April 10, 2023



Sunny Becker, Ecology Site Manager Department of Ecology - Toxics Cleanup Program Northwest Region Office 15700 Dayton Avenue North Shoreline, Washington 98133-9716

Re: Quarterly Progress Report for period ending March 2023

| Site Name: | BOTHELL RIVERSIDE-HVOC |
|--------------------|--|
| Site Address: | Southeast corner of Woodinville Drive (SR 522) and NE 180 th Street, Bothell WA 98011 |
| Parcel Numbers: | 0826059120 and 0826059036 (King County) |
| Facility/Site No.: | 93061 |
| Agreed Order No.: | DE 21531 (Effective date March 22, 2023) |

Reporting Period: Jan - Mar 2023

Summary:

The City of Bothell (PLP) initiated work for the Bothell Riverside-HVOC site, in accordance with the Agreed Order (AO) with the Washington State Department of Ecology (Ecology).

Per the requirements of Part C of Section VII of the Agreed Order, the attached quarterly progress report has been prepared for the three-month period preceding this submittal to satisfy the terms described in the Agreed Order.

During this period the work has been geared towards continued operation of the groundwater pumping interim action and initiating planning and scheduling for remedial design and remedial actions to be performed under this Agreed Order. There was also initial coordination work done between the City and Ecology.

The attached progress report provides an update on work accomplished for the period ending March 31, 2022. Please contact me if you have any questions.

Sincerely,

Ryan Roberts Project Coordinator, City of Bothell City of Bothell, Public Works Department Phone: 425.471.1837 Email: <u>ryan.roberts@bothellwa.gov</u>

Public Works Department 18415 101st Ave NE Bothell, WA 98011 425.806.6800 www.bothellwa.gov

PROGRESS REPORT

Reporting Period: Date submitted (electronically): Date mailed (certified w/return receipt): Prepared by:

Jan - Mar 2023 Apr 10, 2023 *(deferred due to COVID-19 Stay at Home Order)* Scott Adamek, Project Engineer

1. A list of on-site activities that have taken place during this quarter

- Supporting Ecology with finalization of the Agreed Order document package.
- Continued operation of the groundwater pumping interim action.
- Initial planning and scheduling for remedial design and action activities.
- Collect discharge samples for KCIW discharge permit monitoring.
- 2. <u>Detailed description of any deviations from required tasks not otherwise documented in project</u> plans or amendment requests:

no deviations identified

3. <u>Description of all deviations from the Scope of Work and Schedule (Exhibit C) during the current</u> <u>quarter and any planned deviations in the upcoming quarter.</u>

no deviations identified

4. For any deviations in schedule, a plan for recovering lost time and maintaining compliance with the schedule:

no deviations identified

5. <u>All raw data (including laboratory analyses) received during the previous quarter (if not previously submitted to Ecology), together with a detailed description of the underlying samples collected:</u>

The laboratory analytical report for discharge samples collected for KCIW discharge permit monitoring are attached.

6. <u>A list of deliverables for the upcoming quarter:</u>

Draft Pre-Remedial Design Investigation (PRDI) Project Plans with schedule:

- Work Plan
- Sampling and Analysis Plan
- Quality Assurance Project Plan
- Health and Safety Plan

Attachments

KCIW Discharge Permit Monitoring Laboratory Analytical Report



March 10, 2023

Jeff Jensen Kane Environmental, Inc. 4015 13th Avenue West Seattle, WA 98119

Re: Analytical Data for Project 82306 Laboratory Reference No. 2303-028

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on March 2, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures



Date of Report: March 10, 2023 Samples Submitted: March 2, 2023 Laboratory Reference: 2303-028 Project: 82306

Case Narrative

Samples were collected on March 2, 2023 and received by the laboratory on March 2, 2023. They were maintained at the laboratory at a temperature of 2° C to 6° C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Volatiles EPA 8260D Analysis

The RPD for Methylene Chloride, 1,2-Dichloroethane and 1,2,4-Trichlorobenzene is outside the control limits for the Spike Blank/Spike Blank Duplicate. The percent recoveries on both spike blanks are within recovery limits. The method allows for a percentage of the compounds to fall outside of the control limits due to the large number of analytes being spiked.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



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VOLATILE ORGANICS EPA 8260D page 1 of 2

Matrix: Water Units: ug/L

| | | | | Date | Date | |
|---------------------------------------|------------------|------|-----------|----------|----------|-------|
| Analyte | Result | PQL | Method | Prepared | Analyzed | Flags |
| Client ID: | RHVOC-2023-03-02 | | | | | |
| Laboratory ID: | 03-028-01 | | | | | |
| Dichlorodifluoromethane | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Chloromethane | ND | 1.0 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Vinyl Chloride | 0.37 | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Bromomethane | ND | 1.0 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Chloroethane | ND | 1.0 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Trichlorofluoromethane | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 1,1-Dichloroethene | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| lodomethane | ND | 5.0 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Methylene Chloride | ND | 1.0 | EPA 8260D | 3-6-23 | 3-6-23 | |
| (trans) 1,2-Dichloroethene | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 1,1-Dichloroethane | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 2,2-Dichloropropane | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| (cis) 1,2-Dichloroethene | 6.4 | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Bromochloromethane | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Chloroform | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 1,1,1-Trichloroethane | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Carbon Tetrachloride | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 1,1-Dichloropropene | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 1,2-Dichloroethane | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Trichloroethene | 8.1 | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 1,2-Dichloropropane | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Dibromomethane | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Bromodichloromethane | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| (cis) 1,3-Dichloropropene | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| (trans) 1,3-Dichloropropen | e ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| · · · · · · · · · · · · · · · · · · · | | | | | | |



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| | | | | Date | Date | |
|-----------------------------|------------------|----------------|-----------|----------|----------|-------|
| Analyte | Result | PQL | Method | Prepared | Analyzed | Flags |
| Client ID: R | HVOC-2023-03-02 | | | | | |
| Laboratory ID: | 03-028-01 | | | | | |
| 1,1,2-Trichloroethane | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Tetrachloroethene | 18 | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 1,3-Dichloropropane | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Dibromochloromethane | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 1,2-Dibromoethane | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Chlorobenzene | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Bromoform | ND | 1.0 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Bromobenzene | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 1,2,3-Trichloropropane | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 2-Chlorotoluene | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 4-Chlorotoluene | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 1,3-Dichlorobenzene | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 1,4-Dichlorobenzene | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 1,2-Dichlorobenzene | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 1,2-Dibromo-3-chloropropane | e ND | 1.0 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Hexachlorobutadiene | ND | 1.0 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| Dibromofluoromethane | 106 | 75-127 | | | | |
| Toluene-d8 | 108 | 80-127 | | | | |
| 4-Bromofluorobenzene | 102 | 78-125 | | | | |

VOLATILE ORGANICS EPA 8260D page 2 of 2



VOLATILE ORGANICS EPA 8260D QUALITY CONTROL page 1 of 2

Matrix: Water Units: ug/L

| | | | | Date | Date | |
|-----------------------------|----------|------|-----------|----------|----------|-------|
| Analyte | Result | PQL | Method | Prepared | Analyzed | Flags |
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB0306W1 | | | | | |
| Dichlorodifluoromethane | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Chloromethane | ND | 1.0 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Vinyl Chloride | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Bromomethane | ND | 1.0 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Chloroethane | ND | 1.0 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Trichlorofluoromethane | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 1,1-Dichloroethene | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| lodomethane | ND | 5.0 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Methylene Chloride | ND | 1.0 | EPA 8260D | 3-6-23 | 3-6-23 | |
| (trans) 1,2-Dichloroethene | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 1,1-Dichloroethane | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 2,2-Dichloropropane | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| (cis) 1,2-Dichloroethene | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Bromochloromethane | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Chloroform | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 1,1,1-Trichloroethane | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Carbon Tetrachloride | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 1,1-Dichloropropene | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 1,2-Dichloroethane | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Trichloroethene | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 1,2-Dichloropropane | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Dibromomethane | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Bromodichloromethane | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| (cis) 1,3-Dichloropropene | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| (trans) 1,3-Dichloropropene | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |



VOLATILE ORGANICS EPA 8260D QUALITY CONTROL page 2 of 2

| | | | | Date | Date | |
|-----------------------------|------------------|----------------|-----------|----------|----------|-------|
| Analyte | Result | PQL | Method | Prepared | Analyzed | Flags |
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB0306W1 | | | | | |
| 1,1,2-Trichloroethane | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Tetrachloroethene | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 1,3-Dichloropropane | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Dibromochloromethane | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 1,2-Dibromoethane | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Chlorobenzene | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Bromoform | ND | 1.0 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Bromobenzene | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 1,2,3-Trichloropropane | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 2-Chlorotoluene | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 4-Chlorotoluene | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 1,3-Dichlorobenzene | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 1,4-Dichlorobenzene | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 1,2-Dichlorobenzene | ND | 0.20 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Hexachlorobutadiene | ND | 1.0 | EPA 8260D | 3-6-23 | 3-6-23 | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | EPA 8260D | 3-6-23 | 3-6-23 | |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| Dibromofluoromethane | 108 | 75-127 | | | | |
| Toluene-d8 | 107 | 80-127 | | | | |
| 4-Bromofluorobenzene | 99 | 78-125 | | | | |



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VOLATILE ORGANICS EPA 8260D QUALITY CONTROL page 1 of 2

Matrix: Water Units: ug/L

| | | | | | Per | cent | Recovery | | | |
|-------------------------------------|-------------------------|------|-------|-------|------|-------|----------|-----|-------|-------|
| Analyte | Result | | Spike | Level | Reco | overy | Limits | RPD | Limit | Flags |
| SPIKE BLANKS | | | | | | | | | | |
| Laboratory ID: | SB0306W1 | | | | | | | | | |
| | SB | SBD | SB | SBD | SB | SBD | | | | |
| Dichlorodifluoromethane | 8.60 | 9.70 | 10.0 | 10.0 | 86 | 97 | 34-166 | 12 | 21 | |
| Chloromethane | 9.41 | 11.1 | 10.0 | 10.0 | 94 | 111 | 63-138 | 16 | 18 | |
| Vinyl Chloride | 9.30 | 10.7 | 10.0 | 10.0 | 93 | 107 | 71-135 | 14 | 20 | |
| Bromomethane | 8.40 | 9.29 | 10.0 | 10.0 | 84 | 93 | 20-151 | 10 | 36 | |
| Chloroethane | 9.95 | 11.1 | 10.0 | 10.0 | 100 | 111 | 76-125 | 11 | 20 | |
| Trichlorofluoromethane | 9.82 | 10.7 | 10.0 | 10.0 | 98 | 107 | 75-131 | 9 | 19 | |
| 1,1-Dichloroethene | 9.69 | 11.1 | 10.0 | 10.0 | 97 | 111 | 78-125 | 14 | 19 | |
| lodomethane | 9.15 | 10.5 | 10.0 | 10.0 | 92 | 105 | 10-155 | 14 | 40 | |
| Methylene Chloride | 9.88 | 12.0 | 10.0 | 10.0 | 99 | 120 | 80-120 | 19 | 15 | L |
| (trans) 1,2-Dichloroethene | 9.78 | 11.4 | 10.0 | 10.0 | 98 | 114 | 80-125 | 15 | 17 | |
| 1,1-Dichloroethane | 9.84 | 11.5 | 10.0 | 10.0 | 98 | 115 | 80-125 | 16 | 17 | |
| 2,2-Dichloropropane | 9.93 | 11.7 | 10.0 | 10.0 | 99 | 117 | 80-146 | 16 | 21 | |
| (cis) 1,2-Dichloroethene | 9.91 | 11.5 | 10.0 | 10.0 | 99 | 115 | 80-129 | 15 | 17 | |
| Bromochloromethane | 10.6 | 11.8 | 10.0 | 10.0 | 106 | 118 | 80-125 | 11 | 18 | |
| Chloroform | 9.77 | 11.4 | 10.0 | 10.0 | 98 | 114 | 80-123 | 15 | 16 | |
| 1,1,1-Trichloroethane | 9.40 | 10.5 | 10.0 | 10.0 | 94 | 105 | 80-123 | 11 | 18 | |
| Carbon Tetrachloride | 9.68 | 11.0 | 10.0 | 10.0 | 97 | 110 | 80-126 | 13 | 17 | |
| 1,1-Dichloropropene | 9.79 | 10.6 | 10.0 | 10.0 | 98 | 106 | 80-126 | 8 | 18 | |
| 1,2-Dichloroethane | 9.19 | 11.0 | 10.0 | 10.0 | 92 | 110 | 80-124 | 18 | 15 | L |
| Trichloroethene | 10.9 | 11.6 | 10.0 | 10.0 | 109 | 116 | 80-122 | 6 | 18 | |
| 1,2-Dichloropropane | 10.2 | 10.9 | 10.0 | 10.0 | 102 | 109 | 80-123 | 7 | 15 | |
| Dibromomethane | 11.0 | 12.2 | 10.0 | 10.0 | 110 | 122 | 80-123 | 10 | 15 | |
| Bromodichloromethane | chloromethane 10.7 11.5 | | 10.0 | 10.0 | 107 | 115 | 80-125 | 7 | 15 | |
| (cis) 1,3-Dichloropropene 10 | | 11.9 | 10.0 | 10.0 | 105 | 119 | 80-129 | 13 | 15 | |
| (trans) 1,3-Dichloropropene | 10.7 | 11.6 | 10.0 | 10.0 | 107 | 116 | 80-134 | 8 | 17 | |



VOLATILE ORGANICS EPA 8260D QUALITY CONTROL page 2 of 2

| | | | | | Per | Percent Recover | | | RPD | | |
|-----------------------------|--------|------|-------|-------|-----|-----------------|--------|-----|-------|-------|--|
| Analyte | Result | | Spike | Level | Rec | overy | Limits | RPD | Limit | Flags | |
| SPIKE BLANKS | | | | | | | | | | | |
| Laboratory ID: | SB030 | 06W1 | | | | | | | | | |
| | SB | SBD | SB | SBD | SB | SBD | | | | | |
| 1,1,2-Trichloroethane | 10.6 | 11.4 | 10.0 | 10.0 | 106 | 114 | 77-126 | 7 | 20 | | |
| Tetrachloroethene | 10.3 | 10.3 | 10.0 | 10.0 | 103 | 103 | 80-124 | 0 | 18 | | |
| 1,3-Dichloropropane | 10.0 | 10.2 | 10.0 | 10.0 | 100 | 102 | 80-120 | 2 | 15 | | |
| Dibromochloromethane | 11.5 | 11.9 | 10.0 | 10.0 | 115 | 119 | 80-128 | 3 | 15 | | |
| 1,2-Dibromoethane | 10.7 | 11.0 | 10.0 | 10.0 | 107 | 110 | 80-127 | 3 | 15 | | |
| Chlorobenzene | 10.0 | 10.7 | 10.0 | 10.0 | 100 | 107 | 80-120 | 7 | 17 | | |
| 1,1,1,2-Tetrachloroethane | 10.1 | 11.0 | 10.0 | 10.0 | 101 | 110 | 80-125 | 9 | 17 | | |
| Bromoform | 10.9 | 11.0 | 10.0 | 10.0 | 109 | 110 | 80-130 | 1 | 15 | | |
| Bromobenzene | 10.0 | 10.7 | 10.0 | 10.0 | 100 | 107 | 76-128 | 7 | 16 | | |
| 1,1,2,2-Tetrachloroethane | 10.1 | 10.6 | 10.0 | 10.0 | 101 | 106 | 74-130 | 5 | 15 | | |
| 1,2,3-Trichloropropane | 10.7 | 11.6 | 10.0 | 10.0 | 107 | 116 | 71-129 | 8 | 25 | | |
| 2-Chlorotoluene | 10.3 | 10.4 | 10.0 | 10.0 | 103 | 104 | 80-128 | 1 | 18 | | |
| 4-Chlorotoluene | 9.87 | 10.3 | 10.0 | 10.0 | 99 | 103 | 80-130 | 4 | 19 | | |
| 1,3-Dichlorobenzene | 10.0 | 10.7 | 10.0 | 10.0 | 100 | 107 | 80-126 | 7 | 17 | | |
| 1,4-Dichlorobenzene | 9.85 | 10.8 | 10.0 | 10.0 | 99 | 108 | 80-121 | 9 | 17 | | |
| 1,2-Dichlorobenzene | 10.2 | 11.1 | 10.0 | 10.0 | 102 | 111 | 79-125 | 8 | 15 | | |
| 1,2-Dibromo-3-chloropropane | 10.7 | 10.7 | 10.0 | 10.0 | 107 | 107 | 73-133 | 0 | 15 | | |
| 1,2,4-Trichlorobenzene | 10.2 | 12.5 | 10.0 | 10.0 | 102 | 125 | 80-139 | 20 | 18 | L | |
| Hexachlorobutadiene | 9.37 | 10.5 | 10.0 | 10.0 | 94 | 105 | 80-151 | 11 | 18 | | |
| 1,2,3-Trichlorobenzene | 10.0 | 13.1 | 10.0 | 10.0 | 100 | 131 | 75-146 | 27 | 28 | | |
| Surrogate: | | | | | | | | | | | |
| Dibromofluoromethane | | | | | 94 | 108 | 75-127 | | | | |
| Toluene-d8 | | | | | 103 | 106 | 80-127 | | | | |
| 4-Bromofluorobenzene | | | | | 99 | 102 | 78-125 | | | | |



SETTLEABLE SOLIDS SM 2540F

Matrix: Water Units: mL/L

| | | | | Date | Date | |
|-------------------|------------------|------|----------|----------|----------|-------|
| Analyte | Result | PQL | Method | Prepared | Analyzed | Flags |
| Client ID: | RHVOC-2023-03-02 | | | | | |
| Laboratory ID: | 03-028-01 | | | | | |
| Settleable Solids | ND | 0.18 | SM 2540F | 3-3-23 | 3-3-23 | |





Data Qualifiers and Abbreviations

- A Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E The value reported exceeds the quantitation range and is an estimate.
- F Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I Compound recovery is outside of the control limits.
- J The value reported was below the practical quantitation limit. The value is an estimate.
- K Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L The RPD is outside of the control limits.
- M Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 Hydrocarbons in diesel range are impacting lube oil range results.
- O Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical _____
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- X1 Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- X2 Sample extract treated with a silica gel cleanup procedure.
- Y The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Y1 Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

| Reviewed/Date | Received | Relinquished | Received | Relinquished | Received | Relinquished | Signature | | | | | | | 1 RHUOC-2023-03-02 | Lab ID Sample Identification | sampled by: Jeff Jensen | Project Manager: Jeff Jensen | Riverride Hose | 42306 | Privat Number | 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www.onsite-env.com | Analytical Laboratory Testing Services | Environmental Inc | |
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