telephone: 425-395-0010

Fax:

Project Name: WA Industries

Project No: 6400.6

Location: 825 S. Dakota St. Seattle, WA

Collected by: J. Sherrod

Reports to (PM): Sean Trimble

Email (PM): seant@epi-wa.com

| | Sample Name | Canister / Flow Reg Serial # | Sample Date & Time | Sample Type (Matrix) * | Container Type ** | Sample Volume | Fill Time | Flow Rate | Internal: Initial Evacuation Pressure (mtorr) | Field Initial Sample Pressure (" Hg) | Field Final Sample Pressure (" Hg) | Analysis Requested | Internal: Receipt Date | Internal: Final Pressure ("Hg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | S2-EFF-0425 | Canister / Flow Reg. | 4/25/18 Date / 0845 Time | S | TB | 1L | .5 min | | Pressure / Date | Pressure / Time | Pressure / Time | VOCs by 8260c | | |
| 2 | | Canister / Flow Reg. | Date / Time | | | | | | Pressure / Date | Pressure / Time | Pressure / Time | | | |
| 3 | | Canister / Flow Reg. | Date / Time | | | | | | Pressure / Date | Pressure / Time | Pressure / Time | | | |
| 4 | | Canister / Flow Reg. | Date / Time | | | | | | Pressure / Date | Pressure / Time | Pressure / Time | | | |
| 5 | | Canister / Flow Reg. | Date / Time | | | | | | Pressure / Date | Pressure / Time | Pressure / Time | | | |

* Matrix Codes: AA = Ambient Air IA = Indoor Air L = Landfill S = Subslab / Soil Gas

** Container Codes: BV = 1 Liter Bottle Vac CAN = Canister CYL = High Pressure Cylinder F = Filter S = Sorbent Tube TB = Tedlar Bag

**I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.**

| Relinquished | Date/Time | Received | Date/Time |
|---|---|---|---|
| x | 4/25/18 1344 | x | 4/25/18 1344 |
| Relinquished | Date/Time | Received | Date/Time |
| x | | x | |

**Turn-Around Time:**

- [x] Standard
- [ ] 3 Day
- [ ] 2 Day
- [ ] Next Day
- Same Day _____ (specify)

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

**Environmental Partners, Inc.**
Sean Trimble
1180 NW Maple Street, Suite 310
Issaquah, WA 98027

**RE: WA Industries**
**Work Order Number: 1806068**

June 14, 2018

**Attention Sean Trimble:**

Fremont Analytical, Inc. received 1 sample(s) on 6/8/2018 for the analyses presented in the following report.

***Volatile Organic Compounds by EPA Method 8260C***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director

**CC:**
Joe Sherrod

**Date:** *06/14/2018*

**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries
**Work Order:** 1806068

# Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---|---|---|---|
| 1806068-001 | S2-EFF-0608 | 06/08/2018 5:41 AM | 06/08/2018 8:02 AM |

# Case Narrative

WO#: **1806068**
Date: **6/14/2018**

**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

WorkOrder Narrative:
I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

**Client:** Environmental Partners, Inc. **Collection Date:** 6/8/2018 5:41:00 AM
**Project:** WA Industries
**Lab ID:** 1806068-001 **Matrix:** Air
**Client Sample ID:** **S2-EFF-0608**

## Volatile Organic Compounds by EPA Method 8260C

Batch ID: 20918 Analyst: MW

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | Q | µg/L | 1 | 6/8/2018 12:08:07 PM |
| Chloromethane | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| Vinyl chloride | ND | 0.0200 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| Bromomethane | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| Chloroethane | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| 1,1-Dichloroethene | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| Methylene chloride | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| trans-1,2-Dichloroethene | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| 1,1-Dichloroethane | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| 2,2-Dichloropropane | ND | 0.200 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| cis-1,2-Dichloroethene | 0.214 | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| Chloroform | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| 1,1-Dichloropropene | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| Carbon tetrachloride | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| Benzene | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| Trichloroethene (TCE) | 2.39 | 0.0500 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| 1,2-Dichloropropane | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| Bromodichloromethane | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| Dibromomethane | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| cis-1,3-Dichloropropene | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| Toluene | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| trans-1,3-Dichloropropylene | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| 1,1,2-Trichloroethane | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| 1,3-Dichloropropane | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| Tetrachloroethene (PCE) | 0.221 | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| Dibromochloromethane | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| Chlorobenzene | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| Ethylbenzene | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| m,p-Xylene | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| o-Xylene | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| Styrene | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| Isopropylbenzene | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| Bromoform | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |

# Analytical Report

Work Order: **1806068**
Date Reported: **6/14/2018**

**Client:** Environmental Partners, Inc.
**Collection Date:** 6/8/2018 5:41:00 AM
**Project:** WA Industries
**Lab ID:** 1806068-001
**Matrix:** Air
**Client Sample ID:** **S2-EFF-0608**

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA Method 8260C** | | | | Batch ID: 20918 | | Analyst: MW |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| n-Propylbenzene | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| Bromobenzene | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| 2-Chlorotoluene | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| 4-Chlorotoluene | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| tert-Butylbenzene | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| 1,2,3-Trichloropropane | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| sec-Butylbenzene | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| 4-Isopropyltoluene | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| 1,3-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| 1,4-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| n-Butylbenzene | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| 1,2-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| Hexachlorobutadiene | ND | 0.400 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| Naphthalene | ND | 0.100 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | µg/L | 1 | 6/8/2018 12:08:07 PM |
| Surr: Dibromofluoromethane | 97.4 | 56.4 - 141 | | %Rec | 1 | 6/8/2018 12:08:07 PM |
| Surr: Toluene-d8 | 98.6 | 66 - 138 | | %Rec | 1 | 6/8/2018 12:08:07 PM |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 99.2 | 64.7 - 128 | | %Rec | 1 | 6/8/2018 12:08:07 PM |

**NOTES:**
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift)

**Work Order:** 1806068
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **MB-20918** SampType: **MBLK** Units: **µg/L** Prep Date: **6/8/2018** RunNo: **43990**
Client ID: **MBLKW** Batch ID: **20918** Analysis Date: **6/8/2018** SeqNo: **851325**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | | | | | | | | Q |
| Chloromethane | ND | 0.100 | | | | | | | | | |
| Vinyl chloride | ND | 0.0200 | | | | | | | | | |
| Bromomethane | ND | 0.100 | | | | | | | | | |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | | | | | | | | |
| Chloroethane | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Methylene chloride | ND | 0.100 | | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.100 | | | | | | | | | |
| 2,2-Dichloropropane | ND | 0.200 | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Chloroform | ND | 0.100 | | | | | | | | | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.100 | | | | | | | | | |
| Carbon tetrachloride | ND | 0.100 | | | | | | | | | |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | | | | | | | | |
| Benzene | ND | 0.100 | | | | | | | | | |
| Trichloroethene (TCE) | ND | 0.0500 | | | | | | | | | |
| 1,2-Dichloropropane | ND | 0.100 | | | | | | | | | |
| Bromodichloromethane | ND | 0.100 | | | | | | | | | |
| Dibromomethane | ND | 0.100 | | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.100 | | | | | | | | | |
| Toluene | ND | 0.100 | | | | | | | | | |
| trans-1,3-Dichloropropylene | ND | 0.100 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.100 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 0.100 | | | | | | | | | |
| Tetrachloroethene (PCE) | ND | 0.100 | | | | | | | | | |
| Dibromochloromethane | ND | 0.100 | | | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | | | | | | | | |

**Work Order:** 1806068
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **MB-20918** SampType: **MBLK** Units: **µg/L** Prep Date: **6/8/2018** RunNo: **43990**
Client ID: **MBLKW** Batch ID: **20918** Analysis Date: **6/8/2018** SeqNo: **851325**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | | | | | | | | |
| Ethylbenzene | ND | 0.100 | | | | | | | | | |
| m,p-Xylene | ND | 0.100 | | | | | | | | | |
| o-Xylene | ND | 0.100 | | | | | | | | | |
| Styrene | ND | 0.100 | | | | | | | | | |
| Isopropylbenzene | ND | 0.100 | | | | | | | | | |
| Bromoform | ND | 0.100 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | | | | | | | | |
| n-Propylbenzene | ND | 0.100 | | | | | | | | | |
| Bromobenzene | ND | 0.100 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | | | | | | | | |
| 2-Chlorotoluene | ND | 0.100 | | | | | | | | | |
| 4-Chlorotoluene | ND | 0.100 | | | | | | | | | |
| tert-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.100 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | | | | | | | | |
| sec-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 4-Isopropyltoluene | ND | 0.100 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| n-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | | | | | | | | |
| Hexachlorobutadiene | ND | 0.400 | | | | | | | | | |
| Naphthalene | ND | 0.100 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | | | | | | | | |
| Surr: Dibromofluoromethane | 2.42 | | 2.500 | | 96.8 | 56.4 | 141 | | | | |
| Surr: Toluene-d8 | 2.47 | | 2.500 | | 98.6 | 66 | 138 | | | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.51 | | 2.500 | | 100 | 64.7 | 128 | | | | |

**Work Order:** 1806068
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **MB-20918** SampType: **MBLK** Units: **µg/L** Prep Date: **6/8/2018** RunNo: **43990**
Client ID: **MBLKW** Batch ID: **20918** Analysis Date: **6/8/2018** SeqNo: **851325**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|

**NOTES:**
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift)

Sample ID **1806068-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **6/8/2018** RunNo: **43990**
Client ID: **S2-EFF-0608** Batch ID: **20918** Analysis Date: **6/8/2018** SeqNo: **851320**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | | | | | 0 | | 30 | Q |
| Chloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Vinyl chloride | ND | 0.0200 | | | | | | 0 | | 30 | |
| Bromomethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Methylene chloride | ND | 0.100 | | | | | | 0 | | 30 | |
| trans-1,2-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 2,2-Dichloropropane | ND | 0.200 | | | | | | 0 | | 30 | |
| cis-1,2-Dichloroethene | 0.233 | 0.100 | | | | | | 0.2136 | 8.69 | 30 | |
| Chloroform | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloropropene | ND | 0.100 | | | | | | 0 | | 30 | |
| Carbon tetrachloride | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | | | | | 0 | | 30 | |
| Benzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Trichloroethene (TCE) | 2.66 | 0.0500 | | | | | | 2.386 | 10.7 | 30 | |
| 1,2-Dichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromodichloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Dibromomethane | ND | 0.100 | | | | | | 0 | | 30 | |
| cis-1,3-Dichloropropene | ND | 0.100 | | | | | | 0 | | 30 | |

**Work Order:** 1806068
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1806068-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **6/8/2018** RunNo: **43990**
Client ID: **S2-EFF-0608** Batch ID: **20918** Analysis Date: **6/8/2018** SeqNo: **851320**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Toluene | ND | 0.100 | | | | | | 0 | | 30 | |
| trans-1,3-Dichloropropylene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,2-Trichloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3-Dichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| Tetrachloroethene (PCE) | 0.243 | 0.100 | | | | | | 0.2210 | 9.29 | 30 | |
| Dibromochloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | | | | | 0 | | 30 | |
| Chlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Ethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| m,p-Xylene | ND | 0.100 | | | | | | 0 | | 30 | |
| o-Xylene | ND | 0.100 | | | | | | 0 | | 30 | |
| Styrene | ND | 0.100 | | | | | | 0 | | 30 | |
| Isopropylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromoform | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| n-Propylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 2-Chlorotoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| 4-Chlorotoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| tert-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,3-Trichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | | | | | 0 | | 30 | |
| sec-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 4-Isopropyltoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,4-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| n-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | | | | | 0 | | 30 | |

**Work Order:** 1806068
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1806068-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **6/8/2018** RunNo: **43990**
Client ID: **S2-EFF-0608** Batch ID: **20918** Analysis Date: **6/8/2018** SeqNo: **851320**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Hexachlorobutadiene | ND | 0.400 | | | | | | 0 | | 30 | |
| Naphthalene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | | | | | 0 | | 30 | |
| Surr: Dibromofluoromethane | 2.53 | | 2.500 | | 101 | 61.1 | 128 | | 0 | | |
| Surr: Toluene-d8 | 2.49 | | 2.500 | | 99.4 | 68.2 | 129 | | 0 | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.45 | | 2.500 | | 97.9 | 64.7 | 128 | | 0 | | |

**NOTES:**
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift)

Sample ID **LCS-20918** SampType: **LCS** Units: **µg/L** Prep Date: **6/8/2018** RunNo: **43990**
Client ID: **LCSW** Batch ID: **20918** Analysis Date: **6/8/2018** SeqNo: **851324**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 2.08 | 0.100 | 2.000 | 0 | 104 | 38.8 | 143 | | | | |
| Chloromethane | 1.76 | 0.100 | 2.000 | 0 | 87.8 | 42.5 | 131 | | | | |
| Vinyl chloride | 1.85 | 0.0200 | 2.000 | 0 | 92.6 | 56.2 | 130 | | | | |
| Bromomethane | 1.90 | 0.100 | 2.000 | 0 | 95.0 | 45.4 | 138 | | | | |
| Trichlorofluoromethane (CFC-11) | 1.99 | 0.100 | 2.000 | 0 | 99.5 | 64.7 | 129 | | | | |
| Chloroethane | 1.87 | 0.100 | 2.000 | 0 | 93.3 | 62.5 | 123 | | | | |
| 1,1-Dichloroethene | 1.92 | 0.100 | 2.000 | 0 | 96.0 | 60.7 | 146 | | | | |
| Methylene chloride | 1.92 | 0.100 | 2.000 | 0 | 96.0 | 60.3 | 135 | | | | |
| trans-1,2-Dichloroethene | 1.90 | 0.100 | 2.000 | 0 | 95.0 | 71.3 | 129 | | | | |
| Methyl tert-butyl ether (MTBE) | 2.04 | 0.100 | 2.000 | 0 | 102 | 59.3 | 138 | | | | |
| 1,1-Dichloroethane | 1.89 | 0.100 | 2.000 | 0 | 94.7 | 71.3 | 129 | | | | |
| 2,2-Dichloropropane | 2.14 | 0.200 | 2.000 | 0 | 107 | 37.8 | 132 | | | | |
| cis-1,2-Dichloroethene | 1.99 | 0.100 | 2.000 | 0 | 99.5 | 67.5 | 127 | | | | |
| Chloroform | 1.98 | 0.100 | 2.000 | 0 | 98.8 | 70.3 | 123 | | | | |
| 1,1,1-Trichloroethane (TCA) | 1.97 | 0.100 | 2.000 | 0 | 98.4 | 67.9 | 134 | | | | |
| 1,1-Dichloropropene | 1.92 | 0.100 | 2.000 | 0 | 96.1 | 72.1 | 133 | | | | |
| Carbon tetrachloride | 1.93 | 0.100 | 2.000 | 0 | 96.5 | 64.4 | 133 | | | | |

**Work Order:** 1806068
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-20918** SampType: **LCS** Units: **µg/L** Prep Date: **6/8/2018** RunNo: **43990**
Client ID: **LCSW** Batch ID: **20918** Analysis Date: **6/8/2018** SeqNo: **851324**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane (EDC) | 2.09 | 0.100 | 2.000 | 0 | 105 | 65.8 | 126 | | | | |
| Benzene | 1.89 | 0.100 | 2.000 | 0 | 94.5 | 67.1 | 132 | | | | |
| Trichloroethene (TCE) | 1.96 | 0.0500 | 2.000 | 0 | 98.0 | 71.9 | 130 | | | | |
| 1,2-Dichloropropane | 1.88 | 0.100 | 2.000 | 0 | 94.2 | 71.9 | 131 | | | | |
| Bromodichloromethane | 1.94 | 0.100 | 2.000 | 0 | 97.2 | 70 | 130 | | | | |
| Dibromomethane | 2.13 | 0.100 | 2.000 | 0 | 107 | 74.2 | 125 | | | | |
| cis-1,3-Dichloropropene | 1.97 | 0.100 | 2.000 | 0 | 98.5 | 62.8 | 135 | | | | |
| Toluene | 1.93 | 0.100 | 2.000 | 0 | 96.6 | 73.6 | 127 | | | | |
| trans-1,3-Dichloropropylene | 2.04 | 0.100 | 2.000 | 0 | 102 | 58.1 | 138 | | | | |
| 1,1,2-Trichloroethane | 2.05 | 0.100 | 2.000 | 0 | 102 | 65.4 | 128 | | | | |
| 1,3-Dichloropropane | 2.04 | 0.100 | 2.000 | 0 | 102 | 71.9 | 131 | | | | |
| Tetrachloroethene (PCE) | 1.99 | 0.100 | 2.000 | 0 | 99.4 | 52.4 | 140 | | | | |
| Dibromochloromethane | 1.98 | 0.100 | 2.000 | 0 | 99.0 | 68.7 | 139 | | | | |
| 1,2-Dibromoethane (EDB) | 2.14 | 0.0250 | 2.000 | 0 | 107 | 71.2 | 129 | | | | |
| Chlorobenzene | 2.00 | 0.100 | 2.000 | 0 | 100 | 77.2 | 122 | | | | |
| 1,1,1,2-Tetrachloroethane | 2.01 | 0.100 | 2.000 | 0 | 101 | 76.2 | 130 | | | | |
| Ethylbenzene | 2.04 | 0.100 | 2.000 | 0 | 102 | 78 | 127 | | | | |
| m,p-Xylene | 3.99 | 0.100 | 4.000 | 0 | 99.7 | 77.5 | 130 | | | | |
| o-Xylene | 1.97 | 0.100 | 2.000 | 0 | 98.5 | 77.6 | 126 | | | | |
| Styrene | 1.99 | 0.100 | 2.000 | 0 | 99.6 | 66.8 | 137 | | | | |
| Isopropylbenzene | 2.02 | 0.100 | 2.000 | 0 | 101 | 75.9 | 133 | | | | |
| Bromoform | 2.03 | 0.100 | 2.000 | 0 | 101 | 54.1 | 146 | | | | |
| 1,1,2,2-Tetrachloroethane | 2.09 | 0.100 | 2.000 | 0 | 105 | 68 | 134 | | | | |
| n-Propylbenzene | 2.09 | 0.100 | 2.000 | 0 | 105 | 77.1 | 133 | | | | |
| Bromobenzene | 2.03 | 0.100 | 2.000 | 0 | 102 | 71.1 | 131 | | | | |
| 1,3,5-Trimethylbenzene | 1.96 | 0.100 | 2.000 | 0 | 98.0 | 76.2 | 133 | | | | |
| 2-Chlorotoluene | 2.01 | 0.100 | 2.000 | 0 | 101 | 67.1 | 137 | | | | |
| 4-Chlorotoluene | 2.13 | 0.100 | 2.000 | 0 | 106 | 70.7 | 132 | | | | |
| tert-Butylbenzene | 1.97 | 0.100 | 2.000 | 0 | 98.7 | 71.3 | 139 | | | | |
| 1,2,3-Trichloropropane | 2.07 | 0.100 | 2.000 | 0 | 103 | 70.8 | 132 | | | | |
| 1,2,4-Trichlorobenzene | 2.11 | 0.200 | 2.000 | 0 | 105 | 61.4 | 139 | | | | |

**Work Order:** 1806068
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-20918** SampType: **LCS** Units: **µg/L** Prep Date: **6/8/2018** RunNo: **43990**
Client ID: **LCSW** Batch ID: **20918** Analysis Date: **6/8/2018** SeqNo: **851324**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | 1.94 | 0.100 | 2.000 | 0 | 97.2 | 77.4 | 136 | | | | |
| 4-Isopropyltoluene | 1.96 | 0.100 | 2.000 | 0 | 97.8 | 78.1 | 131 | | | | |
| 1,3-Dichlorobenzene | 2.00 | 0.100 | 2.000 | 0 | 100 | 73.5 | 125 | | | | |
| 1,4-Dichlorobenzene | 2.05 | 0.100 | 2.000 | 0 | 103 | 71.4 | 125 | | | | |
| n-Butylbenzene | 2.03 | 0.100 | 2.000 | 0 | 102 | 69.8 | 138 | | | | |
| 1,2-Dichlorobenzene | 2.12 | 0.100 | 2.000 | 0 | 106 | 74.2 | 123 | | | | |
| 1,2-Dibromo-3-chloropropane | 2.03 | 0.100 | 2.000 | 0 | 102 | 53.6 | 155 | | | | |
| 1,2,4-Trimethylbenzene | 1.97 | 0.100 | 2.000 | 0 | 98.5 | 72.3 | 133 | | | | |
| Hexachlorobutadiene | 1.99 | 0.400 | 2.000 | 0 | 99.5 | 60.9 | 141 | | | | |
| Naphthalene | 2.32 | 0.100 | 2.000 | 0 | 116 | 58.2 | 140 | | | | |
| 1,2,3-Trichlorobenzene | 2.13 | 0.400 | 2.000 | 0 | 106 | 61.3 | 133 | | | | |
| Surr: Dibromofluoromethane | 2.51 | | 2.500 | | 100 | 56.4 | 141 | | | | |
| Surr: Toluene-d8 | 2.44 | | 2.500 | | 97.7 | 66 | 138 | | | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.50 | | 2.500 | | 100 | 64.7 | 128 | | | | |

# Sample Log-In Check List

| | | | |
|---|---|---|---|
| Client Name: | **EPI** | Work Order Number: | **1806068** |
| Logged by: | **Brianna Barnes** | Date Received: | **6/8/2018 8:02:00 AM** |

## *Chain of Custody*

| | | | | |
|---|---|---|---|---|
| 1. | Is Chain of Custody complete? | Yes ☑ | No ☐ | Not Present ☐ |
| 2. | How was the sample delivered? | Client | | |

## *Log In*

| | | | | |
|---|---|---|---|---|
| 3. | Coolers are present? | Yes ☐ | No ☑ | NA ☐ |
| | | **Air Sample.** | | |
| 4. | Shipping container/cooler in good condition? | Yes ☑ | No ☐ | |
| 5. | Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact) | Yes ☐ | No ☐ | Not Required ☑ |
| 6. | Was an attempt made to cool the samples? | Yes ☐ | No ☐ | NA ☑ |
| 7. | Were all items received at a temperature of >0°C to 10.0°C* | Yes ☐ | No ☐ | NA ☑ |
| 8. | Sample(s) in proper container(s)? | Yes ☑ | No ☐ | |
| 9. | Sufficient sample volume for indicated test(s)? | Yes ☑ | No ☐ | |
| 10. | Are samples properly preserved? | Yes ☑ | No ☐ | |
| 11. | Was preservative added to bottles? | Yes ☐ | No ☑ | NA ☐ |
| 12. | Is there headspace in the VOA vials? | Yes ☐ | No ☐ | NA ☑ |
| 13. | Did all samples containers arrive in good condition(unbroken)? | Yes ☑ | No ☐ | |
| 14. | Does paperwork match bottle labels? | Yes ☑ | No ☐ | |
| 15. | Are matrices correctly identified on Chain of Custody? | Yes ☑ | No ☐ | |
| 16. | Is it clear what analyses were requested? | Yes ☑ | No ☐ | |
| 17. | Were all holding times able to be met? | Yes ☑ | No ☐ | |

## *Special Handling (if applicable)*

| | | | | |
|---|---|---|---|---|
| 18. | Was client notified of all discrepancies with this order? | Yes ☐ | No ☐ | NA ☑ |

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

19. Additional remarks:

**Item Information**

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

# Air Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Date: 6/8/18 Page: 1 of: 1

Laboratory Project No (Internal): 1806068

Special Remarks: Provide EDD table

Project Name: WA Industries

Project No: 64001.6

Client: EPI

Address: 1180 NW Maple St.

City, State, Zip: Issaquah, WA 98027

Telephone: 425-395-0010

Location: 825 S. Dakota St.

Collected by: J. Sherrod

Reports to (PM): Sean Trimble / Joe Sherrod

Email (PM): sean@epi-wa.com / joes@epi-wa.com

Fax:

| | Sample Name | Canister / Flow Reg Serial # | Sample Date & Time | Sample Type (Matrix) * | Container Type ** | Sample Volume | Fill Time | Flow Rate | Internal: Initial Evacuation Pressure (mtorr) | Field Initial Sample Pressure (" Hg) | Field Final Sample Pressure (" Hg) | Analysis Requested | Internal: Receipt Date | Internal: Final Pressure ("Hg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | S2-EFF-0608 | Canister / Flow Reg | 06/08 Date / 0541 Time | S | TB | 1L | 5 min | / | Pressure / Date | Pressure / Time | Pressure / Time | VOCs by 8260C | | |
| 2 | | Canister / Flow Reg | Date / Time | | | | | | Pressure / Date | Pressure / Time | Pressure / Time | | | |
| 3 | | Canister / Flow Reg | Date / Time | | | | | | Pressure / Date | Pressure / Time | Pressure / Time | | | |
| 4 | | Canister / Flow Reg | Date / Time | | | | | | Pressure / Date | Pressure / Time | Pressure / Time | | | |
| 5 | | Canister / Flow Reg | Date / Time | | | | | | Pressure / Date | Pressure / Time | Pressure / Time | | | |

* Matrix Codes: AA = Ambient Air IA = Indoor Air L = Landfill S = Subslab / Soil Gas

** Container Codes: BV = 1 Liter Bottle Vac CAN = Canister CYL = High Pressure Cylinder F = Filter S = Sorbent Tube TB = Tedlar Bag

**I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.**

| Relinquished | Date/Time | Received | Date/Time |
|---|---|---|---|
| x | 06/08/18 / 0802 | x | 6/8/18 0802 |
| Relinquished | Date/Time | Received | Date/Time |
| x | | x | |

**Turn-Around Time:**

- [x] Standard
- [ ] 3 Day
- [ ] 2 Day
- [ ] Next Day
- Same Day _____ (specify)

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

**Environmental Partners, Inc.**
Sean Trimble
1180 NW Maple Street, Suite 310
Issaquah, WA 98027

**RE: WA Industries**
**Work Order Number: 1806384**

July 06, 2018

**Attention Sean Trimble:**

Fremont Analytical, Inc. received 1 sample(s) on 6/29/2018 for the analyses presented in the following report.

***Volatile Organic Compounds by EPA Method 8260C***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director

**Date:** *07/06/2018*

**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries
**Work Order:** 1806384

# Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---|---|---|---|
| 1806384-001 | S2-EFF-0629 | 06/29/2018 9:45 AM | 06/29/2018 12:03 PM |

# Case Narrative

WO#: **1806384**
Date: **7/6/2018**

**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

WorkOrder Narrative:
I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

# Analytical Report

Work Order: **1806384**
Date Reported: **7/6/2018**

**Client:** Environmental Partners, Inc. **Collection Date:** 6/29/2018 9:45:00 AM
**Project:** WA Industries
**Lab ID:** 1806384-001 **Matrix:** Air
**Client Sample ID:** **S2-EFF-0629**

## Volatile Organic Compounds by EPA Method 8260C

Batch ID: 21126 Analyst: TN

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| Chloromethane | ND | 0.100 | Q | µg/L | 1 | 7/2/2018 9:14:17 AM |
| Vinyl chloride | ND | 0.0200 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| Bromomethane | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| Chloroethane | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| 1,1-Dichloroethene | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| Methylene chloride | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| trans-1,2-Dichloroethene | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| 1,1-Dichloroethane | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| 2,2-Dichloropropane | ND | 0.200 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| cis-1,2-Dichloroethene | 0.204 | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| Chloroform | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| 1,1-Dichloropropene | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| Carbon tetrachloride | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| Benzene | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| Trichloroethene (TCE) | 2.56 | 0.0500 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| 1,2-Dichloropropane | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| Bromodichloromethane | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| Dibromomethane | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| cis-1,3-Dichloropropene | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| Toluene | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| trans-1,3-Dichloropropylene | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| 1,1,2-Trichloroethane | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| 1,3-Dichloropropane | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| Tetrachloroethene (PCE) | 0.261 | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| Dibromochloromethane | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| Chlorobenzene | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| Ethylbenzene | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| m,p-Xylene | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| o-Xylene | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| Styrene | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| Isopropylbenzene | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| Bromoform | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |

# Analytical Report

Work Order: **1806384**
Date Reported: **7/6/2018**

**Client:** Environmental Partners, Inc. **Collection Date:** 6/29/2018 9:45:00 AM
**Project:** WA Industries
**Lab ID:** 1806384-001 **Matrix:** Air
**Client Sample ID:** **S2-EFF-0629**

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA Method 8260C** | | | | Batch ID: 21126 | | Analyst: TN |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| n-Propylbenzene | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| Bromobenzene | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| 2-Chlorotoluene | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| 4-Chlorotoluene | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| tert-Butylbenzene | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| 1,2,3-Trichloropropane | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| sec-Butylbenzene | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| 4-Isopropyltoluene | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| 1,3-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| 1,4-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| n-Butylbenzene | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| 1,2-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| Hexachlorobutadiene | ND | 0.400 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| Naphthalene | ND | 0.100 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | µg/L | 1 | 7/2/2018 9:14:17 AM |
| Surr: Dibromofluoromethane | 103 | 56.4 - 141 | | %Rec | 1 | 7/2/2018 9:14:17 AM |
| Surr: Toluene-d8 | 102 | 66 - 138 | | %Rec | 1 | 7/2/2018 9:14:17 AM |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 99.7 | 64.7 - 128 | | %Rec | 1 | 7/2/2018 9:14:17 AM |

**NOTES:**
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift)

**Work Order:** 1806384
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1806384-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **7/2/2018** RunNo: **44416**
Client ID: **S2-EFF-0629** Batch ID: **21126** Analysis Date: **7/2/2018** SeqNo: **859842**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloromethane | ND | 0.100 | | | | | | 0 | | 30 | Q |
| Vinyl chloride | ND | 0.0200 | | | | | | 0 | | 30 | |
| Bromomethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Methylene chloride | ND | 0.100 | | | | | | 0 | | 30 | |
| trans-1,2-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 2,2-Dichloropropane | ND | 0.200 | | | | | | 0 | | 30 | |
| cis-1,2-Dichloroethene | 0.183 | 0.100 | | | | | | 0.2035 | 10.7 | 30 | |
| Chloroform | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloropropene | ND | 0.100 | | | | | | 0 | | 30 | |
| Carbon tetrachloride | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | | | | | 0 | | 30 | |
| Benzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Trichloroethene (TCE) | 2.31 | 0.0500 | | | | | | 2.562 | 10.1 | 30 | |
| 1,2-Dichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromodichloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Dibromomethane | ND | 0.100 | | | | | | 0 | | 30 | |
| cis-1,3-Dichloropropene | ND | 0.100 | | | | | | 0 | | 30 | |
| Toluene | ND | 0.100 | | | | | | 0 | | 30 | |
| trans-1,3-Dichloropropylene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,2-Trichloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3-Dichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| Tetrachloroethene (PCE) | 0.220 | 0.100 | | | | | | 0.2612 | 16.9 | 30 | |
| Dibromochloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | | | | | 0 | | 30 | |

**Work Order:** 1806384
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1806384-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **7/2/2018** RunNo: **44416**
Client ID: **S2-EFF-0629** Batch ID: **21126** Analysis Date: **7/2/2018** SeqNo: **859842**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Ethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| m,p-Xylene | ND | 0.100 | | | | | | 0 | | 30 | |
| o-Xylene | ND | 0.100 | | | | | | 0 | | 30 | |
| Styrene | ND | 0.100 | | | | | | 0 | | 30 | |
| Isopropylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromoform | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| n-Propylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 2-Chlorotoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| 4-Chlorotoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| tert-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,3-Trichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | | | | | 0 | | 30 | |
| sec-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 4-Isopropyltoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,4-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| n-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Hexachlorobutadiene | ND | 0.400 | | | | | | 0 | | 30 | |
| Naphthalene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | | | | | 0 | | 30 | |
| Surr: Dibromofluoromethane | 2.90 | | 2.500 | | 116 | 61.1 | 128 | | 0 | | |
| Surr: Toluene-d8 | 2.45 | | 2.500 | | 97.9 | 68.2 | 129 | | 0 | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.59 | | 2.500 | | 104 | 64.7 | 128 | | 0 | | |

**Work Order:** 1806384
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1806384-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **7/2/2018** RunNo: **44416**
Client ID: **S2-EFF-0629** Batch ID: **21126** Analysis Date: **7/2/2018** SeqNo: **859842**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|

**NOTES:**
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift)

Sample ID **LCS-21126** SampType: **LCS** Units: **µg/L** Prep Date: **7/2/2018** RunNo: **44416**
Client ID: **LCSW** Batch ID: **21126** Analysis Date: **7/2/2018** SeqNo: **859845**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 2.08 | 0.100 | 2.000 | 0 | 104 | 38.8 | 143 | | | | |
| Chloromethane | 1.60 | 0.100 | 2.000 | 0 | 80.1 | 42.5 | 131 | | | | |
| Vinyl chloride | 1.93 | 0.0200 | 2.000 | 0 | 96.6 | 56.2 | 130 | | | | |
| Bromomethane | 2.01 | 0.100 | 2.000 | 0 | 100 | 45.4 | 138 | | | | |
| Trichlorofluoromethane (CFC-11) | 2.03 | 0.100 | 2.000 | 0 | 102 | 64.7 | 129 | | | | |
| Chloroethane | 2.24 | 0.100 | 2.000 | 0 | 112 | 62.5 | 123 | | | | |
| 1,1-Dichloroethene | 2.00 | 0.100 | 2.000 | 0 | 99.9 | 60.7 | 146 | | | | |
| Methylene chloride | 2.00 | 0.100 | 2.000 | 0 | 99.9 | 60.3 | 135 | | | | |
| trans-1,2-Dichloroethene | 2.02 | 0.100 | 2.000 | 0 | 101 | 71.3 | 129 | | | | |
| Methyl tert-butyl ether (MTBE) | 2.13 | 0.100 | 2.000 | 0 | 107 | 59.3 | 138 | | | | |
| 1,1-Dichloroethane | 2.47 | 0.100 | 2.000 | 0 | 123 | 71.3 | 129 | | | | |
| 2,2-Dichloropropane | 4.11 | 0.200 | 2.000 | 0 | 206 | 37.8 | 132 | | | | S |
| cis-1,2-Dichloroethene | 2.04 | 0.100 | 2.000 | 0 | 102 | 67.5 | 127 | | | | |
| Chloroform | 2.01 | 0.100 | 2.000 | 0 | 100 | 70.3 | 123 | | | | |
| 1,1,1-Trichloroethane (TCA) | 2.04 | 0.100 | 2.000 | 0 | 102 | 67.9 | 134 | | | | |
| 1,1-Dichloropropene | 2.06 | 0.100 | 2.000 | 0 | 103 | 72.1 | 133 | | | | |
| Carbon tetrachloride | 2.03 | 0.100 | 2.000 | 0 | 102 | 64.4 | 133 | | | | |
| 1,2-Dichloroethane (EDC) | 1.96 | 0.100 | 2.000 | 0 | 98.0 | 65.8 | 126 | | | | |
| Benzene | 1.96 | 0.100 | 2.000 | 0 | 97.9 | 67.1 | 132 | | | | |
| Trichloroethene (TCE) | 1.88 | 0.0500 | 2.000 | 0 | 94.0 | 71.9 | 130 | | | | |
| 1,2-Dichloropropane | 1.97 | 0.100 | 2.000 | 0 | 98.7 | 71.9 | 131 | | | | |
| Bromodichloromethane | 1.92 | 0.100 | 2.000 | 0 | 95.8 | 70 | 130 | | | | |
| Dibromomethane | 1.99 | 0.100 | 2.000 | 0 | 99.6 | 74.2 | 125 | | | | |
| cis-1,3-Dichloropropene | 2.01 | 0.100 | 2.000 | 0 | 100 | 62.8 | 135 | | | | |

**Work Order:** 1806384
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-21126** SampType: **LCS** Units: **µg/L** Prep Date: **7/2/2018** RunNo: **44416**
Client ID: **LCSW** Batch ID: **21126** Analysis Date: **7/2/2018** SeqNo: **859845**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Toluene | 1.95 | 0.100 | 2.000 | 0 | 97.4 | 73.6 | 127 | | | | |
| trans-1,3-Dichloropropylene | 2.01 | 0.100 | 2.000 | 0 | 101 | 58.1 | 138 | | | | |
| 1,1,2-Trichloroethane | 1.93 | 0.100 | 2.000 | 0 | 96.6 | 65.4 | 128 | | | | |
| 1,3-Dichloropropane | 1.94 | 0.100 | 2.000 | 0 | 97.0 | 71.9 | 131 | | | | |
| Tetrachloroethene (PCE) | 2.00 | 0.100 | 2.000 | 0 | 100 | 52.4 | 140 | | | | |
| Dibromochloromethane | 1.86 | 0.100 | 2.000 | 0 | 92.9 | 68.7 | 139 | | | | |
| 1,2-Dibromoethane (EDB) | 1.92 | 0.0250 | 2.000 | 0 | 95.9 | 71.2 | 129 | | | | |
| Chlorobenzene | 1.98 | 0.100 | 2.000 | 0 | 98.9 | 77.2 | 122 | | | | |
| 1,1,1,2-Tetrachloroethane | 1.97 | 0.100 | 2.000 | 0 | 98.7 | 76.2 | 130 | | | | |
| Ethylbenzene | 2.02 | 0.100 | 2.000 | 0 | 101 | 78 | 127 | | | | |
| m,p-Xylene | 4.04 | 0.100 | 4.000 | 0 | 101 | 77.5 | 130 | | | | |
| o-Xylene | 1.96 | 0.100 | 2.000 | 0 | 98.1 | 77.6 | 126 | | | | |
| Styrene | 1.96 | 0.100 | 2.000 | 0 | 97.8 | 66.8 | 137 | | | | |
| Isopropylbenzene | 2.04 | 0.100 | 2.000 | 0 | 102 | 75.9 | 133 | | | | |
| Bromoform | 1.80 | 0.100 | 2.000 | 0 | 89.8 | 54.1 | 146 | | | | |
| 1,1,2,2-Tetrachloroethane | 2.28 | 0.100 | 2.000 | 0 | 114 | 68 | 134 | | | | |
| n-Propylbenzene | 2.02 | 0.100 | 2.000 | 0 | 101 | 77.1 | 133 | | | | |
| Bromobenzene | 2.03 | 0.100 | 2.000 | 0 | 101 | 71.1 | 131 | | | | |
| 1,3,5-Trimethylbenzene | 2.07 | 0.100 | 2.000 | 0 | 103 | 76.2 | 133 | | | | |
| 2-Chlorotoluene | 1.99 | 0.100 | 2.000 | 0 | 99.6 | 67.1 | 137 | | | | |
| 4-Chlorotoluene | 2.09 | 0.100 | 2.000 | 0 | 105 | 70.7 | 132 | | | | |
| tert-Butylbenzene | 2.00 | 0.100 | 2.000 | 0 | 100 | 71.3 | 139 | | | | |
| 1,2,3-Trichloropropane | 2.32 | 0.100 | 2.000 | 0 | 116 | 70.8 | 132 | | | | |
| 1,2,4-Trichlorobenzene | 2.07 | 0.200 | 2.000 | 0 | 103 | 61.4 | 139 | | | | |
| sec-Butylbenzene | 2.08 | 0.100 | 2.000 | 0 | 104 | 77.4 | 136 | | | | |
| 4-Isopropyltoluene | 2.08 | 0.100 | 2.000 | 0 | 104 | 78.1 | 131 | | | | |
| 1,3-Dichlorobenzene | 2.04 | 0.100 | 2.000 | 0 | 102 | 73.5 | 125 | | | | |
| 1,4-Dichlorobenzene | 1.99 | 0.100 | 2.000 | 0 | 99.3 | 71.4 | 125 | | | | |
| n-Butylbenzene | 2.14 | 0.100 | 2.000 | 0 | 107 | 69.8 | 138 | | | | |
| 1,2-Dichlorobenzene | 2.07 | 0.100 | 2.000 | 0 | 104 | 74.2 | 123 | | | | |
| 1,2-Dibromo-3-chloropropane | 2.32 | 0.100 | 2.000 | 0 | 116 | 53.6 | 155 | | | | |

**Work Order:** 1806384
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-21126** SampType: **LCS** Units: **µg/L** Prep Date: **7/2/2018** RunNo: **44416**
Client ID: **LCSW** Batch ID: **21126** Analysis Date: **7/2/2018** SeqNo: **859845**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 2.06 | 0.100 | 2.000 | 0 | 103 | 72.3 | 133 | | | | |
| Hexachlorobutadiene | 2.11 | 0.400 | 2.000 | 0 | 105 | 60.9 | 141 | | | | |
| Naphthalene | 2.01 | 0.100 | 2.000 | 0 | 101 | 58.2 | 140 | | | | |
| 1,2,3-Trichlorobenzene | 2.08 | 0.400 | 2.000 | 0 | 104 | 61.3 | 133 | | | | |
| Surr: Dibromofluoromethane | 2.95 | | 2.500 | | 118 | 56.4 | 141 | | | | |
| Surr: Toluene-d8 | 2.51 | | 2.500 | | 100 | 66 | 138 | | | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.66 | | 2.500 | | 106 | 64.7 | 128 | | | | |

**NOTES:**
S - Outlying spike recovery observed (high bias). Samples are non-detect for this analyte; no further action required.

Sample ID **MB-21126** SampType: **MBLK** Units: **µg/L** Prep Date: **7/2/2018** RunNo: **44416**
Client ID: **MBLKW** Batch ID: **21126** Analysis Date: **7/2/2018** SeqNo: **859846**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | | | | | | | | |
| Chloromethane | ND | 0.100 | | | | | | | | | Q |
| Vinyl chloride | ND | 0.0200 | | | | | | | | | |
| Bromomethane | ND | 0.100 | | | | | | | | | |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | | | | | | | | |
| Chloroethane | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Methylene chloride | ND | 0.100 | | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.100 | | | | | | | | | |
| 2,2-Dichloropropane | ND | 0.200 | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Chloroform | ND | 0.100 | | | | | | | | | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.100 | | | | | | | | | |
| Carbon tetrachloride | ND | 0.100 | | | | | | | | | |

**Work Order:** 1806384
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **MB-21126** SampType: **MBLK** Units: **µg/L** Prep Date: **7/2/2018** RunNo: **44416**
Client ID: **MBLKW** Batch ID: **21126** Analysis Date: **7/2/2018** SeqNo: **859846**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | | | | | | | | |
| Benzene | ND | 0.100 | | | | | | | | | |
| Trichloroethene (TCE) | ND | 0.0500 | | | | | | | | | |
| 1,2-Dichloropropane | ND | 0.100 | | | | | | | | | |
| Bromodichloromethane | ND | 0.100 | | | | | | | | | |
| Dibromomethane | ND | 0.100 | | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.100 | | | | | | | | | |
| Toluene | ND | 0.100 | | | | | | | | | |
| trans-1,3-Dichloropropylene | ND | 0.100 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.100 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 0.100 | | | | | | | | | |
| Tetrachloroethene (PCE) | ND | 0.100 | | | | | | | | | |
| Dibromochloromethane | ND | 0.100 | | | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | | | | | | | | |
| Chlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | | | | | | | | |
| Ethylbenzene | ND | 0.100 | | | | | | | | | |
| m,p-Xylene | ND | 0.100 | | | | | | | | | |
| o-Xylene | ND | 0.100 | | | | | | | | | |
| Styrene | ND | 0.100 | | | | | | | | | |
| Isopropylbenzene | ND | 0.100 | | | | | | | | | |
| Bromoform | ND | 0.100 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | | | | | | | | |
| n-Propylbenzene | ND | 0.100 | | | | | | | | | |
| Bromobenzene | ND | 0.100 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | | | | | | | | |
| 2-Chlorotoluene | ND | 0.100 | | | | | | | | | |
| 4-Chlorotoluene | ND | 0.100 | | | | | | | | | |
| tert-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.100 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | | | | | | | | |

**Work Order:** 1806384
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **MB-21126** SampType: **MBLK** Units: **µg/L** Prep Date: **7/2/2018** RunNo: **44416**
Client ID: **MBLKW** Batch ID: **21126** Analysis Date: **7/2/2018** SeqNo: **859846**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 4-Isopropyltoluene | ND | 0.100 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| n-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | | | | | | | | |
| Hexachlorobutadiene | ND | 0.400 | | | | | | | | | |
| Naphthalene | ND | 0.100 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | | | | | | | | |
| Surr: Dibromofluoromethane | 2.52 | | 2.500 | | 101 | 56.4 | 141 | | | | |
| Surr: Toluene-d8 | 2.51 | | 2.500 | | 100 | 66 | 138 | | | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.47 | | 2.500 | | 98.9 | 64.7 | 128 | | | | |

**NOTES:**
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift)

# Sample Log-In Check List

| | | | |
|---|---|---|---|
| Client Name: | **EPI** | Work Order Number: | **1806384** |
| Logged by: | **Brianna Barnes** | Date Received: | **6/29/2018 12:03:00 PM** |

## *Chain of Custody*

| | | | | |
|---|---|---|---|---|
| 1. | Is Chain of Custody complete? | Yes ☑ | No ☐ | Not Present ☐ |
| 2. | How was the sample delivered? | Client | | |

## *Log In*

| | | | | |
|---|---|---|---|---|
| 3. | Coolers are present? | Yes ☐ | No ☑ | NA ☐ |
| | | **Air Samples.** | | |
| 4. | Shipping container/cooler in good condition? | Yes ☑ | No ☐ | |
| 5. | Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact) | Yes ☐ | No ☐ | Not Required ☑ |
| 6. | Was an attempt made to cool the samples? | Yes ☐ | No ☐ | NA ☑ |
| 7. | Were all items received at a temperature of >0°C to 10.0°C* | Yes ☐ | No ☐ | NA ☑ |
| 8. | Sample(s) in proper container(s)? | Yes ☑ | No ☐ | |
| 9. | Sufficient sample volume for indicated test(s)? | Yes ☑ | No ☐ | |
| 10. | Are samples properly preserved? | Yes ☑ | No ☐ | |
| 11. | Was preservative added to bottles? | Yes ☐ | No ☑ | NA ☐ |
| 12. | Is there headspace in the VOA vials? | Yes ☐ | No ☐ | NA ☑ |
| 13. | Did all samples containers arrive in good condition(unbroken)? | Yes ☑ | No ☐ | |
| 14. | Does paperwork match bottle labels? | Yes ☑ | No ☐ | |
| 15. | Are matrices correctly identified on Chain of Custody? | Yes ☑ | No ☐ | |
| 16. | Is it clear what analyses were requested? | Yes ☑ | No ☐ | |
| 17. | Were all holding times able to be met? | Yes ☑ | No ☐ | |

## *Special Handling (if applicable)*

| | | | | |
|---|---|---|---|---|
| 18. | Was client notified of all discrepancies with this order? | Yes ☐ | No ☐ | NA ☑ |

| | | | |
|---|---|---|---|
| Person Notified: | | Date | |
| By Whom: | | Via: | ☐ eMail ☐ Phone ☐ Fax ☐ In Person |
| Regarding: | | | |
| Client Instructions: | | | |

19. Additional remarks:

**Item Information**

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

# Air Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Date: 6/29/18 Page: 1 of: 1

Laboratory Project No (Internal): 1806384

Project Name: WA Industries

Special Remarks: Provide EDD table

Client: EPI

Project No: 6400l

Address: 1180 NW Maple St.

Location: 825 S. Dakota St., Seattle, WA

City, State, Zip: Issaquah, WA 98027

Collected by: J. Sherrod

Telephone: 425-395-0010

Reports to (PM): Sean Trimble

Air samples are disposed of one week after report is submitted to client unless otherwise requested. ☐ OK to Dispose ☐ Hold (fees may apply)

Fax:

Email (PM): seant@epi-wa.com

| | Sample Name | Canister / Flow Reg Serial # | Sample Date & Time | Sample Type (Matrix) * | Container Type ** | Fill Time / Flow Rate | Internal: Initial Evacuation Pressure (mtorr) | Field Initial Sample Pressure (" Hg) | Field Final Sample Pressure (" Hg) | Analysis: VOCs TO15 SCAN | VOCs TO15 SCAN LL | VOCs TO15 SIM | Siloxanes TO15 | Sulfur TO15 | Sulfur Ext. TO15 | APH TO15 | Helium | Major Gases 3C | VOCs by 8260 | Comments | Internal: Final Pressure ("Hg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | S2-EPF-0629 | Canister / Flow Reg | Date 6/29/18 Time 0945 | S | TB | .5 min | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | X | | |
| 2 | | Canister / Flow Reg | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |
| 3 | | Canister / Flow Reg | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |
| 4 | | Canister / Flow Reg | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |
| 5 | | Canister / Flow Reg | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |

* Matrix Codes: AA = Ambient Air IA = Indoor Air L = Landfill S = Subslab / Soil Gas

** Container Codes: BV = 1 Liter Bottle Vac 6L = 6L Canister 1L = 1L Canister CYL = High Pressure Cylinder F = Filter S = Sorbent Tube TB = Tedlar Bag

**I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.**

| Relinquished | Date/Time | Received | Date/Time |
|---|---|---|---|
| x | 6/29/18 1203 | x | 6/29/18 1203 |
| Relinquished | Date/Time | Received | Date/Time |
| x | | x | |

**Turn-Around Time:**

- ☑ Standard
- ☐ 3 Day
- ☐ 2 Day
- ☐ Next Day
- Same Day _____ (specify)

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

**Environmental Partners, Inc.**
Sean Trimble
1180 NW Maple Street, Suite 310
Issaquah, WA 98027

**RE: WA Industries**
**Work Order Number: 1807310**

July 31, 2018

**Attention Sean Trimble:**

Fremont Analytical, Inc. received 1 sample(s) on 7/24/2018 for the analyses presented in the following report.

***Volatile Organic Compounds by EPA Method 8260C***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director

**Date:** *07/31/2018*

**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries
**Work Order:** 1807310

# Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---|---|---|---|
| 1807310-001 | S2-EFF-0724 | 07/24/2018 12:02 PM | 07/24/2018 12:43 PM |

# Case Narrative

WO#: **1807310**
Date: **7/31/2018**

**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

WorkOrder Narrative:
I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

**Client:** Environmental Partners, Inc. **Collection Date:** 7/24/2018 12:02:00 PM
**Project:** WA Industries
**Lab ID:** 1807310-001 **Matrix:** Air
**Client Sample ID:** **S2-EFF-0724**

## Volatile Organic Compounds by EPA Method 8260C

Batch ID: 21382 Analyst: EM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| Chloromethane | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| Vinyl chloride | ND | 0.0200 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| Bromomethane | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| Chloroethane | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| 1,1-Dichloroethene | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| Methylene chloride | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| trans-1,2-Dichloroethene | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| 1,1-Dichloroethane | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| 2,2-Dichloropropane | ND | 0.200 | Q | µg/L | 1 | 7/26/2018 1:28:38 PM |
| cis-1,2-Dichloroethene | 0.507 | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| Chloroform | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| 1,1-Dichloropropene | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| Carbon tetrachloride | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| Benzene | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| Trichloroethene (TCE) | 5.25 | 0.500 | D | µg/L | 10 | 7/26/2018 4:11:08 PM |
| 1,2-Dichloropropane | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| Bromodichloromethane | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| Dibromomethane | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| cis-1,3-Dichloropropene | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| Toluene | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| trans-1,3-Dichloropropylene | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| 1,1,2-Trichloroethane | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| 1,3-Dichloropropane | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| Tetrachloroethene (PCE) | 0.501 | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| Dibromochloromethane | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| Chlorobenzene | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| Ethylbenzene | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| m,p-Xylene | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| o-Xylene | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| Styrene | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| Isopropylbenzene | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| Bromoform | ND | 0.100 | Q | µg/L | 1 | 7/26/2018 1:28:38 PM |

# Analytical Report

Work Order: **1807310**
Date Reported: **7/31/2018**

**Client:** Environmental Partners, Inc. **Collection Date:** 7/24/2018 12:02:00 PM
**Project:** WA Industries
**Lab ID:** 1807310-001 **Matrix:** Air
**Client Sample ID:** **S2-EFF-0724**

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA Method 8260C** | | | | Batch ID: 21382 | | Analyst: EM |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| n-Propylbenzene | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| Bromobenzene | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| 2-Chlorotoluene | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| 4-Chlorotoluene | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| tert-Butylbenzene | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| 1,2,3-Trichloropropane | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| sec-Butylbenzene | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| 4-Isopropyltoluene | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| 1,3-Dichlorobenzene | ND | 0.100 | Q | µg/L | 1 | 7/26/2018 1:28:38 PM |
| 1,4-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| n-Butylbenzene | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| 1,2-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| Hexachlorobutadiene | ND | 0.400 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| Naphthalene | ND | 0.100 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | µg/L | 1 | 7/26/2018 1:28:38 PM |
| Surr: Dibromofluoromethane | 99.4 | 56.4 - 141 | | %Rec | 1 | 7/26/2018 1:28:38 PM |
| Surr: Toluene-d8 | 103 | 66 - 138 | | %Rec | 1 | 7/26/2018 1:28:38 PM |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 104 | 64.7 - 128 | | %Rec | 1 | 7/26/2018 1:28:38 PM |

**NOTES:**
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift)

**Work Order:** 1807310
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1807296-002AREP** SampType: **REP** Units: **µg/L** Prep Date: **7/25/2018** RunNo: **45008**
Client ID: **BATCH** Batch ID: **21382** Analysis Date: **7/26/2018** SeqNo: **870599**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Vinyl chloride | ND | 0.0200 | | | | | | 0 | | 30 | |
| Bromomethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Methylene chloride | ND | 0.100 | | | | | | 0 | | 30 | |
| trans-1,2-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 2,2-Dichloropropane | ND | 0.200 | | | | | | 0 | | 30 | Q |
| cis-1,2-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloroform | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloropropene | ND | 0.100 | | | | | | 0 | | 30 | |
| Carbon tetrachloride | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | | | | | 0 | | 30 | |
| Benzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Trichloroethene (TCE) | ND | 0.0500 | | | | | | 0 | | 30 | |
| 1,2-Dichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromodichloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Dibromomethane | ND | 0.100 | | | | | | 0 | | 30 | |
| cis-1,3-Dichloropropene | ND | 0.100 | | | | | | 0 | | 30 | |
| Toluene | ND | 0.100 | | | | | | 0 | | 30 | |
| trans-1,3-Dichloropropylene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,2-Trichloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3-Dichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| Tetrachloroethene (PCE) | ND | 0.100 | | | | | | 0 | | 30 | |
| Dibromochloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | | | | | 0 | | 30 | |

**Work Order:** 1807310
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1807296-002AREP** SampType: **REP** Units: **µg/L** Prep Date: **7/25/2018** RunNo: **45008**
Client ID: **BATCH** Batch ID: **21382** Analysis Date: **7/26/2018** SeqNo: **870599**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Ethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| m,p-Xylene | ND | 0.100 | | | | | | 0.1028 | 6.28 | 30 | |
| o-Xylene | ND | 0.100 | | | | | | 0 | | 30 | |
| Styrene | ND | 0.100 | | | | | | 0 | | 30 | |
| Isopropylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromoform | ND | 0.100 | | | | | | 0 | | 30 | Q |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| n-Propylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 2-Chlorotoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| 4-Chlorotoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| tert-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,3-Trichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | | | | | 0 | | 30 | |
| sec-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 4-Isopropyltoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | Q |
| 1,4-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| n-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Hexachlorobutadiene | ND | 0.400 | | | | | | 0 | | 30 | |
| Naphthalene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | | | | | 0 | | 30 | |
| Surr: Dibromofluoromethane | 2.49 | | 2.500 | | 99.7 | 61.1 | 128 | | 0 | | |
| Surr: Toluene-d8 | 2.51 | | 2.500 | | 100 | 68.2 | 129 | | 0 | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.56 | | 2.500 | | 102 | 64.7 | 128 | | 0 | | |

**Work Order:** 1807310
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1807296-002AREP** SampType: **REP** Units: **µg/L** Prep Date: **7/25/2018** RunNo: **45008**
Client ID: **BATCH** Batch ID: **21382** Analysis Date: **7/26/2018** SeqNo: **870599**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|

**NOTES:**
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift)

Sample ID **MB-21382** SampType: **MBLK** Units: **µg/L** Prep Date: **7/25/2018** RunNo: **45008**
Client ID: **MBLKW** Batch ID: **21382** Analysis Date: **7/26/2018** SeqNo: **870613**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | | | | | | | | |
| Chloromethane | ND | 0.100 | | | | | | | | | |
| Vinyl chloride | ND | 0.0200 | | | | | | | | | |
| Bromomethane | ND | 0.100 | | | | | | | | | |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | | | | | | | | |
| Chloroethane | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Methylene chloride | ND | 0.100 | | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.100 | | | | | | | | | |
| 2,2-Dichloropropane | ND | 0.200 | | | | | | | | | Q |
| cis-1,2-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Chloroform | ND | 0.100 | | | | | | | | | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.100 | | | | | | | | | |
| Carbon tetrachloride | ND | 0.100 | | | | | | | | | |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | | | | | | | | |
| Benzene | ND | 0.100 | | | | | | | | | |
| Trichloroethene (TCE) | ND | 0.0500 | | | | | | | | | |
| 1,2-Dichloropropane | ND | 0.100 | | | | | | | | | |
| Bromodichloromethane | ND | 0.100 | | | | | | | | | |
| Dibromomethane | ND | 0.100 | | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.100 | | | | | | | | | |

**Work Order:** 1807310
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **MB-21382** SampType: **MBLK** Units: **µg/L** Prep Date: **7/25/2018** RunNo: **45008**
Client ID: **MBLKW** Batch ID: **21382** Analysis Date: **7/26/2018** SeqNo: **870613**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Toluene | ND | 0.100 | | | | | | | | | |
| trans-1,3-Dichloropropylene | ND | 0.100 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.100 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 0.100 | | | | | | | | | |
| Tetrachloroethene (PCE) | ND | 0.100 | | | | | | | | | |
| Dibromochloromethane | ND | 0.100 | | | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | | | | | | | | |
| Chlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | | | | | | | | |
| Ethylbenzene | ND | 0.100 | | | | | | | | | |
| m,p-Xylene | ND | 0.100 | | | | | | | | | |
| o-Xylene | ND | 0.100 | | | | | | | | | |
| Styrene | ND | 0.100 | | | | | | | | | |
| Isopropylbenzene | ND | 0.100 | | | | | | | | | |
| Bromoform | ND | 0.100 | | | | | | | | | Q |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | | | | | | | | |
| n-Propylbenzene | ND | 0.100 | | | | | | | | | |
| Bromobenzene | ND | 0.100 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | | | | | | | | |
| 2-Chlorotoluene | ND | 0.100 | | | | | | | | | |
| 4-Chlorotoluene | ND | 0.100 | | | | | | | | | |
| tert-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.100 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | | | | | | | | |
| sec-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 4-Isopropyltoluene | ND | 0.100 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.100 | | | | | | | | | Q |
| 1,4-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| n-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | | | | | | | | |

**Work Order:** 1807310
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **MB-21382** SampType: **MBLK** Units: **µg/L** Prep Date: **7/25/2018** RunNo: **45008**
Client ID: **MBLKW** Batch ID: **21382** Analysis Date: **7/26/2018** SeqNo: **870613**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | ND | 0.100 | | | | | | | | | |
| Hexachlorobutadiene | ND | 0.400 | | | | | | | | | |
| Naphthalene | ND | 0.100 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | | | | | | | | |
| Surr: Dibromofluoromethane | 2.44 | | 2.500 | | 97.8 | 56.4 | 141 | | | | |
| Surr: Toluene-d8 | 2.54 | | 2.500 | | 102 | 66 | 138 | | | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.56 | | 2.500 | | 103 | 64.7 | 128 | | | | |

**NOTES:**
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift)

Sample ID **LCS-21382** SampType: **LCS** Units: **µg/L** Prep Date: **7/25/2018** RunNo: **45008**
Client ID: **LCSW** Batch ID: **21382** Analysis Date: **7/26/2018** SeqNo: **870612**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 2.38 | 0.100 | 2.000 | 0 | 119 | 38.8 | 143 | | | | |
| Chloromethane | 2.58 | 0.100 | 2.000 | 0 | 129 | 42.5 | 131 | | | | |
| Vinyl chloride | 2.66 | 0.0200 | 2.000 | 0 | 133 | 56.2 | 130 | | | | S |
| Bromomethane | 2.01 | 0.100 | 2.000 | 0 | 101 | 45.4 | 138 | | | | |
| Trichlorofluoromethane (CFC-11) | 2.37 | 0.100 | 2.000 | 0 | 118 | 64.7 | 129 | | | | |
| Chloroethane | 2.26 | 0.100 | 2.000 | 0 | 113 | 62.5 | 123 | | | | |
| 1,1-Dichloroethene | 2.35 | 0.100 | 2.000 | 0 | 118 | 60.7 | 146 | | | | |
| Methylene chloride | 2.17 | 0.100 | 2.000 | 0 | 109 | 60.3 | 135 | | | | |
| trans-1,2-Dichloroethene | 2.28 | 0.100 | 2.000 | 0 | 114 | 71.3 | 129 | | | | |
| Methyl tert-butyl ether (MTBE) | 2.51 | 0.100 | 2.000 | 0 | 125 | 59.3 | 138 | | | | |
| 1,1-Dichloroethane | 2.36 | 0.100 | 2.000 | 0 | 118 | 71.3 | 129 | | | | |
| 2,2-Dichloropropane | 2.75 | 0.200 | 2.000 | 0 | 138 | 37.8 | 132 | | | | S |
| cis-1,2-Dichloroethene | 2.23 | 0.100 | 2.000 | 0 | 111 | 67.5 | 127 | | | | |
| Chloroform | 2.21 | 0.100 | 2.000 | 0 | 110 | 70.3 | 123 | | | | |
| 1,1,1-Trichloroethane (TCA) | 2.22 | 0.100 | 2.000 | 0 | 111 | 67.9 | 134 | | | | |
| 1,1-Dichloropropene | 2.41 | 0.100 | 2.000 | 0 | 121 | 72.1 | 133 | | | | |
| Carbon tetrachloride | 2.11 | 0.100 | 2.000 | 0 | 106 | 64.4 | 133 | | | | |

**Work Order:** 1807310
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-21382** SampType: **LCS** Units: **µg/L** Prep Date: **7/25/2018** RunNo: **45008**
Client ID: **LCSW** Batch ID: **21382** Analysis Date: **7/26/2018** SeqNo: **870612**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane (EDC) | 2.23 | 0.100 | 2.000 | 0 | 111 | 65.8 | 126 | | | | |
| Benzene | 2.32 | 0.100 | 2.000 | 0 | 116 | 67.1 | 132 | | | | |
| Trichloroethene (TCE) | 2.32 | 0.0500 | 2.000 | 0 | 116 | 71.9 | 130 | | | | |
| 1,2-Dichloropropane | 2.41 | 0.100 | 2.000 | 0 | 121 | 71.9 | 131 | | | | |
| Bromodichloromethane | 2.08 | 0.100 | 2.000 | 0 | 104 | 70 | 130 | | | | |
| Dibromomethane | 2.34 | 0.100 | 2.000 | 0 | 117 | 74.2 | 125 | | | | |
| cis-1,3-Dichloropropene | 2.06 | 0.100 | 2.000 | 0 | 103 | 62.8 | 135 | | | | |
| Toluene | 2.29 | 0.100 | 2.000 | 0 | 114 | 73.6 | 127 | | | | |
| trans-1,3-Dichloropropylene | 2.21 | 0.100 | 2.000 | 0 | 111 | 58.1 | 138 | | | | |
| 1,1,2-Trichloroethane | 2.48 | 0.100 | 2.000 | 0 | 124 | 65.4 | 128 | | | | |
| 1,3-Dichloropropane | 2.47 | 0.100 | 2.000 | 0 | 123 | 71.9 | 131 | | | | |
| Tetrachloroethene (PCE) | 2.42 | 0.100 | 2.000 | 0 | 121 | 52.4 | 140 | | | | |
| Dibromochloromethane | 2.09 | 0.100 | 2.000 | 0 | 105 | 68.7 | 139 | | | | |
| 1,2-Dibromoethane (EDB) | 2.48 | 0.0250 | 2.000 | 0 | 124 | 71.2 | 129 | | | | |
| Chlorobenzene | 2.19 | 0.100 | 2.000 | 0 | 110 | 77.2 | 122 | | | | |
| 1,1,1,2-Tetrachloroethane | 2.11 | 0.100 | 2.000 | 0 | 106 | 76.2 | 130 | | | | |
| Ethylbenzene | 2.15 | 0.100 | 2.000 | 0 | 107 | 78 | 127 | | | | |
| m,p-Xylene | 4.34 | 0.100 | 4.000 | 0 | 108 | 77.5 | 130 | | | | |
| o-Xylene | 2.14 | 0.100 | 2.000 | 0 | 107 | 77.6 | 126 | | | | |
| Styrene | 2.12 | 0.100 | 2.000 | 0 | 106 | 66.8 | 137 | | | | |
| Isopropylbenzene | 2.27 | 0.100 | 2.000 | 0 | 114 | 75.9 | 133 | | | | |
| Bromoform | 1.98 | 0.100 | 2.000 | 0 | 99.1 | 54.1 | 146 | | | | |
| 1,1,2,2-Tetrachloroethane | 2.43 | 0.100 | 2.000 | 0 | 121 | 68 | 134 | | | | |
| n-Propylbenzene | 2.33 | 0.100 | 2.000 | 0 | 117 | 77.1 | 133 | | | | |
| Bromobenzene | 2.14 | 0.100 | 2.000 | 0 | 107 | 71.1 | 131 | | | | |
| 1,3,5-Trimethylbenzene | 2.20 | 0.100 | 2.000 | 0 | 110 | 76.2 | 133 | | | | |
| 2-Chlorotoluene | 2.40 | 0.100 | 2.000 | 0 | 120 | 67.1 | 137 | | | | |
| 4-Chlorotoluene | 1.95 | 0.100 | 2.000 | 0 | 97.6 | 70.7 | 132 | | | | |
| tert-Butylbenzene | 2.26 | 0.100 | 2.000 | 0 | 113 | 71.3 | 139 | | | | |
| 1,2,3-Trichloropropane | 2.61 | 0.100 | 2.000 | 0 | 131 | 70.8 | 132 | | | | |
| 1,2,4-Trichlorobenzene | 2.27 | 0.200 | 2.000 | 0 | 114 | 61.4 | 139 | | | | |

**Work Order:** 1807310
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-21382** SampType: **LCS** Units: **µg/L** Prep Date: **7/25/2018** RunNo: **45008**
Client ID: **LCSW** Batch ID: **21382** Analysis Date: **7/26/2018** SeqNo: **870612**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | 2.28 | 0.100 | 2.000 | 0 | 114 | 77.4 | 136 | | | | |
| 4-Isopropyltoluene | 2.20 | 0.100 | 2.000 | 0 | 110 | 78.1 | 131 | | | | |
| 1,3-Dichlorobenzene | 1.83 | 0.100 | 2.000 | 0 | 91.6 | 73.5 | 125 | | | | |
| 1,4-Dichlorobenzene | 2.24 | 0.100 | 2.000 | 0 | 112 | 71.4 | 125 | | | | |
| n-Butylbenzene | 2.43 | 0.100 | 2.000 | 0 | 121 | 69.8 | 138 | | | | |
| 1,2-Dichlorobenzene | 2.21 | 0.100 | 2.000 | 0 | 111 | 74.2 | 123 | | | | |
| 1,2-Dibromo-3-chloropropane | 2.58 | 0.100 | 2.000 | 0 | 129 | 53.6 | 155 | | | | |
| 1,2,4-Trimethylbenzene | 2.24 | 0.100 | 2.000 | 0 | 112 | 72.3 | 133 | | | | |
| Hexachlorobutadiene | 2.46 | 0.400 | 2.000 | 0 | 123 | 60.9 | 141 | | | | |
| Naphthalene | 2.51 | 0.100 | 2.000 | 0 | 126 | 58.2 | 140 | | | | |
| 1,2,3-Trichlorobenzene | 2.38 | 0.400 | 2.000 | 0 | 119 | 61.3 | 133 | | | | |
| Surr: Dibromofluoromethane | 2.42 | | 2.500 | | 96.7 | 56.4 | 141 | | | | |
| Surr: Toluene-d8 | 2.59 | | 2.500 | | 104 | 66 | 138 | | | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.60 | | 2.500 | | 104 | 64.7 | 128 | | | | |

**NOTES:**
S - Outlying spike recovery observed (high bias). Samples are non-detect for this analyte; no further action required.

# Sample Log-In Check List

| | | | |
|---|---|---|---|
| Client Name: | **EPI** | Work Order Number: | **1807310** |
| Logged by: | **Brianna Barnes** | Date Received: | **7/24/2018 12:43:00 PM** |

## *Chain of Custody*

| | | | | |
|---|---|---|---|---|
| 1. | Is Chain of Custody complete? | Yes ☑ | No ☐ | Not Present ☐ |
| 2. | How was the sample delivered? | Client | | |

## *Log In*

| | | | | |
|---|---|---|---|---|
| 3. | Coolers are present? | Yes ☐ | No ☑ | NA ☐ |
| | | **Air samples.** | | |
| 4. | Shipping container/cooler in good condition? | Yes ☑ | No ☐ | |
| 5. | Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact) | Yes ☐ | No ☐ | Not Required ☑ |
| 6. | Was an attempt made to cool the samples? | Yes ☐ | No ☐ | NA ☑ |
| 7. | Were all items received at a temperature of >0°C to 10.0°C* | Yes ☐ | No ☐ | NA ☑ |
| 8. | Sample(s) in proper container(s)? | Yes ☑ | No ☐ | |
| 9. | Sufficient sample volume for indicated test(s)? | Yes ☑ | No ☐ | |
| 10. | Are samples properly preserved? | Yes ☑ | No ☐ | |
| 11. | Was preservative added to bottles? | Yes ☐ | No ☑ | NA ☐ |
| 12. | Is there headspace in the VOA vials? | Yes ☐ | No ☐ | NA ☑ |
| 13. | Did all samples containers arrive in good condition(unbroken)? | Yes ☑ | No ☐ | |
| 14. | Does paperwork match bottle labels? | Yes ☑ | No ☐ | |
| 15. | Are matrices correctly identified on Chain of Custody? | Yes ☑ | No ☐ | |
| 16. | Is it clear what analyses were requested? | Yes ☑ | No ☐ | |
| 17. | Were all holding times able to be met? | Yes ☑ | No ☐ | |

## *Special Handling (if applicable)*

| | | | | |
|---|---|---|---|---|
| 18. | Was client notified of all discrepancies with this order? | Yes ☐ | No ☐ | NA ☑ |

| | | | |
|---|---|---|---|
| Person Notified: | | Date | |
| By Whom: | | Via: | ☐ eMail ☐ Phone ☐ Fax ☐ In Person |
| Regarding: | | | |
| Client Instructions: | | | |

19. Additional remarks:

**Item Information**

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

# Air Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Date: 7/24/18 Page: 1 of: 1

Laboratory Project No (Internal): 1807310

Project Name: WA Industries

Special Remarks: Provide EDD

Project No: 6400l.6

Client: EPI

Address: 1180 NW Maple St

Location: 825 - S Dakota St., Issaquah, WA

City, State, Zip: Issaquah, WA 98027

Collected by: J. Sherrod

Telephone: 425-395-0010

Reports to (PM): Sean Trimble

Air samples are disposed of one week after report is submitted to client unless otherwise requested. ☐ OK to Dispose ☐ Hold (fees may apply)

Fax:

Email (PM): sean@epi-wa.com

| | Sample Name | Canister / Flow Reg Serial # | Sample Date & Time | Sample Type (Matrix) * | Container Type ** | Fill Time / Flow Rate | Internal: Initial Evacuation Pressure (mtorr) | Internal: Field Initial Sample Pressure (" Hg) | Internal: Field Final Sample Pressure (" Hg) | Analysis: VOCs TO15 SCAN | VOCs TO15 SCAN LL | VOCs TO15 SIM | Siloxanes TO15 | Sulfur TO15 | Sulfur Ext. TO15 | APH TO15 | Helium | Major Gases 3C | VOCs by 8260C | Comments | Internal: Final Pressure ("Hg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | S2-EFF-0724 | / | 7/24/18 1202 | S | TB | .5 min | | / | / | | | | | | | | | | X | | |
| 2 | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | |

* Matrix Codes: AA = Ambient Air IA = Indoor Air L = Landfill S = Subslab / Soil Gas

** Container Codes: BV = 1 Liter Bottle Vac 6L = 6L Canister 1L = 1L Canister CYL = High Pressure Cylinder F = Filter S = Sorbent Tube TB = Tedlar Bag

**I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.**

| Relinquished | Date/Time | Received | Date/Time |
|---|---|---|---|
| x | 7/24/18/1243 | x | 7/24/18 1243 |
| Relinquished | Date/Time | Received | Date/Time |
| x | | x | |

**Turn-Around Time:**

- ☑ Standard
- ☐ 3 Day
- ☐ 2 Day
- ☐ Next Day
- Same Day _____ (specify)

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

**Environmental Partners, Inc.**
Sean Trimble
1180 NW Maple Street, Suite 310
Issaquah, WA 98027

**RE: WA Industries**
**Work Order Number: 1810124**

October 12, 2018

**Attention Sean Trimble:**

Fremont Analytical, Inc. received 1 sample(s) on 10/5/2018 for the analyses presented in the following report.

***Volatile Organic Compounds by EPA Method 8260C***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director

**Date:** *10/18/2018*

**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries
**Work Order:** 1810124

# Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---|---|---|---|
| 1810124-001 | S2-EFF-1005 | 10/05/2018 9:30 AM | 10/05/2018 10:40 AM |

# Case Narrative

WO#: **1810124**
Date: **10/12/2018**

**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

WorkOrder Narrative:
I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Revision 1: Corrected sample name to match Chain of Custody.

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

**Client:** Environmental Partners, Inc. **Collection Date:** 10/5/2018 9:30:00 AM
**Project:** WA Industries
**Lab ID:** 1810124-001 **Matrix:** Air
**Client Sample ID: S2-EFF-1005**

## Volatile Organic Compounds by EPA Method 8260C

Batch ID: 22214 Analyst: TN

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| Chloromethane | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| Vinyl chloride | ND | 0.0200 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| Bromomethane | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| Chloroethane | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| 1,1-Dichloroethene | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| Methylene chloride | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| trans-1,2-Dichloroethene | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| 1,1-Dichloroethane | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| 2,2-Dichloropropane | ND | 0.200 | Q | µg/L | 1 | 10/6/2018 3:16:48 PM |
| cis-1,2-Dichloroethene | 0.454 | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| Chloroform | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| 1,1-Dichloropropene | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| Carbon tetrachloride | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| Benzene | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| Trichloroethene (TCE) | 4.95 | 0.0500 | E | µg/L | 1 | 10/6/2018 3:16:48 PM |
| Trichloroethene (TCE) | 3.23 | 0.500 | DH | µg/L | 10 | 10/9/2018 5:00:00 PM |
| 1,2-Dichloropropane | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| Bromodichloromethane | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| Dibromomethane | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| cis-1,3-Dichloropropene | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| Toluene | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| trans-1,3-Dichloropropylene | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| 1,1,2-Trichloroethane | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| 1,3-Dichloropropane | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| Tetrachloroethene (PCE) | 0.378 | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| Dibromochloromethane | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| Chlorobenzene | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| Ethylbenzene | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| m,p-Xylene | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| o-Xylene | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| Styrene | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| Isopropylbenzene | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |

# Analytical Report

Work Order: **1810124**
Date Reported: **10/12/2018**

**Client:** Environmental Partners, Inc.
**Collection Date:** 10/5/2018 9:30:00 AM
**Project:** WA Industries
**Lab ID:** 1810124-001
**Matrix:** Air
**Client Sample ID:** **S2-EFF-1005**

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA Method 8260C** | | | | Batch ID: 22214 | | Analyst: TN |
| Bromoform | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| n-Propylbenzene | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| Bromobenzene | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| 2-Chlorotoluene | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| 4-Chlorotoluene | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| tert-Butylbenzene | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| 1,2,3-Trichloropropane | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| sec-Butylbenzene | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| 4-Isopropyltoluene | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| 1,3-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| 1,4-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| n-Butylbenzene | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| 1,2-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| Hexachlorobutadiene | ND | 0.400 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| Naphthalene | ND | 0.100 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | µg/L | 1 | 10/6/2018 3:16:48 PM |
| Surr: Dibromofluoromethane | 101 | 56.4 - 141 | | %Rec | 1 | 10/6/2018 3:16:48 PM |
| Surr: Toluene-d8 | 103 | 66 - 138 | | %Rec | 1 | 10/6/2018 3:16:48 PM |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 98.1 | 64.7 - 128 | | %Rec | 1 | 10/6/2018 3:16:48 PM |

**NOTES:**
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift)
E - Estimated value. The amount exceeds the linear working range of the instrument.

**Work Order:** 1810124
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1810124-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **10/6/2018** RunNo: **46816**
Client ID: **S2-EFF-1005** Batch ID: **22214** Analysis Date: **10/6/2018** SeqNo: **910658**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Vinyl chloride | ND | 0.0200 | | | | | | 0 | | 30 | |
| Bromomethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Methylene chloride | ND | 0.100 | | | | | | 0 | | 30 | |
| trans-1,2-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 2,2-Dichloropropane | ND | 0.200 | | | | | | 0 | | 30 | Q |
| cis-1,2-Dichloroethene | 0.464 | 0.100 | | | | | | 0.4541 | 2.07 | 30 | |
| Chloroform | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloropropene | ND | 0.100 | | | | | | 0 | | 30 | |
| Carbon tetrachloride | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | | | | | 0 | | 30 | |
| Benzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Trichloroethene (TCE) | 4.30 | 0.0500 | | | | | | 4.955 | 14.1 | 30 | E |
| 1,2-Dichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromodichloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Dibromomethane | ND | 0.100 | | | | | | 0 | | 30 | |
| cis-1,3-Dichloropropene | ND | 0.100 | | | | | | 0 | | 30 | |
| Toluene | ND | 0.100 | | | | | | 0 | | 30 | |
| trans-1,3-Dichloropropylene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,2-Trichloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3-Dichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| Tetrachloroethene (PCE) | 0.402 | 0.100 | | | | | | 0.3784 | 6.10 | 30 | |
| Dibromochloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | | | | | 0 | | 30 | |

**Work Order:** 1810124
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1810124-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **10/6/2018** RunNo: **46816**
Client ID: **S2-EFF-1005** Batch ID: **22214** Analysis Date: **10/6/2018** SeqNo: **910658**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Ethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| m,p-Xylene | ND | 0.100 | | | | | | 0 | | 30 | |
| o-Xylene | ND | 0.100 | | | | | | 0 | | 30 | |
| Styrene | ND | 0.100 | | | | | | 0 | | 30 | |
| Isopropylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromoform | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| n-Propylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 2-Chlorotoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| 4-Chlorotoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| tert-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,3-Trichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | | | | | 0 | | 30 | |
| sec-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 4-Isopropyltoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,4-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| n-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Hexachlorobutadiene | ND | 0.400 | | | | | | 0 | | 30 | |
| Naphthalene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | | | | | 0 | | 30 | |
| Surr: Dibromofluoromethane | 2.54 | | 2.500 | | 101 | 61.1 | 128 | | 0 | | |
| Surr: Toluene-d8 | 3.00 | | 2.500 | | 120 | 68.2 | 129 | | 0 | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.45 | | 2.500 | | 97.8 | 64.7 | 128 | | 0 | | |

**Work Order:** 1810124
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1810124-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **10/6/2018** RunNo: **46816**
Client ID: **S2-EFF-1005** Batch ID: **22214** Analysis Date: **10/6/2018** SeqNo: **910658**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|

**NOTES:**
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift)
E - Estimated value. The amount exceeds the linear working range of the instrument.

Sample ID **LCS-22214** SampType: **LCS** Units: **µg/L** Prep Date: **10/6/2018** RunNo: **46816**
Client ID: **LCSW** Batch ID: **22214** Analysis Date: **10/6/2018** SeqNo: **910662**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 2.26 | 0.100 | 2.000 | 0 | 113 | 38.8 | 143 | | | | |
| Chloromethane | 2.18 | 0.100 | 2.000 | 0 | 109 | 42.5 | 131 | | | | |
| Vinyl chloride | 2.17 | 0.0200 | 2.000 | 0 | 108 | 56.2 | 130 | | | | |
| Bromomethane | 2.19 | 0.100 | 2.000 | 0 | 110 | 45.4 | 138 | | | | |
| Trichlorofluoromethane (CFC-11) | 2.15 | 0.100 | 2.000 | 0 | 108 | 64.7 | 129 | | | | |
| Chloroethane | 2.21 | 0.100 | 2.000 | 0 | 110 | 62.5 | 123 | | | | |
| 1,1-Dichloroethene | 2.17 | 0.100 | 2.000 | 0 | 109 | 60.7 | 146 | | | | |
| Methylene chloride | 1.97 | 0.100 | 2.000 | 0 | 98.4 | 60.3 | 135 | | | | |
| trans-1,2-Dichloroethene | 1.93 | 0.100 | 2.000 | 0 | 96.3 | 71.3 | 129 | | | | |
| Methyl tert-butyl ether (MTBE) | 1.78 | 0.100 | 2.000 | 0 | 89.0 | 59.3 | 138 | | | | |
| 1,1-Dichloroethane | 1.83 | 0.100 | 2.000 | 0 | 91.3 | 71.3 | 129 | | | | |
| 2,2-Dichloropropane | 2.04 | 0.200 | 2.000 | 0 | 102 | 37.8 | 132 | | | | |
| cis-1,2-Dichloroethene | 1.91 | 0.100 | 2.000 | 0 | 95.7 | 67.5 | 127 | | | | |
| Chloroform | 1.80 | 0.100 | 2.000 | 0 | 90.2 | 70.3 | 123 | | | | |
| 1,1,1-Trichloroethane (TCA) | 1.84 | 0.100 | 2.000 | 0 | 92.0 | 67.9 | 134 | | | | |
| 1,1-Dichloropropene | 1.74 | 0.100 | 2.000 | 0 | 87.1 | 72.1 | 133 | | | | |
| Carbon tetrachloride | 1.83 | 0.100 | 2.000 | 0 | 91.7 | 64.4 | 133 | | | | |
| 1,2-Dichloroethane (EDC) | 1.79 | 0.100 | 2.000 | 0 | 89.5 | 65.8 | 126 | | | | |
| Benzene | 1.87 | 0.100 | 2.000 | 0 | 93.6 | 67.1 | 132 | | | | |
| Trichloroethene (TCE) | 2.03 | 0.0500 | 2.000 | 0 | 102 | 71.9 | 130 | | | | |
| 1,2-Dichloropropane | 2.26 | 0.100 | 2.000 | 0 | 113 | 71.9 | 131 | | | | |
| Bromodichloromethane | 2.32 | 0.100 | 2.000 | 0 | 116 | 70 | 130 | | | | |
| Dibromomethane | 2.20 | 0.100 | 2.000 | 0 | 110 | 74.2 | 125 | | | | |

**Work Order:** 1810124
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-22214** SampType: **LCS** Units: **µg/L** Prep Date: **10/6/2018** RunNo: **46816**
Client ID: **LCSW** Batch ID: **22214** Analysis Date: **10/6/2018** SeqNo: **910662**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | 2.52 | 0.100 | 2.000 | 0 | 126 | 62.8 | 135 | | | | |
| Toluene | 2.32 | 0.100 | 2.000 | 0 | 116 | 73.6 | 127 | | | | |
| trans-1,3-Dichloropropylene | 2.02 | 0.100 | 2.000 | 0 | 101 | 58.1 | 138 | | | | |
| 1,1,2-Trichloroethane | 2.03 | 0.100 | 2.000 | 0 | 101 | 65.4 | 128 | | | | |
| 1,3-Dichloropropane | 2.00 | 0.100 | 2.000 | 0 | 100 | 71.9 | 131 | | | | |
| Tetrachloroethene (PCE) | 2.14 | 0.100 | 2.000 | 0 | 107 | 52.4 | 140 | | | | |
| Dibromochloromethane | 2.05 | 0.100 | 2.000 | 0 | 102 | 68.7 | 139 | | | | |
| 1,2-Dibromoethane (EDB) | 1.99 | 0.0250 | 2.000 | 0 | 99.6 | 71.2 | 129 | | | | |
| Chlorobenzene | 2.01 | 0.100 | 2.000 | 0 | 100 | 77.2 | 122 | | | | |
| 1,1,1,2-Tetrachloroethane | 2.01 | 0.100 | 2.000 | 0 | 100 | 76.2 | 130 | | | | |
| Ethylbenzene | 2.08 | 0.100 | 2.000 | 0 | 104 | 78 | 127 | | | | |
| m,p-Xylene | 4.09 | 0.100 | 4.000 | 0 | 102 | 77.5 | 130 | | | | |
| o-Xylene | 2.02 | 0.100 | 2.000 | 0 | 101 | 77.6 | 126 | | | | |
| Styrene | 2.05 | 0.100 | 2.000 | 0 | 102 | 66.8 | 137 | | | | |
| Isopropylbenzene | 2.08 | 0.100 | 2.000 | 0 | 104 | 75.9 | 133 | | | | |
| Bromoform | 1.94 | 0.100 | 2.000 | 0 | 97.0 | 54.1 | 146 | | | | |
| 1,1,2,2-Tetrachloroethane | 1.95 | 0.100 | 2.000 | 0 | 97.6 | 68 | 134 | | | | |
| n-Propylbenzene | 2.18 | 0.100 | 2.000 | 0 | 109 | 77.1 | 133 | | | | |
| Bromobenzene | 2.00 | 0.100 | 2.000 | 0 | 100 | 71.1 | 131 | | | | |
| 1,3,5-Trimethylbenzene | 2.08 | 0.100 | 2.000 | 0 | 104 | 76.2 | 133 | | | | |
| 2-Chlorotoluene | 2.34 | 0.100 | 2.000 | 0 | 117 | 67.1 | 137 | | | | |
| 4-Chlorotoluene | 2.07 | 0.100 | 2.000 | 0 | 103 | 70.7 | 132 | | | | |
| tert-Butylbenzene | 2.03 | 0.100 | 2.000 | 0 | 102 | 71.3 | 139 | | | | |
| 1,2,3-Trichloropropane | 1.95 | 0.100 | 2.000 | 0 | 97.7 | 70.8 | 132 | | | | |
| 1,2,4-Trichlorobenzene | 2.01 | 0.200 | 2.000 | 0 | 100 | 61.4 | 139 | | | | |
| sec-Butylbenzene | 2.11 | 0.100 | 2.000 | 0 | 106 | 77.4 | 136 | | | | |
| 4-Isopropyltoluene | 2.09 | 0.100 | 2.000 | 0 | 104 | 78.1 | 131 | | | | |
| 1,3-Dichlorobenzene | 2.09 | 0.100 | 2.000 | 0 | 104 | 73.5 | 125 | | | | |
| 1,4-Dichlorobenzene | 2.17 | 0.100 | 2.000 | 0 | 108 | 71.4 | 125 | | | | |
| n-Butylbenzene | 2.16 | 0.100 | 2.000 | 0 | 108 | 69.8 | 138 | | | | |
| 1,2-Dichlorobenzene | 2.05 | 0.100 | 2.000 | 0 | 102 | 74.2 | 123 | | | | |

**Work Order:** 1810124
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-22214** SampType: **LCS** Units: **µg/L** Prep Date: **10/6/2018** RunNo: **46816**
Client ID: **LCSW** Batch ID: **22214** Analysis Date: **10/6/2018** SeqNo: **910662**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-chloropropane | 1.95 | 0.100 | 2.000 | 0 | 97.4 | 53.6 | 155 | | | | |
| 1,2,4-Trimethylbenzene | 2.08 | 0.100 | 2.000 | 0 | 104 | 72.3 | 133 | | | | |
| Hexachlorobutadiene | 2.16 | 0.400 | 2.000 | 0 | 108 | 60.9 | 141 | | | | |
| Naphthalene | 1.81 | 0.100 | 2.000 | 0 | 90.7 | 58.2 | 140 | | | | |
| 1,2,3-Trichlorobenzene | 1.98 | 0.400 | 2.000 | 0 | 98.9 | 61.3 | 133 | | | | |
| Surr: Dibromofluoromethane | 2.34 | | 2.500 | | 93.7 | 56.4 | 141 | | | | |
| Surr: Toluene-d8 | 2.96 | | 2.500 | | 118 | 66 | 138 | | | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.53 | | 2.500 | | 101 | 64.7 | 128 | | | | |

Sample ID **MB-22214** SampType: **MBLK** Units: **µg/L** Prep Date: **10/6/2018** RunNo: **46816**
Client ID: **MBLKW** Batch ID: **22214** Analysis Date: **10/6/2018** SeqNo: **910663**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | | | | | | | | |
| Chloromethane | ND | 0.100 | | | | | | | | | |
| Vinyl chloride | ND | 0.0200 | | | | | | | | | |
| Bromomethane | ND | 0.100 | | | | | | | | | |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | | | | | | | | |
| Chloroethane | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Methylene chloride | ND | 0.100 | | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.100 | | | | | | | | | |
| 2,2-Dichloropropane | ND | 0.200 | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Chloroform | ND | 0.100 | | | | | | | | | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.100 | | | | | | | | | |
| Carbon tetrachloride | ND | 0.100 | | | | | | | | | |

**Work Order:** 1810124
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **MB-22214** SampType: **MBLK** Units: **µg/L** Prep Date: **10/6/2018** RunNo: **46816**
Client ID: **MBLKW** Batch ID: **22214** Analysis Date: **10/6/2018** SeqNo: **910663**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | | | | | | | | |
| Benzene | ND | 0.100 | | | | | | | | | |
| Trichloroethene (TCE) | ND | 0.0500 | | | | | | | | | |
| 1,2-Dichloropropane | ND | 0.100 | | | | | | | | | |
| Bromodichloromethane | ND | 0.100 | | | | | | | | | |
| Dibromomethane | ND | 0.100 | | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.100 | | | | | | | | | |
| Toluene | ND | 0.100 | | | | | | | | | |
| trans-1,3-Dichloropropylene | ND | 0.100 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.100 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 0.100 | | | | | | | | | |
| Tetrachloroethene (PCE) | ND | 0.100 | | | | | | | | | |
| Dibromochloromethane | ND | 0.100 | | | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | | | | | | | | |
| Chlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | | | | | | | | |
| Ethylbenzene | ND | 0.100 | | | | | | | | | |
| m,p-Xylene | ND | 0.100 | | | | | | | | | |
| o-Xylene | ND | 0.100 | | | | | | | | | |
| Styrene | ND | 0.100 | | | | | | | | | |
| Isopropylbenzene | ND | 0.100 | | | | | | | | | |
| Bromoform | ND | 0.100 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | | | | | | | | |
| n-Propylbenzene | ND | 0.100 | | | | | | | | | |
| Bromobenzene | ND | 0.100 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | | | | | | | | |
| 2-Chlorotoluene | ND | 0.100 | | | | | | | | | |
| 4-Chlorotoluene | ND | 0.100 | | | | | | | | | |
| tert-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.100 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | | | | | | | | |

**Work Order:** 1810124
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **MB-22214** SampType: **MBLK** Units: **µg/L** Prep Date: **10/6/2018** RunNo: **46816**
Client ID: **MBLKW** Batch ID: **22214** Analysis Date: **10/6/2018** SeqNo: **910663**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 4-Isopropyltoluene | ND | 0.100 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| n-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | | | | | | | | |
| Hexachlorobutadiene | ND | 0.400 | | | | | | | | | |
| Naphthalene | ND | 0.100 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | | | | | | | | |
| Surr: Dibromofluoromethane | 2.64 | | 2.500 | | 105 | 56.4 | 141 | | | | |
| Surr: Toluene-d8 | 3.01 | | 2.500 | | 120 | 66 | 138 | | | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.25 | | 2.500 | | 90.1 | 64.7 | 128 | | | | |

# Sample Log-In Check List

| | | | |
|---|---|---|---|
| Client Name: | **EPI** | Work Order Number: | **1810124** |
| Logged by: | **Brianna Barnes** | Date Received: | **10/5/2018 10:40:00 AM** |

## *Chain of Custody*

| | | | | | | |
|---|---|---|---|---|---|---|
| 1. | Is Chain of Custody complete? | Yes | ☑ | No | ☐ | Not Present ☐ |
| 2. | How was the sample delivered? | Client | | | | |

## *Log In*

| | | | | | | |
|---|---|---|---|---|---|---|
| 3. | Coolers are present? | Yes | ☐ | No | ☑ | NA ☐ |
| | | **Air samples.** | | | | |
| 4. | Shipping container/cooler in good condition? | Yes | ☑ | No | ☐ | |
| 5. | Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact) | Yes | ☐ | No | ☐ | Not Required ☑ |
| 6. | Was an attempt made to cool the samples? | Yes | ☐ | No | ☐ | NA ☑ |
| 7. | Were all items received at a temperature of >0°C to 10.0°C* | Yes | ☐ | No | ☐ | NA ☑ |
| 8. | Sample(s) in proper container(s)? | Yes | ☑ | No | ☐ | |
| 9. | Sufficient sample volume for indicated test(s)? | Yes | ☑ | No | ☐ | |
| 10. | Are samples properly preserved? | Yes | ☑ | No | ☐ | |
| 11. | Was preservative added to bottles? | Yes | ☐ | No | ☑ | NA ☐ |
| 12. | Is there headspace in the VOA vials? | Yes | ☐ | No | ☐ | NA ☑ |
| 13. | Did all samples containers arrive in good condition(unbroken)? | Yes | ☑ | No | ☐ | |
| 14. | Does paperwork match bottle labels? | Yes | ☑ | No | ☐ | |
| 15. | Are matrices correctly identified on Chain of Custody? | Yes | ☑ | No | ☐ | |
| 16. | Is it clear what analyses were requested? | Yes | ☑ | No | ☐ | |
| 17. | Were all holding times able to be met? | Yes | ☑ | No | ☐ | |

## *Special Handling (if applicable)*

| | | | | | | |
|---|---|---|---|---|---|---|
| 18. | Was client notified of all discrepancies with this order? | Yes | ☐ | No | ☐ | NA ☑ |

| | | | |
|---|---|---|---|
| Person Notified: | | Date | |
| By Whom: | | Via: | ☐ eMail ☐ Phone ☐ Fax ☐ In Person |
| Regarding: | | | |
| Client Instructions: | | | |

19. Additional remarks:

**Item Information**

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

# Air Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Date: 10/5/18 Page: 1 of: 1

Laboratory Project No (Internal): 1810124

Project Name: WA Industries

Special Remarks: Provide EDD Table

Client: EPI

Project No: 64001.6

Address: 1180 NW Maple St.

Location: 825 S. Dakota St. Seattle, WA

City, State, Zip: Issaquah, WA 98027

Collected by: J. Sherrod

Telephone: 425-395-0010

Reports to (PM): Sean Trimble

Air samples are disposed of one week after report is submitted to client unless otherwise requested. ☐ OK to Dispose ☐ Hold (fees may apply)

Fax:

Email (PM): ~~Sean T~~ seant@epi-wa.com

| | Sample Name | Canister / Flow Reg Serial # | Sample Date & Time | Sample Type (Matrix) * | Container Type ** | Fill Time / Flow Rate | Internal: Initial Evacuation Pressure (mtorr) | Field Initial Sample Pressure (" Hg) | Field Final Sample Pressure (" Hg) | Analysis: VOCs TO15 SCAN | VOCs TO15 SCAN LL | VOCs TO15 SIM | Siloxanes TO15 | Sulfur TO15 | Sulfur Ext. TO15 | APH TO15 | Helium | Major Gases 3C | VOCs by 8260 | Comments | Internal: Final Pressure ("Hg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | S2-EFF-1005 | Canister / Flow Reg | 10/5/18 Date / 0930 Time | S | TB | .5 min | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | X | | |
| 2 | | Canister / Flow Reg | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |
| 3 | | Canister / Flow Reg | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |
| 4 | | Canister / Flow Reg | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |
| 5 | | Canister / Flow Reg | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |

* Matrix Codes: AA = Ambient Air IA = Indoor Air L = Landfill S = Subslab / Soil Gas

** Container Codes: BV = 1 Liter Bottle Vac 6L = 6L Canister 1L = 1L Canister CYL = High Pressure Cylinder F = Filter S = Sorbent Tube TB = Tedlar Bag

**I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.**

| Relinquished | Date/Time | Received | Date/Time |
|---|---|---|---|
| x | 10/5/18 / 1040 | x | 10/5/18 1040 |
| Relinquished | Date/Time | Received | Date/Time |
| x | | x | |

Turn-Around Time:
- ☑ Standard
- ☐ 3 Day
- ☐ 2 Day
- ☐ Next Day
- Same Day ____ (specify)

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

**Environmental Partners, Inc.**
Sean Trimble
1180 NW Maple Street, Suite 310
Issaquah, WA 98027

**RE: WA Industries**
**Work Order Number: 1811024**

November 07, 2018

**Attention Sean Trimble:**

Fremont Analytical, Inc. received 1 sample(s) on 11/2/2018 for the analyses presented in the following report.

***Volatile Organic Compounds by EPA Method 8260C***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director

**CC:**
Joe Sherrod

**Date:** *11/07/2018*

**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries
**Work Order:** 1811024

# Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---|---|---|---|
| 1811024-001 | S2-EFF-1102 | 11/02/2018 9:15 AM | 11/02/2018 9:53 AM |

# Case Narrative

WO#: **1811024**
Date: **11/7/2018**

**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

WorkOrder Narrative:
I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

**Client:** Environmental Partners, Inc. **Collection Date:** 11/2/2018 9:15:00 AM
**Project:** WA Industries
**Lab ID:** 1811024-001 **Matrix:** Air
**Client Sample ID: S2-EFF-1102**

## Volatile Organic Compounds by EPA Method 8260C

Batch ID: 22497 Analyst: KT

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| Chloromethane | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| Vinyl chloride | ND | 0.0200 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| Bromomethane | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| Chloroethane | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| 1,1-Dichloroethene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| Methylene chloride | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| trans-1,2-Dichloroethene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| 1,1-Dichloroethane | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| 2,2-Dichloropropane | ND | 0.200 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| cis-1,2-Dichloroethene | 0.316 | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| Chloroform | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| 1,1-Dichloropropene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| Carbon tetrachloride | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| Benzene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| Trichloroethene (TCE) | 2.86 | 0.0500 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| 1,2-Dichloropropane | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| Bromodichloromethane | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| Dibromomethane | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| cis-1,3-Dichloropropene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| Toluene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| trans-1,3-Dichloropropylene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| 1,1,2-Trichloroethane | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| 1,3-Dichloropropane | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| Tetrachloroethene (PCE) | 0.266 | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| Dibromochloromethane | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| Chlorobenzene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| Ethylbenzene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| m,p-Xylene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| o-Xylene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| Styrene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| Isopropylbenzene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| Bromoform | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |

# Analytical Report

Work Order: **1811024**
Date Reported: **11/7/2018**

**Client:** Environmental Partners, Inc.
**Collection Date:** 11/2/2018 9:15:00 AM
**Project:** WA Industries
**Lab ID:** 1811024-001
**Matrix:** Air
**Client Sample ID:** **S2-EFF-1102**

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA Method 8260C** | | | | Batch ID: 22497 | | Analyst: KT |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| n-Propylbenzene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| Bromobenzene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| 2-Chlorotoluene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| 4-Chlorotoluene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| tert-Butylbenzene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| 1,2,3-Trichloropropane | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| sec-Butylbenzene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| 4-Isopropyltoluene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| 1,3-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| 1,4-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| n-Butylbenzene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| 1,2-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| Hexachlorobutadiene | ND | 0.400 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| Naphthalene | ND | 0.100 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | µg/L | 1 | 11/2/2018 3:50:37 PM |
| Surr: Dibromofluoromethane | 103 | 56.4 - 141 | | %Rec | 1 | 11/2/2018 3:50:37 PM |
| Surr: Toluene-d8 | 104 | 66 - 138 | | %Rec | 1 | 11/2/2018 3:50:37 PM |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 99.2 | 64.7 - 128 | | %Rec | 1 | 11/2/2018 3:50:37 PM |

**Work Order:** 1811024
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1810486-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **11/2/2018** RunNo: **47388**
Client ID: **BATCH** Batch ID: **22497** Analysis Date: **11/2/2018** SeqNo: **922897**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Vinyl chloride | ND | 0.0200 | | | | | | 0 | | 30 | |
| Bromomethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Methylene chloride | ND | 0.100 | | | | | | 0 | | 30 | |
| trans-1,2-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 2,2-Dichloropropane | ND | 0.200 | | | | | | 0 | | 30 | |
| cis-1,2-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloroform | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloropropene | ND | 0.100 | | | | | | 0 | | 30 | |
| Carbon tetrachloride | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | | | | | 0 | | 30 | |
| Benzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Trichloroethene (TCE) | ND | 0.0500 | | | | | | 0 | | 30 | |
| 1,2-Dichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromodichloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Dibromomethane | ND | 0.100 | | | | | | 0 | | 30 | |
| cis-1,3-Dichloropropene | ND | 0.100 | | | | | | 0 | | 30 | |
| Toluene | ND | 0.100 | | | | | | 0 | | 30 | |
| trans-1,3-Dichloropropylene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,2-Trichloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3-Dichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| Tetrachloroethene (PCE) | 29.3 | 0.100 | | | | | | 32.78 | 11.2 | 30 | E |
| Dibromochloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | | | | | 0 | | 30 | |

**Work Order:** 1811024
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1810486-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **11/2/2018** RunNo: **47388**
Client ID: **BATCH** Batch ID: **22497** Analysis Date: **11/2/2018** SeqNo: **922897**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Ethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| m,p-Xylene | ND | 0.100 | | | | | | 0 | | 30 | |
| o-Xylene | ND | 0.100 | | | | | | 0 | | 30 | |
| Styrene | ND | 0.100 | | | | | | 0 | | 30 | |
| Isopropylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromoform | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| n-Propylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 2-Chlorotoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| 4-Chlorotoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| tert-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,3-Trichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | | | | | 0 | | 30 | |
| sec-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 4-Isopropyltoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,4-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| n-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Hexachlorobutadiene | ND | 0.400 | | | | | | 0 | | 30 | |
| Naphthalene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | | | | | 0 | | 30 | |
| Surr: Dibromofluoromethane | 2.61 | | 2.500 | | 104 | 61.1 | 128 | | 0 | | |
| Surr: Toluene-d8 | 2.56 | | 2.500 | | 103 | 68.2 | 129 | | 0 | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.51 | | 2.500 | | 100 | 64.7 | 128 | | 0 | | |

**Work Order:** 1811024
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1810486-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **11/2/2018** RunNo: **47388**
Client ID: **BATCH** Batch ID: **22497** Analysis Date: **11/2/2018** SeqNo: **922897**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|

**NOTES:**
E - Estimated value. The amount exceeds the linear working range of the instrument.

Sample ID **MB-22497** SampType: **MBLK** Units: **µg/L** Prep Date: **11/2/2018** RunNo: **47388**
Client ID: **MBLKW** Batch ID: **22497** Analysis Date: **11/2/2018** SeqNo: **922908**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | | | | | | | | |
| Chloromethane | ND | 0.100 | | | | | | | | | |
| Vinyl chloride | ND | 0.0200 | | | | | | | | | |
| Bromomethane | ND | 0.100 | | | | | | | | | |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | | | | | | | | |
| Chloroethane | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Methylene chloride | ND | 0.100 | | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.100 | | | | | | | | | |
| 2,2-Dichloropropane | ND | 0.200 | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Chloroform | ND | 0.100 | | | | | | | | | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.100 | | | | | | | | | |
| Carbon tetrachloride | ND | 0.100 | | | | | | | | | |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | | | | | | | | |
| Benzene | ND | 0.100 | | | | | | | | | |
| Trichloroethene (TCE) | ND | 0.0500 | | | | | | | | | |
| 1,2-Dichloropropane | ND | 0.100 | | | | | | | | | |
| Bromodichloromethane | ND | 0.100 | | | | | | | | | |
| Dibromomethane | ND | 0.100 | | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.100 | | | | | | | | | |

**Work Order:** 1811024
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **MB-22497** SampType: **MBLK** Units: **µg/L** Prep Date: **11/2/2018** RunNo: **47388**
Client ID: **MBLKW** Batch ID: **22497** Analysis Date: **11/2/2018** SeqNo: **922908**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Toluene | ND | 0.100 | | | | | | | | | |
| trans-1,3-Dichloropropylene | ND | 0.100 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.100 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 0.100 | | | | | | | | | |
| Tetrachloroethene (PCE) | ND | 0.100 | | | | | | | | | |
| Dibromochloromethane | ND | 0.100 | | | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | | | | | | | | |
| Chlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | | | | | | | | |
| Ethylbenzene | ND | 0.100 | | | | | | | | | |
| m,p-Xylene | ND | 0.100 | | | | | | | | | |
| o-Xylene | ND | 0.100 | | | | | | | | | |
| Styrene | ND | 0.100 | | | | | | | | | |
| Isopropylbenzene | ND | 0.100 | | | | | | | | | |
| Bromoform | ND | 0.100 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | | | | | | | | |
| n-Propylbenzene | ND | 0.100 | | | | | | | | | |
| Bromobenzene | ND | 0.100 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | | | | | | | | |
| 2-Chlorotoluene | ND | 0.100 | | | | | | | | | |
| 4-Chlorotoluene | ND | 0.100 | | | | | | | | | |
| tert-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.100 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | | | | | | | | |
| sec-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 4-Isopropyltoluene | ND | 0.100 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| n-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | | | | | | | | |

**Work Order:** 1811024
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **MB-22497** SampType: **MBLK** Units: **µg/L** Prep Date: **11/2/2018** RunNo: **47388**
Client ID: **MBLKW** Batch ID: **22497** Analysis Date: **11/2/2018** SeqNo: **922908**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | ND | 0.100 | | | | | | | | | |
| Hexachlorobutadiene | ND | 0.400 | | | | | | | | | |
| Naphthalene | ND | 0.100 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | | | | | | | | |
| Surr: Dibromofluoromethane | 2.53 | | 2.500 | | 101 | 56.4 | 141 | | | | |
| Surr: Toluene-d8 | 2.55 | | 2.500 | | 102 | 66 | 138 | | | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.50 | | 2.500 | | 99.9 | 64.7 | 128 | | | | |

Sample ID **LCS-22497** SampType: **LCS** Units: **µg/L** Prep Date: **11/2/2018** RunNo: **47388**
Client ID: **LCSW** Batch ID: **22497** Analysis Date: **11/2/2018** SeqNo: **922907**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 2.43 | 0.100 | 2.000 | 0 | 122 | 38.8 | 143 | | | | |
| Chloromethane | 2.18 | 0.100 | 2.000 | 0 | 109 | 42.5 | 131 | | | | |
| Vinyl chloride | 2.39 | 0.0200 | 2.000 | 0 | 119 | 56.2 | 130 | | | | |
| Bromomethane | 3.21 | 0.100 | 2.000 | 0 | 160 | 45.4 | 138 | | | | S |
| Trichlorofluoromethane (CFC-11) | 2.10 | 0.100 | 2.000 | 0 | 105 | 64.7 | 129 | | | | |
| Chloroethane | 2.36 | 0.100 | 2.000 | 0 | 118 | 62.5 | 123 | | | | |
| 1,1-Dichloroethene | 2.19 | 0.100 | 2.000 | 0 | 109 | 60.7 | 146 | | | | |
| Methylene chloride | 2.28 | 0.100 | 2.000 | 0 | 114 | 60.3 | 135 | | | | |
| trans-1,2-Dichloroethene | 2.23 | 0.100 | 2.000 | 0 | 112 | 71.3 | 129 | | | | |
| Methyl tert-butyl ether (MTBE) | 2.32 | 0.100 | 2.000 | 0 | 116 | 59.3 | 138 | | | | |
| 1,1-Dichloroethane | 2.30 | 0.100 | 2.000 | 0 | 115 | 71.3 | 129 | | | | |
| 2,2-Dichloropropane | 2.56 | 0.200 | 2.000 | 0 | 128 | 37.8 | 132 | | | | |
| cis-1,2-Dichloroethene | 2.22 | 0.100 | 2.000 | 0 | 111 | 67.5 | 127 | | | | |
| Chloroform | 2.26 | 0.100 | 2.000 | 0 | 113 | 70.3 | 123 | | | | |
| 1,1,1-Trichloroethane (TCA) | 2.17 | 0.100 | 2.000 | 0 | 109 | 67.9 | 134 | | | | |
| 1,1-Dichloropropene | 2.28 | 0.100 | 2.000 | 0 | 114 | 72.1 | 133 | | | | |
| Carbon tetrachloride | 2.11 | 0.100 | 2.000 | 0 | 105 | 64.4 | 133 | | | | |
| 1,2-Dichloroethane (EDC) | 2.37 | 0.100 | 2.000 | 0 | 119 | 65.8 | 126 | | | | |

**Work Order:** 1811024
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-22497** SampType: **LCS** Units: **µg/L** Prep Date: **11/2/2018** RunNo: **47388**
Client ID: **LCSW** Batch ID: **22497** Analysis Date: **11/2/2018** SeqNo: **922907**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 2.27 | 0.100 | 2.000 | 0 | 114 | 67.1 | 132 | | | | |
| Trichloroethene (TCE) | 2.18 | 0.0500 | 2.000 | 0 | 109 | 71.9 | 130 | | | | |
| 1,2-Dichloropropane | 2.35 | 0.100 | 2.000 | 0 | 118 | 71.9 | 131 | | | | |
| Bromodichloromethane | 2.24 | 0.100 | 2.000 | 0 | 112 | 70 | 130 | | | | |
| Dibromomethane | 2.33 | 0.100 | 2.000 | 0 | 117 | 74.2 | 125 | | | | |
| cis-1,3-Dichloropropene | 2.30 | 0.100 | 2.000 | 0 | 115 | 62.8 | 135 | | | | |
| Toluene | 2.23 | 0.100 | 2.000 | 0 | 111 | 73.6 | 127 | | | | |
| trans-1,3-Dichloropropylene | 2.30 | 0.100 | 2.000 | 0 | 115 | 58.1 | 138 | | | | |
| 1,1,2-Trichloroethane | 2.28 | 0.100 | 2.000 | 0 | 114 | 65.4 | 128 | | | | |
| 1,3-Dichloropropane | 2.33 | 0.100 | 2.000 | 0 | 116 | 71.9 | 131 | | | | |
| Tetrachloroethene (PCE) | 2.09 | 0.100 | 2.000 | 0 | 104 | 52.4 | 140 | | | | |
| Dibromochloromethane | 2.11 | 0.100 | 2.000 | 0 | 105 | 68.7 | 139 | | | | |
| 1,2-Dibromoethane (EDB) | 2.25 | 0.0250 | 2.000 | 0 | 113 | 71.2 | 129 | | | | |
| Chlorobenzene | 2.15 | 0.100 | 2.000 | 0 | 108 | 77.2 | 122 | | | | |
| 1,1,1,2-Tetrachloroethane | 2.08 | 0.100 | 2.000 | 0 | 104 | 76.2 | 130 | | | | |
| Ethylbenzene | 2.29 | 0.100 | 2.000 | 0 | 114 | 78 | 127 | | | | |
| m,p-Xylene | 4.33 | 0.100 | 4.000 | 0 | 108 | 77.5 | 130 | | | | |
| o-Xylene | 2.14 | 0.100 | 2.000 | 0 | 107 | 77.6 | 126 | | | | |
| Styrene | 2.12 | 0.100 | 2.000 | 0 | 106 | 66.8 | 137 | | | | |
| Isopropylbenzene | 2.13 | 0.100 | 2.000 | 0 | 107 | 75.9 | 133 | | | | |
| Bromoform | 1.98 | 0.100 | 2.000 | 0 | 98.9 | 54.1 | 146 | | | | |
| 1,1,2,2-Tetrachloroethane | 2.40 | 0.100 | 2.000 | 0 | 120 | 68 | 134 | | | | |
| n-Propylbenzene | 2.15 | 0.100 | 2.000 | 0 | 107 | 77.1 | 133 | | | | |
| Bromobenzene | 2.11 | 0.100 | 2.000 | 0 | 106 | 71.1 | 131 | | | | |
| 1,3,5-Trimethylbenzene | 2.17 | 0.100 | 2.000 | 0 | 109 | 76.2 | 133 | | | | |
| 2-Chlorotoluene | 2.15 | 0.100 | 2.000 | 0 | 108 | 67.1 | 137 | | | | |
| 4-Chlorotoluene | 2.19 | 0.100 | 2.000 | 0 | 110 | 70.7 | 132 | | | | |
| tert-Butylbenzene | 2.10 | 0.100 | 2.000 | 0 | 105 | 71.3 | 139 | | | | |
| 1,2,3-Trichloropropane | 2.38 | 0.100 | 2.000 | 0 | 119 | 70.8 | 132 | | | | |
| 1,2,4-Trichlorobenzene | 2.17 | 0.200 | 2.000 | 0 | 109 | 61.4 | 139 | | | | |
| sec-Butylbenzene | 2.16 | 0.100 | 2.000 | 0 | 108 | 77.4 | 136 | | | | |

**Work Order:** 1811024
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-22497** SampType: **LCS** Units: **µg/L** Prep Date: **11/2/2018** RunNo: **47388**
Client ID: **LCSW** Batch ID: **22497** Analysis Date: **11/2/2018** SeqNo: **922907**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-Isopropyltoluene | 2.18 | 0.100 | 2.000 | 0 | 109 | 78.1 | 131 | | | | |
| 1,3-Dichlorobenzene | 2.12 | 0.100 | 2.000 | 0 | 106 | 73.5 | 125 | | | | |
| 1,4-Dichlorobenzene | 2.17 | 0.100 | 2.000 | 0 | 109 | 71.4 | 125 | | | | |
| n-Butylbenzene | 2.26 | 0.100 | 2.000 | 0 | 113 | 69.8 | 138 | | | | |
| 1,2-Dichlorobenzene | 2.19 | 0.100 | 2.000 | 0 | 110 | 74.2 | 123 | | | | |
| 1,2-Dibromo-3-chloropropane | 2.39 | 0.100 | 2.000 | 0 | 120 | 53.6 | 155 | | | | |
| 1,2,4-Trimethylbenzene | 2.18 | 0.100 | 2.000 | 0 | 109 | 72.3 | 133 | | | | |
| Hexachlorobutadiene | 2.08 | 0.400 | 2.000 | 0 | 104 | 60.9 | 141 | | | | |
| Naphthalene | 2.28 | 0.100 | 2.000 | 0 | 114 | 58.2 | 140 | | | | |
| 1,2,3-Trichlorobenzene | 2.20 | 0.400 | 2.000 | 0 | 110 | 61.3 | 133 | | | | |
| Surr: Dibromofluoromethane | 2.61 | | 2.500 | | 104 | 56.4 | 141 | | | | |
| Surr: Toluene-d8 | 2.59 | | 2.500 | | 103 | 66 | 138 | | | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.49 | | 2.500 | | 99.4 | 64.7 | 128 | | | | |

**NOTES:**
S - Outlying spike recovery observed (high bias). Samples are non-detect for this analyte; no further action required.

# Sample Log-In Check List

| | | | |
|---|---|---|---|
| Client Name: | **EPI** | Work Order Number: | **1811024** |
| Logged by: | **Brianna Barnes** | Date Received: | **11/2/2018 9:53:00 AM** |

## *Chain of Custody*

| | | | | |
|---|---|---|---|---|
| 1. | Is Chain of Custody complete? | Yes ☑ | No ☐ | Not Present ☐ |
| 2. | How was the sample delivered? | Client | | |

## *Log In*

| | | | | |
|---|---|---|---|---|
| 3. | Coolers are present? | Yes ☐ | No ☑ | NA ☐ |
| | | **Air samples.** | | |
| 4. | Shipping container/cooler in good condition? | Yes ☑ | No ☐ | |
| 5. | Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact) | Yes ☐ | No ☐ | Not Required ☑ |
| 6. | Was an attempt made to cool the samples? | Yes ☐ | No ☐ | NA ☑ |
| 7. | Were all items received at a temperature of >0°C to 10.0°C* | Yes ☐ | No ☐ | NA ☑ |
| 8. | Sample(s) in proper container(s)? | Yes ☑ | No ☐ | |
| 9. | Sufficient sample volume for indicated test(s)? | Yes ☑ | No ☐ | |
| 10. | Are samples properly preserved? | Yes ☑ | No ☐ | |
| 11. | Was preservative added to bottles? | Yes ☐ | No ☑ | NA ☐ |
| 12. | Is there headspace in the VOA vials? | Yes ☐ | No ☐ | NA ☑ |
| 13. | Did all samples containers arrive in good condition(unbroken)? | Yes ☑ | No ☐ | |
| 14. | Does paperwork match bottle labels? | Yes ☑ | No ☐ | |
| 15. | Are matrices correctly identified on Chain of Custody? | Yes ☑ | No ☐ | |
| 16. | Is it clear what analyses were requested? | Yes ☑ | No ☐ | |
| 17. | Were all holding times able to be met? | Yes ☑ | No ☐ | |

## *Special Handling (if applicable)*

| | | | | |
|---|---|---|---|---|
| 18. | Was client notified of all discrepancies with this order? | Yes ☐ | No ☐ | NA ☑ |

| | | | |
|---|---|---|---|
| Person Notified: | | Date | |
| By Whom: | | Via: | ☐ eMail ☐ Phone ☐ Fax ☐ In Person |
| Regarding: | | | |
| Client Instructions: | | | |

19. Additional remarks:

**Item Information**

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

# Air Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Date: 11/2/18 Page: 1 of: 1

Laboratory Project No (Internal): 1911024

Project Name: WA Industries

Special Remarks:

Client: EPI

Project No: 6400l

Address: 1180 NW Maple St.

Location: 825 S. Dakota St. Seattle, WA

City, State, Zip: ~~Seattle~~ Issaquah, WA 98027

Collected by: J. Sherod

Telephone: 425-395-0010

Reports to (PM): Sean Trimble / Jae Sherod

Air samples are disposed of one week after report is submitted to client unless otherwise requested. ☐ OK to Dispose ☐ Hold (fees may apply)

Fax:

Email (PM): seant@epiwa.com / jaes@epi-wa.com

| | Sample Name | Canister / Flow Reg Serial # | Sample Date & Time | Sample Type (Matrix) * | Container Type ** | Fill Time / Flow Rate | Internal: Initial Evacuation Pressure (mtorr) | Field Initial Sample Pressure ("Hg) | Field Final Sample Pressure ("Hg) | Analysis: VOCs TO15 SCAN | VOCs TO15 SCAN LL | VOCs TO15 SIM | Siloxanes TO15 | Sulfur TO15 | Sulfur Ext. TO15 | APH TO15 | Helium | Major Gases 3C | VOCs by 8260d | Comments | Internal: Final Pressure ("Hg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | S2-EFF-1102 | Canister / Flow Reg | 11/2/18 Date / 0915 Time | S | TB | .5 mL/min | Pressure / Date | / Date | Pressure / Date | | | | | | | | | | X | | |
| 2 | | Canister / Flow Reg | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |
| 3 | | Canister / Flow Reg | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |
| 4 | | Canister / Flow Reg | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |
| 5 | | Canister / Flow Reg | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |

* Matrix Codes: AA = Ambient Air IA = Indoor Air L = Landfill S = Subslab / Soil Gas

** Container Codes: BV = 1 Liter Bottle Vac 6L = 6L Canister 1L = 1L Canister CYL = High Pressure Cylinder F = Filter S = Sorbent Tube TB = Tedlar Bag

**I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.**

| Relinquished | Date/Time | Received | Date/Time |
|---|---|---|---|
| x | 11/2/18 0953 | x | 11/2/18 0953 |
| Relinquished | Date/Time | Received | Date/Time |
| x | | x | |

**Turn-Around Time:**

- ☑ Standard
- ☐ 3 Day
- ☐ 2 Day
- ☐ Next Day
- Same Day ____ (specify)

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

**Environmental Partners, Inc.**
Sean Trimble
1180 NW Maple Street, Suite 310
Issaquah, WA 98027

**RE: WA Industries**
**Work Order Number: 1812261**

December 21, 2018

**Attention Sean Trimble:**

Fremont Analytical, Inc. received 1 sample(s) on 12/18/2018 for the analyses presented in the following report.

***Volatile Organic Compounds by EPA Method 8260C***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director

**Date:** *12/21/2018*

**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries
**Work Order:** 1812261

# Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---|---|---|---|
| 1812261-001 | S2-EFF-1218 | 12/18/2018 12:00 PM | 12/18/2018 1:33 PM |

# Case Narrative

WO#: **1812261**
Date: **12/21/2018**

**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

WorkOrder Narrative:
I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

# Analytical Report

Work Order: **1812261**
Date Reported: **12/21/2018**

**Client:** Environmental Partners, Inc.
**Collection Date:** 12/18/2018 12:00:00 PM
**Project:** WA Industries
**Lab ID:** 1812261-001
**Matrix:** Air
**Client Sample ID:** **S2-EFF-1218**

## Volatile Organic Compounds by EPA Method 8260C

Batch ID: 23020 Analyst: KT

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| Chloromethane | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| Vinyl chloride | ND | 0.0200 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| Bromomethane | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| Chloroethane | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| 1,1-Dichloroethene | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| Methylene chloride | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| trans-1,2-Dichloroethene | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| 1,1-Dichloroethane | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| 2,2-Dichloropropane | ND | 0.200 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| cis-1,2-Dichloroethene | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| Chloroform | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| 1,1-Dichloropropene | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| Carbon tetrachloride | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| Benzene | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| Trichloroethene (TCE) | 0.523 | 0.0500 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| 1,2-Dichloropropane | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| Bromodichloromethane | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| Dibromomethane | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| cis-1,3-Dichloropropene | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| Toluene | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| trans-1,3-Dichloropropylene | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| 1,1,2-Trichloroethane | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| 1,3-Dichloropropane | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| Tetrachloroethene (PCE) | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| Dibromochloromethane | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| Chlorobenzene | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| Ethylbenzene | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| m,p-Xylene | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| o-Xylene | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| Styrene | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| Isopropylbenzene | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| Bromoform | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |

# Analytical Report

Work Order: **1812261**
Date Reported: **12/21/2018**

**Client:** Environmental Partners, Inc.
**Collection Date:** 12/18/2018 12:00:00 PM
**Project:** WA Industries
**Lab ID:** 1812261-001
**Matrix:** Air
**Client Sample ID:** **S2-EFF-1218**

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA Method 8260C** | | | | Batch ID: 23020 | | Analyst: KT |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| n-Propylbenzene | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| Bromobenzene | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| 2-Chlorotoluene | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| 4-Chlorotoluene | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| tert-Butylbenzene | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| 1,2,3-Trichloropropane | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| sec-Butylbenzene | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| 4-Isopropyltoluene | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| 1,3-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| 1,4-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| n-Butylbenzene | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| 1,2-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| Hexachlorobutadiene | ND | 0.400 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| Naphthalene | ND | 0.100 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | µg/L | 1 | 12/20/2018 9:01:28 AM |
| Surr: Dibromofluoromethane | 95.3 | 56.4 - 141 | | %Rec | 1 | 12/20/2018 9:01:28 AM |
| Surr: Toluene-d8 | 89.2 | 66 - 138 | | %Rec | 1 | 12/20/2018 9:01:28 AM |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 92.9 | 64.7 - 128 | | %Rec | 1 | 12/20/2018 9:01:28 AM |

**Work Order:** 1812261
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-23020** SampType: **LCS** Units: **µg/L** Prep Date: **12/19/2018** RunNo: **48467**
Client ID: **LCSW** Batch ID: **23020** Analysis Date: **12/20/2018** SeqNo: **949315**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 2.63 | 0.100 | 2.000 | 0 | 131 | 38.8 | 143 | | | | |
| Chloromethane | 1.92 | 0.100 | 2.000 | 0 | 96.2 | 42.5 | 131 | | | | |
| Vinyl chloride | 1.94 | 0.0200 | 2.000 | 0 | 96.9 | 56.2 | 130 | | | | |
| Bromomethane | 2.04 | 0.100 | 2.000 | 0 | 102 | 45.4 | 138 | | | | |
| Trichlorofluoromethane (CFC-11) | 2.02 | 0.100 | 2.000 | 0 | 101 | 64.7 | 129 | | | | |
| Chloroethane | 1.75 | 0.100 | 2.000 | 0 | 87.3 | 62.5 | 123 | | | | |
| 1,1-Dichloroethene | 1.83 | 0.100 | 2.000 | 0 | 91.3 | 60.7 | 146 | | | | |
| Methylene chloride | 1.78 | 0.100 | 2.000 | 0 | 89.0 | 60.3 | 135 | | | | |
| trans-1,2-Dichloroethene | 1.83 | 0.100 | 2.000 | 0 | 91.5 | 71.3 | 129 | | | | |
| Methyl tert-butyl ether (MTBE) | 1.84 | 0.100 | 2.000 | 0 | 91.9 | 59.3 | 138 | | | | |
| 1,1-Dichloroethane | 1.79 | 0.100 | 2.000 | 0 | 89.6 | 71.3 | 129 | | | | |
| 2,2-Dichloropropane | 1.80 | 0.200 | 2.000 | 0 | 90.0 | 37.8 | 132 | | | | |
| cis-1,2-Dichloroethene | 1.82 | 0.100 | 2.000 | 0 | 90.9 | 67.5 | 127 | | | | |
| Chloroform | 1.88 | 0.100 | 2.000 | 0 | 94.2 | 70.3 | 123 | | | | |
| 1,1,1-Trichloroethane (TCA) | 1.99 | 0.100 | 2.000 | 0 | 99.4 | 67.9 | 134 | | | | |
| 1,1-Dichloropropene | 1.83 | 0.100 | 2.000 | 0 | 91.7 | 72.1 | 133 | | | | |
| Carbon tetrachloride | 2.06 | 0.100 | 2.000 | 0 | 103 | 64.4 | 133 | | | | |
| 1,2-Dichloroethane (EDC) | 2.01 | 0.100 | 2.000 | 0 | 101 | 65.8 | 126 | | | | |
| Benzene | 1.74 | 0.100 | 2.000 | 0 | 87.2 | 67.1 | 132 | | | | |
| Trichloroethene (TCE) | 1.79 | 0.0500 | 2.000 | 0 | 89.4 | 71.9 | 130 | | | | |
| 1,2-Dichloropropane | 1.68 | 0.100 | 2.000 | 0 | 84.1 | 71.9 | 131 | | | | |
| Bromodichloromethane | 1.87 | 0.100 | 2.000 | 0 | 93.7 | 70 | 130 | | | | |
| Dibromomethane | 1.83 | 0.100 | 2.000 | 0 | 91.3 | 74.2 | 125 | | | | |
| cis-1,3-Dichloropropene | 1.78 | 0.100 | 2.000 | 0 | 89.1 | 62.8 | 135 | | | | |
| Toluene | 1.84 | 0.100 | 2.000 | 0 | 92.0 | 73.6 | 127 | | | | |
| trans-1,3-Dichloropropylene | 1.83 | 0.100 | 2.000 | 0 | 91.3 | 58.1 | 138 | | | | |
| 1,1,2-Trichloroethane | 1.78 | 0.100 | 2.000 | 0 | 88.9 | 65.4 | 128 | | | | |
| 1,3-Dichloropropane | 1.76 | 0.100 | 2.000 | 0 | 88.2 | 71.9 | 131 | | | | |
| Tetrachloroethene (PCE) | 2.00 | 0.100 | 2.000 | 0 | 100 | 52.4 | 140 | | | | |
| Dibromochloromethane | 1.99 | 0.100 | 2.000 | 0 | 99.7 | 68.7 | 139 | | | | |
| 1,2-Dibromoethane (EDB) | 1.80 | 0.0250 | 2.000 | 0 | 90.0 | 71.2 | 129 | | | | |

**Work Order:** 1812261
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-23020** SampType: **LCS** Units: **µg/L** Prep Date: **12/19/2018** RunNo: **48467**
Client ID: **LCSW** Batch ID: **23020** Analysis Date: **12/20/2018** SeqNo: **949315**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | 2.09 | 0.100 | 2.000 | 0 | 104 | 77.2 | 122 | | | | |
| 1,1,1,2-Tetrachloroethane | 2.22 | 0.100 | 2.000 | 0 | 111 | 76.2 | 130 | | | | |
| Ethylbenzene | 2.03 | 0.100 | 2.000 | 0 | 102 | 78 | 127 | | | | |
| m,p-Xylene | 4.19 | 0.100 | 4.000 | 0 | 105 | 77.5 | 130 | | | | |
| o-Xylene | 2.05 | 0.100 | 2.000 | 0 | 102 | 77.6 | 126 | | | | |
| Styrene | 2.04 | 0.100 | 2.000 | 0 | 102 | 66.8 | 137 | | | | |
| Isopropylbenzene | 2.01 | 0.100 | 2.000 | 0 | 100 | 75.9 | 133 | | | | |
| Bromoform | 2.13 | 0.100 | 2.000 | 0 | 107 | 54.1 | 146 | | | | |
| 1,1,2,2-Tetrachloroethane | 1.78 | 0.100 | 2.000 | 0 | 89.0 | 68 | 134 | | | | |
| n-Propylbenzene | 1.96 | 0.100 | 2.000 | 0 | 97.9 | 77.1 | 133 | | | | |
| Bromobenzene | 2.11 | 0.100 | 2.000 | 0 | 106 | 71.1 | 131 | | | | |
| 1,3,5-Trimethylbenzene | 2.00 | 0.100 | 2.000 | 0 | 99.8 | 76.2 | 133 | | | | |
| 2-Chlorotoluene | 1.89 | 0.100 | 2.000 | 0 | 94.7 | 67.1 | 137 | | | | |
| 4-Chlorotoluene | 1.94 | 0.100 | 2.000 | 0 | 97.1 | 70.7 | 132 | | | | |
| tert-Butylbenzene | 2.11 | 0.100 | 2.000 | 0 | 105 | 71.3 | 139 | | | | |
| 1,2,3-Trichloropropane | 1.75 | 0.100 | 2.000 | 0 | 87.5 | 70.8 | 132 | | | | |
| 1,2,4-Trichlorobenzene | 2.17 | 0.200 | 2.000 | 0 | 109 | 61.4 | 139 | | | | |
| sec-Butylbenzene | 2.06 | 0.100 | 2.000 | 0 | 103 | 77.4 | 136 | | | | |
| 4-Isopropyltoluene | 2.13 | 0.100 | 2.000 | 0 | 106 | 78.1 | 131 | | | | |
| 1,3-Dichlorobenzene | 2.07 | 0.100 | 2.000 | 0 | 103 | 73.5 | 125 | | | | |
| 1,4-Dichlorobenzene | 2.06 | 0.100 | 2.000 | 0 | 103 | 71.4 | 125 | | | | |
| n-Butylbenzene | 1.89 | 0.100 | 2.000 | 0 | 94.6 | 69.8 | 138 | | | | |
| 1,2-Dichlorobenzene | 2.08 | 0.100 | 2.000 | 0 | 104 | 74.2 | 123 | | | | |
| 1,2-Dibromo-3-chloropropane | 1.90 | 0.100 | 2.000 | 0 | 94.9 | 53.6 | 155 | | | | |
| 1,2,4-Trimethylbenzene | 2.08 | 0.100 | 2.000 | 0 | 104 | 72.3 | 133 | | | | |
| Hexachlorobutadiene | 2.23 | 0.400 | 2.000 | 0 | 111 | 60.9 | 141 | | | | |
| Naphthalene | 2.00 | 0.100 | 2.000 | 0 | 100 | 58.2 | 140 | | | | |
| 1,2,3-Trichlorobenzene | 2.16 | 0.400 | 2.000 | 0 | 108 | 61.3 | 133 | | | | |
| Surr: Dibromofluoromethane | 2.32 | | 2.500 | | 92.7 | 56.4 | 141 | | | | |
| Surr: Toluene-d8 | 2.21 | | 2.500 | | 88.4 | 66 | 138 | | | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.33 | | 2.500 | | 93.3 | 64.7 | 128 | | | | |

**Work Order:** 1812261
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

| Sample ID | **LCS-23020** | SampType: | **LCS** | Units: | **µg/L** | Prep Date: | **12/19/2018** | RunNo: | **48467** |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSW** | Batch ID: | **23020** | | | Analysis Date: | **12/20/2018** | SeqNo: | **949315** |

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|

| Sample ID | **MB-23020** | SampType: | **MBLK** | Units: | **µg/L** | Prep Date: | **12/19/2018** | RunNo: | **48467** |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **MBLKW** | Batch ID: | **23020** | | | Analysis Date: | **12/20/2018** | SeqNo: | **949316** |

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | | | | | | | | |
| Chloromethane | ND | 0.100 | | | | | | | | | |
| Vinyl chloride | ND | 0.0200 | | | | | | | | | |
| Bromomethane | ND | 0.100 | | | | | | | | | |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | | | | | | | | |
| Chloroethane | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Methylene chloride | ND | 0.100 | | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.100 | | | | | | | | | |
| 2,2-Dichloropropane | ND | 0.200 | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Chloroform | ND | 0.100 | | | | | | | | | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.100 | | | | | | | | | |
| Carbon tetrachloride | ND | 0.100 | | | | | | | | | |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | | | | | | | | |
| Benzene | ND | 0.100 | | | | | | | | | |
| Trichloroethene (TCE) | ND | 0.0500 | | | | | | | | | |
| 1,2-Dichloropropane | ND | 0.100 | | | | | | | | | |
| Bromodichloromethane | ND | 0.100 | | | | | | | | | |
| Dibromomethane | ND | 0.100 | | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.100 | | | | | | | | | |
| Toluene | ND | 0.100 | | | | | | | | | |

**Work Order:** 1812261
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **MB-23020** SampType: **MBLK** Units: **µg/L** Prep Date: **12/19/2018** RunNo: **48467**
Client ID: **MBLKW** Batch ID: **23020** Analysis Date: **12/20/2018** SeqNo: **949316**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropylene | ND | 0.100 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.100 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 0.100 | | | | | | | | | |
| Tetrachloroethene (PCE) | ND | 0.100 | | | | | | | | | |
| Dibromochloromethane | ND | 0.100 | | | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | | | | | | | | |
| Chlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | | | | | | | | |
| Ethylbenzene | ND | 0.100 | | | | | | | | | |
| m,p-Xylene | ND | 0.100 | | | | | | | | | |
| o-Xylene | ND | 0.100 | | | | | | | | | |
| Styrene | ND | 0.100 | | | | | | | | | |
| Isopropylbenzene | ND | 0.100 | | | | | | | | | |
| Bromoform | ND | 0.100 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | | | | | | | | |
| n-Propylbenzene | ND | 0.100 | | | | | | | | | |
| Bromobenzene | ND | 0.100 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | | | | | | | | |
| 2-Chlorotoluene | ND | 0.100 | | | | | | | | | |
| 4-Chlorotoluene | ND | 0.100 | | | | | | | | | |
| tert-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.100 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | | | | | | | | |
| sec-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 4-Isopropyltoluene | ND | 0.100 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| n-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | | | | | | | | |

**Work Order:** 1812261
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **MB-23020** SampType: **MBLK** Units: **µg/L** Prep Date: **12/19/2018** RunNo: **48467**
Client ID: **MBLKW** Batch ID: **23020** Analysis Date: **12/20/2018** SeqNo: **949316**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ND | 0.400 | | | | | | | | | |
| Naphthalene | ND | 0.100 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | | | | | | | | |
| Surr: Dibromofluoromethane | 2.36 | | 2.500 | | 94.3 | 56.4 | 141 | | | | |
| Surr: Toluene-d8 | 2.16 | | 2.500 | | 86.4 | 66 | 138 | | | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.34 | | 2.500 | | 93.6 | 64.7 | 128 | | | | |

Sample ID **1812303-002AREP** SampType: **REP** Units: **µg/L** Prep Date: **12/19/2018** RunNo: **48467**
Client ID: **BATCH** Batch ID: **23020** Analysis Date: **12/20/2018** SeqNo: **949312**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Vinyl chloride | ND | 0.0200 | | | | | | 0 | | 30 | |
| Bromomethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Methylene chloride | ND | 0.100 | | | | | | 0 | | 30 | |
| trans-1,2-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 2,2-Dichloropropane | ND | 0.200 | | | | | | 0 | | 30 | |
| cis-1,2-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloroform | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloropropene | ND | 0.100 | | | | | | 0 | | 30 | |
| Carbon tetrachloride | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | | | | | 0 | | 30 | |
| Benzene | ND | 0.100 | | | | | | 0 | | 30 | |

**Work Order:** 1812261
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1812303-002AREP** SampType: **REP** Units: **µg/L** Prep Date: **12/19/2018** RunNo: **48467**
Client ID: **BATCH** Batch ID: **23020** Analysis Date: **12/20/2018** SeqNo: **949312**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene (TCE) | ND | 0.0500 | | | | | | 0 | | 30 | |
| 1,2-Dichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromodichloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Dibromomethane | ND | 0.100 | | | | | | 0 | | 30 | |
| cis-1,3-Dichloropropene | ND | 0.100 | | | | | | 0 | | 30 | |
| Toluene | ND | 0.100 | | | | | | 0 | | 30 | |
| trans-1,3-Dichloropropylene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,2-Trichloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3-Dichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| Tetrachloroethene (PCE) | ND | 0.100 | | | | | | 0 | | 30 | |
| Dibromochloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | | | | | 0 | | 30 | |
| Chlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Ethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| m,p-Xylene | ND | 0.100 | | | | | | 0 | | 30 | |
| o-Xylene | ND | 0.100 | | | | | | 0 | | 30 | |
| Styrene | ND | 0.100 | | | | | | 0 | | 30 | |
| Isopropylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromoform | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| n-Propylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 2-Chlorotoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| 4-Chlorotoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| tert-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,3-Trichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | | | | | 0 | | 30 | |
| sec-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 4-Isopropyltoluene | ND | 0.100 | | | | | | 0 | | 30 | |

**Work Order:** 1812261
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1812303-002AREP** SampType: **REP** Units: **µg/L** Prep Date: **12/19/2018** RunNo: **48467**
Client ID: **BATCH** Batch ID: **23020** Analysis Date: **12/20/2018** SeqNo: **949312**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,4-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| n-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Hexachlorobutadiene | ND | 0.400 | | | | | | 0 | | 30 | |
| Naphthalene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | | | | | 0 | | 30 | |
| Surr: Dibromofluoromethane | 2.37 | | 2.500 | | 94.9 | 61.1 | 128 | | 0 | | |
| Surr: Toluene-d8 | 2.20 | | 2.500 | | 88.1 | 68.2 | 129 | | 0 | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.32 | | 2.500 | | 92.9 | 64.7 | 128 | | 0 | | |

# Sample Log-In Check List

| | | | |
|---|---|---|---|
| Client Name: | **EPI** | Work Order Number: | **1812261** |
| Logged by: | **Brianna Barnes** | Date Received: | **12/18/2018 1:33:00 PM** |

## *Chain of Custody*

| | | | | |
|---|---|---|---|---|
| 1. | Is Chain of Custody complete? | Yes ☑ | No ☐ | Not Present ☐ |
| 2. | How was the sample delivered? | Client | | |

## *Log In*

| | | | | |
|---|---|---|---|---|
| 3. | Coolers are present? | Yes ☐ | No ☑ | NA ☐ |
| | | **Air sample.** | | |
| 4. | Shipping container/cooler in good condition? | Yes ☑ | No ☐ | |
| 5. | Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact) | Yes ☐ | No ☐ | Not Required ☑ |
| 6. | Was an attempt made to cool the samples? | Yes ☐ | No ☐ | NA ☑ |
| 7. | Were all items received at a temperature of >0°C to 10.0°C* | Yes ☐ | No ☐ | NA ☑ |
| 8. | Sample(s) in proper container(s)? | Yes ☑ | No ☐ | |
| 9. | Sufficient sample volume for indicated test(s)? | Yes ☑ | No ☐ | |
| 10. | Are samples properly preserved? | Yes ☑ | No ☐ | |
| 11. | Was preservative added to bottles? | Yes ☐ | No ☑ | NA ☐ |
| 12. | Is there headspace in the VOA vials? | Yes ☐ | No ☐ | NA ☑ |
| 13. | Did all samples containers arrive in good condition(unbroken)? | Yes ☑ | No ☐ | |
| 14. | Does paperwork match bottle labels? | Yes ☑ | No ☐ | |
| 15. | Are matrices correctly identified on Chain of Custody? | Yes ☑ | No ☐ | |
| 16. | Is it clear what analyses were requested? | Yes ☑ | No ☐ | |
| 17. | Were all holding times able to be met? | Yes ☑ | No ☐ | |

## *Special Handling (if applicable)*

| | | | | |
|---|---|---|---|---|
| 18. | Was client notified of all discrepancies with this order? | Yes ☐ | No ☐ | NA ☑ |

| | | | |
|---|---|---|---|
| Person Notified: | | Date | |
| By Whom: | | Via: | ☐ eMail ☐ Phone ☐ Fax ☐ In Person |
| Regarding: | | | |
| Client Instructions: | | | |

19. Additional remarks:

**Item Information**

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

# Air Chain of Custody Record & Laboratory Services Agreement

Date: 12/18/18 Page: 1 of: 1

Laboratory Project No (Internal): 1912261

Special Remarks: Provide EDD

Client: EPI

Address: 1180 NW Maple St.

City, State, Zip: Issaquah, WA 98027

Telephone: 425-395-0010

Fax:

Project Name: WA Industries

Project No: 64001.6

Location: 825 S. Dakota St. Seattle

Collected by: Joe Sherrod

Reports to (PM): Sean Trimble

Email (PM): seant@epi-wa.com

Air samples are disposed of one week after report is submitted to client unless otherwise requested. ☐ OK to Dispose ☐ Hold (fees may apply)

| | Sample Name | Canister / Flow Reg Serial # | Sample Date & Time | Sample Type (Matrix) * | Container Type ** | Fill Time / Flow Rate | Internal: Initial Evacuation Pressure (mtorr) | Internal: Field Initial Sample Pressure (" Hg) | Internal: Field Final Sample Pressure (" Hg) | Analysis: VOCs TO15 SCAN | VOCs TO15 SCAN LL | VOCs TO15 SIM | Siloxanes TO15 | Sulfur TO15 | Sulfur Ext. TO15 | APH TO15 | Helium | Major Gases 3C | VOCs by 8260 | Comments | Internal: Final Pressure ("Hg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | S2-EFF-1218 | Canister / Flow Reg | 12/18/18 Date / 1200 Time | S | TB–1L | .5 min | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | X | | |
| 2 | | Canister / Flow Reg | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |
| 3 | | Canister / Flow Reg | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |
| 4 | | Canister / Flow Reg | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |
| 5 | | Canister / Flow Reg | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |

* Matrix Codes: AA = Ambient Air IA = Indoor Air L = Landfill S = Subslab / Soil Gas

** Container Codes: BV = 1 Liter Bottle Vac 6L = 6L Canister 1L = 1L Canister CYL = High Pressure Cylinder F = Filter S = Sorbent Tube TB = Tedlar Bag

**I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.**

| Relinquished | Date/Time | Received | Date/Time |
|---|---|---|---|
| x | 12/18/18 / 1333 | x | 12/18/18 1333 |
| Relinquished | Date/Time | Received | Date/Time |
| x | | x | |

Turn-Around Time:
- ☑ Standard
- ☐ 3 Day
- ☐ 2 Day
- ☐ Next Day
- Same Day _____ (specify)

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

**Environmental Partners, Inc.**
Sean Trimble
1180 NW Maple Street, Suite 310
Issaquah, WA 98027

**RE: WA Industries**
**Work Order Number: 1902085**

February 14, 2019

**Attention Sean Trimble:**

Fremont Analytical, Inc. received 1 sample(s) on 2/8/2019 for the analyses presented in the following report.

***Volatile Organic Compounds by EPA Method 8260C***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director

**CC:**
Joe Sherrod

**Date:** *02/14/2019*

**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries
**Work Order:** 1902085

# Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---|---|---|---|
| 1902085-001 | S2-EFF-0208 | 02/08/2019 8:07 AM | 02/08/2019 9:19 AM |

# Case Narrative

WO#: **1902085**
Date: **2/14/2019**

**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

WorkOrder Narrative:
I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

**Client:** Environmental Partners, Inc.
**Collection Date:** 2/8/2019 8:07:00 AM
**Project:** WA Industries
**Lab ID:** 1902085-001
**Matrix:** Air
**Client Sample ID:** **S2-EFF-0208**

## Volatile Organic Compounds by EPA Method 8260C

Batch ID: 23489 Analyst: KT

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| Chloromethane | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| Vinyl chloride | ND | 0.0200 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| Bromomethane | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| Chloroethane | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| 1,1-Dichloroethene | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| Methylene chloride | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| trans-1,2-Dichloroethene | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| 1,1-Dichloroethane | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| 2,2-Dichloropropane | ND | 0.200 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| cis-1,2-Dichloroethene | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| Chloroform | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| 1,1-Dichloropropene | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| Carbon tetrachloride | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| Benzene | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| Trichloroethene (TCE) | 0.653 | 0.0500 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| 1,2-Dichloropropane | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| Bromodichloromethane | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| Dibromomethane | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| cis-1,3-Dichloropropene | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| Toluene | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| trans-1,3-Dichloropropylene | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| 1,1,2-Trichloroethane | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| 1,3-Dichloropropane | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| Tetrachloroethene (PCE) | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| Dibromochloromethane | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| Chlorobenzene | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| Ethylbenzene | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| m,p-Xylene | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| o-Xylene | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| Styrene | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| Isopropylbenzene | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| Bromoform | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |

# Analytical Report

Work Order: **1902085**
Date Reported: **2/14/2019**

**Client:** Environmental Partners, Inc.
**Collection Date:** 2/8/2019 8:07:00 AM
**Project:** WA Industries
**Lab ID:** 1902085-001
**Matrix:** Air
**Client Sample ID:** **S2-EFF-0208**

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by EPA Method 8260C** | | | | Batch ID: 23489 | | Analyst: KT |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| n-Propylbenzene | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| Bromobenzene | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| 2-Chlorotoluene | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| 4-Chlorotoluene | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| tert-Butylbenzene | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| 1,2,3-Trichloropropane | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| sec-Butylbenzene | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| 4-Isopropyltoluene | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| 1,3-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| 1,4-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| n-Butylbenzene | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| 1,2-Dichlorobenzene | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| Hexachlorobutadiene | ND | 0.400 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| Naphthalene | ND | 0.100 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | µg/L | 1 | 2/8/2019 11:24:27 AM |
| Surr: Dibromofluoromethane | 97.6 | 56.4 - 141 | | %Rec | 1 | 2/8/2019 11:24:27 AM |
| Surr: Toluene-d8 | 104 | 66 - 138 | | %Rec | 1 | 2/8/2019 11:24:27 AM |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 100 | 64.7 - 128 | | %Rec | 1 | 2/8/2019 11:24:27 AM |

**Work Order:** 1902085
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-23489** SampType: **LCS** Units: **µg/L** Prep Date: **2/8/2019** RunNo: **49433**
Client ID: **LCSW** Batch ID: **23489** Analysis Date: **2/8/2019** SeqNo: **969382**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 1.59 | 0.100 | 2.000 | 0 | 79.5 | 38.8 | 143 | | | | |
| Chloromethane | 2.03 | 0.100 | 2.000 | 0 | 101 | 42.5 | 131 | | | | |
| Vinyl chloride | 2.13 | 0.0200 | 2.000 | 0 | 106 | 56.2 | 130 | | | | |
| Bromomethane | 2.11 | 0.100 | 2.000 | 0 | 106 | 45.4 | 138 | | | | |
| Trichlorofluoromethane (CFC-11) | 1.86 | 0.100 | 2.000 | 0 | 93.1 | 64.7 | 129 | | | | |
| Chloroethane | 2.08 | 0.100 | 2.000 | 0 | 104 | 62.5 | 123 | | | | |
| 1,1-Dichloroethene | 2.10 | 0.100 | 2.000 | 0 | 105 | 60.7 | 146 | | | | |
| Methylene chloride | 2.01 | 0.100 | 2.000 | 0 | 100 | 60.3 | 135 | | | | |
| trans-1,2-Dichloroethene | 2.04 | 0.100 | 2.000 | 0 | 102 | 71.3 | 129 | | | | |
| Methyl tert-butyl ether (MTBE) | 1.82 | 0.100 | 2.000 | 0 | 90.9 | 59.3 | 138 | | | | |
| 1,1-Dichloroethane | 2.05 | 0.100 | 2.000 | 0 | 102 | 71.3 | 129 | | | | |
| 2,2-Dichloropropane | 2.26 | 0.200 | 2.000 | 0 | 113 | 37.8 | 132 | | | | |
| cis-1,2-Dichloroethene | 2.08 | 0.100 | 2.000 | 0 | 104 | 67.5 | 127 | | | | |
| Chloroform | 1.93 | 0.100 | 2.000 | 0 | 96.3 | 70.3 | 123 | | | | |
| 1,1,1-Trichloroethane (TCA) | 1.83 | 0.100 | 2.000 | 0 | 91.5 | 67.9 | 134 | | | | |
| 1,1-Dichloropropene | 1.99 | 0.100 | 2.000 | 0 | 99.7 | 72.1 | 133 | | | | |
| Carbon tetrachloride | 1.82 | 0.100 | 2.000 | 0 | 91.2 | 64.4 | 133 | | | | |
| 1,2-Dichloroethane (EDC) | 1.70 | 0.100 | 2.000 | 0 | 84.9 | 65.8 | 126 | | | | |
| Benzene | 2.08 | 0.100 | 2.000 | 0 | 104 | 67.1 | 132 | | | | |
| Trichloroethene (TCE) | 1.98 | 0.0500 | 2.000 | 0 | 98.9 | 71.9 | 130 | | | | |
| 1,2-Dichloropropane | 2.06 | 0.100 | 2.000 | 0 | 103 | 71.9 | 131 | | | | |
| Bromodichloromethane | 1.86 | 0.100 | 2.000 | 0 | 92.8 | 70 | 130 | | | | |
| Dibromomethane | 1.89 | 0.100 | 2.000 | 0 | 94.3 | 74.2 | 125 | | | | |
| cis-1,3-Dichloropropene | 1.98 | 0.100 | 2.000 | 0 | 98.9 | 62.8 | 135 | | | | |
| Toluene | 2.09 | 0.100 | 2.000 | 0 | 105 | 73.6 | 127 | | | | |
| trans-1,3-Dichloropropylene | 1.82 | 0.100 | 2.000 | 0 | 91.0 | 58.1 | 138 | | | | |
| 1,1,2-Trichloroethane | 1.90 | 0.100 | 2.000 | 0 | 94.8 | 65.4 | 128 | | | | |
| 1,3-Dichloropropane | 1.90 | 0.100 | 2.000 | 0 | 95.2 | 71.9 | 131 | | | | |
| Tetrachloroethene (PCE) | 2.05 | 0.100 | 2.000 | 0 | 102 | 52.4 | 140 | | | | |
| Dibromochloromethane | 1.76 | 0.100 | 2.000 | 0 | 87.8 | 68.7 | 139 | | | | |
| 1,2-Dibromoethane (EDB) | 1.83 | 0.0250 | 2.000 | 0 | 91.5 | 71.2 | 129 | | | | |

**Work Order:** 1902085
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **LCS-23489** SampType: **LCS** Units: **µg/L** Prep Date: **2/8/2019** RunNo: **49433**
Client ID: **LCSW** Batch ID: **23489** Analysis Date: **2/8/2019** SeqNo: **969382**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | 1.96 | 0.100 | 2.000 | 0 | 97.8 | 77.2 | 122 | | | | |
| 1,1,1,2-Tetrachloroethane | 1.92 | 0.100 | 2.000 | 0 | 95.9 | 76.2 | 130 | | | | |
| Ethylbenzene | 2.02 | 0.100 | 2.000 | 0 | 101 | 78 | 127 | | | | |
| m,p-Xylene | 3.99 | 0.100 | 4.000 | 0 | 99.7 | 77.5 | 130 | | | | |
| o-Xylene | 2.00 | 0.100 | 2.000 | 0 | 100 | 77.6 | 126 | | | | |
| Styrene | 2.04 | 0.100 | 2.000 | 0 | 102 | 66.8 | 137 | | | | |
| Isopropylbenzene | 2.01 | 0.100 | 2.000 | 0 | 101 | 75.9 | 133 | | | | |
| Bromoform | 1.77 | 0.100 | 2.000 | 0 | 88.6 | 54.1 | 146 | | | | |
| 1,1,2,2-Tetrachloroethane | 2.00 | 0.100 | 2.000 | 0 | 100 | 68 | 134 | | | | |
| n-Propylbenzene | 2.09 | 0.100 | 2.000 | 0 | 104 | 77.1 | 133 | | | | |
| Bromobenzene | 1.99 | 0.100 | 2.000 | 0 | 99.6 | 71.1 | 131 | | | | |
| 1,3,5-Trimethylbenzene | 2.01 | 0.100 | 2.000 | 0 | 101 | 76.2 | 133 | | | | |
| 2-Chlorotoluene | 2.03 | 0.100 | 2.000 | 0 | 102 | 67.1 | 137 | | | | |
| 4-Chlorotoluene | 2.03 | 0.100 | 2.000 | 0 | 102 | 70.7 | 132 | | | | |
| tert-Butylbenzene | 1.99 | 0.100 | 2.000 | 0 | 99.3 | 71.3 | 139 | | | | |
| 1,2,3-Trichloropropane | 1.92 | 0.100 | 2.000 | 0 | 95.9 | 70.8 | 132 | | | | |
| 1,2,4-Trichlorobenzene | 2.12 | 0.200 | 2.000 | 0 | 106 | 61.4 | 139 | | | | |
| sec-Butylbenzene | 2.03 | 0.100 | 2.000 | 0 | 101 | 77.4 | 136 | | | | |
| 4-Isopropyltoluene | 2.01 | 0.100 | 2.000 | 0 | 100 | 78.1 | 131 | | | | |
| 1,3-Dichlorobenzene | 2.13 | 0.100 | 2.000 | 0 | 106 | 73.5 | 125 | | | | |
| 1,4-Dichlorobenzene | 2.10 | 0.100 | 2.000 | 0 | 105 | 71.4 | 125 | | | | |
| n-Butylbenzene | 2.19 | 0.100 | 2.000 | 0 | 110 | 69.8 | 138 | | | | |
| 1,2-Dichlorobenzene | 2.04 | 0.100 | 2.000 | 0 | 102 | 74.2 | 123 | | | | |
| 1,2-Dibromo-3-chloropropane | 1.80 | 0.100 | 2.000 | 0 | 89.8 | 53.6 | 155 | | | | |
| 1,2,4-Trimethylbenzene | 2.01 | 0.100 | 2.000 | 0 | 101 | 72.3 | 133 | | | | |
| Hexachlorobutadiene | 2.23 | 0.400 | 2.000 | 0 | 112 | 60.9 | 141 | | | | |
| Naphthalene | 2.03 | 0.100 | 2.000 | 0 | 102 | 58.2 | 140 | | | | |
| 1,2,3-Trichlorobenzene | 2.12 | 0.400 | 2.000 | 0 | 106 | 61.3 | 133 | | | | |
| Surr: Dibromofluoromethane | 2.45 | | 2.500 | | 98.1 | 56.4 | 141 | | | | |
| Surr: Toluene-d8 | 2.58 | | 2.500 | | 103 | 66 | 138 | | | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.59 | | 2.500 | | 104 | 64.7 | 128 | | | | |

**Work Order:** 1902085
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

| Sample ID | **LCS-23489** | SampType: **LCS** | | | Units: **µg/L** | | Prep Date: **2/8/2019** | | RunNo: **49433** | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSW** | Batch ID: **23489** | | | | | Analysis Date: **2/8/2019** | | SeqNo: **969382** | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| Sample ID | **MB-23489** | SampType: **MBLK** | | | Units: **µg/L** | | Prep Date: **2/8/2019** | | RunNo: **49433** | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **MBLKW** | Batch ID: **23489** | | | | | Analysis Date: **2/8/2019** | | SeqNo: **969383** | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Dichlorodifluoromethane | ND | 0.100 | | | | | | | | | |
| Chloromethane | ND | 0.100 | | | | | | | | | |
| Vinyl chloride | ND | 0.0200 | | | | | | | | | |
| Bromomethane | ND | 0.100 | | | | | | | | | |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | | | | | | | | |
| Chloroethane | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Methylene chloride | ND | 0.100 | | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.100 | | | | | | | | | |
| 2,2-Dichloropropane | ND | 0.200 | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Chloroform | ND | 0.100 | | | | | | | | | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.100 | | | | | | | | | |
| Carbon tetrachloride | ND | 0.100 | | | | | | | | | |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | | | | | | | | |
| Benzene | ND | 0.100 | | | | | | | | | |
| Trichloroethene (TCE) | ND | 0.0500 | | | | | | | | | |
| 1,2-Dichloropropane | ND | 0.100 | | | | | | | | | |
| Bromodichloromethane | ND | 0.100 | | | | | | | | | |
| Dibromomethane | ND | 0.100 | | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.100 | | | | | | | | | |
| Toluene | ND | 0.100 | | | | | | | | | |

**Work Order:** 1902085
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **MB-23489** SampType: **MBLK** Units: **µg/L** Prep Date: **2/8/2019** RunNo: **49433**
Client ID: **MBLKW** Batch ID: **23489** Analysis Date: **2/8/2019** SeqNo: **969383**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropylene | ND | 0.100 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.100 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 0.100 | | | | | | | | | |
| Tetrachloroethene (PCE) | ND | 0.100 | | | | | | | | | |
| Dibromochloromethane | ND | 0.100 | | | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | | | | | | | | |
| Chlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | | | | | | | | |
| Ethylbenzene | ND | 0.100 | | | | | | | | | |
| m,p-Xylene | ND | 0.100 | | | | | | | | | |
| o-Xylene | ND | 0.100 | | | | | | | | | |
| Styrene | ND | 0.100 | | | | | | | | | |
| Isopropylbenzene | ND | 0.100 | | | | | | | | | |
| Bromoform | ND | 0.100 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | | | | | | | | |
| n-Propylbenzene | ND | 0.100 | | | | | | | | | |
| Bromobenzene | ND | 0.100 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | | | | | | | | |
| 2-Chlorotoluene | ND | 0.100 | | | | | | | | | |
| 4-Chlorotoluene | ND | 0.100 | | | | | | | | | |
| tert-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.100 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | | | | | | | | |
| sec-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 4-Isopropyltoluene | ND | 0.100 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| n-Butylbenzene | ND | 0.100 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.100 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | | | | | | | | |

**Work Order:** 1902085
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **MB-23489** SampType: **MBLK** Units: **µg/L** Prep Date: **2/8/2019** RunNo: **49433**
Client ID: **MBLKW** Batch ID: **23489** Analysis Date: **2/8/2019** SeqNo: **969383**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ND | 0.400 | | | | | | | | | |
| Naphthalene | ND | 0.100 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | | | | | | | | |
| Surr: Dibromofluoromethane | 2.46 | | 2.500 | | 98.3 | 56.4 | 141 | | | | |
| Surr: Toluene-d8 | 2.56 | | 2.500 | | 103 | 66 | 138 | | | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.54 | | 2.500 | | 102 | 64.7 | 128 | | | | |

Sample ID **1902084-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **2/8/2019** RunNo: **49433**
Client ID: **BATCH** Batch ID: **23489** Analysis Date: **2/8/2019** SeqNo: **969378**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Vinyl chloride | ND | 0.0200 | | | | | | 0 | | 30 | |
| Bromomethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Trichlorofluoromethane (CFC-11) | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Methylene chloride | ND | 0.100 | | | | | | 0 | | 30 | |
| trans-1,2-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Methyl tert-butyl ether (MTBE) | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 2,2-Dichloropropane | ND | 0.200 | | | | | | 0 | | 30 | |
| cis-1,2-Dichloroethene | ND | 0.100 | | | | | | 0 | | 30 | |
| Chloroform | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1-Dichloropropene | ND | 0.100 | | | | | | 0 | | 30 | |
| Carbon tetrachloride | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dichloroethane (EDC) | ND | 0.100 | | | | | | 0 | | 30 | |
| Benzene | ND | 0.100 | | | | | | 0 | | 30 | |

**Work Order:** 1902085
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1902084-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **2/8/2019** RunNo: **49433**
Client ID: **BATCH** Batch ID: **23489** Analysis Date: **2/8/2019** SeqNo: **969378**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene (TCE) | 3.69 | 0.0500 | | | | | | 3.270 | 12.2 | 30 | |
| 1,2-Dichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromodichloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Dibromomethane | ND | 0.100 | | | | | | 0 | | 30 | |
| cis-1,3-Dichloropropene | ND | 0.100 | | | | | | 0 | | 30 | |
| Toluene | ND | 0.100 | | | | | | 0 | | 30 | |
| trans-1,3-Dichloropropylene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,2-Trichloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3-Dichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| Tetrachloroethene (PCE) | ND | 0.100 | | | | | | 0 | | 30 | |
| Dibromochloromethane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dibromoethane (EDB) | ND | 0.0250 | | | | | | 0 | | 30 | |
| Chlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| Ethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| m,p-Xylene | ND | 0.100 | | | | | | 0 | | 30 | |
| o-Xylene | ND | 0.100 | | | | | | 0 | | 30 | |
| Styrene | ND | 0.100 | | | | | | 0 | | 30 | |
| Isopropylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromoform | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.100 | | | | | | 0 | | 30 | |
| n-Propylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Bromobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,3,5-Trimethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 2-Chlorotoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| 4-Chlorotoluene | ND | 0.100 | | | | | | 0 | | 30 | |
| tert-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,3-Trichloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,4-Trichlorobenzene | ND | 0.200 | | | | | | 0 | | 30 | |
| sec-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 4-Isopropyltoluene | ND | 0.100 | | | | | | 0 | | 30 | |

**Work Order:** 1902085
**CLIENT:** Environmental Partners, Inc.
**Project:** WA Industries

# QC SUMMARY REPORT

## Volatile Organic Compounds by EPA Method 8260C

Sample ID **1902084-001AREP** SampType: **REP** Units: **µg/L** Prep Date: **2/8/2019** RunNo: **49433**
Client ID: **BATCH** Batch ID: **23489** Analysis Date: **2/8/2019** SeqNo: **969378**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,4-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| n-Butylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dichlorobenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,4-Trimethylbenzene | ND | 0.100 | | | | | | 0 | | 30 | |
| Hexachlorobutadiene | ND | 0.400 | | | | | | 0 | | 30 | |
| Naphthalene | ND | 0.100 | | | | | | 0 | | 30 | |
| 1,2,3-Trichlorobenzene | ND | 0.400 | | | | | | 0 | | 30 | |
| Surr: Dibromofluoromethane | 2.44 | | 2.500 | | 97.4 | 61.1 | 128 | | 0 | | |
| Surr: Toluene-d8 | 2.60 | | 2.500 | | 104 | 68.2 | 129 | | 0 | | |
| Surr: 1-Bromo-4-fluorobenzene-BFB | 2.47 | | 2.500 | | 99.0 | 64.7 | 128 | | 0 | | |

# Sample Log-In Check List

| | | | |
|---|---|---|---|
| Client Name: | **EPI** | Work Order Number: | **1902085** |
| Logged by: | **Brianna Barnes** | Date Received: | **2/8/2019 9:19:00 AM** |

## *Chain of Custody*

| | | | | |
|---|---|---|---|---|
| 1. | Is Chain of Custody complete? | Yes ☑ | No ☐ | Not Present ☐ |
| 2. | How was the sample delivered? | Client | | |

## *Log In*

| | | | | |
|---|---|---|---|---|
| 3. | Coolers are present? | Yes ☐ | No ☑ | NA ☐ |
| | | **Air samples.** | | |
| 4. | Shipping container/cooler in good condition? | Yes ☑ | No ☐ | |
| 5. | Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact) | Yes ☐ | No ☐ | Not Required ☑ |
| 6. | Was an attempt made to cool the samples? | Yes ☐ | No ☐ | NA ☑ |
| 7. | Were all items received at a temperature of >0°C to 10.0°C* | Yes ☐ | No ☐ | NA ☑ |
| 8. | Sample(s) in proper container(s)? | Yes ☑ | No ☐ | |
| 9. | Sufficient sample volume for indicated test(s)? | Yes ☑ | No ☐ | |
| 10. | Are samples properly preserved? | Yes ☑ | No ☐ | |
| 11. | Was preservative added to bottles? | Yes ☐ | No ☑ | NA ☐ |
| 12. | Is there headspace in the VOA vials? | Yes ☐ | No ☐ | NA ☑ |
| 13. | Did all samples containers arrive in good condition(unbroken)? | Yes ☑ | No ☐ | |
| 14. | Does paperwork match bottle labels? | Yes ☑ | No ☐ | |
| 15. | Are matrices correctly identified on Chain of Custody? | Yes ☑ | No ☐ | |
| 16. | Is it clear what analyses were requested? | Yes ☑ | No ☐ | |
| 17. | Were all holding times able to be met? | Yes ☑ | No ☐ | |

## *Special Handling (if applicable)*

| | | | | |
|---|---|---|---|---|
| 18. | Was client notified of all discrepancies with this order? | Yes ☐ | No ☐ | NA ☑ |

| | | | |
|---|---|---|---|
| Person Notified: | | Date | |
| By Whom: | | Via: | ☐ eMail ☐ Phone ☐ Fax ☐ In Person |
| Regarding: | | | |
| Client Instructions: | | | |

19. Additional remarks:

**Item Information**

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

# Air Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Date: 2/08/19 Page: 1 of: 1

Laboratory Project No (Internal): 1902095

Project Name: WA 64foot Industries

Special Remarks: Provide EDD

Client: EPI

Project No: 6400l.6

Address: 1180 NW Maple St.

Location: Seattle, WA

City, State, Zip: Issaquah, WA 98027

Collected by: Joe Sherrod

Telephone: 425-395-0010

Reports to (PM): Sean Trimble / Joe Sherrod

Air samples are disposed of one week after report is submitted to client unless otherwise requested. ☐ OK to Dispose ☐ Hold (fees may apply)

Fax:

Email (PM): sean@epi-wa.com

| | Sample Name | Canister / Flow Reg Serial # | Sample Date & Time | Sample Type (Matrix) * | Container Type ** | Fill Time / Flow Rate | Internal: Initial Evacuation Pressure (mtorr) | Field Initial Sample Pressure (" Hg) | Field Final Sample Pressure (" Hg) | Analysis: VOCs TO15 SCAN | VOCs TO15 SCAN LL | VOCs TO15 SIM | Siloxanes TO15 | Sulfur TO15 | Sulfur Ext. TO15 | APH TO15 | Helium | Major Gases 3C | VOCs by 8260 | Comments | Internal: Final Pressure ("Hg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | S2-EFF-0208 | Canister / Flow Reg. | 2/08/19 Date / 0807 Time | S | TB 1L | .5 min | Pressure / Date | / Date | / Date | | | | | | | | | | X | | |
| 2 | | Canister / Flow Reg. | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |
| 3 | | Canister / Flow Reg. | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |
| 4 | | Canister / Flow Reg. | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |
| 5 | | Canister / Flow Reg. | Date / Time | | | | Pressure / Date | Pressure / Date | Pressure / Date | | | | | | | | | | | | |

* Matrix Codes: AA = Ambient Air IA = Indoor Air L = Landfill S = Subslab / Soil Gas

** Container Codes: BV = 1 Liter Bottle Vac 6L = 6L Canister 1L = 1L Canister CYL = High Pressure Cylinder F = Filter S = Sorbent Tube TB = Tedlar Bag

**I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.**

| Relinquished | Date/Time | Received | Date/Time |
|---|---|---|---|
| x | 2/08/19 / 0919 | x Casey Allen | 2/8/19 919 |
| Relinquished | Date/Time | Received | Date/Time |
| x | | x | |

**Turn-Around Time:**

- ☑ Standard
- ☐ 3 Day
- ☐ 2 Day
- ☐ Next Day
- Same Day _____ (specify)