
VAPOR INTRUSION ASSESSMENT SAMPLING AND ANALYSIS PLAN



Property:

Plastic Sales and Services Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

Prepared for:

Washington State Department of Ecology
Toxics Cleanup Program
Northwest Regional Office
15700 Dayton Avenue North
Shoreline, Washington

Report Date:

August 15, 2023

Vapor Intrusion Assessment Sampling and Analysis Plan

Prepared for:

Washington State Department of Ecology

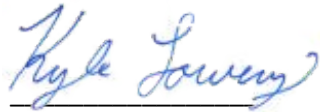
Toxics Cleanup Program, Northwest Regional Office
15700 Dayton Avenue North
Shoreline, Washington 98133

Plastic Sales and Services Site

6870 Woodlawn Avenue Northeast
Seattle, Washington 98115

Project No.: 0651-002

Prepared by:



Kyle Lowery
Project Geologist



Clare Tochilin, LG
Senior Geologist

Reviewed by:



Tom Cammarata, LG, LHG
Principal Geochemist

August 15, 2023

TABLE OF CONTENTS

| | |
|--|-----------|
| ACRONYMS AND ABBREVIATIONS | ii |
| 1.0 INTRODUCTION | 1 |
| 1.1 OBJECTIVE..... | 1 |
| 2.0 BACKGROUND | 2 |
| 2.1 SITE DESCRIPTION AND HISTORY | 2 |
| 2.1.1 Former Dry Cleaner Building Property | 2 |
| 2.1.2 Hearthstone Property..... | 3 |
| 2.1.3 Janke Property..... | 3 |
| 2.1.4 City of Seattle Rights-of-Way..... | 4 |
| 2.2 SUMMARY OF PREVIOUS INVESTIGATIONS | 4 |
| 3.0 VAPOR INTRUSION ASSESSMENT SCOPE OF WORK..... | 4 |
| 3.1 BUILDING SURVEY | 4 |
| 3.2 SUB-SLAB SOIL GAS SAMPLING | 5 |
| 3.3 INDOOR AIR SAMPLING..... | 6 |
| 3.4 AMBIENT AIR SAMPLING..... | 6 |
| 3.5 SAMPLE IDENTIFICATION | 7 |
| 3.6 LABORATORY ANALYSIS AND RESULTS | 7 |
| 4.0 DATA ANALYSIS | 7 |
| 5.0 SCHEDULE..... | 8 |
| 6.0 QUALITY ASSURANCE PLAN..... | 8 |
| 7.0 LIMITATIONS | 8 |
| 8.0 REFERENCES | 8 |

FIGURES

- 1 Property Location Map
- 2 Proposed Exploration Location Plan – Janke Building Vapor Intrusion Assessment

TABLES

- 1 Groundwater Analytical Results for CVOCs
- 2 Sub-Slab Soil Gas and Indoor Air Sample Locations and Analyses
- 3 Sub-Slab Soil Gas and Indoor Air Cleanup Levels for Proposed Analytes

APPENDICES

- A Quality Assurance Project Plan
- B Fourth Quarter 2022 Progress Report
- C Building Survey Form

ACRONYMS AND ABBREVIATIONS

| | |
|---|--|
| the alley | City of Seattle right-of-way between the Dry Cleaner Building Property and the Hearthstone Property |
| AST | aboveground storage tank |
| cis-1,2-DCE | cis-1,2-dichloroethene |
| COC | chemical of concern |
| CVOC | chlorinated volatile organic compound |
| Dry Cleaner Building | the building on the Dry Cleaner Building Property |
| Dry Cleaner Building Property | the property at 6870 Woodlawn Avenue Northeast in Seattle, Washington |
| Ecology | Washington State Department of Ecology |
| EPA | US Environmental Protection Agency |
| Farallon | Farallon Consulting, LLC |
| F&B | Friedman & Bruya, Inc. of Seattle, Washington |
| Former Laundry Property | a former parcel located within the Hearthstone Property parcel boundaries addressed at 6860 Woodlawn Avenue Northeast in Seattle, Washington |
| Former Yasuko Property | a former parcel located within the Hearthstone Property parcel boundaries addressed at 6850 Woodlawn Avenue Northeast in Seattle, Washington |
| The Hearthstone Hearthstone Property | the Lutheran Retirement Home of Greater Seattle d/b/a The Hearthstone the property adjoining the Dry Cleaner Building Property to the west located at 6850 Woodlawn Avenue Northeast in Seattle, Washington |
| Janke Property | the property north of and across the right-of-way from the Dry Cleaner Building Property located at 6869 Woodlawn Avenue Northeast in Seattle, Washington |
| Karkrie | Karkrie LLC |
| MTCA | Washington State Model Toxics Control Act |
| PCE | tetrachloroethene |
| PSS | Plastic Sales and Service |
| QAPP | Quality Assurance and Project Plan |
| RI | Remedial Investigation |
| RIFS | Remedial Investigation and Feasibility Study |
| ROW | right-of-way |
| SAP | Vapor Intrusion Assessment Sampling and Analysis Plan |

ACRONYMS AND ABBREVIATIONS (CONTINUED)

| | |
|--------------------------|---|
| Single-Family Lot | a former parcel located within the Hearthstone Property parcel boundaries addressed at 6560 Latona Avenue Northeast in Seattle, Washington |
| the Site | <p>the extent of contamination caused by the releases of hazardous substances at the property located at 6870 Woodlawn Avenue Northeast in Seattle, Washington (the Dry Cleaner Building Property); collectively, the Site includes the Dry Cleaner Building Property and the following:</p> <ul style="list-style-type: none">▪ The west-adjointing property located at 6850 Woodlawn Avenue Northeast (the Hearthstone Property)▪ The north-adjointing property located at 6869 Woodlawn Avenue Northeast▪ The south-adjointing property located at 6565 4th Avenue Northeast▪ Portions of the City of Seattle right-of-way between the Dry Cleaner Building Property and the Hearthstone Property▪ Portions of the Woodlawn Avenue Northeast and 4th Avenue Northeast ROWs |
| SoundEarth | SoundEarth Strategies, Inc. |
| South-Adjoining Property | the property adjoining the Dry Cleaner Building Property to the south located at 6565 4th Avenue Northeast in Seattle, Washington |
| TCE | trichloroethene |
| trans-1,2-DCE | trans-1,2-dichloroethene |
| UST | underground storage tank |

Vapor Intrusion Assessment Sampling and Analysis Plan

1.0 INTRODUCTION

On behalf of the Lutheran Retirement Home of Greater Seattle d/b/a The Hearthstone, SoundEarth Strategies, Inc. (SoundEarth) has prepared this Vapor Intrusion Assessment Sampling and Analysis Plan (SAP) to describe air quality sampling to be conducted at the Plastic Sales and Service (PSS) site (the Site).

The Site is defined in the Washington State Department of Ecology (Ecology) Agreed Order No. DE 7084, dated September 14, 2009, as the extent of contamination caused by the releases of hazardous substances at the property located at 6870 Woodlawn Avenue Northeast in Seattle, Washington (the Dry Cleaner Building Property). Collectively, the Site includes the Former Dry Cleaner Building Property and the following:

- The west-adjointing property located at 6850 Woodlawn Avenue Northeast (the Hearthstone Property)
- The north-adjointing property located at 6869 Woodlawn Avenue Northeast (Janke Property)
- The south-adjointing property located at 6565 4th Avenue Northeast (South-Adjointing Property)
- Portions of the City of Seattle right-of-way (ROW) between the Dry Cleaner Building Property and the Hearthstone Property (the alley)
- Portions of the Woodlawn Avenue Northeast and 4th Avenue Northeast ROWs

The purpose of the SAP is to describe the sample collection, handling, and analysis procedures to be implemented during the vapor intrusion assessment to be conducted at the Janke Property building. The SAP identifies specific sampling and analysis protocols, sample locations, frequency, equipment, quality assurance protocols for field activities, field documentation reporting requirements, and other procedures to be used during vapor intrusion assessment. The laboratory quality control procedures for the chemicals of concern (COCs) are presented in the Quality Assurance Project Plan (QAPP) for the Site (Appendix A).

The vapor intrusion assessment is being conducted in general accordance with Ecology and US Environmental Protection Agency (EPA) guidance documents:

- *Ecology's Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action*, dated October 2009 and finalized in March 2022 (Ecology 2009)
- *Ecology's Vapor Intrusion Screening Levels for Workers*, dated July 2022 (Ecology 2022)
- EPA's OSWER Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from the Subsurface Vapor Sources to Indoor Air, dated June 2015 (EPA 2015)

1.1 OBJECTIVE

The objective of this SAP is to provide Ecology with the proposed air quality sampling locations, laboratory analytical methods, quality assurance/quality control procedures, and schedule for the proposed air quality sampling event. The purpose of this proposed air quality sampling event is to evaluate the potential vapor intrusion pathway at the Janke Property as a result of a historical release of COCs to groundwater at the Former Dry Cleaning Property.

2.0 BACKGROUND

This section provides a description of the Site features and location, a summary of property use for properties located within the Site, and a summary of previous investigations.

2.1 SITE DESCRIPTION AND HISTORY

The Site is defined by the extent of contamination caused by the releases of hazardous substances at the Dry Cleaner Building Property. The Site is located in Section 5, Township 25 South, Range 4 West, in the Green Lake neighborhood of Seattle, Washington (Figure 1). A description of the properties located within the Site is provided in the following subsections.

2.1.1 Former Dry Cleaner Building Property

The Former Dry Cleaner Building Property, located at 6870 Woodlawn Avenue Northeast, consists of two tax parcels (King County Parcel Nos. 952810-4725 and 952810-4735) that cover a total of approximately 8,800 square feet (0.20 acres) of land. Redevelopment of the Former Dry Cleaner Building Property began in 2018 and was completed in 2019 (Figure 2). The new development, called Cove East, is an extension of the building on the Hearthstone Property to the west (Cove West) and includes a 22-unit independent living retirement building with one floor of underground parking.

The Former Dry Cleaner Building Property was occupied by residences as early as 1904. In 1947, Sunshine Cleaners acquired the Dry Cleaner Building Property, demolished the residences, and constructed the Former Dry Cleaner Building. The Former Dry Cleaner Building utilized steam heat fueled by a heating oil underground storage tank (UST) of unknown capacity, located in the western portion of the building. The heating oil UST was removed in 2016 in conjunction the remediation and redevelopment of the Site.

Sunshine Cleaners operated a dry cleaning facility on the Former Dry Cleaner Building Property from 1948 to 1977 (Ecology 2009b). Sunshine Cleaners utilized Stoddard solvent, the primary dry cleaning solvent in use from the late 1920s to the late 1950s. The Stoddard solvent was stored in two USTs with capacities of 1,500 and 2,000 gallons. The USTs were located in the Woodlawn Avenue Northeast ROW, adjacent to the northern side of the Dry Cleaner Building. The USTs were reportedly abandoned in place beneath the Woodlawn Avenue Northeast ROW in 1958 when Sunshine Cleaners began using tetrachloroethene (PCE) for dry cleaning operations. The USTs were removed in 2016 in conjunction with the remediation and redevelopment of the Former Dry Cleaner Building Property. Sunshine Cleaners reportedly stored PCE in an aboveground storage tank (AST) with a capacity of 200 gallons. The former location of the AST is unknown. The dry cleaning equipment utilized by Sunshine Cleaners was reportedly located within the western portion of the former Dry Cleaner Building and was used for both Stoddard solvent and PCE dry cleaning operations.

PSS began operating a plastic fabrication facility in the Former Dry Cleaner Building in 1978 and continued operations until approximately 2016. PSS did not operate as a dry cleaner; however, small quantities of solvent were used during its tenure (Ecology 2009b). No plastics were manufactured on the Former Dry Cleaner Building Property, but plastic stock materials were stored, finished, and transformed into final products on the Dry Cleaner Building Property. The Hearthstone purchased the Dry Cleaner Building Property from Karkrie LLC (Karkrie) in June 2014.

2.1.2 Hearthstone Property

The Hearthstone Property is located to the west of the Former Dry Cleaner Building Property, across the alley (Figure 2). The Hearthstone Property comprises three former tax parcels addressed at 6860 Woodlawn Avenue Northeast (Former Laundry Property), 6850 Woodlawn Avenue Northeast (Former Yasuko Property), and 6560 Latona Avenue Northeast (Single-Family Lot). The three parcels were purchased by The Hearthstone in 2005, and the Former Laundry and Former Yasuko Properties were replatted into a single tax parcel (King County Parcel No. 952810-4695). The Hearthstone Property currently consists of two tax parcels (King County Parcel Nos. 952810-4695 and 952810-4696) that cover a total of approximately 18,203 square feet (0.42 acres) of land. The Hearthstone Property is listed at 6850 Woodlawn Avenue Northeast. The northern portion of the Hearthstone Property has been redeveloped as a four-story building with one level of underground parking. The upper floors of the building on the Hearthstone Property are occupied by retirement residences, and the first floor is occupied by residential common spaces. The Single-Family Lot (King County Parcel No. 952810-4696) is undeveloped and is not considered part of the Site.

Sunshine Cleaners owned and occupied the Former Laundry Property as early as 1931. According to the former owner of Sunshine Cleaners, only laundry, pressing, and packaging operations were conducted on the Former Laundry Property. Former tenants on the Former Yasuko Property included a trophy shop, a restaurant, a dance studio, an antique shop, and a cabinetmaker.

In 1977, Robert Bell, the former owner and operator of Sunshine Cleaners, transferred interest in the Former Laundry Property. Ruben and Patricia Rael acquired the Former Laundry Property in 1995 and transferred the property to Karkrie in 2000. Karkrie sold the Former Laundry Property to The Hearthstone in 2005. PSS operated at the Former Laundry Property at various times between 1977 and 2006 (Ecology 2009b).

All aboveground structures formerly located on the Hearthstone Property were demolished between 2008 and 2009 as part of the interim cleanup action and redevelopment at the Hearthstone Property.

2.1.3 Janke Property

The Janke Property, located at 6869 Woodlawn Avenue Northeast, consists of two tax parcels (King County Parcel Nos. 952810-0525 and 952810-0535) that cover approximately 8,500 square feet (0.20 acres) of land. The Janke Property is developed with a wood-framed, two-story office building that was constructed in 1926 on the eastern portion of the property and an asphalt-paved parking lot on the western portion of the property. As observed during a site visit attended by representatives from SoundEarth, Ecology, The Hearthstone, and the Janke Property on June 28, 2023, a crawl space approximately 1.5 feet high is located beneath the first floor of the building. The crawl space is underlain by a concrete slab. Known access points to the crawl space are located within the men's bathroom in the eastern portion of the building and in the maintenance storage closet in the northeastern portion of the building. The Janke Property was occupied by residences as early as 1904, a machine shop in the 1950s, and a film development facility in 1966 (Farallon 2004). The Janke Property is currently occupied by a doctor's office and a message therapy office.

2.1.4 City of Seattle Rights-of-Way

The existing PCE groundwater plume extends from the Former Dry Cleaner Building Property into the adjoining City of Seattle ROWs. The impacted ROWs include the alley, located between the Former Dry Cleaner Building Property and the Hearthstone Property; Woodlawn Avenue Northeast, located between the Former Dry Cleaner Building Property and the Janke Property; and 4th Avenue Northeast, located directly east-northeast of the Former Dry Cleaner Building Property.

2.2 SUMMARY OF PREVIOUS INVESTIGATIONS

Remedial Investigations (RIs) were performed at the Site by SoundEarth and others between 2005 and 2014. Supplemental subsurface investigations performed by SoundEarth in 2021 and 2022 have further defined the current nature and extent of contamination at the Site. Based on the results of the RI, a feasibility study was prepared to evaluate remedial alternatives and select a final remedy for the cleanup of soil and groundwater containing chlorinated volatile organic compounds (CVOCs) at concentrations exceeding applicable regulatory cleanup levels. The final remedy included mass excavation of contaminated soil on the Dry Cleaner Building Property and injecting carbon substrate into the groundwater through 68 injection wells located on the Dry Cleaner Building Property and in the ROWs and alley adjacent to the Dry Cleaner Building Property. A detailed discussion of previous investigations performed on the Site is presented in the Remedial Investigation and Feasibility Study (RIFS) prepared by Farallon Consulting, LLC (Farallon) dated July 3, 2013, and the RIFS Addendum prepared by SoundEarth dated March 2016 (Farallon 2013; SoundEarth 2016). These reports can be found on Ecology's Cleanup and Tank Search database (Ecology, no date). Current groundwater quality conditions at the Site are discussed in the Fourth Quarter 2022 Progress Report provided as Appendix B of this SAP. Groundwater analytical results for CVOCs are included in Table 1.

3.0 VAPOR INTRUSION ASSESSMENT SCOPE OF WORK

The proposed scope of work for the vapor intrusion assessment at the Janke Property includes conducting a building survey, collecting sub-slab soil gas samples beneath the crawl space, and collecting indoor and outdoor ambient air quality samples. The scope of work will be conducted in general accordance with Ecology's *Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action* (Ecology 2009).

CVOCs, including PCE, trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), and vinyl chloride, were detected at concentrations exceeding the Washington State Model Toxics Control Act (MTCA) Method A and/or Method B cleanup levels for groundwater and the MTCA Method B groundwater screening levels for vapor intrusion in groundwater beneath the 4th Avenue Northeast and Woodlawn Avenue Northeast ROWs near the Janke Property. Therefore, a vapor intrusion assessment will be conducted at the Janke Property building to evaluate whether the known elevated CVOC concentrations present in groundwater adjacent to the Janke Property building are resulting in elevated CVOC concentrations in indoor air in the building.

3.1 BUILDING SURVEY

Prior to collecting air quality samples, SoundEarth will complete a building survey of the Janke Property building to evaluate the potential presence of CVOC sources or materials that may contribute to background indoor air contamination. The building survey will focus on anticipated areas of sample collection. SoundEarth will complete a Building Survey Form (Appendix C) documenting the findings of the building

survey. Information about the building, building materials, and HVAC systems will be noted and confirmed during the survey. If potential CVOC sources or other materials that may contribute to background indoor air contamination are identified, these materials will be removed from the building at least 48 hours prior to sample collection to the extent feasible to minimize the risk of interference during sampling activities.

3.2 SUB-SLAB SOIL GAS SAMPLING

To evaluate CVOC concentrations in soil gas beneath the Janke Building, SoundEarth will collect two sub-slab soil gas samples within the southern portion of the building in the vicinity of the elevated CVOC concentrations in groundwater beneath the 4th Avenue Northeast and Woodlawn Avenue Northeast ROWs adjacent to the Janke Property. Sub-slab soil gas sampling will be conducted concurrently with the indoor air sampling described in the following section to evaluate whether CVOC concentrations that may be detected in indoor air samples are associated solely with vapor intrusion. Sub-slab soil gas sample locations were selected based on the observed access points to the crawl space beneath the building, as identified during the site visit conducted on June 28, 2023. The proposed sub-slab soil gas sample locations and analyses are defined in Table 2, shown on Figure 2, and described below:

- Two sub-slab soil gas samples will be collected beneath the concrete slab of the crawl space of the Janke Property building. The samples will be collected in the following locations:
 - SS01: beneath the concrete slab of the crawl space in the eastern portion of the building near the Woodlawn Avenue Northeast ROW, accessed through the floor hatch located in the men’s bathroom.
 - SS02: beneath the concrete slab of the crawl space in the northeastern portion of the building near the 4th Avenue Northeast ROW, accessed through the floor hatch located in the maintenance storage closet.

Sub-slab soil gas samples will be collected by drilling a 1-inch-diameter hole through the concrete slab beneath the crawl space in each sample location using a rotary hammer. A stainless steel Vapor Pin will be installed in each sample point.

Following the installation of each soil gas point, a hold test consisting of putting the sample train under vacuum and checking for loss of pressure will be conducted to confirm the integrity of the sample train. A helium tracer leak test will also be performed to ensure that the sub-slab soil gas points and sample tubing are adequately sealed to prevent ambient air from reaching the subsurface. Prior to sampling, three volumes of the sample train will be purged at a rate of 200 milliliters per minute using a peristaltic pump. Samples will be collected from each sample point for analysis of CVOCs and helium using individually certified 1-liter SUMMA canisters provided by Friedman & Bruya, Inc. of Seattle, Washington (F&B). Each SUMMA canister will be fitted with an individually certified 200-milliliter-per-minute flow regulator.

At each sub-slab soil gas point, a duplicate sample will be collected for separate analysis of radon-222 to help characterize building-specific attenuation factors and assess the potential contribution of indoor CVOC sources in indoor air analytical results. Soil gas samples for radon-222 analysis will be collected by drawing soil gas from the sampling point using a polypropylene syringe and transferring the sample into a Tedlar bag. Each Tedlar bag will be only partially inflated so that the bags can accommodate potential sample expansion due to pressure fluctuations during shipping.

Upon completion of sampling, each soil gas sample location will be completed with a flush-mount stainless steel cap and left in place in the event that additional soil gas sampling is warranted.

3.3 INDOOR AIR SAMPLING

Indoor air sample locations within the Janke Property building have been selected to evaluate the potential for vapor intrusion from the elevated CVOC concentrations in groundwater beneath the 4th Avenue Northeast and Woodlawn Avenue Northeast ROWs adjacent to the Janke Property.

Three indoor air samples (IA01 through IA03) will be collected during the sampling event. Indoor air sampling will be conducted concurrently with the sub-slab soil gas sampling described in the previous section to evaluate whether CVOC concentrations that may be detected in indoor air samples are associated solely with vapor intrusion. The proposed indoor air sample locations and analyses are defined in Table 2, shown on Figure 2, and described below:

- Three indoor air samples will be collected on the ground level of the Janke Property building. The samples will be collected in the following locations:
 - IA01: along the northern interior wall of the building, near 4th Avenue Northeast ROW borings DZ-B02 and DZ-B03
 - IA02: along the northeastern interior corner of the building, near the intersection of the 4th Avenue Northeast and Woodlawn Avenue Northeast ROW monitoring wells MW-30, MW-21, and MW-10
 - IA03: along the eastern interior wall of the building, near Woodlawn Ave Northeast ROW injection wells IW33 and IW34

F&B will provide 6-liter individually certified SUMMA canisters for the indoor air samples. The SUMMA canisters for indoor air samples will be fitted with individually certified flow controllers calibrated by the laboratory for an approximate 8-hour sample collection period. The SUMMA canisters will be placed at a height of approximately 4 to 5 feet to approximate a potential worker's breathing level. The outdoor SUMMA canister will be placed at the approximate height of the HVAC system air intake.

At each indoor air sample location, a duplicate air sample will be collected for separate analysis of radon-222 to help characterize building-specific attenuation factors and assess the potential contribution of indoor CVOC sources in indoor air analytical results. Air samples for radon-222 analysis will be collected by drawing ambient air using a polypropylene syringe and transferring the sample into a Tedlar bag. Each Tedlar bag will be only partially inflated so that the bags can accommodate potential sample expansion due to pressure fluctuations during shipping.

The indoor air sampling event will occur on a weekend. The sampling will occur when there is a large temperature differential, or during falling barometric head conditions to simulate worst-case scenario conditions for the vapor intrusion pathway.

3.4 AMBIENT AIR SAMPLING

One outdoor ambient air sample will be collected during the sampling event, concurrently with the collection of the indoor air samples. The ambient air sample will be collected from the northeastern portion of the roof of the Janke Property building near the air intake for the building's HVAC system to establish an outdoor ambient air background level for the analyzed CVOCs (Figure 2). F&B will provide a 6-liter individually certified SUMMA canister for the outdoor air sample. The SUMMA canister for the

ambient air sample will be fitted with an individually certified flow controller calibrated by the laboratory for an approximate 8-hour sample collection period. Barometric pressure and temperature conditions will be documented at the time of SUMMA canister deployment and retrieval.

A duplicate outdoor air sample will be collected for separate analysis of radon-222 by drawing outdoor ambient air using a polypropylene syringe and transferring the sample into a Tedlar bag. The Tedlar bag will be only partially inflated so that the bag can accommodate potential sample expansion due to pressure fluctuations during shipping.

3.5 SAMPLE IDENTIFICATION

Each sample will be labeled with a prefix and two-digit numbers indicating its type (indoor or outdoor air), along with the date of sample collection. For example, sample identification IA02-20230728 would identify the second indoor air sample collected on July 28, 2023. SoundEarth personnel will document each sample in field notes and on a site plan.

3.6 LABORATORY ANALYSIS AND RESULTS

Sub-slab soil gas and air samples collected in SUMMA canisters will be submitted to F&B for laboratory analysis under standard chain-of-custody protocols. The Chain of Custody form will include unique sample identifications, dates and times of sample collection, and initial and final vacuum readings for each SUMMA canister. The sub-slab soil gas and air samples will be analyzed for CVOCs (PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride) by EPA Method TO-15. Additionally, the sub-slab soil gas samples will be analyzed for helium by Method ASTM D1946 to confirm that sub-slab soil gas points were adequately sealed to prevent ambient air from reaching the subsurface.

Sub-slab soil gas and air samples collected in Tedlar bags will be submitted to the University of Southern California Earth Sciences Department for radon-222 analysis using alpha scintillation counting in accordance with the EPA *Indoor Radon and Radon Decay Product Measurement Device Protocols* (EPA 1992).

The specific analyses for each sample are listed in Table 2.

4.0 DATA ANALYSIS

Sub-slab soil gas concentrations of CVOCs will be compared to MTCA sub-slab soil gas screening levels for commercial workers, as presented in Ecology's Cleanup Level and Risk Assessment database (Ecology 2022). Indoor air concentrations of CVOCs will be compared to MTCA indoor air screening levels for commercial workers. Ecology's screening levels for commercial workers are calculated based on conservative exposure for workers in the building. CVOC concentrations detected in indoor air samples will be corrected based on concentrations detected in the outdoor ambient air sample collected near the HVAC system air intake. A Site-specific attenuation factor will be calculated for radon by dividing the corrected radon concentrations detected in the indoor air samples by the radon concentrations detected in the sub-slab soil gas samples. Based on the calculated Site-specific attenuation factor for radon, SoundEarth will evaluate whether CVOC concentrations detected in indoor air samples are solely associated with the vapor intrusion pathway.

5.0 SCHEDULE

SoundEarth will collect the indoor and outdoor ambient air samples over an 8-hour period. The sub-slab soil gas samples will be collected on the same day as the collection of the indoor and outdoor ambient air samples. The sampling event will occur on a weekend for all samples. Analytical results will be available from the laboratories within 14 days of the date the samples are received by the laboratories. Within 90 days of receiving analytical results from the laboratory, SoundEarth will prepare and submit a draft report to Ecology detailing the findings from the vapor intrusion assessment at the Janke Property.

SoundEarth understands that additional sampling events may be necessary to evaluate the vapor intrusion pathway under different atmospheric conditions during different times of the year. SoundEarth anticipates that the vapor intrusion assessment detailed in this SAP will be completed during the summer of 2023. Based on the findings of this sampling event and in collaboration with Ecology, a second sampling event may be conducted during the winter months of 2023 and 2024. If conducted, the second sampling event would be conducted according to the procedures detailed in this SAP.

6.0 QUALITY ASSURANCE PLAN

Quality assurance and quality control procedures for the interim action are described in the QAPP (Appendix A).

7.0 LIMITATIONS

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with SoundEarth's agreement with the client. This report is solely for the use and information of the client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report are derived, in part, from data gathered by others, and from conditions evaluated when services were performed, and are intended only for the client, purposes, locations, time frames, and project parameters indicated. SoundEarth does not warrant and is not responsible for the accuracy or validity of work performed by others, nor from the impacts of changes in environmental standards, practices, or regulations subsequent to performance of services. SoundEarth does not warrant the use of segregated portions of this report.

8.0 REFERENCES

Farallon Consulting, L.L.C. (Farallon). 2004. Site History Review and Soil and Groundwater Sampling, Plastics, Bakery and Yasuko Site, Woodlawn and Latona Avenues Northeast, Seattle, Washington. December 17.

_____. 2013. *Draft Final Remedial Investigation and Feasibility Study Report, Plastics Sales & Service, Inc. Site, 6860 and 6870 Woodlawn Avenue Northeast, Seattle, Washington, Agreed Order No. DE 7084*. Prepared for Plastic Sales & Service, Inc. July 3.

SoundEarth Strategies, Inc. (SoundEarth). 2016. *Remedial Investigation/Feasibility Study Addendum, Plastics Sales and Service Site, 6870 Woodlawn Avenue Northeast, Seattle, Washington*. Prepared for the Lutheran Retirement Home of Greater Seattle (d/b/a The Hearthstone). March 9.

US Environmental Protection Agency (EPA). 1992. *Indoor Radon and Radon Decay Product Measurement Device Protocols*. EPA Publication 402-R-92-004. July.

_____. 2015. *OSWER Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources in Indoor Air*. OSWER Publication 9200.2-154. June.

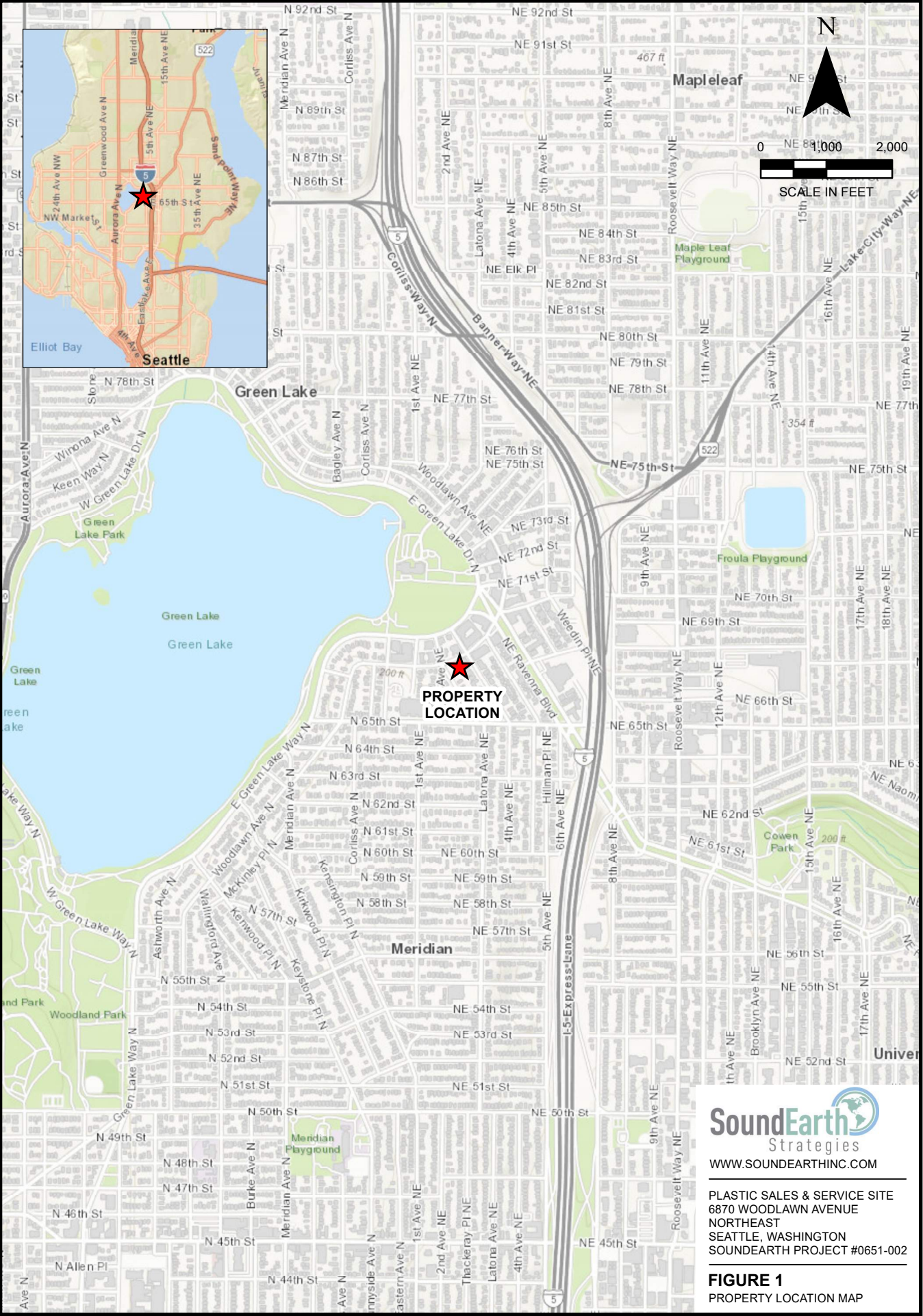
Washington State Department of Ecology (Ecology). 2009a. *Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action*. Publication No. 09-09-047. Finalized March 2022. October.

_____. 2022. *Vapor Intrusion Screening Levels for Workers*. Supporting material for Cleanup Levels and Risk Calculation (CLARC) Washington State Department of Ecology – Toxic Cleanups Program. July.

_____. No Date. "Plastic Sales & Service." Cleanup and Tank Search. <<https://apps.ecology.wa.gov/cleanupsearch/site/2074>>. Accessed February 2023.

FIGURES

P:\0651 HEARTHSTONE\0651-002 HEARTHSTONE - WOODLAWN EAST\TECHNICAL\CAD\FIGURE_1\0651-002_FIG1.MXD

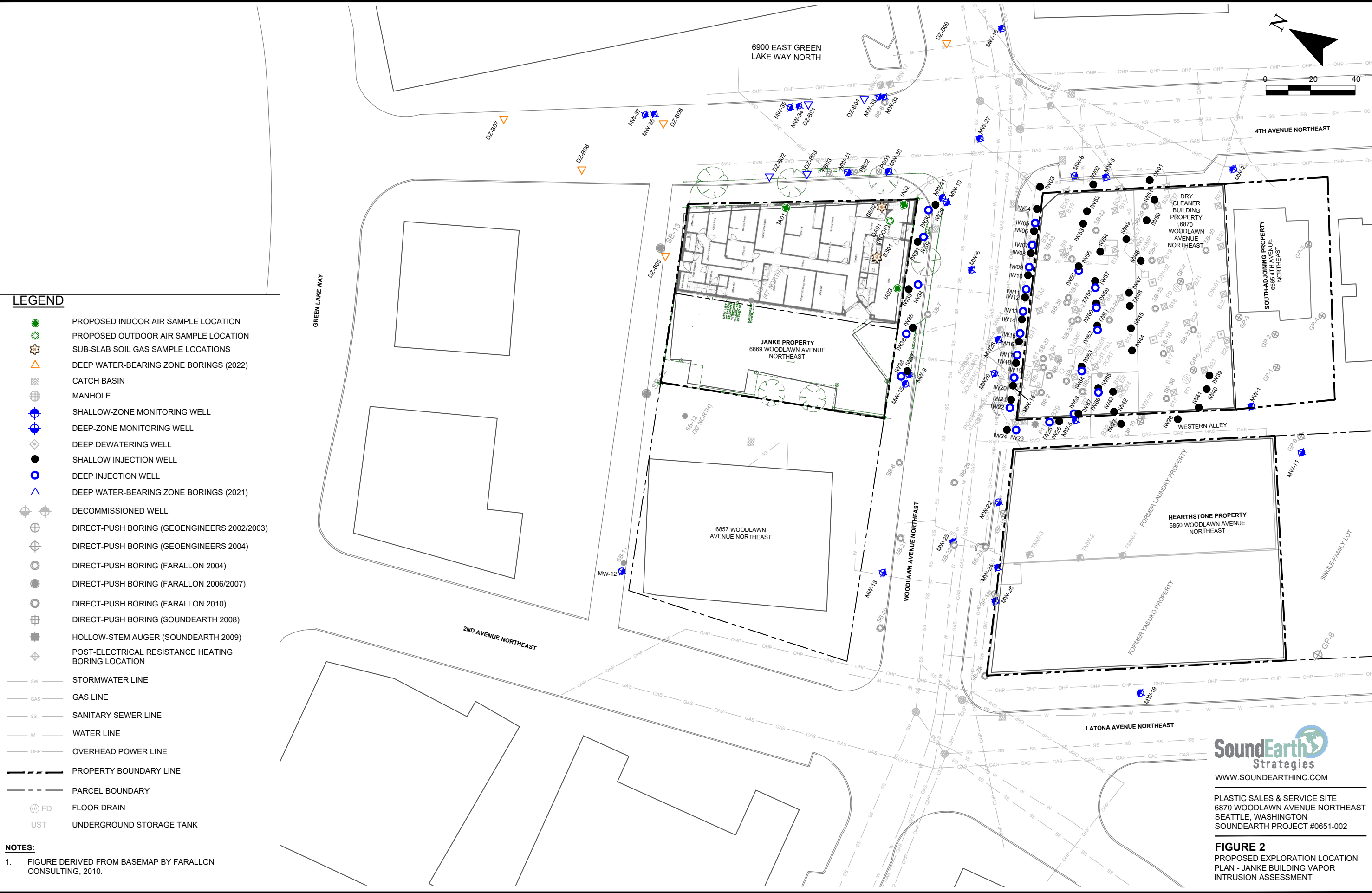


PROPERTY LOCATION

SoundEarth
Strategies
WWW.SOUNDEARTHINC.COM

PLASTIC SALES & SERVICE SITE
6870 WOODLAWN AVENUE
NORTHEAST
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #0651-002

FIGURE 1
PROPERTY LOCATION MAP



LEGEND

- PROPOSED INDOOR AIR SAMPLE LOCATION
- PROPOSED OUTDOOR AIR SAMPLE LOCATION
- SUB-SLAB SOIL GAS SAMPLE LOCATIONS
- DEEP WATER-BEARING ZONE BORINGS (2022)
- CATCH BASIN
- MANHOLE
- SHALLOW-ZONE MONITORING WELL
- DEEP-ZONE MONITORING WELL
- DEEP DEWATERING WELL
- SHALLOW INJECTION WELL
- DEEP INJECTION WELL
- DEEP WATER-BEARING ZONE BORINGS (2021)
- DECOMMISSIONED WELL
- DIRECT-PUSH BORING (GEOENGINEERS 2002/2003)
- DIRECT-PUSH BORING (GEOENGINEERS 2004)
- DIRECT-PUSH BORING (FARALLON 2004)
- DIRECT-PUSH BORING (FARALLON 2006/2007)
- DIRECT-PUSH BORING (FARALLON 2010)
- DIRECT-PUSH BORING (SOUNDEARTH 2008)
- HOLLOW-STEM AUGER (SOUNDEARTH 2009)
- POST-ELECTRICAL RESISTANCE HEATING BORING LOCATION
- STORMWATER LINE
- GAS LINE
- SANITARY SEWER LINE
- WATER LINE
- OVERHEAD POWER LINE
- PROPERTY BOUNDARY LINE
- PARCEL BOUNDARY
- FLOOR DRAIN
- UNDERGROUND STORAGE TANK

NOTES:
 1. FIGURE DERIVED FROM BASEMAP BY FARALLON CONSULTING, 2010.



PLASTIC SALES & SERVICE SITE
 6870 WOODLAWN AVENUE NORTHEAST
 SEATTLE, WASHINGTON
 SOUNDEARTH PROJECT #0651-002

FIGURE 2
 PROPOSED EXPLORATION LOCATION PLAN - JANKE BUILDING VAPOR INTRUSION ASSESSMENT

TABLES



Table 1
Groundwater Analytical Results for CVOCs
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

| Well ID | Sample ID | Sampled By | Sample Date | Sample Point Depth (feet bgs) | Analytical Results ⁽¹⁾ (micrograms per liter) | | | | | |
|--|-----------------|--------------|-------------|-------------------------------|--|-------------------------|-------------------------|----------------------------|--------------------------|--------------------------|
| | | | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | 1,1-DCE | Vinyl Chloride |
| Shallow Water-Bearing Zone Wells | | | | | | | | | | |
| MW01 | MW-1 | GeoEngineers | 10/30/03 | -- | < 2.0 | < 2.0 | < 2.0 | < 2.0 | -- | < 2.0 |
| | MW1-060206 | Farallon | 06/02/06 | 16.42 | 1.1 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW1-112008 | Farallon | 11/20/08 | 16.48 | 1.5 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW1-050410 | Farallon | 05/04/10 | 11.50 | 1.8 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW01-20140910 | SoundEarth | 09/10/14 | 13.50 | 1.6 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| | MW01-20181024 | SoundEarth | 10/24/18 | 11.50 | 0.85 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW01-20200129 | SoundEarth | 01/29/20 | 14.50 | 1.8 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW01-20200421 | SoundEarth | 04/21/20 | 15.50 | 1.0 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW01-20200721 | SoundEarth | 07/21/20 | 15.50 | 1.3 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW01-20201020 | SoundEarth | 10/20/20 | 15.50 | 2.1 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW01-20210128 | SoundEarth | 01/28/21 | 15.50 | 1.4 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW01-20210420 | SoundEarth | 04/20/21 | 15.00 | 1.2 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW01-20210727 | SoundEarth | 07/27/21 | 15.50 | 1.1 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW01-20211012 | SoundEarth | 10/12/21 | 16.00 | 1.3 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.10 |
| MW01-20220427 | SoundEarth | 04/27/22 | 15.00 | 1.1 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| MW01-20221117 | SoundEarth | 11/17/22 | 15.00 | 1.3 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| MW02 | MW-2 | GeoEngineers | 10/30/03 | -- | < 2.0 | < 2.0 | < 2.0 | < 2.0 | -- | < 2.0 |
| | MW2-060106 | Farallon | 06/01/06 | 17.50 | < 0.20 | 5.5 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW2-111908 | Farallon | 11/19/08 | 17.31 | 6.8 | 4.6 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW2-050410 | Farallon | 05/04/10 | 12.50 | 9.5 | 3.5 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW02-20140910 | SoundEarth | 09/10/14 | 11.50 | 4.0 | 0.49 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| | MW02-20181025 | SoundEarth | 10/25/18 | 12.50 | 1.7 | 0.61 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW02-20200129 | SoundEarth | 01/29/20 | 13.00 | 1.1 | 0.80 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW02-20200421 | SoundEarth | 04/21/20 | 13.00 | 1.3 | 0.53 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW02-20200721 | SoundEarth | 07/21/20 | 13.00 | 2.0 | 1.1 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW02-20201020 | SoundEarth | 10/20/20 | 13.00 | 2.7 | 1.2 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW02-20210128 | SoundEarth | 01/28/21 | 13.00 | 1.4 | 0.63 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW02-20210420 | SoundEarth | 04/20/21 | 12.00 | 1.4 | 0.47 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW02-20210727 | SoundEarth | 07/27/21 | 13.25 | 1.6 | 0.58 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW02-20211012 | SoundEarth | 10/12/21 | 15.00 | 1.7 | 0.68 | < 0.20 | < 0.20 | -- | < 0.10 |
| MW02-20220427 | SoundEarth | 04/27/22 | 15.00 | 0.95 | 0.54 | < 0.20 | < 0.20 | -- | < 0.20 | |
| MW02-20221117 | SoundEarth | 11/17/22 | 13.00 | 1.6 | 0.70 | < 0.20 | < 0.20 | -- | < 0.20 | |
| MW03 | MW-3 | GeoEngineers | 10/30/03 | -- | 170 | < 2.0 | < 2.0 | < 2.0 | -- | < 2.0 |
| | MW3-060106 | Farallon | 06/01/06 | 17.56 | 150 | 1.1 | < 1.0 | < 1.0 | -- | < 1.0 |
| | MW3-111908 | Farallon | 11/19/08 | 17.60 | 230 | 1.6 | 2.0 | < 1.0 | -- | < 1.0 |
| | MW3-050410 | Farallon | 05/04/10 | 12.50 | 150 | < 1.0 | < 1.0 | < 1.0 | -- | < 1.0 |
| | MW03-20140910 | SoundEarth | 09/10/14 | 8.50 | 64 | 0.58 | 0.79 | < 0.20 | < 0.20 | < 0.20 |
| | MW03-20181025 | SoundEarth | 10/25/18 | 12.50 | 54 | 0.61 | < 0.40 | < 0.40 | -- | < 0.40 |
| | MW03-20200129 | SoundEarth | 01/29/20 | 11.00 | < 0.40 | < 0.40 | 44 | 0.57 | -- | 16 |
| | MW03-20200421 | SoundEarth | 04/21/20 | 12.50 | < 0.20 | 0.20 | 6.3 | 0.55 | -- | 7.4 |
| | MW03-20200720 | SoundEarth | 07/20/20 | 12.50 | < 0.20 | 0.36 | 13 | 0.65 | -- | 13 |
| | MW03-20201020 | SoundEarth | 10/20/20 | 12.50 | < 0.20 | 0.57 | 13 | 0.48 | -- | 7.3 |
| | MW03-20210128 | SoundEarth | 01/28/21 | 12.50 | < 0.20 | 0.68 | 7.8 | 0.42 | -- | 4.2 |
| | MW03-20210420 | SoundEarth | 04/20/21 | 13.00 | < 0.20 | 0.61 | 7.0 | 0.54 | -- | 3.4 |
| | MW03-20210727 | SoundEarth | 07/27/21 | 13.30 | < 0.20 | 0.45 | 2.1 | 0.31 | -- | 2.1 |
| | MW03-20211012 | SoundEarth | 10/12/21 | 15.00 | < 0.20 | 0.42 | 2.7 | 0.23 | -- | 1.8 |
| MW03-20220425P* | SoundEarth | 04/25/22 | 12.00 | < 0.20 | 0.54 | 4.1 | 0.36 | -- | 2.7 | |
| MW03-20220427 | SoundEarth | 04/27/22 | 15.00 | < 0.20 | 0.81 | 6.6 | 0.35 | -- | 2.6 | |
| MW03-20221114P* | SoundEarth | 11/14/22 | 12.00 | < 0.20 | 0.64 | 5.2 | < 0.20 | -- | 1.9 | |
| MW03-20221117 | SoundEarth | 11/17/22 | 13.00 | < 0.20 | 1.2 | 5.6 | < 0.20 | -- | 1.9 | |
| MW04 | MW-4 | GeoEngineers | 10/30/03 | -- | 2,100 | 220 | 92 | < 2.0 | -- | 20 |
| | MW4-080504 | Farallon | 08/05/04 | 16.00 | 860 | 1,200 | 250 | < 10 | -- | 68 |
| | MW4-060206 | Farallon | 06/02/06 | 16.08 | 1,100 | 730 | 590 | < 10 | -- | 170 |
| | MW4-042007 | Farallon | 04/20/07 | 14.95 | 3,100 | 720 | 940 | < 20 | -- | 160 |
| | MW4-112008 | Farallon | 11/20/08 | 15.61 | 10,000 | 640 | 1,100 | < 50 | -- | 130 |
| | MW4-050510 | Farallon | 05/05/10 | 11.00 | 10,000 | 1,000 | 1,600 | < 50 | -- | 370 |
| | MW04-20140910 | SoundEarth | 09/10/14 | 12.50 | 28,000 | 3,400 | 3,800 | < 200 | < 200 | 920 |
| Monitoring Well Decommissioned | | | | | | | | | | |
| MW05 | MW-5 | GeoEngineers | 10/30/03 | -- | 270 | 46 | < 2.0 | < 2.0 | -- | < 2.0 |
| | MW5-060106 | Farallon | 06/01/06 | 15.45 | 54 | 9.6 | 3.3 | < 0.40 | -- | < 0.40 |
| | MW5-20080328 | SoundEarth | 03/28/08 | -- | 19 | 110 | 40 | < 1.0 | -- | 2.8 |
| | MW5-112008 | Farallon | 11/20/08 | 15.47 | 86 | 67 | 37 | 1.4 | -- | 5.5 |
| | MW5-050410 | Farallon | 05/04/10 | 10.00 | 82 | 34 | 27 | 0.44 | -- | 0.88 |
| | MW05-20140911 | SoundEarth | 09/11/14 | 13.50 | 71 | 22 | 5.6 | 0.27 | < 0.20 | < 0.20 |
| | MW05-20190207 | SoundEarth | 02/07/19 | 14.00 | 36 | 7.6 | 1.7 | < 0.20 | < 0.20 | < 0.20 |
| | MW05-20200128 | SoundEarth | 01/28/20 | 13.50 | 3.4 | 1.4 | 130 | < 1.0 | -- | 10 |
| | MW05-20200421 | SoundEarth | 04/21/20 | 14.50 | 2.3 | 1.2 | 170 | 1.3 | -- | 29 |
| | MW05-20200720 | SoundEarth | 07/20/20 | 14.50 | 1.1 | < 1.0 | 220 | 1.6 | -- | 56 |
| | MW05-20201020 | SoundEarth | 10/20/20 | 14.50 | 1.1 | 1.1 | 200 | 2.1 | -- | 83 |
| | MW05-20210128 | SoundEarth | 01/28/21 | 14.50 | 0.8 | < 0.8 | 69 | 1.6 | -- | 92 |
| | MW05-20210421 | SoundEarth | 04/21/21 | 13.75 | < 0.40 | 0.43 | 45 | 1.1 | -- | 60 |
| | MW05-20210727 | SoundEarth | 07/27/21 | 14.30 | < 0.40 | 0.70 | 28 | 0.91 | -- | 62 |
| | MW05-20211013 | SoundEarth | 10/13/21 | 15.00 | < 0.80 | < 0.80 | 10 | < 0.80 | -- | 56 |
| | MW05-20220425P* | SoundEarth | 04/25/22 | 14.00 | < 0.20 | 0.50 | 3.5 | 0.27 | -- | 31 |
| MW05-20220427 | SoundEarth | 04/27/22 | 15.00 | < 0.20 | < 0.20 | 0.81 | < 0.20 | -- | 3.4 | |
| MW05-20221114P* | SoundEarth | 11/14/22 | 14.00 | < 0.20 | 0.50 | 1.4 | 0.26 | -- | 26 | |
| MW05-20221117 | SoundEarth | 11/17/22 | 14.00 | < 0.20 | 0.46 | 1.0 | < 0.20 | -- | 9.4 | |
| MTCA Cleanup Levels for Groundwater | | | | | 5⁽²⁾ | 5⁽²⁾ | 16⁽³⁾ | 160⁽³⁾ | 400⁽³⁾ | 0.2⁽²⁾ |
| Commercial Remediation Levels for Groundwater | | | | | 120⁽⁴⁾ | 12⁽⁴⁾ | NE | 650⁽⁴⁾ | NE | 1.6⁽⁴⁾ |
| Roadway Excavation Remediation Levels for Groundwater | | | | | 760⁽⁴⁾ | 40⁽⁴⁾ | NE | 4,200⁽⁴⁾ | NE | 9.9⁽⁴⁾ |



Table 1
Groundwater Analytical Results for CVOCs
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

| Well ID | Sample ID | Sampled By | Sample Date | Sample Point Depth (feet bgs) | Analytical Results ⁽¹⁾ (micrograms per liter) | | | | | | |
|--|--------------------------------|--------------|-------------|-------------------------------|--|-------------------|-------------------|----------------------|--------------------|--------------------|--|
| | | | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | 1,1-DCE | Vinyl Chloride | |
| MW06 | MW-6 | GeoEngineers | 11/08/04 | -- | 29 | 18 | 11 | < 2.0 | -- | 6.0 | |
| | MW6-050410 | Farallon | 05/04/10 | 14.50 | 4,100 | 330 | 440 | < 20 | -- | 110 | |
| | MW06-20141007 | SoundEarth | 10/07/14 | 17.50 | 10,000 | 450 | 320 | < 50 | < 50 | 72 | |
| | MW06-20190207 | SoundEarth | 02/07/19 | 17.50 | 1,800 | 510 | 600 | < 50 | < 10 | 170 | |
| | MW06-20200128 | SoundEarth | 01/28/20 | 17.00 | 38 | 130 | 210 | < 0.20 | -- | 33 | |
| | MW06-20200421 | SoundEarth | 04/21/20 | 17.50 | 1.2 | 8.7 | 42 | 0.89 | -- | 26 | |
| | MW06-20200721 | SoundEarth | 07/21/20 | 17.50 | 1.1 | 10 | 32 | 0.86 | -- | 25 | |
| | MW06-20201020 | SoundEarth | 10/20/20 | 17.50 | 1.7 | 29 | 63 | 0.90 | -- | 36 | |
| | MW06-20210128 | SoundEarth | 01/28/21 | 17.50 | 2.4 | 30 | 74 | 1.0 | -- | 59 | |
| | MW06-20210420 | SoundEarth | 04/20/21 | 18.00 | 1.6 | 27 | 120 | 1.6 | -- | 160 | |
| | MW06-20210727 | SoundEarth | 07/27/21 | 14.00 | 0.93 | 8.8 | 14 | 0.45 | -- | 10 | |
| | MW06-20211012 | SoundEarth | 10/12/21 | 17.50 | 0.33 | 2.0 | 18 | 0.35 | -- | 14 | |
| | MW06-20220426 | SoundEarth | 04/26/22 | 18.00 | 11.00 | 27.0 | 20 | 0.68 | -- | 13 | |
| | (MW06 DUP) MW99-20220426 | SoundEarth | 04/26/22 | 18.00 | 5.30 | 16.0 | 20 | 0.67 | -- | 16 | |
| MW06-20221115 | SoundEarth | 11/15/22 | 18.00 | 0.67 | 7.4 | 20 | 0.42 | -- | 20 | | |
| (MW06 DUP) MW99-20221115 | SoundEarth | 11/15/22 | 18.00 | 0.57 | 5.3 | 17 | 0.39 | -- | 17 | | |
| MW15 | MW15-060106 | Farallon | 06/01/06 | 16.12 | 0.22 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| | MW15-112008 | Farallon | 11/20/08 | 13.20 | 0.26 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| | MW15-050410 | Farallon | 05/04/10 | 12.50 | < 1.0 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| | MW15-20140910 | SoundEarth | 09/10/14 | 17.50 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | |
| | MW15-20181022 | SoundEarth | 10/22/18 | 12.50 | 0.78 | < 0.20 | 0.87 | < 0.20 | -- | < 0.20 | |
| | MW15-20200128 | SoundEarth | 01/28/20 | 12.50 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| | MW15-20200421 | SoundEarth | 04/21/20 | 10.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| | MW15-20200721 | SoundEarth | 07/21/20 | 10.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| | MW15-20201019 | SoundEarth | 10/19/20 | 10.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| | MW15-20210127 | SoundEarth | 01/27/21 | 10.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| | MW15-20210420 | SoundEarth | 04/20/21 | 12.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| | MW15-20210726 | SoundEarth | 07/26/21 | 13.50 | 0.63 | 0.32 | 0.62 | < 0.20 | -- | < 0.20 | |
| | MW15-20211012 | SoundEarth | 10/12/21 | 15.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.10 | |
| | MW15-20220426 | SoundEarth | 04/26/22 | 15.00 | < 0.20 | < 0.20 | 0.25 | < 0.20 | -- | < 0.20 | |
| MW15-20221116 | SoundEarth | 11/16/22 | 13.50 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | 0.26 | | |
| MW16 | MW16-060106 | Farallon | 06/01/06 | 17.45 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| | MW16-111908 | Farallon | 11/19/08 | 17.60 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| | MW16-050510 | Farallon | 05/05/10 | 12.50 | < 1.0 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| | MW16-20140909 | SoundEarth | 09/09/14 | 12.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | |
| | MW16-20181022 | SoundEarth | 10/22/18 | 12.50 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| MW17 | MW17-060106 | Farallon | 06/01/06 | 17.19 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| MW19 | Monitoring Well Decommissioned | | | | | | | | | | |
| | MW17-20080328 | SoundEarth | 03/28/08 | -- | < 1.0 | < 1.0 | < 1.0 | < 1.0 | -- | < 0.20 | |
| | MW19-20090311 | SoundEarth | 03/11/09 | -- | < 1.0 | < 1.0 | < 1.0 | < 1.0 | -- | < 0.20 | |
| | MW19-050310 | Farallon | 05/03/10 | 15.00 | < 1.0 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| | MW19-20140909 | SoundEarth | 09/09/14 | 17.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | |
| MW19-20181024 | SoundEarth | 10/24/18 | 15.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | | |
| MW21 | MW21-112008 | Farallon | 11/20/08 | 21.74 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| | MW21-050410 | Farallon | 05/04/10 | 19.00 | < 1.0 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| | MW21-20140909 | SoundEarth | 09/09/14 | 19.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | 0.73 | |
| | MW21-20181022 | SoundEarth | 10/22/18 | 19.00 | < 0.20 | < 0.20 | 1.7 | < 0.20 | -- | 0.37 | |
| | MW21-20200129 | SoundEarth | 01/29/20 | 19.00 | 0.67 | < 0.20 | 8.0 | < 0.20 | -- | 1.9 | |
| | MW21-20200421 | SoundEarth | 04/21/20 | 19.00 | < 0.20 | < 0.20 | 3.9 | < 0.20 | -- | 3.0 | |
| | MW21-20200722 | SoundEarth | 07/22/20 | 19.00 | < 0.20 | < 0.20 | 4.4 | < 0.20 | -- | 2.3 | |
| | MW21-20201020 | SoundEarth | 10/20/20 | 19.00 | 0.22 | < 0.20 | 2.6 | < 0.20 | -- | 4.5 | |
| | MW21-20210128 | SoundEarth | 01/28/21 | 19.00 | < 0.20 | < 0.20 | 2.0 | < 0.20 | -- | 2.8 | |
| | MW21-20210420 | SoundEarth | 04/20/21 | 19.00 | < 0.20 | < 0.20 | 1.7 | < 0.20 | -- | 2.4 | |
| | MW21-20210727 | SoundEarth | 07/27/21 | 19.00 | < 0.20 | < 0.20 | 0.23 | < 0.20 | -- | 0.56 | |
| | MW21-20211012 | SoundEarth | 10/12/21 | 18.00 | < 0.20 | < 0.20 | 0.29 | < 0.20 | -- | 0.67 | |
| MW21-20220426 | SoundEarth | 04/26/22 | 19.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | | |
| MW21-20221117 | SoundEarth | 11/17/22 | 19.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | | |
| MW23 | MW23-112008 | Farallon | 11/20/08 | 18.15 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| | MW23-050410 | Farallon | 05/04/10 | 15.00 | < 1.0 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| MW24 | Monitoring Well Decommissioned | | | | | | | | | | |
| | MW18-20080328 | SoundEarth | 03/28/08 | -- | 650 | < 10 | < 10 | < 10 | -- | < 2.0 | |
| | MW24-112008 | Farallon | 11/20/08 | 15.25 | 360 | 3.4 | < 2.0 | < 2.0 | -- | < 2.0 | |
| | MW24-20090304 | Farallon | 03/04/09 | -- | 290 | < 10 | < 10 | < 10 | -- | < 2.0 | |
| | MW24-050510 | Farallon | 05/05/10 | 13.00 | 40 | 0.42 | < 0.20 | < 0.20 | -- | < 0.20 | |
| | MW24-20140910 | SoundEarth | 09/10/14 | 15.00 | 17 | 0.27 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | |
| | MW24-20181024 | SoundEarth | 10/24/18 | 13.00 | 20 | 0.24 | < 0.20 | < 0.20 | -- | < 0.20 | |
| | MW24-20200129 | SoundEarth | 01/29/20 | 14.00 | 1.2 | < 0.20 | 2.4 | < 0.20 | -- | < 0.20 | |
| | MW24-20200421 | SoundEarth | 04/21/20 | 15.50 | 1.3 | < 0.20 | 2.7 | < 0.20 | -- | < 0.20 | |
| | MW24-20200721 | SoundEarth | 07/21/20 | 15.50 | 1.1 | < 0.20 | 6.0 | < 0.20 | -- | 0.25 | |
| | MW24-20201019 | SoundEarth | 10/19/20 | 15.50 | 0.92 | < 0.20 | 8.6 | < 0.20 | -- | 0.43 | |
| | MW24-20210128 | SoundEarth | 01/28/21 | 15.50 | 0.64 | < 0.20 | 1.7 | < 0.20 | -- | < 0.20 | |
| | MW24-20210420 | SoundEarth | 04/20/21 | 15.00 | 0.47 | < 0.20 | 3.8 | < 0.20 | -- | 0.30 | |
| | MW24-20210726 | SoundEarth | 07/26/21 | 15.00 | 0.39 | < 0.20 | 5.4 | < 0.20 | -- | 0.49 | |
| | MW24-20211012 | SoundEarth | 10/12/21 | 15.00 | 0.35 | < 0.20 | 5.4 | < 0.20 | -- | 0.65 | |
| MW24-20220427 | SoundEarth | 04/27/22 | 15.00 | 0.22 | < 0.20 | 3.0 | < 0.20 | -- | 0.64 | | |
| MW24-20221116 | SoundEarth | 11/16/22 | 15.00 | 0.23 | < 0.20 | 0.38 | < 0.20 | -- | 2.5 | | |
| MTCA Cleanup Levels for Groundwater | | | | | 5 ⁽²⁾ | 5 ⁽²⁾ | 16 ⁽³⁾ | 160 ⁽³⁾ | 400 ⁽³⁾ | 0.2 ⁽²⁾ | |
| Commercial Remediation Levels for Groundwater | | | | | 120 ⁽⁴⁾ | 12 ⁽⁴⁾ | NE | 650 ⁽⁴⁾ | NE | 1.6 ⁽⁴⁾ | |
| Roadway Excavation Remediation Levels for Groundwater | | | | | 760 ⁽⁴⁾ | 40 ⁽⁴⁾ | NE | 4,200 ⁽⁴⁾ | NE | 9.9 ⁽⁴⁾ | |



Table 1
Groundwater Analytical Results for CVOCs
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

| Well ID | Sample ID | Sampled By | Sample Date | Sample Point Depth (feet bgs) | Analytical Results ⁽¹⁾ (micrograms per liter) | | | | | |
|--|----------------|------------|-------------|-------------------------------|--|-------------------------|-------------------------|----------------------------|--------------------------|--------------------------|
| | | | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | 1,1-DCE | Vinyl Chloride |
| MW25 | MW25-050410 | Farallon | 05/04/10 | 13.00 | 14 | 0.31 | 1.1 | < 0.20 | -- | < 0.20 |
| | MW25-20141007 | SoundEarth | 10/07/14 | 14.00 | 12 | 0.36 | 0.37 | < 0.20 | -- | < 0.20 |
| | MW25-20181025 | SoundEarth | 10/25/18 | 13.00 | 0.28 | < 0.20 | 0.75 | < 0.20 | -- | < 0.20 |
| | MW25-20200421 | SoundEarth | 04/21/20 | 13.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW25-20200721 | SoundEarth | 07/21/20 | 13.00 | 0.20 | 0.50 | 0.45 | < 0.20 | -- | < 0.20 |
| | MW25-20201020 | SoundEarth | 10/20/20 | 13.00 | 1.6 | 0.59 | 1.4 | < 0.20 | -- | < 0.20 |
| | MW25-20210128 | SoundEarth | 01/28/21 | 13.00 | 2.0 | 1.0 | 0.80 | < 0.20 | -- | < 0.20 |
| | MW25-20210420 | SoundEarth | 04/20/21 | 14.00 | 2.9 | 0.8 | 0.68 | < 0.20 | -- | < 0.20 |
| | MW25-20210727 | SoundEarth | 07/27/21 | 15.00 | 0.97 | 0.31 | 1.5 | < 0.20 | -- | < 0.20 |
| | MW25-20211012 | SoundEarth | 10/12/21 | 14.00 | 0.47 | 0.34 | 0.47 | < 0.20 | -- | < 0.10 |
| MW25-20220426 | SoundEarth | 04/26/22 | 14.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| MW25-20221115 | SoundEarth | 11/15/22 | 15.00 | < 0.20 | < 0.20 | 0.23 | < 0.20 | -- | < 0.20 | |
| MW26 | MW26-050410 | Farallon | 05/04/10 | 13.00 | < 1.0 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW26-20140910 | SoundEarth | 09/10/14 | 15.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| | MW26-20181022 | SoundEarth | 10/22/18 | 13.00 | 0.24 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW26-20200128 | SoundEarth | 01/28/20 | 14.00 | 0.28 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW26-20200421 | SoundEarth | 04/21/20 | 15.50 | 0.24 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW26-20200721 | SoundEarth | 07/21/20 | 15.50 | 1.4 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW26-20201019 | SoundEarth | 10/19/20 | 15.50 | 1.1 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW26-20210128 | SoundEarth | 01/28/21 | 15.50 | 0.41 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW26-20210420 | SoundEarth | 04/20/21 | 15.00 | 0.34 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW26-20210726 | SoundEarth | 07/26/21 | 15.00 | 0.49 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW26-20211012 | SoundEarth | 10/12/21 | 15.00 | 0.52 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.10 |
| MW26-20220427 | SoundEarth | 04/27/22 | 15.00 | 0.28 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| MW26-20221117 | SoundEarth | 11/17/22 | 15.00 | 0.54 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| MW27 | MW27-070111 | Farallon | 07/01/11 | 11.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW27-20141007 | SoundEarth | 10/07/14 | 12.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| | MW27-20190207 | SoundEarth | 02/07/19 | 13.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| | MW27-20200128 | SoundEarth | 01/28/20 | 12.50 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW27-20200421 | SoundEarth | 04/21/20 | 13.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW27-20200721 | SoundEarth | 07/21/20 | 13.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW27-20201020 | SoundEarth | 10/20/20 | 13.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW27-20210128 | SoundEarth | 01/28/21 | 13.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW27-20210420 | SoundEarth | 04/20/21 | 13.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW27-20210727 | SoundEarth | 07/27/21 | 13.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW27-20211012 | SoundEarth | 10/12/21 | 13.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.10 |
| MW27-20220426 | SoundEarth | 04/26/22 | 13.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| MW27-20221115 | SoundEarth | 11/15/22 | 13.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| MW28 | MW28-20190604 | SoundEarth | 06/04/19 | 14.00 | 3.1 | 4.9 | 50 | < 0.80 | -- | 16 |
| | MW28-20200128 | SoundEarth | 01/28/20 | 13.00 | 330 | 150 | 710 | 6.3 | -- | 130 |
| | MW28-20200422 | SoundEarth | 04/22/20 | 13.00 | 35 | 15 | 280 | 2.3 | -- | 65 |
| | MW28-20200721 | SoundEarth | 07/21/20 | 13.00 | 21 | 18 | 200 | 1.7 | -- | 60 |
| | MW28-20201020 | SoundEarth | 10/20/20 | 13.00 | 16 | 13 | 170 | 1.3 | -- | 50 |
| | MW28-20210128 | SoundEarth | 01/28/21 | 13.00 | 44 | 26 | 200 | 1.6 | -- | 49 |
| | MW28-20210421 | SoundEarth | 04/21/21 | 13.50 | 21 | 5.6 | 180 | 1.3 | -- | 41 |
| | MW28-20210727 | SoundEarth | 07/27/21 | 13.80 | 48 | 34 | 61 | 0.44 | -- | 23 |
| | MW28-20211013 | SoundEarth | 10/13/21 | 15.00 | 24 | 29 | 68 | 0.50 | -- | 19 |
| MW28-20220427 | SoundEarth | 04/27/22 | 15.00 | 5.7 | 5.6 | 150 | 1.1 | -- | 31 | |
| MW28-20221117 | SoundEarth | 11/17/22 | 13.00 | 3.7 | 6.1 | 100 | 0.81 | -- | 21 | |
| MW30 | MW30-20210127 | SoundEarth | 01/27/21 | 16.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW30-20210419 | SoundEarth | 04/19/21 | 11.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW30-20210726 | SoundEarth | 07/26/21 | 13.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW30-20211011 | SoundEarth | 10/11/21 | 14.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.10 |
| | MW30-20220426 | SoundEarth | 04/26/22 | 15.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW30-20221116 | SoundEarth | 11/16/22 | 13.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| MW32 | MW32-20221116 | SoundEarth | 11/16/22 | 20.00 | 25 | 0.65 | 0.65 | < 0.20 | -- | 1.7 |
| MW34 | MW34-20221116 | SoundEarth | 11/16/22 | 20.00 | 13 | 4.6 | 39 | < 0.20 | -- | 9.2 |
| MW36 | MW36-20221115 | SoundEarth | 11/15/22 | 20.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| TMW01 | TMW-1-040510 | Farallon | 04/05/10 | 13.75 | 15 | 0.29 | < 0.20 | < 0.20 | -- | < 0.20 |
| | TMW-1-20100405 | SoundEarth | 04/05/10 | -- | 16 | < 1.0 | < 1.0 | < 1.0 | -- | < 0.20 |
| Monitoring Well Decommissioned | | | | | | | | | | |
| TMW02 | TMW-2-040510 | Farallon | 04/05/10 | 13.79 | 110 | 1.5 | < 1.0 | < 1.0 | -- | < 1.0 |
| | TMW-2-20100405 | SoundEarth | 04/05/10 | -- | 150 | 1.5 | < 1.0 | < 1.0 | -- | < 0.20 |
| Monitoring Well Decommissioned | | | | | | | | | | |
| TMW03 | TMW-3-040510 | Farallon | 04/05/10 | 13.22 | 310 | 3.6 | < 2.0 | < 2.0 | -- | < 2.0 |
| | TMW-3-20100405 | SoundEarth | 04/05/10 | -- | 350 | 3.7 | < 1.0 | < 1.0 | -- | < 0.20 |
| Monitoring Well Decommissioned | | | | | | | | | | |
| MTCA Cleanup Levels for Groundwater | | | | | 5⁽²⁾ | 5⁽²⁾ | 16⁽³⁾ | 160⁽³⁾ | 400⁽³⁾ | 0.2⁽²⁾ |
| Commercial Remediation Levels for Groundwater | | | | | 120⁽⁴⁾ | 12⁽⁴⁾ | NE | 650⁽⁴⁾ | NE | 1.6⁽⁴⁾ |
| Roadway Excavation Remediation Levels for Groundwater | | | | | 760⁽⁴⁾ | 40⁽⁴⁾ | NE | 4,200⁽⁴⁾ | NE | 9.9⁽⁴⁾ |



Table 1
Groundwater Analytical Results for CVOCs
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

| Well ID | Sample ID | Sampled By | Sample Date | Sample Point Depth (feet bgs) | Analytical Results ⁽¹⁾ (micrograms per liter) | | | | | |
|--|----------------|------------|-------------|-------------------------------|--|-------------------------|-------------------------|----------------------------|--------------------------|--------------------------|
| | | | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | 1,1-DCE | Vinyl Chloride |
| IW08 | IW08-20200212* | SoundEarth | 02/12/20 | 13.00 | 1.0 | 0.32 | 12 | < 0.20 | -- | 0.39 |
| | IW08-20200526* | SoundEarth | 05/26/20 | 9.00 | 1.2 | 0.32 | 12 | < 0.20 | < 0.20 | 1.2 |
| | IW08-20200720* | SoundEarth | 07/20/20 | 9.00 | 0.77 | 0.48 | 14 | < 0.20 | -- | 0.74 |
| | IW08-20201019* | SoundEarth | 10/19/20 | 9.00 | 1.2 | 0.44 | 17 | < 0.20 | -- | 1.2 |
| | IW08-20210127* | SoundEarth | 01/27/21 | 9.00 | 1.4 | 0.44 | 30 | < 0.20 | -- | 2.1 |
| | IW08-20210419* | SoundEarth | 04/19/21 | 10.00 | 2.1 | 0.48 | 35 | < 0.40 | -- | 2.5 |
| | IW08-20210726* | SoundEarth | 07/26/21 | 10.00 | 1.7 | 0.56 | 31 | < 0.20 | -- | 1.1 |
| | IW08-20211011* | SoundEarth | 10/11/21 | 11.00 | 1.4 | 0.43 | 32 | < 0.20 | -- | 2.0 |
| IW08-20220425* | SoundEarth | 04/25/22 | 10.00 | 1.3 | 0.70 | 49 | < 0.40 | -- | 1.9 | |
| IW08-20221115* | SoundEarth | 11/15/22 | 11.00 | 1.6 | 0.63 | 39 | < 0.20 | -- | 1.8 | |
| IW16 | IW16-20200212* | SoundEarth | 02/12/20 | 12.50 | < 1.0 | 1.2 | 37 | < 1.0 | -- | 180 |
| | IW16-20200526* | SoundEarth | 05/26/20 | 13.50 | < 1.0 | 1.5 | 36 | < 1.0 | < 1.0 | 160 |
| | IW16-20200720* | SoundEarth | 07/20/20 | 13.50 | 0.71 | 1.4 | 33 | < 0.50 | -- | 120 |
| | IW16-20201019* | SoundEarth | 10/19/20 | 13.50 | 0.81 | 1.2 | 24 | < 0.40 | -- | 73 |
| | IW16-20210127* | SoundEarth | 01/27/21 | 13.50 | 1.2 | 1.6 | 17 | < 0.40 | -- | 56 |
| | IW16-20210419* | SoundEarth | 04/19/21 | 13.00 | 0.91 | 1.7 | 17 | < 0.40 | -- | 55 |
| | IW16-20210726* | SoundEarth | 07/26/21 | 13.00 | 0.87 | 1.2 | 12 | < 0.40 | -- | 42 |
| | IW16-20211011* | SoundEarth | 10/11/21 | 13.00 | 0.51 | 1.0 | 8.6 | 0.23 | -- | 35 |
| IW16-20220425* | SoundEarth | 04/25/22 | 12.00 | 0.92 | 1.7 | 7.7 | < 0.40 | -- | 29 | |
| IW16-20221115* | SoundEarth | 11/15/22 | 11.00 | 0.97 | 1.2 | 9.4 | < 0.20 | -- | 15 | |
| IW21 | IW21-20200212* | SoundEarth | 02/12/20 | 10.00 | < 10 | < 10 | 81 | < 10 | -- | 1,500 |
| | IW21-20200526* | SoundEarth | 05/26/20 | 10.00 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | 330 |
| | IW21-20200720* | SoundEarth | 07/20/20 | 10.00 | < 2.0 | < 2.0 | 6.7 | < 2.0 | -- | 400 |
| | IW21-20201019* | SoundEarth | 10/19/20 | 10.00 | < 4.0 | < 4.0 | < 4.0 | < 4.0 | -- | 740 |
| | IW21-20210127* | SoundEarth | 01/27/21 | 10.00 | < 0.80 | < 0.80 | < 0.80 | < 0.80 | -- | 87 |
| | IW21-20210419* | SoundEarth | 04/19/21 | 12.00 | < 4.0 | < 4.0 | 11 | < 4.0 | -- | 380 |
| | IW21-20210726* | SoundEarth | 07/26/21 | 12.00 | < 0.20 | 0.88 | 1.1 | < 0.20 | -- | 25 |
| | IW21-20211011* | SoundEarth | 10/11/21 | 12.00 | < 0.40 | 0.88 | 4.2 | < 0.40 | -- | 50 |
| IW21-20220425* | SoundEarth | 04/25/22 | 12.00 | < 4.00 | < 4.00 | 120 | < 4.00 | -- | 300 | |
| IW21-20221115* | SoundEarth | 11/15/22 | 10.00 | < 0.20 | 0.53 | 1.5 | 0.28 | -- | 4.5 | |
| IW31 | IW31-20200212* | SoundEarth | 02/12/20 | 13.00 | 0.36 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | IW31-20200526* | SoundEarth | 05/26/20 | 10.00 | 0.23 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| | IW31-20200720* | SoundEarth | 07/20/20 | 10.00 | 0.28 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | IW31-20201019* | SoundEarth | 10/19/20 | 10.00 | 0.35 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | IW31-20210127* | SoundEarth | 01/27/21 | 10.00 | 0.34 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | IW31-20210419* | SoundEarth | 04/19/21 | 13.00 | 0.33 | < 0.20 | 0.78 | < 0.20 | -- | < 0.20 |
| | IW31-20210726* | SoundEarth | 07/26/21 | 13.00 | 0.28 | < 0.20 | 0.21 | < 0.20 | -- | < 0.20 |
| | IW31-20211011* | SoundEarth | 10/11/21 | 13.00 | 0.29 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| IW31-20220425* | SoundEarth | 04/25/22 | 10.00 | 0.32 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| IW31-20221114* | SoundEarth | 11/14/22 | 10.00 | 0.22 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| IW33 | IW33-20190312* | SoundEarth | 03/12/19 | 13.00 | 6.3 | < 1.00 | < 1.00 | < 1.00 | -- | < 0.20 |
| | IW33-20200212* | SoundEarth | 02/12/20 | 12.50 | 1.1 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | IW33-20200526* | SoundEarth | 05/26/20 | 10.50 | 1.1 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| | IW33-20200720* | SoundEarth | 07/20/20 | 10.50 | 1.2 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | IW33-20201019* | SoundEarth | 10/19/20 | 10.50 | 1.0 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | IW33-20210127* | SoundEarth | 01/27/21 | 10.50 | 1.1 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | IW33-20210419* | SoundEarth | 04/19/21 | 11.00 | 1.1 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | IW33-20210726* | SoundEarth | 07/26/21 | 11.00 | 0.98 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| IW33-20211011* | SoundEarth | 10/11/21 | 14.00 | 0.90 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| IW33-20220425* | SoundEarth | 04/25/22 | 13.00 | 1.1 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| IW33-20221114* | SoundEarth | 11/14/22 | 12.00 | 0.96 | < 0.20 | 0.27 | < 0.20 | -- | < 0.20 | |
| IW57 | IW57-20221115* | SoundEarth | 11/15/22 | 6.00 | < 0.20 | 0.40 | 0.95 | < 0.20 | -- | 0.43 |
| IW59 | IW59-20200212* | SoundEarth | 02/12/20 | 4.00 | < 0.20 | 0.55 | 1.0 | < 0.20 | -- | 0.24 |
| | IW59-20200526* | SoundEarth | 05/26/20 | 4.00 | < 0.20 | 0.51 | 1.4 | < 0.20 | < 0.20 | 3.0 |
| | IW59-20200720* | SoundEarth | 07/20/20 | 4.00 | < 0.20 | 0.69 | 2.3 | < 0.20 | -- | 6.9 |
| | IW59-20201019* | SoundEarth | 10/19/20 | 4.00 | 0.22 | 1.8 | 5.0 | < 0.20 | -- | 15 |
| | IW59-20210127* | SoundEarth | 01/27/21 | 4.00 | 0.51 | 2.3 | 11 | < 0.20 | -- | 41 |
| | IW59-20210419* | SoundEarth | 04/19/21 | 4.00 | < 1.0 | 2.2 | 42 | < 1.0 | -- | 79 |
| | IW59-20210726* | SoundEarth | 07/26/21 | 4.00 | 0.48 | 2.0 | 61 | < 0.40 | -- | 87 |
| | IW59-20211011* | SoundEarth | 10/11/21 | 4.00 | < 0.80 | 1.7 | 94 | < 0.80 | -- | 130 |
| IW59-20220425* | SoundEarth | 04/25/22 | 3.00 | < 2.0 | < 2.0 | 140 | < 2.0 | -- | 160 | |
| IW59-20221115* | SoundEarth | 11/15/22 | 3.00 | < 0.80 | 1.1 | 140 | < 0.80 | -- | 100 | |
| IW61 | IW61-20221115* | SoundEarth | 11/15/22 | 6.00 | < 0.20 | < 0.20 | 0.42 | < 0.20 | -- | 10 |
| MTCA Cleanup Levels for Groundwater | | | | | 5⁽²⁾ | 5⁽²⁾ | 16⁽³⁾ | 160⁽³⁾ | 400⁽³⁾ | 0.2⁽²⁾ |
| Commercial Remediation Levels for Groundwater | | | | | 120⁽⁴⁾ | 12⁽⁴⁾ | NE | 650⁽⁴⁾ | NE | 1.6⁽⁴⁾ |
| Roadway Excavation Remediation Levels for Groundwater | | | | | 760⁽⁴⁾ | 40⁽⁴⁾ | NE | 4,200⁽⁴⁾ | NE | 9.9⁽⁴⁾ |



Table 1
Groundwater Analytical Results for CVOCs
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

| Well ID | Sample ID | Sampled By | Sample Date | Sample Point Depth (feet bgs) | Analytical Results ⁽¹⁾ (micrograms per liter) | | | | | |
|--|----------------|------------|-------------|-------------------------------|--|-------------------|-------------------|----------------------|--------------------|--------------------|
| | | | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | 1,1-DCE | Vinyl Chloride |
| Deep Water-Bearing Zone Wells | | | | | | | | | | |
| MW07 | MW7-111904-01 | Farallon | 11/19/04 | 26.00 | 7,000 | 47 | < 20 | < 20 | -- | < 20 |
| | MW7-060206 | Farallon | 06/02/06 | 29.00 | 530 | 16 | < 4.0 | < 4.0 | -- | < 4.0 |
| | MW7-042007 | Farallon | 04/20/07 | 28.00 | 2.5 | < 2.0 | < 2.0 | < 2.0 | -- | < 2.0 |
| | MW7-112008 | Farallon | 11/20/08 | 28.67 | 18.0 | 0.69 | < 2.0 | < 2.0 | -- | < 2.0 |
| | MW7-050410 | Farallon | 05/04/10 | 26.00 | 12.0 | 0.49 | < 0.20 | < 0.20 | -- | < 0.20 |
| MW07-20140910 | SoundEarth | 09/10/14 | 26.00 | 4.5 | 0.26 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| Monitoring Well Decommissioned | | | | | | | | | | |
| MW08 | MW8-111904-01 | Farallon | 11/19/04 | 35.00 | 0.36 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW8-060106 | Farallon | 06/01/06 | 38.09 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW8-111908 | Farallon | 11/19/08 | 38.15 | 0.70 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW8-050510 | Farallon | 05/04/10 | 35.00 | < 1.0 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW08-20140909 | SoundEarth | 09/09/14 | 30.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| | MW08-20181025 | SoundEarth | 10/25/18 | 37.50 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW08-20200128 | SoundEarth | 01/28/20 | 35.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW08-20200421 | SoundEarth | 04/21/20 | 35.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW08-20200720 | SoundEarth | 07/20/20 | 35.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW08-20201019 | SoundEarth | 10/19/20 | 35.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW08-20210127 | SoundEarth | 01/27/21 | 35.00 | 4.4 | 0.23 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW08-20210420 | SoundEarth | 04/20/21 | 35.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW08-20210726 | SoundEarth | 07/26/21 | 35.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW08-20211012 | SoundEarth | 10/12/21 | 15.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.10 |
| MW08-20220426 | SoundEarth | 04/26/22 | 35.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| MW08-20221116 | SoundEarth | 11/16/22 | 35.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| MW09 | MW9-111904-01 | Farallon | 11/19/04 | 35.00 | 210 | < 1.0 | < 1.0 | < 1.0 | -- | < 1.0 |
| | MW9-060106 | Farallon | 06/01/06 | 37.81 | 390 | < 2.0 | < 2.0 | < 2.0 | -- | < 2.0 |
| | MW9-042007 | Farallon | 04/20/07 | 36.75 | 410 | < 2.0 | < 2.0 | < 2.0 | -- | < 2.0 |
| | MW9-112008 | Farallon | 11/20/08 | 37.81 | 220 | < 2.0 | < 2.0 | < 2.0 | -- | < 2.0 |
| | MW9-050410 | Farallon | 05/04/10 | 35.00 | 190 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW09-20140910 | SoundEarth | 09/10/14 | 35.00 | 89 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| | MW09-20181024 | SoundEarth | 10/24/18 | 35.00 | 160 | < 1.0 | < 1.0 | < 1.0 | -- | < 1.0 |
| | MW09-20200129 | SoundEarth | 01/29/20 | 35.00 | 97 | 3.4 | 160 | < 1.0 | -- | < 1.0 |
| | MW09-20200421 | SoundEarth | 04/21/20 | 35.00 | 72 | 4.6 | 120 | < 1.0 | -- | < 0.20 |
| | MW09-20200721 | SoundEarth | 07/21/20 | 35.00 | 130 | 11 | 170 | 1.4 | -- | < 0.20 |
| | MW09-20201020 | SoundEarth | 10/20/20 | 35.00 | 250 | 13 | 110 | < 1.0 | -- | < 0.20 |
| | MW09-20210128 | SoundEarth | 01/28/21 | 35.00 | 350 | 8.0 | 43 | < 2.0 | -- | < 0.20 |
| | MW09-20210420 | SoundEarth | 04/20/21 | 35.00 | 310 | 6.9 | 30 | < 2.0 | -- | < 0.20 |
| | MW09-20210727 | SoundEarth | 07/27/21 | 35.00 | 410 | 4.3 | 23 | < 2.0 | -- | < 0.20 |
| MW09-20211013 | SoundEarth | 10/13/21 | 35.00 | 380 | 3.9 | 20 | < 0.40 | -- | < 0.20 | |
| MW09-20220427 | SoundEarth | 04/27/22 | 35.00 | 420 | 4.4 | 15 | < 0.20 | -- | < 0.20 | |
| MW09-20221117 | SoundEarth | 11/17/22 | 35.00 | 670 | < 4.0 | 10 | < 4.0 | -- | < 0.20 | |
| MW10 | MW10-111904-01 | Farallon | 11/19/04 | 34.98 | 2.5 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW10-060106 | Farallon | 06/01/06 | 37.98 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW10-042007 | Farallon | 04/20/07 | 37.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW10-112008 | Farallon | 11/20/08 | 38.01 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW10-050410 | Farallon | 05/04/10 | 35.00 | 3.30 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW10-20140910 | SoundEarth | 09/10/14 | 35.00 | 600 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| | MW10-20181024 | SoundEarth | 10/24/18 | 35.00 | 210 | < 2.0 | < 2.0 | < 2.0 | -- | < 2.0 |
| | MW10-20190409 | SoundEarth | 04/09/19* | 35.00 | 21 | 1.1 | 1.8 | < 0.20 | -- | < 0.20 |
| | MW10-20200129 | SoundEarth | 01/29/20 | 35.00 | 6.5 | 3.3 | 250 | < 1.0 | -- | 1.6 |
| | MW10-20200422 | SoundEarth | 04/22/20 | 35.00 | < 2.0 | < 2.0 | 270 | < 2.0 | -- | 1.5 |
| | MW10-20200722 | SoundEarth | 07/22/20 | 35.00 | < 2.0 | < 2.0 | 270 | < 2.0 | -- | 1.3 |
| | MW10-20201020 | SoundEarth | 10/20/20 | 35.00 | 6.5 | 3.6 | 480 | < 2.0 | -- | 1.2 |
| | MW10-20210128 | SoundEarth | 01/28/21 | 35.00 | 11 | 6.5 | 420 | < 2.0 | -- | 0.91 |
| | MW10-20210420 | SoundEarth | 04/20/21 | 35.00 | 47 | 15 | 650 | < 4.0 | -- | 1.3 |
| MW10-20210726 | SoundEarth | 07/26/21 | 35.00 | 19 | 8.9 | 400 | < 2.0 | -- | 0.78 | |
| MW10-20211012 | SoundEarth | 10/12/21 | 35.00 | 9.3 | 5.3 | 150 | 0.48 | -- | 0.56 | |
| MW10-20220426 | SoundEarth | 04/26/22 | 35.00 | 1.7 | 1.5 | 120 | < 0.80 | -- | 0.50 | |
| MW10-20221117 | SoundEarth | 11/17/22 | 35.00 | 4.5 | 3.3 | 80 | < 0.40 | -- | 0.45 | |
| MW11 | MW11-060206 | Farallon | 06/02/06 | 62.30 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW11-112008 | Farallon | 11/20/08 | 63.30 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW11-050310 | Farallon | 05/03/10 | 62.50 | < 1.0 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW11-20141007 | SoundEarth | 10/07/14 | 62.50 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| MW12 | MW12-060206 | Farallon | 06/02/06 | 60.51 | 0.76 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW12-111908 | Farallon | 11/19/08 | 64.10 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW12-050310 | Farallon | 05/03/10 | 62.00 | < 1.0 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW12-20140909 | SoundEarth | 09/09/14 | 62.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| | MW12-20181024 | SoundEarth | 10/24/18 | 62.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| MW13 | MW13-060206 | Farallon | 06/02/06 | 60.90 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW13-042007 | Farallon | 04/20/07 | 63.18 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW13-111908 | Farallon | 11/19/08 | 64.22 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW13-050310 | Farallon | 05/03/10 | 60.00 | < 1.0 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW13-20140909 | SoundEarth | 09/09/14 | 60.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| | MW13-20181024 | SoundEarth | 10/24/18 | 60.50 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| MW14 | MW14-060206 | Farallon | 06/02/06 | 71.31 | 0.99 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW14-032507 | Farallon | 03/25/07 | 70.08 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW14-042007 | Farallon | 04/20/07 | 68.80 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW14-112008 | Farallon | 11/20/08 | 70.16 | 1.1 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW14-050410 | Farallon | 05/04/10 | 68.00 | < 1.0 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW14-20140910 | SoundEarth | 09/10/14 | 68.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| Monitoring Well Decommissioned | | | | | | | | | | |
| MTCA Cleanup Levels for Groundwater | | | | | 5 ⁽²⁾ | 5 ⁽²⁾ | 16 ⁽³⁾ | 160 ⁽³⁾ | 400 ⁽³⁾ | 0.2 ⁽²⁾ |
| Commercial Remediation Levels for Groundwater | | | | | 120 ⁽⁴⁾ | 12 ⁽⁴⁾ | NE | 650 ⁽⁴⁾ | NE | 1.6 ⁽⁴⁾ |
| Roadway Excavation Remediation Levels for Groundwater | | | | | 760 ⁽⁴⁾ | 40 ⁽⁴⁾ | NE | 4,200 ⁽⁴⁾ | NE | 9.9 ⁽⁴⁾ |



Table 1
Groundwater Analytical Results for CVOCs
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

| Well ID | Sample ID | Sampled By | Sample Date | Sample Point Depth (feet bgs) | Analytical Results ⁽¹⁾ (micrograms per liter) | | | | | | |
|---|---|------------|-------------|-------------------------------|--|--------------------|-------------------|----------------------|--------------------|--------------------|--------------------|
| | | | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | 1,1-DCE | Vinyl Chloride | |
| MW18 | MW18-060106 | Farallon | 06/01/06 | 75.92 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| | Monitoring Well Decommissioned | | | | | | | | | | |
| MW20 | MW20-112008 | Farallon | 11/20/08 | 47.19 | 0.28 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| | MW20-050410 | Farallon | 05/04/10 | 45.00 | < 1.0 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| Monitoring Well Decommissioned | | | | | | | | | | | |
| MW22 | MW22-112008 | Farallon | 11/20/08 | 47.19 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| | MW22-050410 | Farallon | 05/04/10 | 44.00 | < 1.0 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| | MW22-20140910 | SoundEarth | 09/10/14 | 44.50 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | |
| | MW22-20181024 | SoundEarth | 10/24/18 | 44.50 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| | MW22-20200128 | SoundEarth | 01/28/20 | 45.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| | MW22-20200421 | SoundEarth | 04/21/20 | 44.50 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| | MW22-20200721 | SoundEarth | 07/21/20 | 44.50 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| | MW22-20201019 | SoundEarth | 10/19/20 | 44.50 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| | MW22-20210127 | SoundEarth | 01/27/21 | 44.50 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| | MW22-20210420 | SoundEarth | 04/20/21 | 44.50 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| | MW22-20210726 | SoundEarth | 07/26/21 | 45.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| | MW22-20211012 | SoundEarth | 10/12/21 | 45.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.10 | |
| | MW22-20220426 | SoundEarth | 04/26/22 | 45.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| | MW22-20221116 | SoundEarth | 11/16/22 | 45.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| MW29 | MW29-20190521 | SoundEarth | 05/21/19 | 45.00 | 11 | 0.62 | < 0.20 | < 0.20 | -- | < 0.20 | |
| | MW29-20200128 | SoundEarth | 01/28/20 | 45.00 | 4.5 | 1.1 | 2.8 | < 0.20 | -- | < 0.20 | |
| | MW29-20200422 | SoundEarth | 04/22/20 | 40.00 | 0.79 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| | MW29-20200721 | SoundEarth | 07/21/20 | 40.00 | 4.6 | 1.5 | 0.86 | < 0.20 | -- | < 0.20 | |
| | MW29-20201019 | SoundEarth | 10/19/20 | 40.00 | 4.5 | 1.2 | 0.55 | < 0.20 | -- | < 0.20 | |
| | MW29-20210128 | SoundEarth | 01/28/21 | 40.00 | 7.1 | 1.5 | 0.30 | < 0.20 | -- | < 0.20 | |
| | MW29-20210420 | SoundEarth | 04/20/21 | 45.00 | 7.2 | 1.3 | 0.21 | < 0.20 | -- | < 0.20 | |
| | MW29-20210726 | SoundEarth | 07/26/21 | 45.00 | 4.8 | 0.53 | < 0.20 | < 0.20 | -- | < 0.20 | |
| | MW29-20211012 | SoundEarth | 10/12/21 | -- | 5.3 | 0.87 | < 0.20 | < 0.20 | -- | < 0.10 | |
| | MW29-20220427 | SoundEarth | 04/27/22 | 45.00 | 1.4 | 0.78 | 2.7 | < 0.20 | -- | < 0.20 | |
| MW29-20221116 | SoundEarth | 11/16/22 | 45.00 | 2.4 | 0.82 | < 0.20 | < 0.20 | -- | < 0.20 | | |
| MW31 | MW31-20210127 | SoundEarth | 01/27/21 | 37.00 | 16,000 | 780 | 940 | < 200 | -- | < 200 | |
| | MW31-20210419 | SoundEarth | 04/19/21 | 37.50 | 19,000 | 2,600 | 3,400 | < 100 | -- | < 10 | |
| | MW31-20210726 | SoundEarth | 07/26/21 | 37.50 | 480 | 790 | 15,000 | 110 | -- | 12 | |
| | MW31-20210819 | SoundEarth | 08/19/21 | 38.00 | 350 | 360 | 16,000 | 140 | -- | 20 | |
| | MW31-20211011 | SoundEarth | 10/11/21 | 37.50 | 370 | 410 | 11,000 | 150 | -- | 65 | |
| | MW31-20220426 | SoundEarth | 04/26/22 | -- | 110 | 12 | 13,000 | 120 | -- | 570 | |
| | MW31-20221116 | SoundEarth | 11/16/22 | 38.00 | 55 | < 25 | 10,000 | 85 | -- | 1,100 | |
| MW33 | MW33-20221116 | SoundEarth | 11/16/22 | 40.00 | 4.5 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| MW35 | MW35-20221115 | SoundEarth | 11/15/22 | 40.00 | 3,300 | 110 | 310 | < 0.20 | -- | 2.8 | |
| MW37 | MW37-20221115 | SoundEarth | 11/15/22 | 40.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| IW07 | IW07-20200212* | SoundEarth | 02/12/20 | 32.00 | < 0.20 | < 0.20 | 1.5 | < 0.20 | -- | < 0.20 | |
| | IW07-20200526* | SoundEarth | 05/26/20 | 32.00 | < 0.20 | < 0.20 | 1.8 | < 0.20 | < 0.20 | < 0.20 | |
| | IW07-20200720* | SoundEarth | 07/20/20 | 32.00 | < 0.20 | < 0.20 | 1.9 | < 0.20 | -- | < 0.20 | |
| | IW07-20201019* | SoundEarth | 10/19/20 | 32.00 | < 0.20 | < 0.20 | 1.5 | < 0.20 | -- | < 0.20 | |
| | IW07-20210127* | SoundEarth | 01/27/21 | 32.00 | < 0.20 | < 0.20 | 1.8 | < 0.20 | -- | 0.23 | |
| | IW07-20210419* | SoundEarth | 04/19/21 | 32.00 | < 0.20 | < 0.20 | 1.5 | < 0.20 | -- | 0.32 | |
| | IW07-20210726* | SoundEarth | 07/26/21 | 32.00 | < 0.20 | < 0.20 | 1.5 | < 0.20 | -- | 0.32 | |
| | IW07-20211011* | SoundEarth | 10/11/21 | 32.00 | < 0.20 | < 0.20 | 1.4 | < 0.20 | -- | 0.32 | |
| IW15 | IW07-20220425* | SoundEarth | 04/25/22 | 32.00 | < 0.20 | < 0.20 | 1.4 | < 0.20 | -- | 0.44 | |
| | IW07-20221115* | SoundEarth | 11/15/22 | 32.00 | < 0.20 | < 0.20 | 1.4 | < 0.20 | -- | 0.24 | |
| | IW15-20200212* | SoundEarth | 02/12/20 | 29.00 | 0.21 | < 0.20 | 3.3 | < 0.20 | -- | 0.58 | |
| | IW15-20200526* | SoundEarth | 05/26/20 | 32.00 | 0.34 | 0.44 | 18 | < 0.20 | < 0.20 | 11 | |
| | IW15-20200720* | SoundEarth | 07/20/20 | 32.00 | 0.36 | 0.58 | 28 | < 0.20 | -- | 19 | |
| | IW15-20201019* | SoundEarth | 10/19/20 | 32.00 | 0.33 | 0.45 | 27 | < 0.20 | -- | 20 | |
| | IW15-20210127* | SoundEarth | 01/27/21 | 32.00 | 0.65 | < 0.40 | 40 | < 0.40 | -- | 28 | |
| | IW15-20210419* | SoundEarth | 04/19/21 | 32.00 | 0.57 | 1.5 | 69 | < 0.40 | -- | 37 | |
| | IW15-20210726* | SoundEarth | 07/26/21 | 32.00 | 0.51 | 1.0 | 49 | < 0.40 | -- | 24 | |
| IW22 | IW15-20211011* | SoundEarth | 10/11/21 | 32.00 | 0.37 | 0.64 | 35 | < 0.20 | -- | 14 | |
| | IW15-20220425* | SoundEarth | 04/25/22 | 32.00 | < 0.80 | 1.6 | 57 | < 0.80 | -- | 19 | |
| | IW15-20221115* | SoundEarth | 11/15/22 | 32.00 | 0.55 | 1.3 | 46 | 0.21 | -- | 8.6 | |
| | IW22-20200212* | SoundEarth | 02/12/20 | 32.00 | < 0.20 | < 0.20 | 1.5 | < 0.20 | -- | 30 | |
| | IW22-20200526* | SoundEarth | 05/26/20 | 32.00 | < 0.50 | < 0.50 | 4.8 | < 0.50 | < 0.50 | 91 | |
| | IW22-20200720* | SoundEarth | 07/20/20 | 32.00 | < 1.0 | < 1.0 | 8.5 | < 1.0 | -- | 160 | |
| | IW22-20201019* | SoundEarth | 10/19/20 | 32.00 | < 1.0 | < 1.0 | 8.2 | < 1.0 | -- | 150 | |
| | IW22-20210127* | SoundEarth | 01/27/21 | 32.00 | < 1.0 | < 1.0 | 12 | < 1.0 | -- | 180 | |
| IW22 | IW22-20210419* | SoundEarth | 04/19/21 | 32.00 | < 2.0 | < 2.0 | 17 | < 2.0 | -- | 210 | |
| | IW22-20210726* | SoundEarth | 07/26/21 | 32.00 | < 2.0 | < 2.0 | 16 | < 2.0 | -- | 250 | |
| | IW22-20211011* | SoundEarth | 10/11/21 | 32.00 | < 2.0 | < 2.0 | 20 | < 2.0 | -- | 240 | |
| | IW22-20220425* | SoundEarth | 04/25/22 | 32.00 | < 4.0 | < 4.0 | 30 | < 4.0 | -- | 280 | |
| | IW22-20221115* | SoundEarth | 11/15/22 | 32.00 | < 1.0 | < 1.0 | 33 | < 1.0 | -- | 190 | |
| | MTCA Cleanup Levels for Groundwater | | | | | 5 ⁽²⁾ | 5 ⁽²⁾ | 16 ⁽³⁾ | 160 ⁽³⁾ | 400 ⁽³⁾ | 0.2 ⁽²⁾ |
| | Commercial Remediation Levels for Groundwater | | | | | 120 ⁽⁴⁾ | 12 ⁽⁴⁾ | NE | 650 ⁽⁴⁾ | NE | 1.6 ⁽⁴⁾ |
| Roadway Excavation Remediation Levels for Groundwater | | | | | 760 ⁽⁴⁾ | 40 ⁽⁴⁾ | NE | 4,200 ⁽⁴⁾ | NE | 9.9 ⁽⁴⁾ | |



Table 1
Groundwater Analytical Results for CVOCs
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

| Well ID | Sample ID | Sampled By | Sample Date | Sample Point Depth (feet bgs) | Analytical Results ⁽¹⁾ (micrograms per liter) | | | | | |
|--|-----------------|----------------|-------------|-------------------------------|--|-------------------|-------------------|----------------------|--------------------|--------------------|
| | | | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | 1,1-DCE | Vinyl Chloride |
| IW32 | IW32-20200212* | SoundEarth | 02/12/20 | 33.00 | < 40 | 950 | 7,100 | 73 | -- | 250 |
| | IW32-20200526* | SoundEarth | 05/26/20 | 32.00 | < 50 | 370 | 5,700 | < 50 | < 50 | 250 |
| | IW32-20200720* | SoundEarth | 07/20/20 | 32.00 | < 50 | 260 | 5,400 | < 50 | -- | 250 |
| | IW32-202101019* | SoundEarth | 10/19/20 | 32.00 | 23 | 200 | 4,600 | 35 | -- | 240 |
| | IW32-20210127* | SoundEarth | 01/27/21 | 32.00 | 45 | 320 | 5,800 | 45 | -- | 320 |
| | IW32-20210419* | SoundEarth | 04/19/21 | 32.00 | < 40 | 170 | 6,100 | 53 | -- | 430 |
| | IW32-20210726* | SoundEarth | 07/26/21 | 32.00 | < 50 | 160 | 10,000 | 89 | -- | 1,300 |
| | IW32-20211011* | SoundEarth | 10/11/21 | 32.00 | < 40 | 130 | 7,000 | 55 | -- | 1,200 |
| IW34 | IW32-20220425* | SoundEarth | 04/25/22 | 32.00 | < 50 | 120 | 5,400 | < 50 | -- | 960 |
| | IW32-20221114* | SoundEarth | 11/14/22 | 32.00 | < 30 | 130 | 6,100 | 32 | -- | 1,000 |
| | IW34-20190409* | SoundEarth | 04/09/19 | 33.00 | 230 | 21 | 11 | < 1.0 | -- | 1.0 |
| | IW34-20200212* | SoundEarth | 02/12/20 | 33.00 | 360 | 3,100 | 4,100 | 50 | -- | 100 |
| | IW34-20200526* | SoundEarth | 05/26/20 | 32.00 | 310 | 2,400 | 7,700 | 83 | < 50 | 160 |
| | IW34-20200720* | SoundEarth | 07/20/20 | 32.00 | 290 | 2,300 | 11,000 | 110 | -- | 220 |
| | IW34-202101019* | SoundEarth | 10/19/20 | 32.00 | 230 | 1,400 | 13,000 | 140 | -- | 280 |
| | IW34-20210127* | SoundEarth | 01/27/21 | 32.00 | < 200 | 990 | 17,000 | < 200 | -- | 360 |
| IW36 | IW34-20210419* | SoundEarth | 04/19/21 | 32.00 | 170 | 650 | 20,000 | 240 | -- | 480 |
| | IW34-20210726* | SoundEarth | 07/26/21 | 32.00 | < 200 | 230 | 24,000 | 320 | -- | 460 |
| | IW34-20211011* | SoundEarth | 10/11/21 | 32.00 | < 200 | < 200 | 26,000 | 330 | -- | 560 |
| | IW34-20220425* | SoundEarth | 04/25/22 | 32.00 | < 10 | < 10 | 34,000 | 500 | -- | 810 |
| | IW34-20221114* | SoundEarth | 11/14/22 | 32.00 | < 300 | < 300 | 36,000 | 600 | -- | 860 |
| | IW36-20190409* | SoundEarth | 04/09/19 | 33.00 | 0.37 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | -- | -- | 02/12/20 | -- | -- | -- | -- | -- | -- | -- |
| | IW60 | IW60-20200526* | SoundEarth | 05/26/20 | 20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| IW60-20200720* | | SoundEarth | 07/20/20 | 20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| IW60-202101019* | | SoundEarth | 10/19/20 | 20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| IW60-20210127* | | SoundEarth | 01/27/21 | 20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| IW60-20210419* | | SoundEarth | 04/19/21 | 20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| IW60-20210726* | | SoundEarth | 07/26/21 | 20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| IW60-20211011* | | SoundEarth | 10/11/21 | 20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| IW60-20220425* | | SoundEarth | 04/25/22 | 20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| DZ-B01 | DZ-B01-20-30 | SoundEarth | 07/20/21 | 25.00 | 3,600 | 520 | 5,900 | < 30 | -- | 1,800 |
| | DZ-B01-40-50 | SoundEarth | 07/20/21 | 45.00 | 10,000 | 160 | 310 | < 50 | -- | 67 |
| DZ-B02 | DZ-B02-20-30 | SoundEarth | 07/22/21 | 25.00 | 10,000 | 980 | 1,900 | < 100 | -- | 180 |
| | DZ-B02-40-50 | SoundEarth | 07/22/21 | 45.00 | 1,300 | 180 | 420 | < 10 | -- | 32 |
| DZ-B03 | DZ-B03-20-30 | SoundEarth | 07/22/21 | 25.00 | 22,000 | 1,500 | 6,600 | < 200 | -- | 590 |
| | DZ-B03-35-45 | SoundEarth | 07/22/21 | 40.00 | 12,000 | 420 | 920 | < 100 | -- | 62 |
| DZ-B04 | DZ-B04-20-30 | SoundEarth | 07/23/21 | 25.00 | 130 | 3.9 | 270 | < 2.0 | -- | 280 |
| | DZ-B04-40-50 | SoundEarth | 07/23/21 | 45.00 | 80 | 0.75 | 1.0 | < 0.40 | -- | 0.50 |
| DZ-B05 | DZ-B05-20-30 | SoundEarth | 02/24/22 | 25.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | DZ-B05-40-50 | SoundEarth | 02/25/22 | 45.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | DZ-B05-60-70 | SoundEarth | 02/25/22 | 65.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| DZ-B06 | DZ-B06-20-30 | SoundEarth | 02/28/22 | 25.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | DZ-B06-40-50 | SoundEarth | 02/28/22 | 45.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | DZ-B06-60-70 | SoundEarth | 03/01/22 | 65.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| DZ-B07 | DZ-B07-20-30 | SoundEarth | 03/03/22 | 25.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | DZ-B07-40-50 | SoundEarth | 03/03/22 | 45.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | DZ-B07-60-70 | SoundEarth | 03/03/22 | 65.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| DZ-B08 | DZ-B08-20-30 | SoundEarth | 03/01/22 | 25.00 | 33 | 0.51 | < 0.20 | < 0.20 | -- | < 0.20 |
| | DZ-B08-40-50 | SoundEarth | 03/02/22 | 45.00 | 2.6 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | DZ-B08-60-70 | SoundEarth | 03/02/22 | 65.00 | 0.40 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| DZ-B09 | DZ-B09-20-30 | SoundEarth | 02/22/22 | 25.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | DZ-B09-40-50 | SoundEarth | 02/22/22 | 45.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | DZ-B09-60-70 | SoundEarth | 02/23/22 | 65.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| MTCA Cleanup Levels for Groundwater | | | | | 5 ⁽²⁾ | 5 ⁽²⁾ | 16 ⁽³⁾ | 160 ⁽³⁾ | 400 ⁽³⁾ | 0.2 ⁽²⁾ |
| Commercial Remediation Levels for Groundwater | | | | | 120 ⁽⁴⁾ | 12 ⁽⁴⁾ | NE | 650 ⁽⁴⁾ | NE | 1.6 ⁽⁴⁾ |
| Roadway Excavation Remediation Levels for Groundwater | | | | | 760 ⁽⁴⁾ | 40 ⁽⁴⁾ | NE | 4,200 ⁽⁴⁾ | NE | 9.9 ⁽⁴⁾ |

NOTES:

Red denotes concentration exceeds MTCA cleanup level for groundwater.

* denotes sample was collected using a passive diffusion bag sampler.

Samples analyzed by OnSite Environmental, Inc. of Redmond, Washington.

⁽¹⁾Analyzed by EPA Method 8260B, 8260C, or 8260D.

⁽²⁾MTCA Cleanup Regulation, WAC 173-340-900, Table 720-1 Method A Cleanup Levels for Groundwater.

⁽³⁾MTCA Cleanup Regulation, WAC 173-340, CLARC, Groundwater, Method B, Non-Carcinogen, Standard Formula Value, CLARC Website <<https://fortress.wa.gov/ecy/clarc/CLARHome.aspx>>.

⁽⁴⁾Washington State Department of Ecology Toxics Cleanup Program Memorandum, Air, Soil Gas, and Groundwater Remediation Levels for Vapor Intrusion in Commercial and Excavation Scenarios, Table 1 Commercial Remediation Levels for Groundwater and Table 3 Roadway Excavation Remediation Levels for Groundwater, July, 18 2022.

-- = not analyzed

< = not detected at a concentration above the laboratory reporting limit

bgs = below ground surface

CLARC = cleanup levels and risk calculations

CVOC = chlorinated volatile organic compound

DCE = dichloroethene

DZ = deep zone temporary monitoring well

EPA = US Environmental Protection Agency

Farallon = Farallon Consulting, L.L.C.

GeoEngineers = GeoEngineers, Inc.

MTCA = Washington State Model Toxics Control Act

NE = not established

PCE = tetrachloroethene

SoundEarth = SoundEarth Strategies, Inc.

TCE = trichloroethene

WAC = Washington Administrative Code



Table 2
Sub-Slab Soil Gas and Indoor Air Sample Locations and Analyses
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

| Sample ID | Building Floor Location | Sample Location | Analyses ^(1,2,3) |
|---------------------------------------|-------------------------|--------------------------------|-----------------------------|
| Sub-Slab Soil Gas Samples | | | |
| SS01 | Beneath crawlspace slab | Men's Bathroom | CVOCs, helium, radon-222 |
| SS02 | Beneath crawlspace slab | Maintenance Storage Closet | CVOCs, helium, radon-222 |
| Indoor and Outdoor Air Samples | | | |
| IA01 | Ground Floor | Northern Wall | CVOCs, radon-222 |
| IA02 | Ground Floor | Northeastern Building Corner | CVOCs, radon-222 |
| IA03 | Ground Floor | Eastern Wall | CVOCs, radon-222 |
| OA01 | Outside, Roof | Adjacent to HVAC System Intake | CVOCs, radon-222 |

NOTES:

⁽¹⁾CVOCs analyzed by EPA Method TO-15.

⁽²⁾Helium analyzed by Method ASTM D1946.

⁽³⁾Radon-222 analyzed by alpha scintillation counting.

CVOC = chlorinated volatile organic compound

EPA = US Environmental Protection Agency

HVAC = heating, ventilation, and air conditioning

IA = indoor air

OA = outdoor air

SS = sub-slab



Table 3
Sub-Slab Soil Gas and Indoor Air Cleanup Levels for Proposed Analytes
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

| Proposed Analyte List | MTCA Soil Gas Screening Level for Commercial Workers ($\mu\text{g}/\text{m}^3$) | MTCA Indoor Air Screening Level for Commercial Workers ($\mu\text{g}/\text{m}^3$) |
|----------------------------|--|--|
| Tetrachloroethylene | 1,500 ⁽¹⁾ | 45 ⁽³⁾ |
| Trichloroethylene | 95 ⁽¹⁾ | 2.9 ⁽³⁾ |
| cis-1,2-Dichloroethylene | 5,200 ⁽²⁾ | 156 ⁽⁴⁾ |
| trans-1,2-Dichloroethylene | 5,200 ⁽²⁾ | 156 ⁽⁴⁾ |
| Vinyl Chloride | 44 ⁽¹⁾ | 1.3 ⁽³⁾ |
| Helium | -- | -- |
| Radon-222 | -- | -- |

NOTES:

⁽¹⁾Vapor Intrusion Screening Level for Commercial Worker, CLARC, Soil Gas Screening Level, Cancer, updated in July 2022, CLARC Website <<https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>>.

⁽²⁾Vapor Intrusion Screening Level for Commercial Worker, CLARC, Soil Gas Screening Level, Noncancer, updated in July 2022, CLARC Website <<https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>>.

⁽³⁾Vapor Intrusion Screening Level for Commercial Worker, CLARC, Indoor Air Screening Level, Cancer, updated in July 2022, CLARC Website <<https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>>.

⁽⁴⁾Vapor Intrusion Screening Level for Commercial Worker, CLARC, Indoor Air Screening Level, Noncancer, updated in July 2022, CLARC Website <<https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>>.

$\mu\text{g}/\text{m}^3$ = micrograms per cubic meter

-- = not established

CLARC = cleanup levels and risk calculation

MTCA = Washington State Model Toxics Control Act

APPENDIX A
QUALITY ASSURANCE PROJECT PLAN

QUALITY ASSURANCE PROJECT PLAN

APPENDIX A OF THE VAPOR INTRUSION ASSESSMENT SAMPLING AND ANALYSIS PLAN



Property:

Plastic Sales and Services Site
6870 Woodlawn Avenue Northeast
Seattle, Washington
Ecology Facility ID: 1948927

Prepared for:

Washington State Department of Ecology
Toxics Cleanup Program
Northwest Regional Office
15700 Dayton Avenue North
Shoreline, Washington

Report Date:

August 15, 2023

QUALITY ASSURANCE PROJECT PLAN

APPENDIX A OF THE VAPOR INTRUSION ASSESSMENT SAMPLING AND ANALYSIS PLAN

Prepared for:

Washington State Department of Ecology

Toxics Cleanup Program, Northwest Regional Office

15700 Dayton Avenue North

Shoreline, Washington 98133

Plastic Sales and Service Site

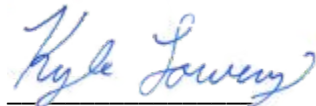
6870 Woodlawn Avenue Northeast

Seattle, Washington 98115

Ecology Facility ID: 1948927

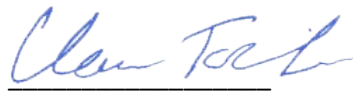
Project No.: 0651-002

Prepared by:



Kyle Lowery

Project Geologist



Clare Tochilin, LG

Senior Geologist

Reviewed by:



Tom Cammarata, LG, LHG

Principal Geochemist

August 15, 2023



TABLE OF CONTENTS

| | |
|---|------------|
| ACRONYMS AND ABBREVIATIONS | iii |
| 1.0 INTRODUCTION | 1 |
| 1.1 PURPOSE..... | 1 |
| 1.2 PROJECT SCHEDULE..... | 1 |
| 2.0 SAMPLING OBJECTIVES | 1 |
| 3.0 SAMPLE HANDLING AND QUALITY CONTROL PROCEDURES | 2 |
| 3.1 SAMPLE IDENTIFICATION | 2 |
| 3.1.1 Sub-Slab Soil Gas Samples..... | 2 |
| 3.1.2 Indoor and Outdoor Air Samples | 2 |
| 3.2 SAMPLE CONTAINER HANDLING PROCEDURES | 2 |
| 3.3 SAMPLE CHAIN-OF-CUSTODY PROCEDURES | 3 |
| 3.4 FIELD QUALITY ASSURANCE SAMPLING | 3 |
| 3.4.1 Sub-Slab Soil Gas Sampling | 3 |
| 3.4.2 Indoor Air Sampling..... | 3 |
| 4.0 ANALYTICAL TESTING | 4 |
| 4.1 SUB-SLAB SOIL GAS..... | 4 |
| 4.2 INDOOR AIR | 4 |
| 5.0 DATA QUALITY OBJECTIVES | 5 |
| 5.1 PRECISION..... | 5 |
| 5.2 ACCURACY | 6 |
| 5.3 REPRESENTATIVENESS..... | 6 |
| 5.4 COMPLETENESS..... | 7 |
| 5.5 COMPARABILITY | 7 |
| 5.6 SENSITIVITY..... | 7 |
| 6.0 DATA COLLECTION | 7 |
| 6.1 DATA COLLECTION APPROACH..... | 8 |
| 6.2 DATA TYPES | 8 |
| 6.3 DATA TRANSFER | 8 |
| 6.4 DATA INVENTORY | 8 |
| 6.4.1 Document Filing and Storage | 8 |
| 6.4.2 Access to Project Files | 8 |
| 6.5 DATA VALIDATION..... | 9 |
| 6.6 DATA REDUCTION AND ANALYSIS..... | 9 |
| 7.0 QUALITY CONTROL PROCEDURES | 9 |
| 7.1 FIELD QUALITY CONTROL | 9 |
| 7.2 LABORATORY QUALITY CONTROL | 9 |

TABLE OF CONTENTS (CONTINUED)

| | | |
|-------------|---|-----------|
| 7.3 | DATA QUALITY CONTROL | 10 |
| 7.4 | DATA ASSESSMENT PROCEDURES..... | 11 |
| 7.5 | PERFORMANCE AUDITS..... | 11 |
| 8.0 | CORRECTIVE ACTIONS | 12 |
| 9.0 | DOCUMENTATION AND RECORDS | 12 |
| 9.1 | FIELD DOCUMENTATION | 12 |
| 9.2 | ANALYTICAL RECORDS..... | 13 |
| 10.0 | HEALTH AND SAFETY PROCEDURES | 13 |

FIGURE

A-1 Property Location Map

TABLES

A-1 Analytical Methods, Container, Preservation, and Holding Time Requirements
A-2 Practical Quantitation Limits and MTCA Cleanup Levels
A-3 Quantitative Goals of Data Quality Objectives

ATTACHMENT

A Field Forms
Field Report Form
Air Sample Collection Log
Sample Chain of Custody Form

ACRONYMS AND ABBREVIATIONS

| | |
|-------------------------------|---|
| %R | percent recovery |
| CVOC | chlorinated volatile organic compound |
| DQO | data quality objective |
| Dry Cleaner Building Property | the property located at 6870 Woodlawn Avenue Northeast in Seattle, Washington |
| Ecology | Washington State Department of Ecology |
| EPA | US Environmental Protection Agency |
| F&B | Friedman & Bruya, Inc. of Seattle, Washington |
| HASP | Health and Safety Plan |
| the Hearthstone Property | the property located at 6850 Woodlawn Avenue Northeast in Seattle, Washington |
| IA | indoor air |
| ID | identifier |
| Janke Property | the property adjoining the Dry Cleaner Building Property to the north located at 6869 Woodlawn Avenue Northeast in Seattle, Washington |
| MS | matrix spike |
| MSD | matrix spike duplicate |
| OA | outdoor air |
| PQL | practical quantitation limit |
| QA/QC | quality assurance/quality control |
| QAPP | Quality Assurance Project Plan |
| RPD | relative percent difference |
| SAP | Vapor Intrusion Assessment Sampling and Analysis Plan |
| the Site | the extent of contamination caused by the releases of hazardous substances at the property located at 6870 Woodlawn Avenue Northeast in Seattle, Washington (the Dry Cleaner Building Property); collectively, the Site includes the Dry Cleaner Building Property and the following: <ul style="list-style-type: none">▪ The west-adjointing property located at 6860 Woodlawn Avenue Northeast (the Hearthstone Property)▪ The north-adjointing property located at 6869 Woodlawn Avenue Northeast▪ The south-adjointing property located at 6565 4th Avenue Northeast▪ Portions of the City of Seattle right-of-way between the Dry Cleaner Building Property and the Hearthstone Property▪ Portions of the Woodlawn Avenue Northeast and 4th Avenue Northeast rights-of-way |
| SoundEarth | SoundEarth Strategies, Inc. |
| WAC | Washington Administrative Code |

1.0 INTRODUCTION

SoundEarth Strategies, Inc. (SoundEarth) has prepared this Quality Assurance Project Plan (QAPP) for the implementation of the vapor intrusion assessment at the Plastic Sales and Service Site (the Site; Figure A-1). This QAPP has been drafted as part of the Vapor Intrusion Assessment Sampling and Analysis Plan (SAP) for the Washington State Department of Ecology (Ecology).

The Site is defined in the Ecology Agreed Order No. DE 7084, dated September 14, 2009, as the extent of contamination caused by the releases of hazardous substances at the property located at 6870 Woodlawn Avenue Northeast in Seattle, Washington (the Former Dry Cleaner Building Property). Collectively, the Site includes the Dry Cleaner Building Property and the following:

- The west-adjointing property located at 6860 Woodlawn Avenue Northeast (the Hearthstone Property)
- The north-adjointing property located at 6869 Woodlawn Avenue Northeast (Janke Property)
- The south-adjointing property located at 6565 4th Avenue Northeast
- Portions of the City of Seattle right-of-way (ROW) between the Dry Cleaner Building Property and the Hearthstone Property
- Portions of the Woodlawn Avenue Northeast and 4th Avenue Northeast ROWs

1.1 PURPOSE

The purpose of this QAPP is to provide specific requirements for sample collection, handling, and analysis procedures to be used during implementation of the vapor intrusion assessment at the Janke Property. This QAPP identifies specific sampling and analysis protocols. It also provides detailed information regarding the sampling and data quality objectives (DQOs); sample location and frequency; equipment and procedures; sample handling and analysis; procedures for management of waste; quality assurance/quality control (QA/QC) protocols for field activities and laboratory analysis; and reporting requirements.

1.2 PROJECT SCHEDULE

The vapor intrusion assessment is expected to commence in the third quarter of 2023.

2.0 SAMPLING OBJECTIVES

The sampling objective for the QAPP is to collect sufficient compliance samples to evaluate the vapor intrusion exposure pathway at the Janke Property. The data collected as part of this QAPP will be assessed to determine if additional work is necessary as part of the ongoing cleanup action at the Site.

The following compliance samples will be collected as part of the SAP:

- Sub-slab soil gas samples from beneath the concrete slab of the crawl space in the Janke Property building
- Indoor air samples from within the Janke Property building and an ambient air sample from outside the Janke Property building.

3.0 SAMPLE HANDLING AND QUALITY CONTROL PROCEDURES

The following sections summarize sample labeling, containers, handling, chain-of-custody, field QC, and decontamination procedures to be applied during the sub-slab soil gas and indoor and outdoor air sampling activities.

3.1 SAMPLE IDENTIFICATION

Each sample collected during the sampling event will be assigned a unique sample identifier (ID) and number. Sample IDs will be filled out appropriately on the Sample Chain of Custody form and the Vapor Sample Log. The Vapor Sample Log will include the following information: sample ID, sample location, sample date and time, flow controller ID, and initial and final vacuum. The Vapor Sample Log is included in Attachment A.

3.1.1 Sub-Slab Soil Gas Samples

Sub-slab soil gas samples will be collected during the sampling event and will be assigned a unique sample ID that will include the components listed below:

- Sub-slab soil gas samples will begin with the letters SS (“sub-slab”), followed by the sample number determined by the sample’s order in which it was collected.
- The date the sample was collected will be formatted as follows: YYYYMMDD.

For example, the first sub-slab soil gas sample collected during the sampling event on July 28, 2023, would be labeled SS01-20230728. The sample ID will be placed on the Vapor Sample Log, Field Report Form, and the Sample Chain of Custody form.

3.1.2 Indoor and Outdoor Air Samples

Indoor air and ambient air samples will be collected during the sampling event and will be assigned a unique sample ID that will include the components listed below:

- Indoor air samples will begin with the letters IA (“indoor air”), followed by the sample number determined by the sample’s order in which it was collected.
- Ambient air samples will begin with the letters OA (“outdoor air”), followed by the sample number determined by the sample’s order in which it was collected.
- The date the sample was collected will be formatted as follows: YYYYMMDD.

For example, the third indoor air sample collected during the sampling event on July 28, 2023, would be labeled IA03-20230728. The sample ID will be placed on the Vapor Sample Log, Field Report Form, and the Sample Chain of Custody form.

3.2 SAMPLE CONTAINER HANDLING PROCEDURES

Required containers, preservation, and holding times for each anticipated analysis are listed in Table A-1. SoundEarth field staff and laboratory personnel will be responsible for following the container handling procedures below:

- Each sample will be labeled and handled with the date and time sampled, well ID number, project number, and preservative(s), if any.

- All sample collection information will be documented on a Sample Chain of Custody form.
- All samples shipped for laboratory analysis will be packaged according to applicable regulations. SoundEarth field staff may drive the samples to the laboratory, or samples will be shipped by a same-day courier service.
- Upon transfer of the samples to laboratory personnel, the laboratory will assume responsibility for custody of the samples.
- The field coordinator will check all sample labels, Sample Chain of Custody form entries, and field notes for completeness and accuracy at the end of each day.

3.3 SAMPLE CHAIN-OF-CUSTODY PROCEDURES

The written procedures that will be followed whenever samples are collected, transferred, stored, analyzed, or destroyed are designed to create an accurate written record that can be used to trace the possession and handling of the sample from the moment of its collection through analysis and reporting of analytical values. This written record, the Sample Chain of Custody form, will be filled out by SoundEarth field staff at the time the sample is obtained. An example of the Sample Chain of Custody form is included in Attachment A.

All samples submitted to the laboratory are accompanied by the Sample Chain of Custody Form. This form is checked for accuracy and completeness and then signed and dated by the laboratory sample custodian accepting the sample. At the laboratory, each sample is assigned a unique, sequential laboratory ID number that is stamped or written on the Sample Chain of Custody Form.

All samples are held under internal chain-of-custody protocols in the sample control room using the appropriate storage technique (i.e., ambient, refrigeration, frozen). The Laboratory Project Manager assigned to a particular client will be responsible for tracking the status of the samples throughout the laboratory. Samples will be signed out of the sample control room in a sample control logbook by the analyst who will prepare the samples for analysis.

The Sample Chain of Custody form will include the following information: client, project name and number, date and time sampled, sample ID, sample start and stop time, sample volume or flow rate, analysis, and analyte preservative(s), if any.

3.4 FIELD QUALITY ASSURANCE SAMPLING

Field and laboratory activities will be conducted in such a manner that the results be valid and meet the DQOs for this remedial action.

3.4.1 Sub-Slab Soil Gas Sampling

Sub-slab soil gas duplicate samples are not planned at this time.

3.4.2 Indoor Air Sampling

Indoor air duplicate samples are not planned at this time.

4.0 ANALYTICAL TESTING

Friedman & Bruya, Inc. of Seattle, Washington (F&B) has been selected as the laboratory to conduct the analysis of chlorinated volatile organic compounds (CVOCs) and helium for collected indoor and outdoor air samples. F&B is an Ecology-accredited laboratory and meets the QA/QC requirements of Ecology and the US Environmental Protection Agency (EPA). The University of Southern California Earth Sciences Department has been selected as the laboratory to conduct the analysis of radon-222.

In completing chemical analyses for this project, the laboratory will meet the following minimum requirements:

- Adhere to the methods outlined in this QAPP, including methods referenced for each analytical procedure.
- Provide a detailed discussion of any modifications made to previously approved analytical methods.
- Deliver PDF and electronic data as specified.
- Meet reporting requirements for deliverables.
- Meet turnaround times for deliverables.
- Implement QA/QC procedures discussed in Section 7.0, including DQOs, laboratory quality control requirements, and performance evaluation testing requirements.
- Notify the Project QA/QC Manager of any QA/QC problems when they are identified to allow for quick resolution.
- Allow laboratory and data audits to be performed, if deemed necessary.

Copies of F&B's *Laboratory Quality Assurance Manual* are on file at SoundEarth's offices for review and reference. Access to laboratory personnel, equipment, and records pertaining to samples, collection, transportation, and analysis can be provided. Container requirements, holding times, and preservation methods for indoor air samples are summarized in Table A-1.

Sample laboratory analytical results for each analyte will be compared to regulatory limits applicable to the interim action. A detailed description of the analytical methods, laboratory practical quantitation limits (PQLs), and applicable regulatory limits for each analyte are provided in Table A-2. Additional analyses may be required during the interim action due to new discoveries or requests from disposal facilities.

4.1 SUB-SLAB SOIL GAS

Sub-slab soil gas samples will be submitted for laboratory analysis of CVOCs by EPA Method TO-15, helium by Method ASTM D1946, and radon-222 by alpha scintillation counting.

4.2 INDOOR AIR

Indoor air samples will be submitted for laboratory analysis of CVOCs by EPA Method TO-15 and radon-222 by alpha scintillation counting. The analytes for each air sample are presented in Table 2 of the SAP.

5.0 DATA QUALITY OBJECTIVES

Field and laboratory activities will be conducted in such a manner that the results will be valid and meet the DQOs for this project. Guidance for QA/QC will be derived in general accordance from the protocols developed for the cited methods within EPA's Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (also known as SW-846) Update VII, dated June 2020, and the *National Functional Guidelines for Organic Superfund Data Review*, Publication No. EPA 540-R-20-005, dated November 2020. The DQOs are designed to:

- Assist the Project Manager and project team to focus on the factors affecting data quality during the planning stage of the project.
- Facilitate communication among field, laboratory, and project staff as the project progresses.
- Document the planning, implementation, and assessment procedures for QA/QC activities.
- Verify that the DQOs are achieved.
- Provide a record of the project to facilitate final report preparation.

The DQOs for the project include both qualitative and quantitative objectives; these define the appropriate type of data and specify the tolerable levels of potential decision errors that will be used as a basis for establishing the quality and quantity of data needed to support the interim action. To verify that the DQOs are achieved, this QAPP details aspects of sample collection and analysis, including analytical methods, QA/QC procedures, and data quality reviews. This QAPP describes both qualitative and quantitative measures of data quality to verify that the DQOs are achieved.

Detailed QA/QC procedures in the field and at the laboratory are provided in the following sections. The DQOs for the indoor air sampling will be used to develop and implement procedures to verify that data collected are of sufficient quality to adequately address the objectives of the sampling event. All observations and measurements will be made and recorded in such a manner as to yield results representative of the media and conditions observed and/or measured. Goals for representativeness will be met by verifying that sampling locations are selected properly, that a sufficient number of samples are collected, and that field screening and laboratory analyses are conducted properly.

The quality of the laboratory data will be assessed by precision, accuracy, representativeness, completeness, comparability, and sensitivity. Definitions of these parameters and the applicable QC procedures are described in the following sections. Quantitative DQOs are provided following each definition. Laboratory DQOs have been established by the analytical laboratory. Applicable quantitative goals for these DQOs are listed in Table A-3.

5.1 PRECISION

Precision measures the reproducibility of measurements under a given set of conditions. Specifically, it is a quantitative measure of the variability of two or more measurements compared to their average values. Precision is calculated from results of duplicate sample analyses. Precision is quantitatively expressed as the relative percent difference (RPD) and is calculated as follows:

$$RPD = \frac{(C_1 - C_2)}{(C_1 + C_2)/2} \times 100$$

Where:

RPD = relative percent difference

C₁ = larger of the two duplicate results (i.e., the highest detected concentration)

C₂ = smaller of the two duplicate results (i.e., the lowest detected concentration)

There are no specific RPD criteria for organic chemical analyses. Quantitative RPD criteria for organic analyses will be based on laboratory-derived control limits.

5.2 ACCURACY

Accuracy is a measure of the closeness (bias) of the measured value to the true value. The accuracy of chemical analytical results is assessed by “spiking” samples in the laboratory with known standards (a surrogate or matrix spike (MS) of known concentration) and determining the percent recovery. The accuracy is measured as the percent recovery (%R) and is calculated as follows:

$$\%R = \frac{(M_{sa} - M_{ua})}{C_{sa}} \times 100$$

Where:

%R = percent recovery

C_{sa} = actual concentration of spike added

M_{sa} = measured concentration in spiked aliquot

M_{ua} = measured concentration in unspiked aliquot

Laboratory MSs and surrogates will be carried out at the analytical laboratory in accordance with EPA Method TO-15. The frequency of MSs and matrix spike duplicates (MSDs) will each be one per batch of 20 samples or less for air samples. Quantitative percent recovery criteria for organic analyses will be based on laboratory-derived control limits for surrogate recovery and MS results.

The accuracy of sample results can also be affected by the introduction of contaminants to the sample during collection, handling, or analysis. Contamination of the sample can occur because of improperly cleaned sampling equipment, exposing samples to chemical concentrations in the field or during transport to the laboratory, or because of chemical concentrations in the laboratory. To demonstrate that the samples collected are not contaminated, laboratory method blank samples will be analyzed. The laboratory will run method blanks at a minimum frequency of 5 percent or one per batch to assess potential contamination of the sample within the laboratory.

5.3 REPRESENTATIVENESS

Representativeness is a qualitative assessment of how closely the measured results reflect the actual concentration or distribution of the constituent concentrations in the matrix sampled. The sampling plan design, sample collection techniques, sample handling protocols, sample analysis methods, and data review procedures have been developed to verify that the results obtained are representative of the Site conditions. These issues are addressed in detail in Section 4.0, Analytical Testing and Section 7.0, Quality Control Procedures.

5.4 COMPLETENESS

Completeness is defined as the percentage of measurements judged to be valid. Results will be considered valid if they are not rejected during data validation (Section 7.0, Quality Control Procedures). Completeness is calculated as follows:

$$\% \text{ Completeness} = \frac{x}{y} \times 100$$

Where:

x = amount of valid data obtained

y = amount of data expected to be obtained

Objectives for completeness are based, in part, on the subsequent uses of the data (i.e., the more critical the use, the greater the completeness objective). The objectives for completeness of samples are expressed as percentages, which refer to the minimum acceptable percentages of samples received at the laboratory in good condition and acceptable for analysis. The objectives of completeness for other samples are 95 percent for soil, water, and air samples. These objectives will be met through the use of proper sample containers, proper sample packaging procedures to prevent breakage during shipment, proper sample preservation, and proper labeling and chain-of-custody procedures. A loss of 5 to 10 percent of intended samples is common, and the goals set are sufficient for intended data uses.

The objectives for completeness of chemical analyses are also expressed as percentages and refer to the percentages of analytical requests for which usable analytical data are produced. The initial objective for completeness of chemical analyses in the laboratory is 95 percent.

5.5 COMPARABILITY

Comparability is a qualitative parameter expressing the confidence with which one data set can be compared with another. The use of standard Ecology and EPA methods and procedures for both sample collection and laboratory analysis will make the data collected comparable to both internal and other data generated.

5.6 SENSITIVITY

Analytical sensitivities are measured by PQLs, which are defined as the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. PQLs are determined by the laboratory. The specific analytes and their corresponding PQLs that will be required are presented in Table A-2. The detection or reporting limits for actual samples may be higher depending on the sample matrix and laboratory dilution factors.

6.0 DATA COLLECTION

This section outlines the procedures to be followed for the inventory, control, storage, and retrieval of data collected during performance of the sampling event. The procedures contained in this QAPP are designed to verify that the integrity of the collected data is maintained for subsequent use. Moreover, project-tracking data (e.g., schedules and progress reports) will be maintained to monitor, manage, and document the progress of the interim action.

6.1 DATA COLLECTION APPROACH

All sampling protocols will be performed in accordance with generally accepted environmental practices and will meet or exceed current regulatory standards and guidelines. Sampling procedures may be modified, if necessary, to satisfy amendments to current regulations, methods, or guidelines. The data collection approach for key elements field program will verify the project DQOs are met or exceeded. The key elements include indoor air samples collected and analytical results used to demonstrate that the concentrations of chemicals of concern in the indoor air of Janke Property building are below applicable cleanup levels as defined in the Vapor Intrusion Assessment SAP. The total number of samples collected and specific analyses to be performed will be based on field screening results, field observations, and analytical results for performance and confirmational monitoring.

6.2 DATA TYPES

A variety of data will be generated during the sampling event, including sampling and analytical data. The laboratory analytical data will be transmitted to SoundEarth as an electronic file, in addition to a hard copy laboratory data report. This method will facilitate the subsequent validation and analysis of these data while avoiding transcription errors that may occur with computer data entry. Examples of data types include manually recorded field data and electronically reported laboratory data.

6.3 DATA TRANSFER

Procedures controlling the receipt and distribution of incoming data packages to SoundEarth and outgoing data reports from SoundEarth include the following:

- Incoming documents will be stamped with the date and filed. Correspondence and transmittal letters for all reports, maps, and data will be filed chronologically. Data packages, such as those from field personnel, laboratories (such as soil data), and surveyors (elevation data), will be filed by project task, subject heading, and date. If distribution is required, the appropriate number of copies will be made and distributed to the appropriate persons or agencies.
- A transmittal sheet will be attached to all project data and reports sent out. A copy of each transmittal sheet will be kept in the administrative file and the project file. The Project Manager and Project QA/QC Officer will review all outgoing reports and maps.

6.4 DATA INVENTORY

Procedures for filing, storage, and retrieval of project data and reports are discussed below.

6.4.1 Document Filing and Storage

As previously discussed, project files and raw data files will be maintained at SoundEarth's office. Files will be organized by project tasks or subject heading and maintained by the document control clerk. Hard copy project files will be archived for a minimum of 3 years after completion of the project. Electronic copies of files will be maintained in a project directory and backed up daily, weekly, and monthly.

6.4.2 Access to Project Files

Access to project files will be controlled and limited to The Hearthstone and its authorized representatives, Ecology, and SoundEarth personnel. When a hard copy file is removed for use, a sign-out procedure will be used to track custody. If a document is to be used for a long period, a

copy will be used, and the original will be returned to the project file. Electronic access to final reports, figures, and tables will be write protected in the project directory.

6.5 DATA VALIDATION

Data quality review will be performed where applicable in accordance with the current EPA guidance as set forth in *Guidance on Environmental Data Verification and Data Validation*, Publication No. QA/G-8, dated November 2002. The following types of QC information will be reviewed, as appropriate:

- Method deviations
- Sample extraction and holding times
- Method reporting limits
- Blank samples (equipment rinsate and laboratory method)
- Duplicate samples
- MS/MSD samples (accuracy)
- Surrogate recoveries
- Percent completeness and RPD (precision)
- A quality assurance review of the final analytical data packages for samples collected during the sampling event

6.6 DATA REDUCTION AND ANALYSIS

The Project Manager is responsible for data review and validation. Data validation parameters are outlined as quantitative DQOs in Section 5.0, Data Quality Objectives. The particular type of analyses and presentation method selected for any given data set will depend on the type, quantity, quality, and prospective use of the data in question. The analysis of the project data will require data reduction for the preparation of tables, charts, and maps. To verify that data are accurately transferred during the reduction process, two data reviews will be performed, one by the Project QA/QC Officer or Project Manager and another by the Project Principal, prior to issuing the documents. Any incorrect transfers of data will be highlighted and changed.

7.0 QUALITY CONTROL PROCEDURES

This section provides a description of the QC procedures for both field activities and laboratory analysis. The field QC procedures include standard operating procedures for sample collection and handling, equipment calibration, and field QC samples.

7.1 FIELD QUALITY CONTROL

Field QC samples are not currently planned for indoor air sampling.

7.2 LABORATORY QUALITY CONTROL

Analytical laboratory QA/QC procedures are provided in F&B's *Laboratory Quality Assurance Manual* and summarized below:

- **Laboratory Quality Control Criteria.** Results of the QC samples from each sample group will be reviewed by the analyst immediately after a sample group has been analyzed. The QC sample results will then be evaluated to determine whether control limits were exceeded. If control limits are exceeded in the sample group, corrective action (e.g., method modifications followed by reprocessing the affected samples) will be initiated prior to processing a subsequent group of samples. All primary chemical standards and standard solutions used in this project will be traceable to documented and reliable commercial sources. Standards will be validated to determine their accuracy by comparison with an independent standard. Any impurities identified in the standard will be documented.

The following paragraphs summarize the procedures that will be used to assess data quality throughout sample analysis:

- **Laboratory Duplicates.** Analytical duplicates provide information on the precision of the analysis and are useful in assessing potential sample heterogeneity and matrix effects. Analytical duplicates are subsamples of the original sample that are prepared and analyzed as a separate sample. A minimum of one duplicate will be analyzed per sample group or for every 20 samples, whichever is more frequent.
- **Matrix Spikes and Matrix Spike Duplicates.** Analysis of MS samples provides information on the extraction efficiency of the method on the sample matrix. By performing MSD analyses, information on the precision of the method is also provided for organic analyses. A minimum of one MS/MSD will be analyzed for every sample group or for every 20 samples, whichever is more frequent.
- **Laboratory Control Samples.** A laboratory control sample is a method blank sample carried throughout the same process as the samples to be analyzed, with a known amount of standard added. The blank spike compound recovery assesses analytical accuracy in the absence of any sample heterogeneity or matrix effects.
- **Surrogate Spikes.** All project samples analyzed for organic compounds will be spiked with appropriate surrogate compounds as defined in the analytical methods. Surrogate recoveries will be reported by the laboratories; however, no sample result will be corrected for recovery using these values.
- **Method Blanks.** Method blanks are analyzed to assess possible laboratory contamination at all stages of sample preparation and analysis. A minimum of one method blank will be analyzed for every extraction batch or for every 20 samples, whichever is more frequent.

7.3 DATA QUALITY CONTROL

All data generated by F&B will undergo two levels of QA/QC evaluation: one by the laboratory and one by SoundEarth. As specified in F&B's *Laboratory Quality Assurance Manual*, the laboratory will perform initial data reduction, evaluation, and reporting. The analytical data will then be validated at SoundEarth under the supervision of the Project QA/QC Officer. The following types of QC information will be reviewed, as appropriate:

- Method deviations
- Sample transport conditions (temperature and integrity)
- Sample extraction and holding times

- Method reporting limits
- Blank samples
- Duplicate samples
- Surrogate recoveries
- Percent completeness
- RPD (precision)

SoundEarth will review field records and results of field observations and measurements to verify procedures were properly performed and documented. The review of field procedures will include:

- Completeness and legibility of field logs
- Preparation and frequency of field QC samples
- Equipment calibration and maintenance
- Completion of Sample Chain of Custody forms

Corrective actions are described in Section 8.0, Corrective Actions.

7.4 DATA ASSESSMENT PROCEDURES

The Project Manager and Project QA/QC Officer are responsible for data review and validation. Upon receipt of each data package from the laboratory, calculations using the equations presented for precision, accuracy, and completeness will be performed. Results will be compared to quantitative DQOs, where established, or qualitative DQOs. Data validation parameters are outlined in Section 5.0, Data Quality Objectives.

7.5 PERFORMANCE AUDITS

Performance audits will be completed for both sampling and analysis work. Field performance will be monitored through regular review of Sample Chain of Custody forms, field forms, and field measurements. The Project Manager and/or the Project QA/QC Officer may also perform periodic review of work conducted.

Accreditation received from Ecology for each analysis by F&B demonstrates the laboratory's ability to properly perform the requested methods. Therefore, a system audit of the analytical laboratory during the course of this sampling event will not be conducted.

The Project Manager and/or Project QA/QC Officer will oversee communication with the analytical laboratory on a frequent basis while samples are being processed and analyzed at the laboratory. This will allow SoundEarth to assess progress toward meeting the DQOs and to take corrective measures if problems arise.

The analytical laboratory will be responsible for identifying and correcting, as appropriate, any deviations from performance standards as discussed in F&B's *Laboratory Quality Assurance Manual*. The laboratory will communicate to the Project Manager or the Project QA/QC Officer all deviations to the performance

standards and the appropriate corrective measures made during sample analysis. Corrective actions are discussed in Section 8.0.

8.0 CORRECTIVE ACTIONS

Corrective actions will be the joint responsibility of the Project Manager and the Project QA/QC Officer. Corrective procedures can include the following:

- Identifying the source of the violation.
- Reanalyzing samples, if holding time criteria permit.
- Resampling and analyzing.
- Remeasuring parameters.
- Evaluating and amending sampling and analytical procedures.
- Qualifying data to indicate the level of uncertainty.

During field sampling operations, the Project Manager and field staff will be responsible for identifying and correcting protocols that may compromise the quality of the data. All corrective actions taken will be documented in the field notes.

9.0 DOCUMENTATION AND RECORDS

Project files and raw data files will be maintained at SoundEarth's office. Project records will be stored and maintained in a secure manner. Each project team member is responsible for filing all necessary project information or providing it to the person responsible for the filing system. Individual team members may maintain files for individual tasks, but must provide such files to the central project files upon completion of each task. A project-specific index of file contents will be kept with the project files. Hard copy documents will be kept on file at SoundEarth or at a document storage facility throughout the duration of the project, and all electronic data will be maintained in the database at SoundEarth. All sampling data will be submitted to Ecology in both printed and electronic formats pursuant to Section 840(5) of Chapter 173-340 of the Washington Administrative Code [WAC 173-340-840(5)] and Ecology's Toxics Cleanup Program Policy 840 (Data Submittal Requirements).

9.1 FIELD DOCUMENTATION

Field forms will be scanned and saved to an electronic project folder. Original and copied forms will be filed in a binder that will be maintained by the Project Manager.

Field personnel will be required to keep a daily field log on a Field Report form. Field notes will be as descriptive and as inclusive as possible, allowing independent parties to reconstruct the sampling situation from the recorded information. Language will be objective, factual, and free of inappropriate terminology. A summary of each day's events will be completed on a Field Report form. At a minimum, field documentation will include the date, job number, project identification and location, weather conditions, sample collection data, personnel present and responsibilities, field equipment used, and activities performed in a manner other than specified in the QAPP. In addition, if other forms are completed or used (e.g., Sample Chain of Custody form), they will be referred to in and attached to the Field Report form. Field personnel will sign the Field Report form.

9.2 ANALYTICAL RECORDS

Analytical data records will be retained by the laboratory and stored electronically in the SoundEarth project file and project database. For all analyses, the data reporting requirements will include those items necessary to complete data validation, including copies of all raw data. The analytical laboratory will be required to report the following, as applicable: project narrative, chain-of-custody records, sample results, QA/QC summaries, calibration data summary, method blank analysis, surrogate spike recovery, MS recovery, matrix duplicate, and laboratory control sample(s).

10.0 HEALTH AND SAFETY PROCEDURES

Field personnel will adhere to health and safety procedures that detailed in a project-specific Health and Safety Plan (HASP). The health and safety and emergency response protocols outlined in the HASP are designed to ensure compliance with state and federal regulations governing worker safety on hazardous waste sites. The Department of Labor has published final rules (Part 1910.120 of Title 29 of the Code of Federal Regulations) that amend the existing Occupational Safety and Health Administration standards for hazardous waste operations and emergency response. Within Washington State, these requirements are addressed in WAC 296-843, Hazardous Waste Operations. These regulations apply to the activities to be performed at this Site as a site remediation, or cleanup, under Resource Conservation and Recovery Act 1976 and/or Washington State Model Toxics Control Act.

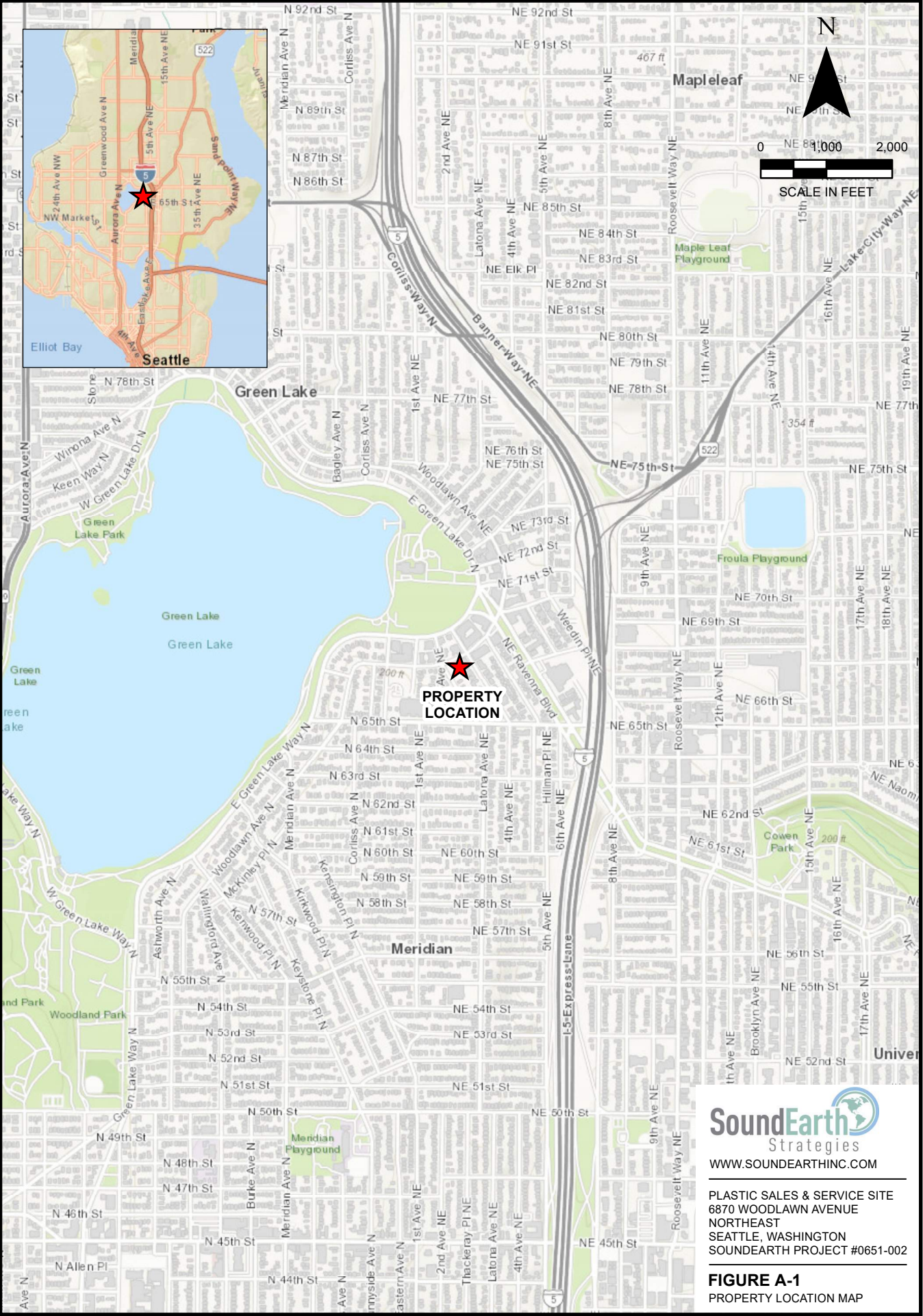
The responsibilities of SoundEarth for safety on this Site are limited to the following:

- Implementation of the provisions of this HASP for the protection of its employees and visitors on the Site to the extent that the Site and its hazards are under the control of SoundEarth.
- Protection of the Site, other personnel, and the public from damage, injury, or illness as a result of the activities of SoundEarth and its employees while on the Site.
- Provision of additional safety-related advice and/or management as contractually determined between the parties.

It is anticipated that all field work will be performed during the sampling event in Level D personal protective equipment. Potential hazards that may be encountered during the field activities include exposure to contaminants; traffic/mobile equipment; process hazards; unstable ground; noise exposure; overhead and underground utilities; slips, trips, and falls; and exposure to weather conditions.

FIGURE

P:\0651 HEARTHSTONE\0651-002 HEARTHSTONE - WOODLAWN EAST\TECHNICAL\CAD\FIGURE_10651-002_FIG1.MXD



PROPERTY LOCATION

SoundEarth
Strategies
WWW.SOUNDEARTHINC.COM

PLASTIC SALES & SERVICE SITE
6870 WOODLAWN AVENUE
NORTHEAST
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #0651-002

FIGURE A-1
PROPERTY LOCATION MAP

TABLES



Table A-1
Analytical Methods, Container, Preservation, and Holding Time Requirements
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

| Analyte and Analytical Method | Size and Type of Container | Number of Containers | Preservation Requirements | Holding Time |
|---|----------------------------|----------------------|---------------------------|--------------|
| Sub-Slab Soil Gas Samples | | | | |
| CVOCs by EPA Method TO-15 | 1-L SUMMA Canister | 1 | -- | 30 days |
| Helium by Method ASTM D1946 | | | | |
| Radon-222 by alpha scintillation counting | Tedlar Bag | 1 | -- | 4 days |
| Indoor Air Samples | | | | |
| CVOCs by EPA Method TO-15 | 6-L SUMMA Canister | 1 | -- | 30 days |
| Radon-222 by alpha scintillation counting | Tedlar Bag | 1 | -- | 4 days |

NOTES:

-- = not applicable

CVOC = chlorinated volatile compound

EPA = US Environmental Protection Agency

L = liter



**Table A-2
Practical Quantitation Limits and
MTCA Cleanup Levels
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington**

| Analyte | Analytical Method | Unit | Laboratory PQLs ⁽¹⁾ | MTCA Soil Gas Screening Levels for Commercial Workers (µg/m ³) | MTCA Indoor Air Screening Levels for Commercial Workers (µg/m ³) |
|----------------------------|------------------------------|-------------------|--------------------------------|--|--|
| Sub-Slab Soil Gas | | | | | |
| Tetrachloroethylene | EPA Method TO-15 | µg/m ³ | <6.8 | 1,500 ⁽²⁾ | 45 ⁽⁴⁾ |
| Trichloroethylene | | | <0.11 | 95 ⁽²⁾ | 2.9 ⁽⁴⁾ |
| cis-1,2-Dichloroethylene | | | <0.4 | 5,200 ⁽³⁾ | 156 ⁽⁵⁾ |
| trans-1,2-Dichloroethylene | | | <0.4 | 5,200 ⁽³⁾ | 156 ⁽⁵⁾ |
| Vinyl Chloride | | | <0.26 | 44 ⁽²⁾ | 1.3 ⁽⁴⁾ |
| Helium | Method ASTM D1946 | % | <0.6 | -- | -- |
| Radon-222 | Alpha scintillation counting | pCi/L | <0.14 | -- | -- |
| Indoor Air | | | | | |
| Tetrachloroethylene | EPA Method TO-15 | µg/m ³ | <6.8 | 1,500 ⁽²⁾ | 45 ⁽⁴⁾ |
| Trichloroethylene | | | <0.11 | 95 ⁽²⁾ | 2.9 ⁽⁴⁾ |
| cis-1,2-Dichloroethylene | | | <0.4 | 5,200 ⁽³⁾ | 156 ⁽⁵⁾ |
| trans-1,2-Dichloroethylene | | | <0.4 | 5,200 ⁽³⁾ | 156 ⁽⁵⁾ |
| Vinyl Chloride | | | <0.26 | 44 ⁽²⁾ | 1.3 ⁽⁴⁾ |
| Radon-222 | Alpha scintillation counting | pCi/L | <0.14 | -- | -- |

NOTES:

⁽¹⁾Standard PQLs for Friedman & Bruya, Inc. and University of Southern California Earth Sciences Department

⁽²⁾Vapor Intrusion Screening Level for Commercial Worker, CLARC, Soil Gas Screening Level, Cancer, updated in July 2022, CLARC Website <<https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>>.

⁽³⁾Vapor Intrusion Screening Level for Commercial Worker, CLARC, Soil Gas Screening Level, Noncancer, updated in July 2022, CLARC Website <<https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>>.

⁽⁴⁾Vapor Intrusion Screening Level for Commercial Worker, CLARC, Indoor Air Screening Level, Cancer, updated in July 2022, CLARC Website <<https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>>.

⁽⁵⁾Vapor Intrusion Screening Level for Commercial Worker, CLARC, Indoor Air Screening Level, Noncancer, updated in July 2022, CLARC Website <<https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>>.

-- = not established

µg/m³ = micrograms per cubic meter

CLARC = Cleanup Levels and Risk Calculations

EPA = US Environmental Protection Agency

MTCA = Washington State Model Toxics Control Act

pCi/L = picocuries per liter

PQL = practical quantitation limit



Table A-3
Quantitative Goals of Data Quality Objectives
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

| Analyte | Analytical Method | Precision ⁽¹⁾ | Accuracy ⁽²⁾ | | | Completeness ⁽³⁾ (%) | Sensitivity ⁽⁴⁾ |
|---|-------------------|--------------------------|---------------------------|--------------------|---------------------|------------------------------------|----------------------------|
| | | RPD (%) | Surrogate (% Recovery) | MS (% Recovery) | LCS (% Recovery) | | PQL ⁽⁵⁾ |
| Sub-Slab Soil Gas and Indoor Air | | | | | | | |
| Tetrachloroethylene | EPA Method TO-15 | 30 | 70-130 | n/a | 70-130 | 95 | <6.8 |
| Trichloroethylene | | 30 | 70-130 | n/a | 70-130 | 95 | <0.11 |
| cis-1,2-Dichloroethylene | | 30 | 70-130 | n/a | 70-130 | 95 | <0.4 |
| trans-1,2-Dichloroethylene | | 30 | 70-130 | n/a | 70-130 | 95 | <0.4 |
| Vinyl Chloride | | 30 | 70-130 | n/a | 70-130 | 95 | <0.26 |

NOTES:

- ⁽¹⁾Precision measured in RPD between sample and lab duplicate, LCS and LCS duplicate, and/or MS and MS duplicate.
- ⁽²⁾Laboratory to follow in accordance with the EPA SW-846 and Ecology methods and procedures for inorganic and organic chemical analyses. Method Blanks will be analyzed for each analyte in addition to the quantitative data quality objectives listed in this table.
- ⁽³⁾Refers to the minimum acceptable percentages of samples received at the laboratory in good condition that are acceptable for analysis.
- ⁽⁴⁾Sensitivity is measured by the laboratory PQL for each analyte.
- ⁽⁵⁾Standard PQLs for Friedman & Bruya, Inc.

- < = less than
- Ecology = Washington State Department of Ecology
- EPA = US Environmental Protection Agency
- LCS = laboratory control sample
- n/a = not applicable
- MS = matrix spike
- PQL = practical quantitation limit
- RPD = relative percent difference

ATTACHMENT A
FIELD FORMS



Air Sample Collection Log

| | | | |
|------------------------|--|-----------------------------|--|
| | | Sample ID: | |
| Client: | | Outdoor/Indoor: | |
| Project: | | Sample Intake Height: | |
| Project No: | | Tubing Information: | |
| Project Location: | | Miscellaneous Equipment: | |
| Sampler: | | Time On/Off: | |
| Sample Point Location: | | Lab Subcontractor/Analyses: | |

Readings:

| Date | Time | Cannister Vacuum (in. Hg.) | Temp (°F) | Relative Humidity (%) | Wind Speed (mph) | Wind Direction (from) | Barometric Pressure (in. Hg) | PID (ppb) |
|------|------|----------------------------|-----------|-----------------------|------------------|-----------------------|------------------------------|-----------|
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Record canister information at the beginning and end of sampling, at a minimum.

SUMMA Canister Information:

| | | | |
|---------------------|--------|----|----|
| Size (circle one): | 400 mL | 1L | 6L |
| Canister ID: | | | |
| Flow Controller ID: | | | |
| Notes: | | | |

SAMPLE CHAIN OF CUSTODY

Report To _____
 Company _____
 Address _____
 City, State, ZIP _____
 Phone _____ Email _____

| | |
|-----------------------------|------------|
| SAMPLERS <i>(signature)</i> | |
| PROJECT NAME & ADDRESS | PO # |
| NOTES: | INVOICE TO |

Page # _____ of _____

| |
|---|
| TURNAROUND TIME |
| Standard _____ RUSH _____ Rush charges authorized by: _____ |
| SAMPLE DISPOSAL Default: Clean after 3 days Archive (Fee may apply) |

| SAMPLE INFORMATION | | | | | | | | | | | ANALYSIS REQUESTED | | | | | Notes |
|--------------------|--------|-------------|---------------|--|--------------|--------------------|--------------------|------------------|------------------|----------------|--------------------|------------|-----|--------|--|-------|
| Sample Name | Lab ID | Canister ID | Flow Cont. ID | Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One) | Date Sampled | Initial Vac. ("Hg) | Field Initial Time | Final Vac. ("Hg) | Field Final Time | TO15 Full Scan | TO15 BTEXN | TO15 cVOCs | APH | Helium | | |
| | | | | IA / SG | | | | | | | | | | | | |
| | | | | IA / SG | | | | | | | | | | | | |
| | | | | IA / SG | | | | | | | | | | | | |
| | | | | IA / SG | | | | | | | | | | | | |
| | | | | IA / SG | | | | | | | | | | | | |
| | | | | IA / SG | | | | | | | | | | | | |
| | | | | IA / SG | | | | | | | | | | | | |
| | | | | IA / SG | | | | | | | | | | | | |

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|------------------|------------|---------|------|------|
| Relinquished by: | | | | |
| Received by: | | | | |
| Relinquished by: | | | | |
| Received by: | | | | |

Client: _____

Site Name/Number: _____

Project No.: _____

Date: _____

Page 2 of _____

A series of horizontal dashed lines for data entry.

APPENDIX B
FOURTH QUARTER 2022 PROGRESS REPORT



SoundEarth Strategies, Inc.
2811 Fairview Avenue East, Suite 2000
Seattle, Washington 98102

M E M O R A N D U M

TO: Sunny Becker, Washington State Department of Ecology,
Northwest Regional Office **DATE:** December 28, 2022

FROM: Thomas Cammarata, LG, LHG, SoundEarth Strategies, Inc.

SUBJECT: **Fourth Quarter 2022 Progress Report**
Plastic Sales and Services Site
6870 Woodlawn Avenue Northeast, Seattle, Washington
Project No.: 0651-002

SoundEarth Strategies, Inc. (SoundEarth) has prepared this progress report memorandum to summarize activities completed during the fourth quarter of 2022 at the Plastic Sales and Services Site (the Site), Cleanup Site ID: 2074, which encompasses the property located at 6870 Woodlawn Avenue Northeast in Seattle, Washington (the Property). The Site is defined by the extent of contamination caused by the releases of hazardous substances at the former dry cleaning facility located on the Property and includes:

- The Dry Cleaner Building property
- The property adjoining the Dry Cleaner Building to the north, located at 6869 Woodlawn Avenue Northeast (north-adjoining property)
- The property adjoining the Dry Cleaner Building to the south, located at 6565 4th Avenue Northeast
- The property adjoining the Dry Cleaner Building to the west, located at 6850 Woodlawn Avenue Northeast
- Portions of the western alley (the alley) and Woodlawn Avenue Northeast and 4th Avenue Northeast rights-of-way (Woodlawn Ave ROW and 4th Ave ROW, respectively)

The work summarized below was conducted under Agreed Order No. DE 7084 between the Washington State Department of Ecology (Ecology) and The Lutheran Retirement Home of Greater Seattle (i.e., Hearthstone).

SITE ACTIVITIES: FOURTH QUARTER 2022

The following sections summarize activities completed at the Site during the fourth quarter of 2022.

Groundwater Monitoring Well Installation

SoundEarth installed three pairs of groundwater monitoring wells in the 4th Ave ROW, designated as monitoring wells MW32 through MW37. The locations of the monitoring wells are shown on Figures 1 and 2. The monitoring pairs were screened from 15 to 25 feet and 35 to 45 feet below ground surface (bgs). Groundwater sample collection and monitoring and sampling results from the newly installed monitoring wells are discussed below.

Groundwater Monitoring and Sampling

Groundwater monitoring and sampling at the Site occurred between November 14 and 17, 2022. Groundwater levels at each well in the monitoring well network were measured. Groundwater elevations are presented in Table 1. Tables 2 through 5 summarize the current and past analytical results for chlorinated volatile organic compounds (CVOCs), natural attenuation parameters, geochemical parameters, and volatile fatty acids of the groundwater samples. Fourth quarter groundwater samples were not analyzed for natural attenuation parameters and volatile fatty acids because only groundwater samples collected in the second quarter of each year are analyzed for these parameters.

Groundwater samples were collected from the following water-bearing zone monitoring wells:

- Shallow water-bearing zone: monitoring wells MW01 through MW03, MW05, MW06, MW15, MW21, MW24 through MW28, MW30, MW32, MW34, and MW36 and injection wells IW08, IW16, IW21, IW31, IW33, IW57, IW59, and IW61
- Deep water-bearing zone: monitoring wells MW08 through MW10, MW22, MW29, MW31, MW33, MW35, and MW37 and injection wells IW07, IW15, IW22, IW32, IW34, and IW60

All groundwater samples were analyzed for the following analytes:

- CVOCs by US Environmental Protection Agency (EPA) Method 8260B/C

Geochemical field parameters at each monitoring well sampled were measured using a YSI inline flow cell.

DATA AND DESCRIPTIONS OF SAMPLES COLLECTED

Presented below are the groundwater monitoring and sampling results from the fourth quarter of 2022.

Shallow Water-Bearing Zone

Based on groundwater elevations measured at monitoring or injection wells screened in the shallow water-bearing zone, groundwater flows in a radial pattern toward the Property at the Woodlawn Ave ROW, in the 4th Ave ROW south of the intersection of the Woodlawn and 4th Ave ROWs, and from the alley that bisects the Property. The radial pattern results from the permanent sub-slab drainage system installed in the footprint of the Property development. With the addition of new shallow groundwater monitoring wells in the 4th Ave ROW, the shallow groundwater flow direction north of the intersection of Woodlawn and 4th Ave ROWs is northeast. The groundwater gradient in the shallow water-bearing zone ranges from 0.014 to 0.127 feet per feet. The groundwater flow direction and gradient in the shallow water-bearing zone are similar to what has been observed in previous groundwater monitoring events with the exception of the shallow groundwater flow north of the intersection of the Woodlawn and 4th Ave ROWs. The fourth quarter 2022 groundwater elevation contour map for the shallow water-bearing zone and the analytical results of groundwater samples collected that contain CVOCs at concentrations exceeding applicable cleanup levels for groundwater are shown on Figure 1.

Deep Water-Bearing Zone

Groundwater in the deep water-bearing zone flows to the northeast. The groundwater gradient in the deep water-bearing zone is 0.028 feet per feet. The groundwater flow direction and gradient in the deep water-bearing zone are similar to what has been observed in previous groundwater monitoring events. The fourth quarter 2022 groundwater elevation contour map for the deep water-bearing zone and the

analytical results of groundwater samples collected that contain CVOCs at concentrations exceeding cleanup levels for groundwater are shown on Figure 2.

TEMPORAL ANALYSIS OF GROUNDWATER ANALYTICAL RESULTS

SoundEarth performed temporal analysis for monitoring or injection wells where CVOCs were detected at concentrations exceeding MTCA cleanup levels in the fourth quarter of 2022 and for which at least three groundwater sampling events have been performed. Groundwater cleanup levels are presented in Table 2.

The current footprints of shallow and deep water-bearing zone plumes are shown on Figures 1 and 2. The temporal analyses were performed using Ecology's *Guidance on Remediation of Petroleum-Contaminated Groundwater by Natural Attenuation* dated July 2005 (Module 2). The trend analyses are presented in Attachment A. The results of the temporal analyses are as follows.

Shallow Water-Bearing Zone

- IW16: The concentration of vinyl chloride (VC) is decreasing with time in groundwater at injection well IW16. Tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), and trans-1,2-dichloroethene (trans-1,2-DCE) were detected at concentrations below applicable cleanup levels for groundwater.
- IW21: The concentration of VC is decreasing with time in groundwater at injection well IW21. PCE, TCE, cis-1,2-DCE, and trans-1,2-DCE were detected at concentrations below applicable cleanup levels for groundwater.
- IW59: The concentrations of cis-1,2-DCE and VC are increasing with time in groundwater at injection well IW59. PCE, TCE, and trans-1,2-DCE are below applicable cleanup levels for groundwater.
- MW03: The concentration of VC is decreasing with time in groundwater at monitoring well MW03. PCE, TCE, cis-1,2-DCE, and trans-1,2-DCE were detected at concentrations below applicable cleanup levels for groundwater.
- MW05: The concentration of VC is currently stable in groundwater at monitoring well MW05. PCE, TCE, cis-1,2-DCE, and trans-1,2-DCE were detected at concentrations below applicable cleanup levels for groundwater.
- MW06: The concentrations of TCE, cis-1,2-DCE, and VC are decreasing with time in groundwater at monitoring well MW06. PCE and trans-1,2-DCE were detected at concentrations below applicable cleanup levels for groundwater.
- MW24: The temporal trend for VC in groundwater at monitoring well MW24 is currently undeterminable. PCE, TCE, cis-1,2-DCE, and trans-1,2-DCE are below applicable cleanup levels for groundwater.
- MW28: The temporal trends for PCE and TCE in groundwater at monitoring well MW28 are currently undeterminable, but temporal trends for cis-1,2-DCE and VC are stable. Trans-1,2-DCE was detected at a concentration below the cleanup level for groundwater.

In groundwater from the shallow water-bearing zone, the trend for CVOCs is declining over time, stable, or undeterminable, with the exception of the trend for VC in groundwater from injection

well IW59, which is increasing with time. Injection well IW59 is located at the source area at the Property. Currently, the shallow water-bearing zone CVOC plume is confined to the Property and the Woodlawn and 4th Ave ROWs.

Deep Water-Bearing Zone

- IW07: The concentration of VC is increasing with time in groundwater at injection well IW07. PCE, TCE, cis-1,2-DCE, and trans-1,2-DCE were detected at concentrations below applicable cleanup levels for groundwater.
- IW15: The concentration of cis-1,2 DCE is increasing with time in injection well IW15, and VC is currently stable. PCE, TCE, and trans-1,2-DCE were detected at concentrations below applicable cleanup levels for groundwater.
- IW22: The concentrations of cis-1,2 DCE and VC are increasing with time in injection well IW22. PCE, TCE, and trans-1,2-DCE were detected at concentrations below applicable cleanup levels for groundwater.
- IW-32: In groundwater at injection well IW-32, the concentrations of PCE, cis-1,2-DCE, and trans-1,2-DCE are stable or temporal trends are undeterminable. The concentration of TCE is currently decreasing with time; and concentration of VC is increasing with time.
- IW-34: In groundwater at injection well IW-34, the concentration of PCE is decreasing with time; the temporal trend for TCE is undeterminable; and concentrations of cis-1,2 DCE, trans 1,2-dichloroethene, and VC are currently increasing with time.
- MW09: The concentration of PCE is increasing with time in groundwater at monitoring well MW09. TCE, cis-1,2 DCE, trans-1,2-dichloroethene, and VC were detected at concentrations below applicable cleanup levels for groundwater.
- MW10: In groundwater at monitoring well MW10, The concentrations of PCE, TCE, and cis-1,2-DCE are increasing with time, while the concentration of VC is currently stable. The compound trans-1,2-DCE was detected at a concentration below the cleanup level for groundwater.
- MW31: In groundwater at monitoring well MW31, the concentrations of PCE and TCE are decreasing with time. The concentrations of cis-1,2-DCE and VC are stable and increasing with time, respectively.

In general, temporal analysis indicates that PCE, TCE, cis-1,2-DCE, and VC plumes are expanding in the deep water-bearing zone. Based on analytical results for groundwater samples collected from newly installed monitoring wells MW33 and MW35, the CVOC groundwater plume in the deep water-bearing zone is now present in the 4th Ave ROW north of the intersection with the Woodlawn Ave ROW. Based on analytical results for groundwater samples collected from newly installed monitoring well MW37, the downgradient edge of the CVOC plume is located between monitoring wells MW35 and MW37. The current footprint of the CVOC plume in the deep water-bearing zone is shown on Figure 2.

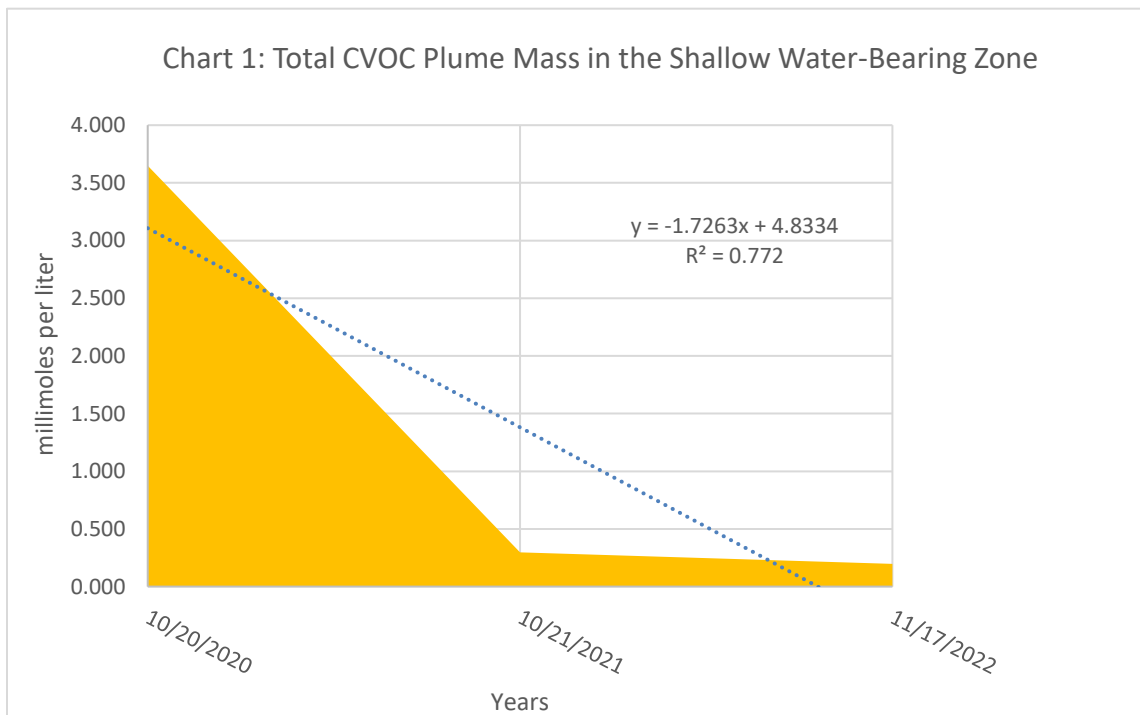
ANALYSIS OF THE GROUNDWATER REMEDY

The groundwater remedy for the Site was implemented in 2019 and includes the use of enhanced reductive dichlorination (ERD) to remediate CVOCs in the shallow and deep water-bearing zones. ERD

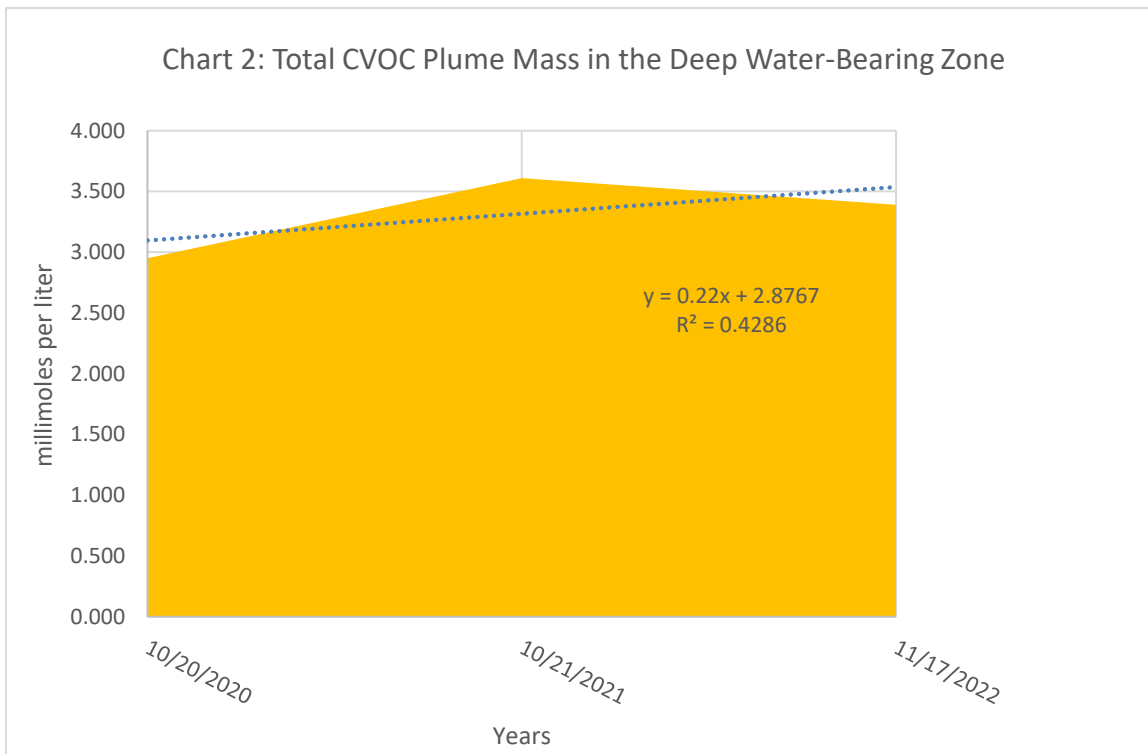
injection events included injecting edible oil substrate (EOS) into 23 shallow injection wells and 45 deep injection wells installed on the Property and in the Woodlawn Ave ROW, the 4th Ave ROW, and the alley.

To evaluate the effectiveness of the remedy to date, SoundEarth calculated the change in total CVOC plume mass (molar concentrations) with time for the shallow and deep water-bearing zones. The analysis does not include calculations for results from the newly installed monitoring wells MW32 to MW37, because only one sampling event has taken place at those wells. Converting weight concentrations (micrograms per liter [$\mu\text{g/L}$]) of total CVOCs (millimoles per liter) provides a better understanding of accumulation and decay of the total mass of CVOCs in the water-bearing zones as a result of groundwater treatment. If total mass of CVOCs decreases with time, it can be assumed that cis-1,2-DCE and VC are also degrading to non-toxic end products such as ethene, carbon dioxide, and water.

As shown in Chart 1 below, the total mass of the CVOC plume in the shallow water-bearing zone is decreasing with time at rate of 1.7 millimoles per year (mM/year). The decrease in mass of the CVOC plume in the shallow water-bearing zone is a result of treatment of the groundwater using EDR technology.



As shown in Chart 2 below, the total mass of the CVOC plume in the deep water-bearing zone is increasing with time at rate of 0.22 mM/year. The increase in the mass of CVOCs may be due to the presence of dense nonaqueous-phase liquid in the deep water-bearing zone proximate to the Woodlawn Avenue ROW that continues to be a source of dissolved-phase CVOCs in the deep water-bearing zone.



PLANNED ACTIVITIES: FIRST QUARTER 2023

Planned activities at the Site in the first quarter of 2023 include indoor air sampling at the north-adjointing property at 6869 Woodlawn Avenue Northeast and an increase in ventilation in the parking garage at the Property to mitigate potential vapor intrusion.

- Attachments:
- Figure 1, Q4 2022 CVOCs in Groundwater and Groundwater Contour Map for the Shallow Water-Bearing Zone
 - Figure 2, Q4 2022 CVOCs in Groundwater and Groundwater Contour Map for the Deep Water-Bearing Zone
 - Table 1, Summary of Groundwater Elevation Data
 - Table 2, Groundwater Analytical Results for CVOCs
 - Table 3, Natural Attenuation Parameters
 - Table 4, Geochemical and Water Quality Parameter
 - Table 5, Groundwater Analytical Results for Volatile Fatty Acids
 - Attachment A, Temporal Analysis of Groundwater Analytical Results

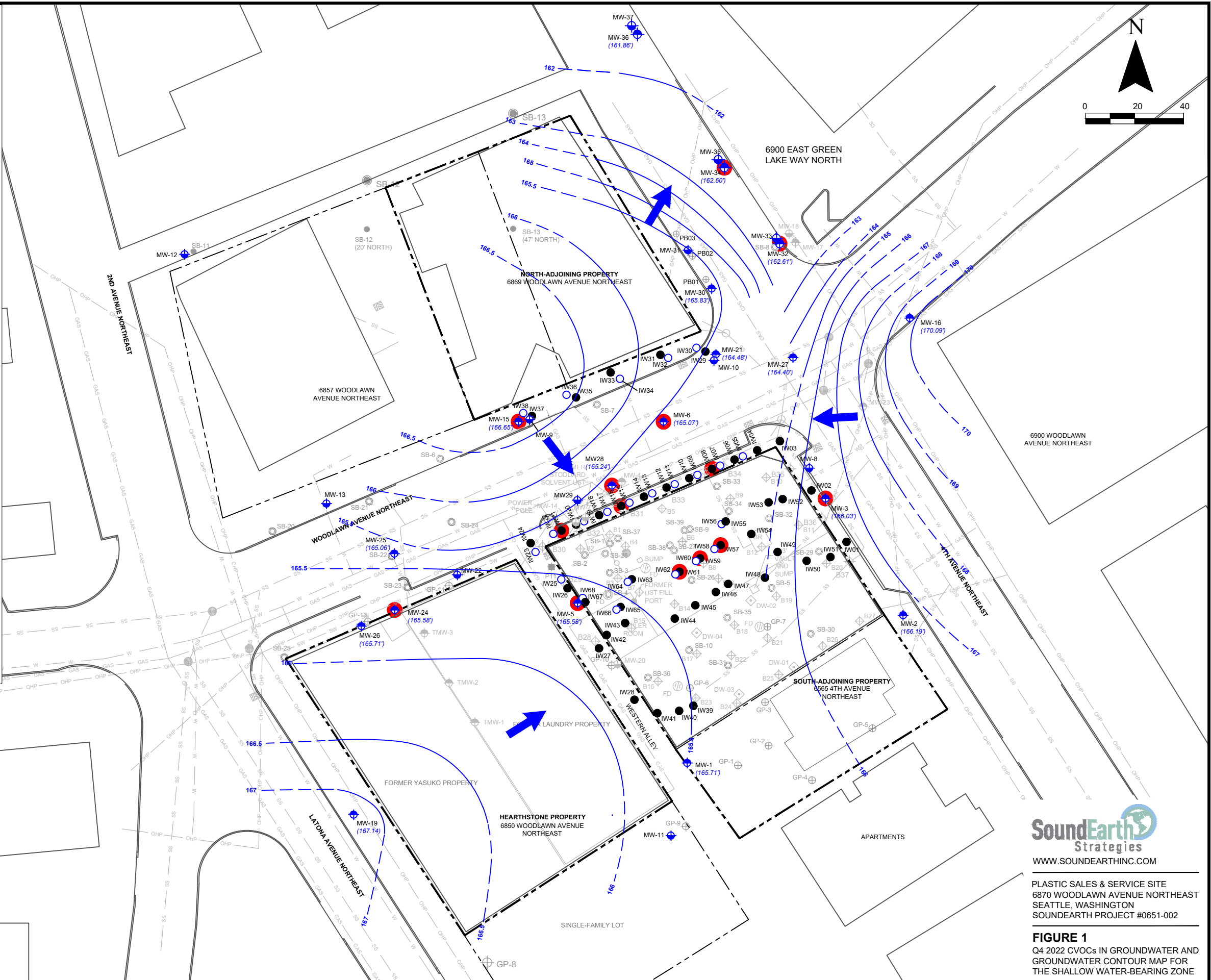
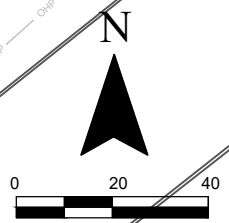
TJC:kar

FIGURES

LEGEND

- CATCH BASIN
- MANHOLE
- SHALLOW-ZONE MONITORING WELL
- DEEP-ZONE MONITORING WELL
- DEEP DEWATERING WELL
- SHALLOW INJECTION WELL
- DEEP INJECTION WELL
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW (SHALLOW ZONE)
- SHALLOW ZONE POTENTIOMETRIC SURFACE CONTOUR (APRIL 25, 2022)
DASHED WHERE INFERRED
- GROUNDWATER ELEVATION
- DECOMMISSIONED WELL
- DIRECT-PUSH BORING (GEOENGINEERS 2004)
DIRECT-PUSH BORING (GEOENGINEERS 2002/2003)
DIRECT-PUSH BORING (FARALLON 2004)
DIRECT-PUSH BORING (FARALLON 2006/2007)
DIRECT-PUSH BORING (FARALLON 2010)
DIRECT-PUSH BORING (SOUNDEARTH 2008)
HOLLOW-STEM AUGER (SOUNDEARTH 2009)
- POST-ELECTRICAL RESISTANCE HEATING BORING LOCATION
- STORMWATER LINE
- GAS LINE
- SANITARY SEWER LINE
- WATER LINE
- OVERHEAD POWER LINE
- PROPERTY BOUNDARY LINE
- PARCEL BOUNDARY
- FLOOR DRAIN
- UST
- DENOTES CVOC CONCENTRATION IN GROUNDWATER THAT EXCEEDS MTCA METHOD A OR B CLEANUP LEVEL

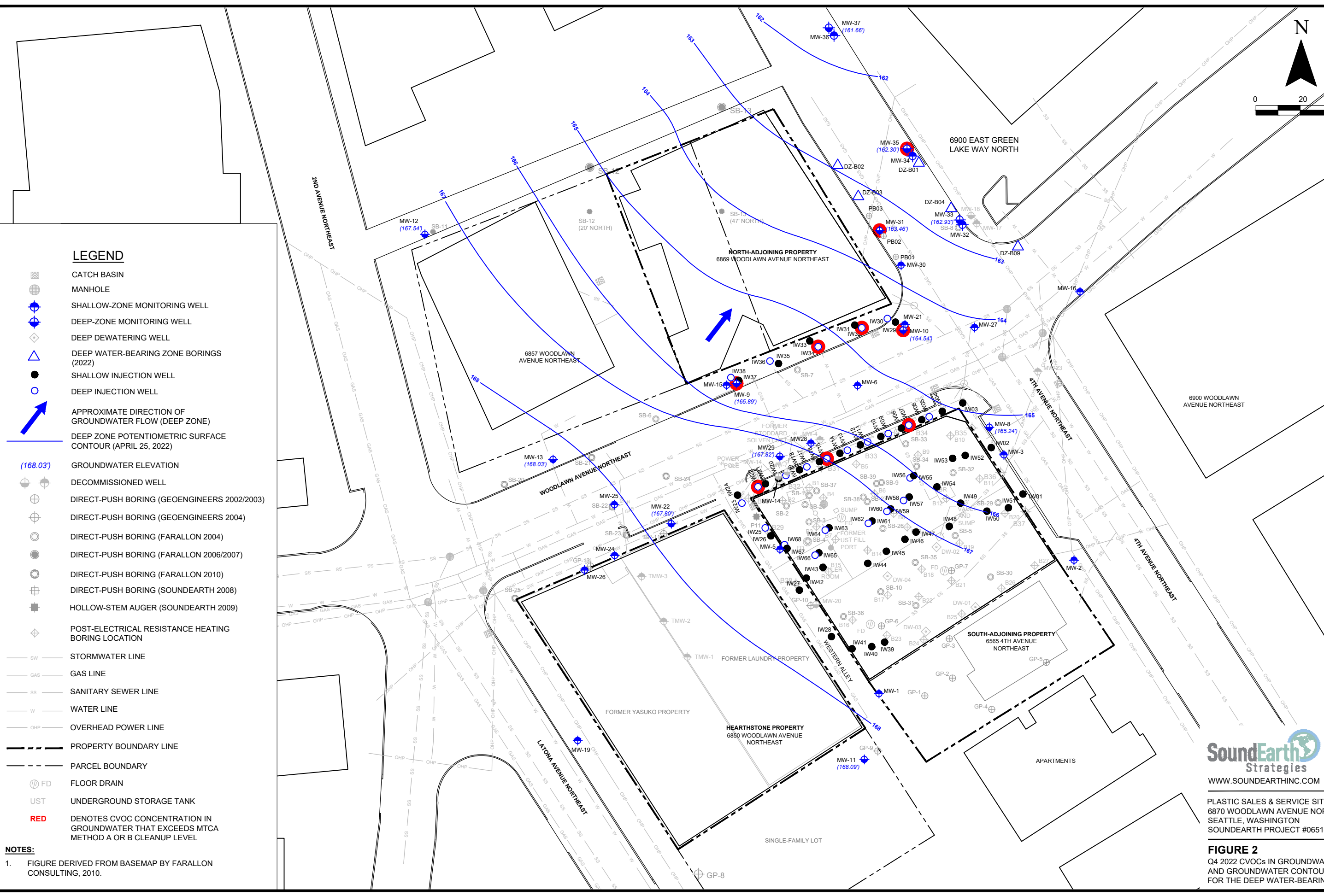
NOTES:
 1. FIGURE DERIVED FROM BASEMAP BY FARALLON CONSULTING, 2010.



SoundEarth Strategies
 WWW.SOUNDEARTHINC.COM

PLASTIC SALES & SERVICE SITE
 6870 WOODLAWN AVENUE NORTHEAST
 SEATTLE, WASHINGTON
 SOUNDEARTH PROJECT #0651-002

FIGURE 1
 Q4 2022 CVOCs IN GROUNDWATER AND GROUNDWATER CONTOUR MAP FOR THE SHALLOW WATER-BEARING ZONE



LEGEND

- CATCH BASIN
- MANHOLE
- SHALLOW-ZONE MONITORING WELL
- DEEP-ZONE MONITORING WELL
- DEEP DEWATERING WELL
- DEEP WATER-BEARING ZONE BORINGS (2022)
- SHALLOW INJECTION WELL
- DEEP INJECTION WELL
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW (DEEP ZONE)
- DEEP ZONE POTENTIOMETRIC SURFACE CONTOUR (APRIL 25, 2022)
- GROUNDWATER ELEVATION
- DECOMMISSIONED WELL
- DIRECT-PUSH BORING (GEOENGINEERS 2002/2003)
- DIRECT-PUSH BORING (GEOENGINEERS 2004)
- DIRECT-PUSH BORING (FARALLON 2004)
- DIRECT-PUSH BORING (FARALLON 2006/2007)
- DIRECT-PUSH BORING (FARALLON 2010)
- DIRECT-PUSH BORING (SOUNDEARTH 2008)
- HOLLOW-STEM AUGER (SOUNDEARTH 2009)
- POST-ELECTRICAL RESISTANCE HEATING BORING LOCATION
- SW STORMWATER LINE
- GAS GAS LINE
- SS SANITARY SEWER LINE
- W WATER LINE
- OHP OVERHEAD POWER LINE
- PROPERTY BOUNDARY LINE
- PARCEL BOUNDARY
- FD FLOOR DRAIN
- UST UNDERGROUND STORAGE TANK
- DENOTES CVOC CONCENTRATION IN GROUNDWATER THAT EXCEEDS MTCA METHOD A OR B CLEANUP LEVEL

NOTES:
 1. FIGURE DERIVED FROM BASEMAP BY FARALLON CONSULTING, 2010.

SoundEarth
Strategies

WWW.SOUNDEARTHINC.COM

PLASTIC SALES & SERVICE SITE
 6870 WOODLAWN AVENUE NORTHEAST
 SEATTLE, WASHINGTON
 SOUNDEARTH PROJECT #0651-002

FIGURE 2
 Q4 2022 CVOCs IN GROUNDWATER
 AND GROUNDWATER CONTOUR MAP
 FOR THE DEEP WATER-BEARING ZONE

TABLES

Table 1
Summary of Groundwater Elevation Data
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

| Well ID | Screened Interval (feet bgs) | TOC Elevation (feet msl) ⁽¹⁾ | Total Well Depth (feet below TOC) ⁽²⁾ | Date Measured | Depth to Groundwater (feet below TOC) ⁽²⁾ | Groundwater Elevation (feet msl) ⁽¹⁾ |
|---|------------------------------|---|--|---------------|--|---|
| Shallow Water-Bearing Zone Wells | | | | | | |
| MW01 | 4 to 19 | 178.24 | 18.42 | 08/05/04 | 7.91 | 170.33 |
| | | | 18.42 | 11/18/04 | 7.00 | 171.24 |
| | | | -- | 01/07/05 | 5.91 | 172.33 |
| | | | -- | 05/31/06 | 6.36 | 171.88 |
| | | | -- | 06/22/06 | 8.22 | 170.02 |
| | | | 18.15 | 01/08/07 | 3.93 | 174.31 |
| | | | 18.15 | 04/20/07 | 5.38 | 172.86 |
| | | | 18.48 | 11/19/08 | 6.78 | 171.46 |
| | | | 18.37 | 05/03/10 | 6.33 | 171.91 |
| | | | -- | 05/07/10 | 6.52 | 171.72 |
| | | | -- | 09/09/14 | 11.19 | 167.05 |
| | | | 17.95 | 05/09/18 | 10.05 | 168.19 |
| | | | 18.37 | 10/24/18 | 15.82 | 162.42 |
| | | | -- | 01/27/20 | 12.22 | 166.02 |
| | | | -- | 04/20/20 | 12.59 | 165.65 |
| | | | -- | 07/20/20 | 12.56 | 165.68 |
| | | | -- | 10/19/20 | 12.49 | 165.75 |
| | | | -- | 01/27/21 | 12.36 | 165.88 |
| | | | -- | 04/20/21 | 12.46 | 165.78 |
| | | | -- | 07/26/21 | 12.61 | 165.63 |
| -- | 10/11/21 | 12.60 | 165.64 | | | |
| 18.28 | 04/25/22 | 12.48 | 165.76 | | | |
| -- | 11/14/22 | 12.53 | 165.71 | | | |
| MW02 | 5 to 20 | 176.22 | 19.48 | 08/05/04 | 6.39 | 169.83 |
| | | | 19.50 | 11/18/04 | 6.41 | 169.81 |
| | | | -- | 01/07/05 | 5.88 | 170.34 |
| | | | -- | 05/31/06 | 5.75 | 170.47 |
| | | | -- | 06/22/06 | 7.01 | 169.21 |
| | | | -- | 01/08/07 | 4.56 | 171.66 |
| | | | -- | 04/20/07 | 4.90 | 171.32 |
| | | | 19.31 | 11/19/08 | 6.86 | 169.36 |
| | | | 19.45 | 05/03/10 | 6.50 | 169.72 |
| | | | -- | 05/07/10 | 6.48 | 169.74 |
| | | | -- | 09/09/14 | 9.01 | 167.21 |
| | | | 19.22 | 05/09/18 | 7.62 | 168.60 |
| | | | -- | 01/27/20 | 9.59 | 166.63 |
| | | | 19.45 | 10/25/18 | 14.42 | 161.80 |
| | | | -- | 01/27/20 | 9.59 | 166.63 |
| | | | -- | 04/20/20 | 10.13 | 166.09 |
| | | | -- | 07/20/20 | 9.64 | 166.58 |
| | | | -- | 10/19/20 | 9.88 | 166.34 |
| | | | -- | 01/27/21 | 9.68 | 166.54 |
| | | | -- | 04/20/21 | 9.89 | 166.33 |
| -- | 07/26/21 | 10.25 | 165.97 | | | |
| -- | 10/11/21 | 9.96 | 166.26 | | | |
| 19.42 | 04/25/22 | 9.70 | 166.52 | | | |
| -- | 11/14/22 | 10.03 | 166.19 | | | |
| MW03 | 5 to 20 | 175.87 | 19.55 | 08/05/04 | 6.56 | 169.31 |
| | | | 19.56 | 11/18/04 | 6.64 | 169.23 |
| | | | -- | 01/07/05 | 5.86 | 170.01 |
| | | | -- | 05/31/06 | 2.79 | 173.08 |
| | | | -- | 06/22/06 | 3.69 | 172.18 |
| | | | 19.54 | 01/08/07 | 2.18 | 173.69 |
| | | | 19.54 | 04/20/07 | 1.96 | 173.91 |
| | | | 19.6 | 11/19/08 | 2.65 | 173.22 |
| | | | 19.45 | 05/03/10 | 2.54 | 173.33 |
| | | | -- | 05/07/10 | 2.59 | 173.28 |
| | | | -- | 09/09/14 | 5.92 | 169.95 |
| | | | 19.22 | 05/09/18 | 3.44 | 172.43 |
| | | | 19.45 | 10/24/18 | 14.23 | 161.64 |
| | | | -- | 01/27/20 | 8.34 | 167.53 |
| | | | -- | 04/20/20 | 9.20 | 166.67 |
| | | | -- | 07/20/20 | 9.48 | 166.39 |
| | | | -- | 10/19/20 | 9.74 | 166.13 |
| | | | -- | 01/27/21 | 9.52 | 166.35 |
| | | | 19.45 | 04/20/21 | 9.80 | 166.07 |
| | | | -- | 07/26/21 | 10.31 | 165.56 |
| -- | 10/11/21 | 10.04 | 165.83 | | | |
| 19.08 | 04/25/22 | 9.77 | 166.10 | | | |
| -- | 11/14/22 | 9.84 | 166.03 | | | |
| MW04 | 4 to 18 | 176.15 | 18.08 | 08/05/04 | 7.66 | 168.49 |
| | | | 18.08 | 11/18/04 | 7.35 | 168.80 |
| | | | -- | 01/07/05 | 6.82 | 169.33 |
| | | | -- | 05/31/06 | 7.88 | 168.27 |
| | | | -- | 06/22/06 | 8.19 | 167.96 |
| | | | 17.95 | 01/08/07 | 5.80 | 170.35 |
| | | | 17.95 | 04/20/07 | 6.49 | 169.66 |
| | | | 17.61 | 11/19/08 | 8.45 | 167.70 |
| | | | 17.54 | 05/03/10 | 8.02 | 168.13 |
| | | | -- | 05/04/10 | 8.09 | 168.06 |
| | | | -- | 05/07/10 | 7.98 | 168.17 |
| -- | 09/09/14 | 10.26 | 165.89 | | | |
| Monitoring Well Decommissioned | | | | | | |

Table 1
Summary of Groundwater Elevation Data
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

| Well ID | Screened Interval (feet bgs) | TOC Elevation (feet msl) ⁽¹⁾ | Total Well Depth (feet below TOC) ⁽²⁾ | Date Measured | Depth to Groundwater (feet below TOC) ⁽²⁾ | Groundwater Elevation (feet msl) ⁽¹⁾ |
|---|------------------------------|---|--|---------------|--|---|
| Shallow Water-Bearing Zone Wells | | | | | | |
| MW05 | 2.5 to 17.5 | 177.37 | 17.45 | 08/05/04 | 8.71 | 168.66 |
| | | | 17.45 | 11/18/04 | 7.86 | 169.51 |
| | | | -- | 01/07/05 | 7.15 | 170.22 |
| | | | -- | 05/31/06 | 7.50 | 169.87 |
| | | | -- | 06/22/06 | 9.12 | 168.25 |
| | | | 17.44 | 01/08/07 | 2.90 | 174.47 |
| | | | 17.44 | 04/20/07 | 6.63 | 170.74 |
| | | | 17.47 | 11/19/08 | 8.30 | 169.07 |
| | | | 17.45 | 05/03/10 | 7.54 | 169.83 |
| | | | -- | 05/04/10 | 7.87 | 169.50 |
| | | | -- | 05/07/10 | 8.01 | 169.36 |
| | | | -- | 09/09/14 | 10.97 | 166.40 |
| | | | 15.64 | 05/09/18 | 10.02 | 167.35 |
| | | | 15.62 | 01/27/20 | 11.25 | 166.12 |
| | | | -- | 04/20/20 | 11.49 | 165.88 |
| | | | -- | 07/20/20 | 11.48 | 165.89 |
| | | | 14.15 | 10/19/20 | 11.34 | 166.03 |
| | | | -- | 01/27/21 | 10.82 | 166.55 |
| | | | 14.03 | 04/21/21 | 11.35 | 166.02 |
| -- | 07/26/21 | 11.35 | 166.02 | | | |
| -- | 10/11/21 | 11.61 | 165.76 | | | |
| 16.20 | 04/25/22 | 11.40 | 165.97 | | | |
| -- | 11/14/22 | 11.79 | 165.58 | | | |
| MW06 | 15 to 20 | 176.26 | -- | 11/18/04 | -- | -- |
| | | | -- | 01/07/05 | -- | -- |
| | | | -- | 05/31/06 | -- | -- |
| | | | -- | 06/22/06 | -- | -- |
| | | | -- | 01/08/07 | 8.84 | 167.42 |
| | | | -- | 04/20/07 | -- | -- |
| | | | 19.93 | 05/03/10 | 10.4 | 165.86 |
| | | | -- | 05/07/10 | 10.52 | 165.74 |
| | | | -- | 09/09/14 | 11.53 | 164.73 |
| | | | 19.80 | 05/09/18 | 11.68 | 164.58 |
| | | | 19.96 | 01/28/20 | 10.12 | 166.14 |
| | | | 19.97 | 04/20/20 | 11.03 | 165.23 |
| | | | -- | 07/21/20 | 11.02 | 165.24 |
| | | | -- | 10/20/20 | 11.03 | 165.23 |
| | | | -- | 01/28/21 | 10.77 | 165.49 |
| | | | 20.00 | 04/20/21 | 10.93 | 165.33 |
| -- | 07/27/21 | 11.26 | 165.00 | | | |
| -- | 10/11/21 | 11.07 | 165.19 | | | |
| 19.95 | 04/26/22 | 10.81 | 165.45 | | | |
| -- | 11/14/22 | 11.19 | 165.07 | | | |
| MW15 | 5 to 20 | 176.62 | 18.12 | 05/31/06 | 6.76 | 169.86 |
| | | | -- | 06/22/06 | 7.36 | 169.26 |
| | | | 18.15 | 01/08/07 | 5.63 | 170.99 |
| | | | 18.15 | 04/20/07 | 6.68 | 169.94 |
| | | | 18.2 | 11/19/08 | 9.21 | 167.41 |
| | | | 18.18 | 05/03/10 | 4.23 | 172.39 |
| | | | -- | 05/07/10 | 4.22 | 172.40 |
| | | | -- | 09/09/14 | 11.02 | 165.60 |
| | | | 17.95 | 05/09/18 | 10.21 | 166.41 |
| | | | -- | 10/25/18 | 12.53 | 164.09 |
| | | | -- | 01/27/20 | 3.69 | 172.93 |
| | | | -- | 04/20/20 | 6.11 | 170.51 |
| | | | -- | 07/20/20 | 10.33 | 166.29 |
| | | | -- | 10/19/20 | 5.99 | 170.63 |
| | | | -- | 01/27/21 | 4.08 | 172.54 |
| | | | -- | 04/20/21 | 8.95 | 167.67 |
| -- | 07/26/21 | 10.83 | 165.79 | | | |
| -- | 10/11/21 | 4.13 | 172.49 | | | |
| 18 | 04/25/22 | 5.21 | 171.41 | | | |
| -- | 11/14/22 | 9.97 | 166.65 | | | |
| MW16 | 5 to 20 | 175.60 | 19.45 | 05/31/06 | 4.56 | 171.04 |
| | | | -- | 06/22/06 | 6.21 | 169.39 |
| | | | -- | 01/08/07 | 3.91 | 171.69 |
| | | | -- | 04/20/07 | 4.29 | 171.31 |
| | | | 19.6 | 11/19/08 | 5.03 | 170.57 |
| | | | 19.60 | 05/03/10 | 5.30 | 170.30 |
| | | | -- | 05/07/10 | 5.44 | 170.16 |
| | | | -- | 09/09/14 | 9.34 | 166.26 |
| | | | 19.43 | 05/09/18 | 5.35 | 170.25 |
| | | | 18.18 | 10/22/18 | 11.36 | 164.24 |
| | | | -- | 01/27/20 | 3.81 | 171.79 |
| | | | -- | 04/20/20 | 5.50 | 170.10 |
| | | | -- | 07/20/20 | 9.13 | 166.47 |
| | | | -- | 10/19/20 | 4.54 | 171.06 |
| | | | -- | 01/27/21 | 4.53 | 171.07 |
| | | | -- | 07/26/21 | 9.97 | 165.63 |
| -- | 10/11/21 | 6.48 | 169.12 | | | |
| 19.61 | 04/25/22 | 4.65 | 170.95 | | | |
| -- | 11/14/22 | 5.51 | 170.09 | | | |

Table 1
Summary of Groundwater Elevation Data
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

| Well ID | Screened Interval (feet bgs) | TOC Elevation (feet msl) ⁽¹⁾ | Total Well Depth (feet below TOC) ⁽²⁾ | Date Measured | Depth to Groundwater (feet below TOC) ⁽²⁾ | Groundwater Elevation (feet msl) ⁽¹⁾ |
|---|------------------------------|---|--|---------------|--|---|
| Shallow Water-Bearing Zone Wells | | | | | | |
| MW17 | 5 to 20 | 175.79 | 19.19 | 05/31/06 | 4.29 | 171.50 |
| | | | -- | 06/22/06 | 5.82 | 169.97 |
| | | | -- | 01/08/07 | 3.67 | 172.12 |
| | | | -- | 04/20/07 | 4.03 | 171.76 |
| Monitoring Well Decommissioned | | | | | | |
| MW19 | 10 to 20 | 180.68 | 19.8 | 11/20/08 | 9.68 | 171.00 |
| | | | 19.72 | 05/03/10 | 9.17 | 171.51 |
| | | | -- | 05/04/10 | 9.54 | 171.14 |
| | | | -- | 05/07/10 | 9.40 | 171.28 |
| | | | -- | 09/09/14 | 14.57 | 166.11 |
| | | | 19.62 | 05/09/18 | 13.10 | 167.58 |
| | | | 19.72 | 10/24/18 | 14.54 | 166.14 |
| | | | -- | 01/27/20 | 12.27 | 168.41 |
| | | | -- | 04/20/20 | 13.53 | 167.15 |
| | | | -- | 07/20/20 | 13.70 | 166.98 |
| | | | -- | 10/19/20 | 13.16 | 167.52 |
| | | | -- | 01/27/21 | 12.90 | 167.78 |
| | | | -- | 07/26/21 | 13.98 | 166.70 |
| | | | -- | 10/11/21 | 14.04 | 166.64 |
| 19.79 | 04/25/22 | 13.19 | 167.49 | | | |
| -- | 11/14/22 | 13.54 | 167.14 | | | |
| MW21 | 14 to 24 | 175.93 | 23.74 | 11/19/08 | 10.21 | 165.72 |
| | | | 23.74 | 05/03/10 | 9.70 | 166.23 |
| | | | -- | 05/07/10 | 9.73 | 166.20 |
| | | | -- | 09/09/14 | 11.24 | 164.69 |
| | | | 23.55 | 05/09/18 | 10.28 | 165.65 |
| | | | 23.74 | 10/24/18 | 13.65 | 162.28 |
| | | | -- | 01/27/20 | EOS Interference | |
| | | | -- | 04/20/20 | EOS Interference | |
| | | | -- | 07/20/20 | 11.33 | 164.60 |
| | | | -- | 10/19/20 | 11.80 | 164.13 |
| | | | -- | 01/27/21 | 10.92 | 165.01 |
| | | | 23.74 | 04/20/21 | 10.92 | 165.01 |
| | | | -- | 07/26/21 | 11.40 | 164.53 |
| | | | -- | 10/11/21 | 11.42 | 164.51 |
| 23.74 | 04/25/22 | 10.45 | 165.48 | | | |
| -- | 11/14/22 | 11.45 | 164.48 | | | |
| MW23 | 10 to 20 | 176.03 | 20.15 | 11/19/08 | 10.81 | 165.22 |
| | | | 20.15 | 05/03/10 | 10.17 | 165.86 |
| | | | -- | 05/07/10 | 10.32 | 165.71 |
| Monitoring Well Decommissioned | | | | | | |
| MW24 | 8 to 18 | 177.62 | 17.25 | 11/19/08 | 9.34 | 168.28 |
| | | | 17.34 | 05/03/10 | 8.89 | 168.73 |
| | | | -- | 05/04/10 | 8.96 | 168.66 |
| | | | -- | 05/07/10 | 8.95 | 168.67 |
| | | | 17.34 | 09/09/14 | 12.19 | 165.43 |
| | | | 17.10 | 05/09/18 | 11.88 | 165.74 |
| | | | 17.34 | 10/24/18 | 12.88 | 164.74 |
| | | | -- | 01/27/20 | 11.04 | 166.58 |
| | | | -- | 04/20/20 | 12.28 | 165.34 |
| | | | -- | 07/20/20 | 11.84 | 165.78 |
| | | | -- | 10/19/20 | 11.33 | 166.29 |
| | | | -- | 01/27/21 | 11.72 | 165.90 |
| | | | -- | 04/20/21 | 12.19 | 165.43 |
| | | | -- | 07/26/21 | 12.53 | 165.09 |
| -- | 10/11/21 | 12.29 | 165.33 | | | |
| 17.10 | 04/25/22 | 11.99 | 165.63 | | | |
| -- | 11/14/22 | 12.04 | 165.58 | | | |
| MW25 | 8 to 18 | 176.95 | 18.29 | 05/03/10 | 9.85 | 167.10 |
| | | | -- | 05/04/10 | 10.02 | 166.93 |
| | | | -- | 05/07/10 | 9.86 | 167.09 |
| | | | -- | 09/09/14 | 11.85 | 165.10 |
| | | | 14.75 | 05/09/18 | 11.71 | 165.24 |
| | | | 17.34 | 10/24/18 | 12.55 | 164.40 |
| | | | 14.29 | 01/28/20 | 3.10 | 173.85 |
| | | 14.38 | 04/20/20 | 12.00 | 164.95 | |
| | | 14.16 | 07/21/20 | 11.65 | 165.17 | |
| | | -- | 10/20/20 | 11.54 | 165.28 | |
| | | -- | 01/28/21 | 11.65 | 165.17 | |
| | | 18.29 | 04/20/21 | 11.68 | 165.14 | |
| | | -- | 07/27/21 | 11.93 | 164.89 | |
| | | -- | 10/11/21 | 11.78 | 165.04 | |
| 14.33 | 04/26/22 | 11.43 | 165.39 | | | |
| -- | 11/14/22 | 11.76 | 165.06 | | | |

Table 1
Summary of Groundwater Elevation Data
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

| Well ID | Screened Interval (feet bgs) | TOC Elevation (feet msl) ⁽¹⁾ | Total Well Depth (feet below TOC) ⁽²⁾ | Date Measured | Depth to Groundwater (feet below TOC) ⁽²⁾ | Groundwater Elevation (feet msl) ⁽¹⁾ | | |
|---|------------------------------|---|--|---------------|--|---|-------|--------|
| Shallow Water-Bearing Zone Wells | | | | | | | | |
| MW26 | 8 to 18 | 177.83 | 18.18 | 05/03/10 | 8.71 | 169.12 | | |
| | | | -- | 05/04/10 | 8.81 | 169.02 | | |
| | | | -- | 05/07/10 | 8.75 | 169.08 | | |
| | | | 18.18 | 09/09/14 | 12.63 | 165.20 | | |
| | | | 17.82 | 05/09/18 | 12.10 | 165.73 | | |
| | | | 18.18 | 10/24/18 | 13.00 | 164.83 | | |
| | | | -- | 01/27/20 | 11.47 | 166.36 | | |
| | | | -- | 04/20/20 | 12.29 | 165.54 | | |
| | | | -- | 07/20/20 | 11.15 | 166.68 | | |
| | | | -- | 10/19/20 | 10.95 | 166.88 | | |
| | | | -- | 01/27/21 | 12.05 | 165.78 | | |
| | | | -- | 04/20/21 | 12.04 | 165.79 | | |
| | | | -- | 07/26/21 | 12.54 | 165.29 | | |
| | | | -- | 10/11/21 | 11.99 | 165.84 | | |
| | | | 18.02 | 04/25/22 | 11.98 | 165.85 | | |
| | | | -- | 11/14/22 | 12.12 | 165.71 | | |
| TMW01 | 8 to 18 | 176.98 | 18.75 | 04/05/10 | 5.12 | 171.86 | | |
| | | | 18.80 | 05/04/10 | 5.27 | 171.71 | | |
| | | | -- | 05/07/10 | 5.31 | 171.67 | | |
| TMW02 | 8 to 18 | 176.91 | 18.79 | 04/05/10 | 5.62 | 171.29 | | |
| | | | 18.83 | 05/04/10 | 6.31 | 170.60 | | |
| | | | -- | 05/07/10 | 6.25 | 170.66 | | |
| TMW03 | 8 to 18 | 177.14 | 18.22 | 04/05/10 | 6.96 | 170.18 | | |
| | | | 18.25 | 05/04/10 | 7.53 | 169.61 | | |
| | | | -- | 05/07/10 | 7.52 | 169.62 | | |
| MW27 | 8.5 to 13.5 | -- | 13.5 | 06/28/11 | -- | -- | | |
| | | | -- | 09/09/14 | 11.54 | -- | | |
| | | | 12.90 | 05/09/18 | 10.80 | -- | | |
| | | 175.91 | 13.16 | 01/28/20 | 10.89 | -- | | |
| | | | 13.15 | 04/20/20 | 11.37 | -- | | |
| | | | 13.15 | 07/21/20 | 11.26 | 164.65 | | |
| | | | 13.16 | 10/20/20 | 11.39 | 164.52 | | |
| | | | 13.10 | 01/28/21 | 11.25 | 164.66 | | |
| | | | 13.10 | 04/20/21 | 11.24 | 164.67 | | |
| | | | 13.10 | 07/27/21 | 11.13 | 164.78 | | |
| | | | -- | 10/11/21 | 11.46 | 164.45 | | |
| 13.12 | 04/26/22 | 11.33 | 164.58 | | | | | |
| -- | 11/14/22 | 11.51 | 164.40 | | | | | |
| MW28 | 5 to 18 | 176.09 | -- | 01/27/20 | 10.38 | 165.71 | | |
| | | | -- | 04/20/20 | 10.66 | 165.43 | | |
| | | | -- | 07/20/20 | 10.71 | 165.38 | | |
| | | | -- | 10/19/20 | 10.75 | 165.34 | | |
| | | | -- | 01/27/21 | 10.54 | 165.55 | | |
| | | | 18.61 | 04/21/21 | 10.51 | 165.58 | | |
| | | | -- | 07/26/21 | 10.82 | 165.27 | | |
| | | | -- | 10/11/21 | 10.77 | 165.32 | | |
| | | | 18.59 | 04/25/22 | 10.51 | 165.58 | | |
| | | | -- | 11/14/22 | 10.85 | 165.24 | | |
| MW30 | 5 to 20 | 175.73 | -- | 01/27/21 | 13.58 | -13.58 | | |
| | | | -- | 04/19/21 | 2.67 | 173.06 | | |
| | | | -- | 04/20/21 | Too Much EOS | | | |
| | | | -- | 04/21/21 | | | | |
| | | | -- | 04/22/21 | | | | |
| | | | -- | 04/23/21 | | | | |
| | | | -- | 04/24/21 | Too Much EOS | | | |
| | | | -- | 07/26/21 | | | 10.18 | 165.55 |
| | | | -- | 10/11/21 | | | 11.04 | 164.69 |
| | | | 20.09 | 04/25/22 | | | 5.00 | 170.73 |
| -- | 11/14/22 | 9.90 | 165.83 | | | | | |
| MW32 | 15 to 25 | 175.63 | -- | 11/14/22 | 13.02 | 162.61 | | |
| MW34 | 15 to 25 | 175.58 | -- | 11/14/22 | 12.98 | 162.60 | | |
| MW36 | 15 to 25 | 175.30 | -- | 11/14/22 | 13.44 | 161.86 | | |
| MW07 | 21 to 31 | 176.56 | 31.00 | 12/06/04 | 7.45 | 169.11 | | |
| | | | -- | 01/07/05 | 7.30 | 169.26 | | |
| | | | -- | 05/31/06 | 8.09 | 168.47 | | |
| | | | -- | 06/22/06 | 8.42 | 168.14 | | |
| | | | 31.01 | 01/08/07 | 6.52 | 170.04 | | |
| | | 176.59 | -- | 04/20/07 | 7.00 | 169.59 | | |
| | | | 30.67 | 11/19/08 | 8.38 | 168.21 | | |
| | | | 30.84 | 05/03/10 | 7.99 | 168.60 | | |
| | | | -- | 05/07/10 | 8.04 | 168.55 | | |
| | | | -- | 09/09/14 | 10.37 | 166.22 | | |
| Monitoring Well Decommissioned | | | | | | | | |

Table 1
Summary of Groundwater Elevation Data
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

| Well ID | Screened Interval (feet bgs) | TOC Elevation (feet msl) ⁽¹⁾ | Total Well Depth (feet below TOC) ⁽²⁾ | Date Measured | Depth to Groundwater (feet below TOC) ⁽²⁾ | Groundwater Elevation (feet msl) ⁽¹⁾ |
|--------------------------------------|------------------------------|---|--|---------------|--|---|
| Deep Water-Bearing Zone Wells | | | | | | |
| MW08 | 30 to 40 | 175.90 | 40.09 | 12/06/04 | 6.55 | 169.35 |
| | | | -- | 01/07/05 | 6.34 | 169.56 |
| | | | -- | 05/31/06 | 6.35 | 169.55 |
| | | | -- | 06/22/06 | 7.55 | 168.35 |
| | | | 40.09 | 01/08/07 | 5.54 | 170.36 |
| | | | 40.09 | 01/08/07 | 5.98 | 169.92 |
| | | | 40.15 | 11/19/08 | 9.00 | 166.90 |
| | | | 40.15 | 05/03/10 | 8.49 | 167.41 |
| | | | -- | 05/07/10 | 8.51 | 167.39 |
| | | | -- | 09/09/14 | 10.32 | 165.58 |
| | | | 39.96 | 05/09/18 | 9.35 | 166.55 |
| | | | 40.15 | 10/25/18 | 10.38 | 165.52 |
| | | | -- | 01/28/20 | 10.21 | 165.69 |
| | | | -- | 04/20/20 | 10.43 | 165.47 |
| | | | -- | 07/20/20 | 10.58 | 165.32 |
| | | | -- | 10/19/20 | 10.64 | 165.26 |
| | | | -- | 01/27/21 | 10.26 | 165.64 |
| | | | -- | 04/20/21 | 10.32 | 165.58 |
| | | | -- | 07/26/21 | 10.63 | 165.27 |
| | | | -- | 10/11/21 | 10.65 | 165.25 |
| 40.19 | 04/25/22 | 10.24 | 165.66 | | | |
| -- | 11/14/22 | 10.66 | 165.24 | | | |
| MW09 | 30 to 40 | 176.43 | 39.81 | 12/06/04 | 6.81 | 169.62 |
| | | | -- | 01/07/05 | 6.49 | 169.94 |
| | | | -- | 05/31/06 | 6.34 | 170.09 |
| | | | -- | 06/22/06 | 7.48 | 168.95 |
| | | | 39.75 | 01/08/07 | 5.85 | 170.58 |
| | | | 39.75 | 04/20/07 | 6.01 | 170.42 |
| | | | 39.81 | 11/19/08 | 7.30 | 169.13 |
| | | | 39.80 | 05/03/10 | 6.74 | 169.69 |
| | | | -- | 05/07/10 | 6.73 | 169.70 |
| | | | -- | 09/09/14 | 9.25 | 167.18 |
| | | | 39.60 | 05/09/18 | 5.50 | 170.93 |
| | | | 39.80 | 10/25/18 | 12.92 | 163.51 |
| | | | -- | 01/27/20 | 9.67 | 166.76 |
| | | | -- | 04/20/20 | 9.87 | 166.56 |
| | | | -- | 07/20/20 | 10.19 | 166.24 |
| | | | -- | 10/19/20 | 10.38 | 166.05 |
| | | | -- | 01/27/21 | 10.18 | 166.25 |
| | | | 40.00 | 04/20/21 | 10.16 | 166.27 |
| | | | -- | 07/26/21 | 10.56 | 165.87 |
| | | | -- | 10/11/21 | 10.47 | 165.96 |
| 39.82 | 04/25/22 | 10.10 | 166.33 | | | |
| -- | 11/14/22 | 10.54 | 165.89 | | | |
| MW10 | 30 to 40 | 176.01 | 39.98 | 12/06/04 | 7.12 | 168.89 |
| | | | -- | 01/07/05 | 6.89 | 169.12 |
| | | | -- | 05/31/06 | 6.99 | 169.02 |
| | | | -- | 06/22/06 | 8.12 | 167.89 |
| | | | -- | 01/08/07 | 6.05 | 169.96 |
| | | | -- | 04/20/07 | 6.57 | 169.44 |
| | | | 40.01 | 11/19/08 | 10.21 | 165.80 |
| | | | 40.00 | 05/03/10 | 9.72 | 166.29 |
| | | | -- | 05/07/10 | 9.75 | 166.26 |
| | | | -- | 09/09/14 | 11.26 | 164.75 |
| | | | 39.82 | 05/09/18 | 10.32 | 165.69 |
| | | | 40.00 | 10/25/18 | 13.81 | 162.20 |
| | | | -- | 01/27/20 | 10.95 | 165.06 |
| | | | -- | 04/20/20 | 11.18 | 164.83 |
| | | | -- | 07/20/20 | 11.35 | 164.66 |
| | | | -- | 10/19/20 | 11.43 | 164.58 |
| | | | -- | 01/27/21 | 11.02 | 164.99 |
| | | | 40.00 | 04/20/21 | 11.11 | 164.90 |
| | | | -- | 07/26/21 | 11.42 | 164.59 |
| | | | -- | 10/11/21 | 11.44 | 164.57 |
| 40.02 | 04/25/22 | 10.99 | 165.02 | | | |
| -- | 11/14/22 | 11.47 | 164.54 | | | |
| MW11 | 57.5 to 67.5 | 178.99 | 64.30 | 05/31/06 | 7.71 | 171.28 |
| | | | -- | 06/22/06 | 8.78 | 170.21 |
| | | | 64.28 | 01/08/07 | 7.30 | 171.69 |
| | | | 64.28 | 04/20/07 | 7.38 | 171.61 |
| | | | 65.30 | 11/19/08 | 8.34 | 170.65 |
| | | | 65.24 | 05/03/10 | 7.73 | 171.26 |
| | | | -- | 05/07/10 | 7.69 | 171.30 |
| | | | 64.91 | 09/09/14 | 11.00 | 167.99 |
| | | | -- | 05/09/18 | Inaccessible | |
| | | | -- | 01/27/20 | Inaccessible | |
| | | | -- | 04/20/20 | 10.80 | 168.19 |
| | | | -- | 07/20/20 | 10.89 | 168.10 |
| | | | -- | 10/19/20 | 11.09 | 167.90 |
| | | | -- | 01/27/21 | 10.66 | 168.33 |
| | | | -- | 07/26/21 | 10.83 | 168.16 |
| | | | -- | 10/11/21 | 11.06 | 167.93 |
| 66.32 | 04/25/22 | 10.61 | 168.38 | | | |
| -- | 11/14/22 | 10.90 | 168.09 | | | |

Table 1
Summary of Groundwater Elevation Data
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

| Well ID | Screened Interval (feet bgs) | TOC Elevation (feet msl) ⁽¹⁾ | Total Well Depth (feet below TOC) ⁽²⁾ | Date Measured | Depth to Groundwater (feet below TOC) ⁽²⁾ | Groundwater Elevation (feet msl) ⁽¹⁾ |
|--------------------------------------|------------------------------|---|--|---------------|--|---|
| Deep Water-Bearing Zone Wells | | | | | | |
| MW12 | 57 to 67 | 176.95 | 62.51 | 05/31/06 | 7.31 | 169.64 |
| | | | -- | 06/22/06 | 8.40 | 168.55 |
| | | | 66.55 | 01/08/07 | 7.04 | 169.91 |
| | | | 66.55 | 04/20/07 | 7.05 | 169.90 |
| | | | 66.10 | 11/19/08 | 7.92 | 169.03 |
| | | | 65.78 | 05/03/10 | 7.35 | 169.60 |
| | | | -- | 05/07/10 | 7.32 | 169.63 |
| | | | -- | 09/09/14 | 9.38 | 167.57 |
| | | | 65.60 | 05/09/18 | 8.67 | 168.28 |
| | | | 65.78 | 10/25/18 | 11.47 | 165.48 |
| | | | -- | 01/27/20 | 9.30 | 167.65 |
| | | | -- | 04/20/20 | 9.22 | 167.73 |
| | | | -- | 07/20/20 | 9.31 | 167.64 |
| | | | -- | 10/19/20 | 9.54 | 167.41 |
| | | | -- | 01/27/21 | 9.10 | 167.85 |
| | | | -- | 07/26/21 | 9.31 | 167.64 |
| -- | 10/11/21 | 9.54 | 167.41 | | | |
| -- | 04/25/22 | 9.07 | 167.88 | | | |
| -- | 11/14/22 | 9.41 | 167.54 | | | |
| MW13 | 55.5 to 65.5 | 177.03 | 62.90 | 05/31/06 | 6.31 | 170.72 |
| | | | -- | 06/22/06 | 7.40 | 169.63 |
| | | | 66.18 | 01/08/07 | 5.96 | 171.07 |
| | | | 66.18 | 04/20/07 | 6.01 | 171.02 |
| | | | 66.22 | 11/19/08 | 6.95 | 170.08 |
| | | | 66.21 | 05/03/10 | 6.35 | 170.68 |
| | | | -- | 05/07/10 | 6.30 | 170.73 |
| | | | -- | 09/09/14 | 9.02 | 168.01 |
| | | | 66.05 | 05/09/18 | 8.26 | 168.77 |
| | | | 66.21 | 10/25/18 | 12.69 | 164.34 |
| | | | -- | 01/27/20 | 8.96 | 168.07 |
| | | | -- | 04/20/20 | 8.88 | 168.15 |
| | | | -- | 07/20/20 | 8.94 | 168.09 |
| | | | -- | 10/19/20 | 9.17 | 167.86 |
| | | | -- | 01/27/21 | 8.74 | 168.29 |
| | | | -- | 07/26/21 | 8.90 | 168.13 |
| -- | 10/11/21 | 9.15 | 167.88 | | | |
| -- | 04/25/22 | 8.71 | 168.32 | | | |
| -- | 11/14/22 | 9.00 | 168.03 | | | |
| MW14 | 63 to 73 | 176.50 | 72.81 | 05/31/06 | 6.55 | 169.95 |
| | | | -- | 06/22/06 | 6.65 | 169.85 |
| | | | 71.8 | 01/08/07 | 5.18 | 171.32 |
| | | | -- | 04/20/07 | 5.47 | 171.25 |
| | | 176.72 | 72.16 | 11/19/08 | 6.45 | 170.27 |
| | | | 72.05 | 05/03/10 | 5.86 | 170.86 |
| | | | -- | 05/07/10 | 5.81 | 170.91 |
| | | | -- | 09/09/14 | 8.74 | 167.98 |
| Monitoring Well Decommissioned | | | | | | |
| MW18 | 68 to 78 | 175.91 | 77.42 | 05/31/06 | 6.89 | 169.02 |
| | | | -- | 06/22/06 | 7.84 | 168.07 |
| | | | 78.05 | 01/08/07 | 6.04 | 169.87 |
| | | | 78.05 | 04/20/07 | 6.26 | 169.65 |
| Monitoring Well Decommissioned | | | | | | |
| MW20 | 40 to 50 | 177.62 | 49.19 | 11/19/08 | 7.16 | 170.46 |
| | | | 48.49 | 05/03/10 | 6.56 | 171.06 |
| | | | -- | 05/07/10 | 6.50 | 171.12 |
| Monitoring Well Decommissioned | | | | | | |
| MW22 | 39.5 to 49.5 | 177.23 | 49.2 | 11/19/08 | 7.18 | 170.05 |
| | | | 49.20 | 05/03/10 | 6.59 | 170.64 |
| | | | -- | 05/07/10 | 6.53 | 170.70 |
| | | | -- | 09/09/14 | 9.44 | 167.79 |
| | | | 48.40 | 05/09/18 | 8.64 | 168.59 |
| | | | 49.20 | 10/24/18 | 12.88 | 164.35 |
| | | | -- | 01/27/20 | 9.32 | 167.91 |
| | | | -- | 04/20/20 | 9.27 | 167.96 |
| | | | -- | 07/20/20 | 9.34 | 167.89 |
| | | | -- | 10/19/20 | 9.54 | 167.69 |
| | | | -- | 01/27/21 | 9.12 | 168.11 |
| | | | -- | 04/20/21 | 9.12 | 168.11 |
| | | | -- | 07/26/21 | 9.28 | 167.95 |
| | | | -- | 10/11/21 | 9.54 | 167.69 |
| 49.44 | 04/25/22 | 9.07 | 168.16 | | | |
| -- | 11/14/22 | 9.43 | 167.80 | | | |
| MW29 | 25 to 65 | 176.27 | -- | 01/27/20 | 10.49 | 165.78 |
| | | | -- | 04/20/20 | 8.34 | 167.93 |
| | | | -- | 07/20/20 | 8.30 | 167.97 |
| | | | -- | 10/19/20 | 8.53 | 167.74 |
| | | | -- | 01/27/21 | 8.12 | 168.15 |
| | | | 64.35 | 04/20/21 | 8.21 | 168.06 |
| | | | -- | 07/26/21 | 8.29 | 167.98 |
| | | | -- | 10/11/21 | 8.55 | 167.72 |
| | | | -- | 04/26/22 | 8.04 | 168.23 |
| -- | 11/14/22 | 8.45 | 167.82 | | | |



Table 1
Summary of Groundwater Elevation Data
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

| Well ID | Screened Interval (feet bgs) | TOC Elevation (feet msl) ⁽¹⁾ | Total Well Depth (feet below TOC) ⁽²⁾ | Date Measured | Depth to Groundwater (feet below TOC) ⁽²⁾ | Groundwater Elevation (feet msl) ⁽¹⁾ |
|--------------------------------------|------------------------------|---|--|---------------|--|---|
| Deep Water-Bearing Zone Wells | | | | | | |
| MW31 | 30 to 45 | 175.7 | -- | 01/27/21 | 11.82 | 163.88 |
| | | | -- | 04/19/21 | 11.56 | 164.14 |
| | | | -- | 07/26/21 | 12.20 | 163.50 |
| | | | -- | 10/11/21 | 12.24 | 163.46 |
| | | | 45.66 | 04/25/22 | 11.76 | 163.94 |
| | | | -- | 11/14/22 | 12.24 | 163.46 |
| MW33 | 35 to 45 | 175.59 | -- | 11/14/22 | 12.66 | 162.93 |
| MW35 | 35 to 45 | 175.44 | -- | 11/14/22 | 13.14 | 162.30 |
| MW37 | 35 to 45 | 175.28 | -- | 11/14/22 | 13.62 | 161.66 |
| IW07 | 20 to 45 | -- | 42.18 | 01/27/20 | Too Much EOS | |
| IW15 | 20 to 45 | -- | 38.40 | 01/27/20 | | |
| IW22 | 20 to 45 | -- | 44.23 | 01/27/20 | | |
| IW34 | 20 to 45 | -- | 43.61 | 01/27/20 | | |
| IW60 | 8 to 31 | -- | -- | 01/27/20 | | |

NOTES:

⁽¹⁾Initial elevation data for wells obtained from the Draft Final Remedial Investigation/Feasibility Study Report prepared by Farallon and dated July 2013. Farallon survey based on North American Vertical Datum of 1988.

⁽²⁾As measured from a fixed spot on the well TOC.

-- = not measured
 bgs = below ground surface
 Farallon = Farallon Consulting LLC
 msl = mean sea level
 TOC = top of casing



Table 2
Groundwater Analytical Results for CVOCs
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

| Well ID | Sample ID | Sampled By | Sample Date | Sample Point Depth (feet bgs) | Analytical Results ⁽¹⁾ (micrograms per liter) | | | | | |
|--|---------------|--------------|-------------|-------------------------------|--|-------------------|-------------------|----------------------|--------------------|--------------------|
| | | | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | 1,1-DCE | Vinyl Chloride |
| Shallow Water-Bearing Zone Wells | | | | | | | | | | |
| MW01 | MW-1 | GeoEngineers | 10/30/03 | -- | < 2.0 | < 2.0 | < 2.0 | < 2.0 | -- | < 2.0 |
| | MW1-060206 | Farallon | 06/02/06 | 16.42 | 1.1 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW1-112008 | Farallon | 11/20/08 | 16.48 | 1.5 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW1-050410 | Farallon | 05/04/10 | 11.50 | 1.8 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW01-20140910 | SoundEarth | 09/10/14 | 13.50 | 1.6 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| | MW01-20181024 | SoundEarth | 10/24/18 | 11.50 | 0.85 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW01-20200129 | SoundEarth | 01/29/20 | 14.50 | 1.8 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW01-20200421 | SoundEarth | 04/21/20 | 15.50 | 1.0 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW01-20200721 | SoundEarth | 07/21/20 | 15.50 | 1.3 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW01-20201020 | SoundEarth | 10/20/20 | 15.50 | 2.1 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW01-20210128 | SoundEarth | 01/28/21 | 15.50 | 1.4 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW01-20210420 | SoundEarth | 04/20/21 | 15.00 | 1.2 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW01-20210727 | SoundEarth | 07/27/21 | 15.50 | 1.1 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW01-20211012 | SoundEarth | 10/12/21 | 16.00 | 1.3 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.10 |
| MW01-20220427 | SoundEarth | 04/27/22 | 15.00 | 1.1 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| MW01-20221117 | SoundEarth | 11/17/22 | 15.00 | 1.3 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| MW02 | MW-2 | GeoEngineers | 10/30/03 | -- | < 2.0 | < 2.0 | < 2.0 | < 2.0 | -- | < 2.0 |
| | MW2-060106 | Farallon | 06/01/06 | 17.50 | < 0.20 | 5.5 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW2-111908 | Farallon | 11/19/08 | 17.31 | 6.8 | 4.6 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW2-050410 | Farallon | 05/04/10 | 12.50 | 9.5 | 3.5 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW02-20140910 | SoundEarth | 09/10/14 | 11.50 | 4.0 | 0.49 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| | MW02-20181025 | SoundEarth | 10/25/18 | 12.50 | 1.7 | 0.61 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW02-20200129 | SoundEarth | 01/29/20 | 13.00 | 1.1 | 0.80 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW02-20200421 | SoundEarth | 04/21/20 | 13.00 | 1.3 | 0.53 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW02-20200721 | SoundEarth | 07/21/20 | 13.00 | 2.0 | 1.1 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW02-20201020 | SoundEarth | 10/20/20 | 13.00 | 2.7 | 1.2 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW02-20210128 | SoundEarth | 01/28/21 | 13.00 | 1.4 | 0.63 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW02-20210420 | SoundEarth | 04/20/21 | 12.00 | 1.4 | 0.47 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW02-20210727 | SoundEarth | 07/27/21 | 13.25 | 1.6 | 0.58 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW02-20211012 | SoundEarth | 10/12/21 | 15.00 | 1.7 | 0.68 | < 0.20 | < 0.20 | -- | < 0.10 |
| MW02-20220427 | SoundEarth | 04/27/22 | 15.00 | 0.95 | 0.54 | < 0.20 | < 0.20 | -- | < 0.20 | |
| MW02-20221117 | SoundEarth | 11/17/22 | 13.00 | 1.6 | 0.70 | < 0.20 | < 0.20 | -- | < 0.20 | |
| MW03 | MW-3 | GeoEngineers | 10/30/03 | -- | 170 | < 2.0 | < 2.0 | < 2.0 | -- | < 2.0 |
| | MW3-060106 | Farallon | 06/01/06 | 17.56 | 150 | 1.1 | < 1.0 | < 1.0 | -- | < 1.0 |
| | MW3-111908 | Farallon | 11/19/08 | 17.60 | 230 | 1.6 | 2.0 | < 1.0 | -- | < 1.0 |
| | MW3-050410 | Farallon | 05/04/10 | 12.50 | 150 | < 1.0 | < 1.0 | < 1.0 | -- | < 1.0 |
| | MW03-20140910 | SoundEarth | 09/10/14 | 8.50 | 64 | 0.58 | 0.79 | < 0.20 | < 0.20 | < 0.20 |
| | MW03-20181025 | SoundEarth | 10/25/18 | 12.50 | 54 | 0.61 | < 0.40 | < 0.40 | -- | < 0.40 |
| | MW03-20200129 | SoundEarth | 01/29/20 | 11.00 | < 0.40 | < 0.40 | 44 | 0.57 | -- | 16 |
| | MW03-20200421 | SoundEarth | 04/21/20 | 12.50 | < 0.20 | 0.20 | 6.3 | 0.55 | -- | 7.4 |
| | MW03-20200720 | SoundEarth | 07/20/20 | 12.50 | < 0.20 | 0.36 | 13 | 0.65 | -- | 13 |
| | MW03-20201020 | SoundEarth | 10/20/20 | 12.50 | < 0.20 | 0.57 | 13 | 0.48 | -- | 7.3 |
| | MW03-20210128 | SoundEarth | 01/28/21 | 12.50 | < 0.20 | 0.68 | 7.8 | 0.42 | -- | 4.2 |
| | MW03-20210420 | SoundEarth | 04/20/21 | 13.00 | < 0.20 | 0.61 | 7.0 | 0.54 | -- | 3.4 |
| | MW03-20210727 | SoundEarth | 07/27/21 | 13.30 | < 0.20 | 0.45 | 2.1 | 0.31 | -- | 2.1 |
| | MW03-20211012 | SoundEarth | 10/12/21 | 15.00 | < 0.20 | 0.42 | 2.7 | 0.23 | -- | 1.8 |
| MW03-20220425P* | SoundEarth | 04/25/22 | 12.00 | < 0.20 | 0.54 | 4.1 | 0.36 | -- | 2.7 | |
| MW03-20220427 | SoundEarth | 04/27/22 | 15.00 | < 0.20 | 0.81 | 6.6 | 0.35 | -- | 2.6 | |
| MW03-20221114P* | SoundEarth | 11/14/22 | 12.00 | < 0.20 | 0.64 | 5.2 | < 0.20 | -- | 1.9 | |
| MW03-20221117 | SoundEarth | 11/17/22 | 13.00 | < 0.20 | 1.2 | 5.6 | < 0.20 | -- | 1.9 | |
| MW04 | MW-4 | GeoEngineers | 10/30/03 | -- | 2,100 | 220 | 92 | < 2.0 | -- | 20 |
| | MW4-080504 | Farallon | 08/05/04 | 16.00 | 860 | 1,200 | 250 | < 10 | -- | 68 |
| | MW4-060206 | Farallon | 06/02/06 | 16.08 | 1,100 | 730 | 590 | < 10 | -- | 170 |
| | MW4-042007 | Farallon | 04/20/07 | 14.95 | 3,100 | 720 | 940 | < 20 | -- | 160 |
| | MW4-112008 | Farallon | 11/20/08 | 15.61 | 10,000 | 640 | 1,100 | < 50 | -- | 130 |
| | MW4-050510 | Farallon | 05/05/10 | 11.00 | 10,000 | 1,000 | 1,600 | < 50 | -- | 370 |
| | MW04-20140910 | SoundEarth | 09/10/14 | 12.50 | 28,000 | 3,400 | 3,800 | < 200 | < 200 | 920 |
| Monitoring Well Decommissioned | | | | | | | | | | |
| MW05 | MW-5 | GeoEngineers | 10/30/03 | -- | 270 | 46 | < 2.0 | < 2.0 | -- | < 2.0 |
| | MW5-060106 | Farallon | 06/01/06 | 15.45 | 54 | 9.6 | 3.3 | < 0.40 | -- | < 0.40 |
| | MW5-20080328 | SoundEarth | 03/28/08 | -- | 19 | 110 | 40 | < 1.0 | -- | 2.8 |
| | MW5-112008 | Farallon | 11/20/08 | 15.47 | 86 | 67 | 37 | 1.4 | -- | 5.5 |
| | MW5-050410 | Farallon | 05/04/10 | 10.00 | 82 | 34 | 27 | 0.44 | -- | 0.88 |
| | MW05-20140911 | SoundEarth | 09/11/14 | 13.50 | 71 | 22 | 5.6 | 0.27 | < 0.20 | < 0.20 |
| | MW05-20190207 | SoundEarth | 02/07/19 | 14.00 | 36 | 7.6 | 1.7 | < 0.20 | < 0.20 | < 0.20 |
| | MW05-20200128 | SoundEarth | 01/28/20 | 13.50 | 3.4 | 1.4 | 130 | < 1.0 | -- | 10 |
| | MW05-20200421 | SoundEarth | 04/21/20 | 14.50 | 2.3 | 1.2 | 170 | 1.3 | -- | 29 |
| | MW05-20200720 | SoundEarth | 07/20/20 | 14.50 | 1.1 | < 1.0 | 220 | 1.6 | -- | 56 |
| | MW05-20201020 | SoundEarth | 10/20/20 | 14.50 | 1.1 | 1.1 | 200 | 2.1 | -- | 83 |
| | MW05-20210128 | SoundEarth | 01/28/21 | 14.50 | 0.8 | < 0.8 | 69 | 1.6 | -- | 92 |
| | MW05-20210421 | SoundEarth | 04/21/21 | 13.75 | < 0.40 | 0.43 | 45 | 1.1 | -- | 60 |
| | MW05-20210727 | SoundEarth | 07/27/21 | 14.30 | < 0.40 | 0.70 | 28 | 0.91 | -- | 62 |
| | MW05-20211013 | SoundEarth | 10/13/21 | 15.00 | < 0.80 | < 0.80 | 10 | < 0.80 | -- | 56 |
| MW05-20220425P* | SoundEarth | 04/25/22 | 14.00 | < 0.20 | 0.50 | 3.5 | 0.27 | -- | 31 | |
| MW05-20220427 | SoundEarth | 04/27/22 | 15.00 | < 0.20 | < 0.20 | 0.81 | < 0.20 | -- | 3.4 | |
| MW05-20221114P* | SoundEarth | 11/14/22 | 14.00 | < 0.20 | 0.50 | 1.4 | 0.26 | -- | 26 | |
| MW05-20221117 | SoundEarth | 11/17/22 | 14.00 | < 0.20 | 0.46 | 1.0 | < 0.20 | -- | 9.4 | |
| MTCA Cleanup Levels for Groundwater | | | | | 5 ⁽²⁾ | 5 ⁽²⁾ | 16 ⁽³⁾ | 160 ⁽³⁾ | 400 ⁽³⁾ | 0.2 ⁽²⁾ |
| Commercial Remediation Levels for Groundwater | | | | | 120 ⁽⁴⁾ | 12 ⁽⁴⁾ | NE | 650 ⁽⁴⁾ | NE | 1.6 ⁽⁴⁾ |
| Roadway Excavation Remediation Levels for Groundwater | | | | | 760 ⁽⁴⁾ | 40 ⁽⁴⁾ | NE | 4,200 ⁽⁴⁾ | NE | 9.9 ⁽⁴⁾ |



Table 2
Groundwater Analytical Results for CVOCs
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

| Well ID | Sample ID | Sampled By | Sample Date | Sample Point Depth (feet bgs) | Analytical Results ⁽¹⁾ (micrograms per liter) | | | | | |
|--|--------------------------|--------------|-------------|-------------------------------|--|-------------------|-------------------|----------------------|--------------------|--------------------|
| | | | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | 1,1-DCE | Vinyl Chloride |
| MW06 | MW-6 | GeoEngineers | 11/08/04 | -- | 29 | 18 | 11 | < 2.0 | -- | 6.0 |
| | MW6-050410 | Farallon | 05/04/10 | 14.50 | 4,100 | 330 | 440 | < 20 | -- | 110 |
| | MW06-20141007 | SoundEarth | 10/07/14 | 17.50 | 10,000 | 450 | 320 | < 50 | < 50 | 72 |
| | MW06-20190207 | SoundEarth | 02/07/19 | 17.50 | 1,800 | 510 | 600 | < 50 | < 10 | 170 |
| | MW06-20200128 | SoundEarth | 01/28/20 | 17.00 | 38 | 130 | 210 | < 0.20 | -- | 33 |
| | MW06-20200421 | SoundEarth | 04/21/20 | 17.50 | 1.2 | 8.7 | 42 | 0.89 | -- | 26 |
| | MW06-20200721 | SoundEarth | 07/21/20 | 17.50 | 1.1 | 10 | 32 | 0.86 | -- | 25 |
| | MW06-20201020 | SoundEarth | 10/20/20 | 17.50 | 1.7 | 29 | 63 | 0.90 | -- | 36 |
| | MW06-20210128 | SoundEarth | 01/28/21 | 17.50 | 2.4 | 30 | 74 | 1.0 | -- | 59 |
| | MW06-20210420 | SoundEarth | 04/20/21 | 18.00 | 1.6 | 27 | 120 | 1.6 | -- | 160 |
| | MW06-20210727 | SoundEarth | 07/27/21 | 14.00 | 0.93 | 8.8 | 14 | 0.45 | -- | 10 |
| | MW06-20211012 | SoundEarth | 10/12/21 | 17.50 | 0.33 | 2.0 | 18 | 0.35 | -- | 14 |
| | MW06-20220426 | SoundEarth | 04/26/22 | 18.00 | 11.00 | 27.0 | 20 | 0.68 | -- | 13 |
| | (MW06 DUP) MW99-20220426 | SoundEarth | 04/26/22 | 18.00 | 5.30 | 16.0 | 20 | 0.67 | -- | 16 |
| MW06-20221115 | SoundEarth | 11/15/22 | 18.00 | 0.67 | 7.4 | 20 | 0.42 | -- | 20 | |
| (MW06 DUP) MW99-20221115 | SoundEarth | 11/15/22 | 18.00 | 0.57 | 5.3 | 17 | 0.39 | -- | 17 | |
| MW15 | MW15-060106 | Farallon | 06/01/06 | 16.12 | 0.22 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW15-112008 | Farallon | 11/20/08 | 13.20 | 0.26 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW15-050410 | Farallon | 05/04/10 | 12.50 | < 1.0 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW15-20140910 | SoundEarth | 09/10/14 | 17.50 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| | MW15-20181022 | SoundEarth | 10/22/18 | 12.50 | 0.78 | < 0.20 | 0.87 | < 0.20 | -- | < 0.20 |
| | MW15-20200128 | SoundEarth | 01/28/20 | 12.50 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW15-20200421 | SoundEarth | 04/21/20 | 10.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW15-20200721 | SoundEarth | 07/21/20 | 10.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW15-20201019 | SoundEarth | 10/19/20 | 10.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW15-20210127 | SoundEarth | 01/27/21 | 10.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW15-20210420 | SoundEarth | 04/20/21 | 12.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW15-20210726 | SoundEarth | 07/26/21 | 13.50 | 0.63 | 0.32 | 0.62 | < 0.20 | -- | < 0.20 |
| | MW15-20211012 | SoundEarth | 10/12/21 | 15.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.10 |
| | MW15-20220426 | SoundEarth | 04/26/22 | 15.00 | < 0.20 | < 0.20 | 0.25 | < 0.20 | -- | < 0.20 |
| MW15-20221116 | SoundEarth | 11/16/22 | 13.50 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | 0.26 | |
| MW16 | MW16-060106 | Farallon | 06/01/06 | 17.45 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW16-111908 | Farallon | 11/19/08 | 17.60 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW16-050510 | Farallon | 05/05/10 | 12.50 | < 1.0 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW16-20140909 | SoundEarth | 09/09/14 | 12.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| | MW16-20181022 | SoundEarth | 10/22/18 | 12.50 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| MW17 | MW17-060106 | Farallon | 06/01/06 | 17.19 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| Monitoring Well Decommissioned | | | | | | | | | | |
| MW19 | MW17-20080328 | SoundEarth | 03/28/08 | -- | < 1.0 | < 1.0 | < 1.0 | < 1.0 | -- | < 0.20 |
| | MW19-20090311 | SoundEarth | 03/11/09 | -- | < 1.0 | < 1.0 | < 1.0 | < 1.0 | -- | < 0.20 |
| | MW19-050310 | Farallon | 05/03/10 | 15.00 | < 1.0 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW19-20140909 | SoundEarth | 09/09/14 | 17.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| | MW19-20181024 | SoundEarth | 10/24/18 | 15.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| MW21 | MW21-112008 | Farallon | 11/20/08 | 21.74 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW21-050410 | Farallon | 05/04/10 | 19.00 | < 1.0 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW21-20140909 | SoundEarth | 09/09/14 | 19.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | 0.73 |
| | MW21-20181022 | SoundEarth | 10/22/18 | 19.00 | < 0.20 | < 0.20 | 1.7 | < 0.20 | -- | 0.37 |
| | MW21-20200129 | SoundEarth | 01/29/20 | 19.00 | 0.67 | < 0.20 | 8.0 | < 0.20 | -- | 1.9 |
| | MW21-20200421 | SoundEarth | 04/21/20 | 19.00 | < 0.20 | < 0.20 | 3.9 | < 0.20 | -- | 3.0 |
| | MW21-20200722 | SoundEarth | 07/22/20 | 19.00 | < 0.20 | < 0.20 | 4.4 | < 0.20 | -- | 2.3 |
| | MW21-20201020 | SoundEarth | 10/20/20 | 19.00 | 0.22 | < 0.20 | 2.6 | < 0.20 | -- | 4.5 |
| | MW21-20210128 | SoundEarth | 01/28/21 | 19.00 | < 0.20 | < 0.20 | 2.0 | < 0.20 | -- | 2.8 |
| | MW21-20210420 | SoundEarth | 04/20/21 | 19.00 | < 0.20 | < 0.20 | 1.7 | < 0.20 | -- | 2.4 |
| | MW21-20210727 | SoundEarth | 07/27/21 | 19.00 | < 0.20 | < 0.20 | 0.23 | < 0.20 | -- | 0.56 |
| | MW21-20211012 | SoundEarth | 10/12/21 | 18.00 | < 0.20 | < 0.20 | 0.29 | < 0.20 | -- | 0.67 |
| | MW21-20220426 | SoundEarth | 04/26/22 | 19.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| MW21-20221117 | SoundEarth | 11/17/22 | 19.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| MW23 | MW23-112008 | Farallon | 11/20/08 | 18.15 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW23-050410 | Farallon | 05/04/10 | 15.00 | < 1.0 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| Monitoring Well Decommissioned | | | | | | | | | | |
| MW24 | MW18-20080328 | SoundEarth | 03/28/08 | -- | 650 | < 10 | < 10 | < 10 | -- | < 2.0 |
| | MW24-112008 | Farallon | 11/20/08 | 15.25 | 360 | 3.4 | < 2.0 | < 2.0 | -- | < 2.0 |
| | MW24-20090304 | Farallon | 03/04/09 | -- | 290 | < 10 | < 10 | < 10 | -- | < 2.0 |
| | MW24-050510 | Farallon | 05/05/10 | 13.00 | 40 | 0.42 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW24-20140910 | SoundEarth | 09/10/14 | 15.00 | 17 | 0.27 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| | MW24-20181024 | SoundEarth | 10/24/18 | 13.00 | 20 | 0.24 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW24-20200129 | SoundEarth | 01/29/20 | 14.00 | 1.2 | < 0.20 | 2.4 | < 0.20 | -- | < 0.20 |
| | MW24-20200421 | SoundEarth | 04/21/20 | 15.50 | 1.3 | < 0.20 | 2.7 | < 0.20 | -- | < 0.20 |
| | MW24-20200721 | SoundEarth | 07/21/20 | 15.50 | 1.1 | < 0.20 | 6.0 | < 0.20 | -- | 0.25 |
| | MW24-20201019 | SoundEarth | 10/19/20 | 15.50 | 0.92 | < 0.20 | 8.6 | < 0.20 | -- | 0.43 |
| | MW24-20210128 | SoundEarth | 01/28/21 | 15.50 | 0.64 | < 0.20 | 1.7 | < 0.20 | -- | < 0.20 |
| | MW24-20210420 | SoundEarth | 04/20/21 | 15.00 | 0.47 | < 0.20 | 3.8 | < 0.20 | -- | 0.30 |
| | MW24-20210726 | SoundEarth | 07/26/21 | 15.00 | 0.39 | < 0.20 | 5.4 | < 0.20 | -- | 0.49 |
| | MW24-20211012 | SoundEarth | 10/12/21 | 15.00 | 0.35 | < 0.20 | 5.4 | < 0.20 | -- | 0.65 |
| | MW24-20220427 | SoundEarth | 04/27/22 | 15.00 | 0.22 | < 0.20 | 3.0 | < 0.20 | -- | 0.64 |
| MW24-20221116 | SoundEarth | 11/16/22 | 15.00 | 0.23 | < 0.20 | 0.38 | < 0.20 | -- | 2.5 | |
| MTCA Cleanup Levels for Groundwater | | | | | 5 ⁽²⁾ | 5 ⁽²⁾ | 16 ⁽³⁾ | 160 ⁽³⁾ | 400 ⁽³⁾ | 0.2 ⁽²⁾ |
| Commercial Remediation Levels for Groundwater | | | | | 120 ⁽⁴⁾ | 12 ⁽⁴⁾ | NE | 650 ⁽⁴⁾ | NE | 1.6 ⁽⁴⁾ |
| Roadway Excavation Remediation Levels for Groundwater | | | | | 760 ⁽⁴⁾ | 40 ⁽⁴⁾ | NE | 4,200 ⁽⁴⁾ | NE | 9.9 ⁽⁴⁾ |



Table 2
Groundwater Analytical Results for CVOCs
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

| Well ID | Sample ID | Sampled By | Sample Date | Sample Point Depth (feet bgs) | Analytical Results ⁽¹⁾ (micrograms per liter) | | | | | |
|--|----------------|------------|-------------|-------------------------------|--|-------------------------|-------------------------|----------------------------|--------------------------|--------------------------|
| | | | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | 1,1-DCE | Vinyl Chloride |
| MW25 | MW25-050410 | Farallon | 05/04/10 | 13.00 | 14 | 0.31 | 1.1 | < 0.20 | -- | < 0.20 |
| | MW25-20141007 | SoundEarth | 10/07/14 | 14.00 | 12 | 0.36 | 0.37 | < 0.20 | -- | < 0.20 |
| | MW25-20181025 | SoundEarth | 10/25/18 | 13.00 | 0.28 | < 0.20 | 0.75 | < 0.20 | -- | < 0.20 |
| | MW25-20200421 | SoundEarth | 04/21/20 | 13.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW25-20200721 | SoundEarth | 07/21/20 | 13.00 | 0.20 | 0.50 | 0.45 | < 0.20 | -- | < 0.20 |
| | MW25-20201020 | SoundEarth | 10/20/20 | 13.00 | 1.6 | 0.59 | 1.4 | < 0.20 | -- | < 0.20 |
| | MW25-20210128 | SoundEarth | 01/28/21 | 13.00 | 2.0 | 1.0 | 0.80 | < 0.20 | -- | < 0.20 |
| | MW25-20210420 | SoundEarth | 04/20/21 | 14.00 | 2.9 | 0.8 | 0.68 | < 0.20 | -- | < 0.20 |
| | MW25-20210727 | SoundEarth | 07/27/21 | 15.00 | 0.97 | 0.31 | 1.5 | < 0.20 | -- | < 0.20 |
| | MW25-20211012 | SoundEarth | 10/12/21 | 14.00 | 0.47 | 0.34 | 0.47 | < 0.20 | -- | < 0.10 |
| MW25-20220426 | SoundEarth | 04/26/22 | 14.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| MW25-20221115 | SoundEarth | 11/15/22 | 15.00 | < 0.20 | < 0.20 | 0.23 | < 0.20 | -- | < 0.20 | |
| MW26 | MW26-050410 | Farallon | 05/04/10 | 13.00 | < 1.0 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW26-20140910 | SoundEarth | 09/10/14 | 15.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| | MW26-20181022 | SoundEarth | 10/22/18 | 13.00 | 0.24 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW26-20200128 | SoundEarth | 01/28/20 | 14.00 | 0.28 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW26-20200421 | SoundEarth | 04/21/20 | 15.50 | 0.24 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW26-20200721 | SoundEarth | 07/21/20 | 15.50 | 1.4 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW26-20201019 | SoundEarth | 10/19/20 | 15.50 | 1.1 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW26-20210128 | SoundEarth | 01/28/21 | 15.50 | 0.41 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW26-20210420 | SoundEarth | 04/20/21 | 15.00 | 0.34 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW26-20210726 | SoundEarth | 07/26/21 | 15.00 | 0.49 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW26-20211012 | SoundEarth | 10/12/21 | 15.00 | 0.52 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.10 |
| MW26-20220427 | SoundEarth | 04/27/22 | 15.00 | 0.28 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| MW26-20221117 | SoundEarth | 11/17/22 | 15.00 | 0.54 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| MW27 | MW27-070111 | Farallon | 07/01/11 | 11.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW27-20141007 | SoundEarth | 10/07/14 | 12.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| | MW27-20190207 | SoundEarth | 02/07/19 | 13.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| | MW27-20200128 | SoundEarth | 01/28/20 | 12.50 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW27-20200421 | SoundEarth | 04/21/20 | 13.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW27-20200721 | SoundEarth | 07/21/20 | 13.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW27-20201020 | SoundEarth | 10/20/20 | 13.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW27-20210128 | SoundEarth | 01/28/21 | 13.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW27-20210420 | SoundEarth | 04/20/21 | 13.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW27-20210727 | SoundEarth | 07/27/21 | 13.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW27-20211012 | SoundEarth | 10/12/21 | 13.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.10 |
| MW27-20220426 | SoundEarth | 04/26/22 | 13.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| MW27-20221115 | SoundEarth | 11/15/22 | 13.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| MW28 | MW28-20190604 | SoundEarth | 06/04/19 | 14.00 | 3.1 | 4.9 | 50 | < 0.80 | -- | 16 |
| | MW28-20200128 | SoundEarth | 01/28/20 | 13.00 | 330 | 150 | 710 | 6.3 | -- | 130 |
| | MW28-20200422 | SoundEarth | 04/22/20 | 13.00 | 35 | 15 | 280 | 2.3 | -- | 65 |
| | MW28-20200721 | SoundEarth | 07/21/20 | 13.00 | 21 | 18 | 200 | 1.7 | -- | 60 |
| | MW28-20201020 | SoundEarth | 10/20/20 | 13.00 | 16 | 13 | 170 | 1.3 | -- | 50 |
| | MW28-20210128 | SoundEarth | 01/28/21 | 13.00 | 44 | 26 | 200 | 1.6 | -- | 49 |
| | MW28-20210421 | SoundEarth | 04/21/21 | 13.50 | 21 | 5.6 | 180 | 1.3 | -- | 41 |
| | MW28-20210727 | SoundEarth | 07/27/21 | 13.80 | 48 | 34 | 61 | 0.44 | -- | 23 |
| | MW28-20211013 | SoundEarth | 10/13/21 | 15.00 | 24 | 29 | 68 | 0.50 | -- | 19 |
| MW28-20220427 | SoundEarth | 04/27/22 | 15.00 | 5.7 | 5.6 | 150 | 1.1 | -- | 31 | |
| MW28-20221117 | SoundEarth | 11/17/22 | 13.00 | 3.7 | 6.1 | 100 | 0.81 | -- | 21 | |
| MW30 | MW30-20210127 | SoundEarth | 01/27/21 | 16.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW30-20210419 | SoundEarth | 04/19/21 | 11.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW30-20210726 | SoundEarth | 07/26/21 | 13.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW30-20211011 | SoundEarth | 10/11/21 | 14.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.10 |
| | MW30-20220426 | SoundEarth | 04/26/22 | 15.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW30-20221116 | SoundEarth | 11/16/22 | 13.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| MW32 | MW32-20221116 | SoundEarth | 11/16/22 | 20.00 | 25 | 0.65 | 0.65 | < 0.20 | -- | 1.7 |
| MW34 | MW34-20221116 | SoundEarth | 11/16/22 | 20.00 | 13 | 4.6 | 39 | < 0.20 | -- | 9.2 |
| MW36 | MW36-20221115 | SoundEarth | 11/15/22 | 20.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| TMW01 | TMW-1-040510 | Farallon | 04/05/10 | 13.75 | 15 | 0.29 | < 0.20 | < 0.20 | -- | < 0.20 |
| | TMW-1-20100405 | SoundEarth | 04/05/10 | -- | 16 | < 1.0 | < 1.0 | < 1.0 | -- | < 0.20 |
| Monitoring Well Decommissioned | | | | | | | | | | |
| TMW02 | TMW-2-040510 | Farallon | 04/05/10 | 13.79 | 110 | 1.5 | < 1.0 | < 1.0 | -- | < 1.0 |
| | TMW-2-20100405 | SoundEarth | 04/05/10 | -- | 150 | 1.5 | < 1.0 | < 1.0 | -- | < 0.20 |
| Monitoring Well Decommissioned | | | | | | | | | | |
| TMW03 | TMW-3-040510 | Farallon | 04/05/10 | 13.22 | 310 | 3.6 | < 2.0 | < 2.0 | -- | < 2.0 |
| | TMW-3-20100405 | SoundEarth | 04/05/10 | -- | 350 | 3.7 | < 1.0 | < 1.0 | -- | < 0.20 |
| Monitoring Well Decommissioned | | | | | | | | | | |
| MTCA Cleanup Levels for Groundwater | | | | | 5⁽²⁾ | 5⁽²⁾ | 16⁽³⁾ | 160⁽³⁾ | 400⁽³⁾ | 0.2⁽²⁾ |
| Commercial Remediation Levels for Groundwater | | | | | 120⁽⁴⁾ | 12⁽⁴⁾ | NE | 650⁽⁴⁾ | NE | 1.6⁽⁴⁾ |
| Roadway Excavation Remediation Levels for Groundwater | | | | | 760⁽⁴⁾ | 40⁽⁴⁾ | NE | 4,200⁽⁴⁾ | NE | 9.9⁽⁴⁾ |



Table 2
Groundwater Analytical Results for CVOCs
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

| Well ID | Sample ID | Sampled By | Sample Date | Sample Point Depth (feet bgs) | Analytical Results ⁽¹⁾ (micrograms per liter) | | | | | |
|--|----------------|------------|-------------|-------------------------------|--|-------------------------|-------------------------|----------------------------|--------------------------|--------------------------|
| | | | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | 1,1-DCE | Vinyl Chloride |
| IW08 | IW08-20200212* | SoundEarth | 02/12/20 | 13.00 | 1.0 | 0.32 | 12 | < 0.20 | -- | 0.39 |
| | IW08-20200526* | SoundEarth | 05/26/20 | 9.00 | 1.2 | 0.32 | 12 | < 0.20 | < 0.20 | 1.2 |
| | IW08-20200720* | SoundEarth | 07/20/20 | 9.00 | 0.77 | 0.48 | 14 | < 0.20 | -- | 0.74 |
| | IW08-20201019* | SoundEarth | 10/19/20 | 9.00 | 1.2 | 0.44 | 17 | < 0.20 | -- | 1.2 |
| | IW08-20210127* | SoundEarth | 01/27/21 | 9.00 | 1.4 | 0.44 | 30 | < 0.20 | -- | 2.1 |
| | IW08-20210419* | SoundEarth | 04/19/21 | 10.00 | 2.1 | 0.48 | 35 | < 0.40 | -- | 2.5 |
| | IW08-20210726* | SoundEarth | 07/26/21 | 10.00 | 1.7 | 0.56 | 31 | < 0.20 | -- | 1.1 |
| | IW08-20211011* | SoundEarth | 10/11/21 | 11.00 | 1.4 | 0.43 | 32 | < 0.20 | -- | 2.0 |
| IW08-20220425* | SoundEarth | 04/25/22 | 10.00 | 1.3 | 0.70 | 49 | < 0.40 | -- | 1.9 | |
| IW08-20221115* | SoundEarth | 11/15/22 | 11.00 | 1.6 | 0.63 | 39 | < 0.20 | -- | 1.8 | |
| IW16 | IW16-20200212* | SoundEarth | 02/12/20 | 12.50 | < 1.0 | 1.2 | 37 | < 1.0 | -- | 180 |
| | IW16-20200526* | SoundEarth | 05/26/20 | 13.50 | < 1.0 | 1.5 | 36 | < 1.0 | < 1.0 | 160 |
| | IW16-20200720* | SoundEarth | 07/20/20 | 13.50 | 0.71 | 1.4 | 33 | < 0.50 | -- | 120 |
| | IW16-20201019* | SoundEarth | 10/19/20 | 13.50 | 0.81 | 1.2 | 24 | < 0.40 | -- | 73 |
| | IW16-20210127* | SoundEarth | 01/27/21 | 13.50 | 1.2 | 1.6 | 17 | < 0.40 | -- | 56 |
| | IW16-20210419* | SoundEarth | 04/19/21 | 13.00 | 0.91 | 1.7 | 17 | < 0.40 | -- | 55 |
| | IW16-20210726* | SoundEarth | 07/26/21 | 13.00 | 0.87 | 1.2 | 12 | < 0.40 | -- | 42 |
| | IW16-20211011* | SoundEarth | 10/11/21 | 13.00 | 0.51 | 1.0 | 8.6 | 0.23 | -- | 35 |
| IW16-20220425* | SoundEarth | 04/25/22 | 12.00 | 0.92 | 1.7 | 7.7 | < 0.40 | -- | 29 | |
| IW16-20221115* | SoundEarth | 11/15/22 | 11.00 | 0.97 | 1.2 | 9.4 | < 0.20 | -- | 15 | |
| IW21 | IW21-20200212* | SoundEarth | 02/12/20 | 10.00 | < 10 | < 10 | 81 | < 10 | -- | 1,500 |
| | IW21-20200526* | SoundEarth | 05/26/20 | 10.00 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | 330 |
| | IW21-20200720* | SoundEarth | 07/20/20 | 10.00 | < 2.0 | < 2.0 | 6.7 | < 2.0 | -- | 400 |
| | IW21-20201019* | SoundEarth | 10/19/20 | 10.00 | < 4.0 | < 4.0 | < 4.0 | < 4.0 | -- | 740 |
| | IW21-20210127* | SoundEarth | 01/27/21 | 10.00 | < 0.80 | < 0.80 | < 0.80 | < 0.80 | -- | 87 |
| | IW21-20210419* | SoundEarth | 04/19/21 | 12.00 | < 4.0 | < 4.0 | 11 | < 4.0 | -- | 380 |
| | IW21-20210726* | SoundEarth | 07/26/21 | 12.00 | < 0.20 | 0.88 | 1.1 | < 0.20 | -- | 25 |
| | IW21-20211011* | SoundEarth | 10/11/21 | 12.00 | < 0.40 | 0.88 | 4.2 | < 0.40 | -- | 50 |
| IW21-20220425* | SoundEarth | 04/25/22 | 12.00 | < 4.00 | < 4.00 | 120 | < 4.00 | -- | 300 | |
| IW21-20221115* | SoundEarth | 11/15/22 | 10.00 | < 0.20 | 0.53 | 1.5 | 0.28 | -- | 4.5 | |
| IW31 | IW31-20200212* | SoundEarth | 02/12/20 | 13.00 | 0.36 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | IW31-20200526* | SoundEarth | 05/26/20 | 10.00 | 0.23 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| | IW31-20200720* | SoundEarth | 07/20/20 | 10.00 | 0.28 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | IW31-20201019* | SoundEarth | 10/19/20 | 10.00 | 0.35 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | IW31-20210127* | SoundEarth | 01/27/21 | 10.00 | 0.34 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | IW31-20210419* | SoundEarth | 04/19/21 | 13.00 | 0.33 | < 0.20 | 0.78 | < 0.20 | -- | < 0.20 |
| | IW31-20210726* | SoundEarth | 07/26/21 | 13.00 | 0.28 | < 0.20 | 0.21 | < 0.20 | -- | < 0.20 |
| | IW31-20211011* | SoundEarth | 10/11/21 | 13.00 | 0.29 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| IW31-20220425* | SoundEarth | 04/25/22 | 10.00 | 0.32 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| IW31-20221114* | SoundEarth | 11/14/22 | 10.00 | 0.22 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| IW33 | IW33-20190312* | SoundEarth | 03/12/19 | 13.00 | 6.3 | < 1.00 | < 1.00 | < 1.00 | -- | < 0.20 |
| | IW33-20200212* | SoundEarth | 02/12/20 | 12.50 | 1.1 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | IW33-20200526* | SoundEarth | 05/26/20 | 10.50 | 1.1 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| | IW33-20200720* | SoundEarth | 07/20/20 | 10.50 | 1.2 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | IW33-20201019* | SoundEarth | 10/19/20 | 10.50 | 1.0 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | IW33-20210127* | SoundEarth | 01/27/21 | 10.50 | 1.1 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | IW33-20210419* | SoundEarth | 04/19/21 | 11.00 | 1.1 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | IW33-20210726* | SoundEarth | 07/26/21 | 11.00 | 0.98 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| IW33-20211011* | SoundEarth | 10/11/21 | 14.00 | 0.90 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| IW33-20220425* | SoundEarth | 04/25/22 | 13.00 | 1.1 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| IW33-20221114* | SoundEarth | 11/14/22 | 12.00 | 0.96 | < 0.20 | 0.27 | < 0.20 | -- | < 0.20 | |
| IW57 | IW57-20221115* | SoundEarth | 11/15/22 | 6.00 | < 0.20 | 0.40 | 0.95 | < 0.20 | -- | 0.43 |
| IW59 | IW59-20200212* | SoundEarth | 02/12/20 | 4.00 | < 0.20 | 0.55 | 1.0 | < 0.20 | -- | 0.24 |
| | IW59-20200526* | SoundEarth | 05/26/20 | 4.00 | < 0.20 | 0.51 | 1.4 | < 0.20 | < 0.20 | 3.0 |
| | IW59-20200720* | SoundEarth | 07/20/20 | 4.00 | < 0.20 | 0.69 | 2.3 | < 0.20 | -- | 6.9 |
| | IW59-20201019* | SoundEarth | 10/19/20 | 4.00 | 0.22 | 1.8 | 5.0 | < 0.20 | -- | 15 |
| | IW59-20210127* | SoundEarth | 01/27/21 | 4.00 | 0.51 | 2.3 | 11 | < 0.20 | -- | 41 |
| | IW59-20210419* | SoundEarth | 04/19/21 | 4.00 | < 1.0 | 2.2 | 42 | < 1.0 | -- | 79 |
| | IW59-20210726* | SoundEarth | 07/26/21 | 4.00 | 0.48 | 2.0 | 61 | < 0.40 | -- | 87 |
| | IW59-20211011* | SoundEarth | 10/11/21 | 4.00 | < 0.80 | 1.7 | 94 | < 0.80 | -- | 130 |
| IW59-20220425* | SoundEarth | 04/25/22 | 3.00 | < 2.0 | < 2.0 | 140 | < 2.0 | -- | 160 | |
| IW59-20221115* | SoundEarth | 11/15/22 | 3.00 | < 0.80 | 1.1 | 140 | < 0.80 | -- | 100 | |
| IW61 | IW61-20221115* | SoundEarth | 11/15/22 | 6.00 | < 0.20 | < 0.20 | 0.42 | < 0.20 | -- | 10 |
| MTCA Cleanup Levels for Groundwater | | | | | 5⁽²⁾ | 5⁽²⁾ | 16⁽³⁾ | 160⁽³⁾ | 400⁽³⁾ | 0.2⁽²⁾ |
| Commercial Remediation Levels for Groundwater | | | | | 120⁽⁴⁾ | 12⁽⁴⁾ | NE | 650⁽⁴⁾ | NE | 1.6⁽⁴⁾ |
| Roadway Excavation Remediation Levels for Groundwater | | | | | 760⁽⁴⁾ | 40⁽⁴⁾ | NE | 4,200⁽⁴⁾ | NE | 9.9⁽⁴⁾ |



Table 2
Groundwater Analytical Results for CVOCs
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

| Well ID | Sample ID | Sampled By | Sample Date | Sample Point Depth (feet bgs) | Analytical Results ⁽¹⁾ (micrograms per liter) | | | | | |
|--|----------------|------------|-------------|-------------------------------|--|-------------------------|-------------------------|----------------------------|--------------------------|--------------------------|
| | | | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | 1,1-DCE | Vinyl Chloride |
| Deep Water-Bearing Zone Wells | | | | | | | | | | |
| MW07 | MW7-111904-01 | Farallon | 11/19/04 | 26.00 | 7,000 | 47 | < 20 | < 20 | -- | < 20 |
| | MW7-060206 | Farallon | 06/02/06 | 29.00 | 530 | 16 | < 4.0 | < 4.0 | -- | < 4.0 |
| | MW7-042007 | Farallon | 04/20/07 | 28.00 | 2.5 | < 2.0 | < 2.0 | < 2.0 | -- | < 2.0 |
| | MW7-112008 | Farallon | 11/20/08 | 28.67 | 18.0 | 0.69 | < 2.0 | < 2.0 | -- | < 2.0 |
| | MW7-050410 | Farallon | 05/04/10 | 26.00 | 12.0 | 0.49 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW07-20140910 | SoundEarth | 09/10/14 | 26.00 | 4.5 | 0.26 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| Monitoring Well Decommissioned | | | | | | | | | | |
| MW08 | MW8-111904-01 | Farallon | 11/19/04 | 35.00 | 0.36 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW8-060106 | Farallon | 06/01/06 | 38.09 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW8-111908 | Farallon | 11/19/08 | 38.15 | 0.70 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW8-050510 | Farallon | 05/04/10 | 35.00 | < 1.0 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW08-20140909 | SoundEarth | 09/09/14 | 30.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| | MW08-20181025 | SoundEarth | 10/25/18 | 37.50 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW08-20200128 | SoundEarth | 01/28/20 | 35.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW08-20200421 | SoundEarth | 04/21/20 | 35.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW08-20200720 | SoundEarth | 07/20/20 | 35.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW08-20201019 | SoundEarth | 10/19/20 | 35.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW08-20210127 | SoundEarth | 01/27/21 | 35.00 | 4.4 | 0.23 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW08-20210420 | SoundEarth | 04/20/21 | 35.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW08-20210726 | SoundEarth | 07/26/21 | 35.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW08-20211012 | SoundEarth | 10/12/21 | 15.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.10 |
| MW08-20220426 | SoundEarth | 04/26/22 | 35.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| MW08-20221116 | SoundEarth | 11/16/22 | 35.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| MW09 | MW9-111904-01 | Farallon | 11/19/04 | 35.00 | 210 | < 1.0 | < 1.0 | < 1.0 | -- | < 1.0 |
| | MW9-060106 | Farallon | 06/01/06 | 37.81 | 390 | < 2.0 | < 2.0 | < 2.0 | -- | < 2.0 |
| | MW9-042007 | Farallon | 04/20/07 | 36.75 | 410 | < 2.0 | < 2.0 | < 2.0 | -- | < 2.0 |
| | MW9-112008 | Farallon | 11/20/08 | 37.81 | 220 | < 2.0 | < 2.0 | < 2.0 | -- | < 2.0 |
| | MW9-050410 | Farallon | 05/04/10 | 35.00 | 190 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW09-20140910 | SoundEarth | 09/10/14 | 35.00 | 89 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| | MW09-20181024 | SoundEarth | 10/24/18 | 35.00 | 160 | < 1.0 | < 1.0 | < 1.0 | -- | < 1.0 |
| | MW09-20200129 | SoundEarth | 01/29/20 | 35.00 | 97 | 3.4 | 160 | < 1.0 | -- | < 1.0 |
| | MW09-20200421 | SoundEarth | 04/21/20 | 35.00 | 72 | 4.6 | 120 | < 1.0 | -- | < 0.20 |
| | MW09-20200721 | SoundEarth | 07/21/20 | 35.00 | 130 | 11 | 170 | 1.4 | -- | < 0.20 |
| | MW09-20201020 | SoundEarth | 10/20/20 | 35.00 | 250 | 13 | 110 | < 1.0 | -- | < 0.20 |
| | MW09-20210128 | SoundEarth | 01/28/21 | 35.00 | 350 | 8.0 | 43 | < 2.0 | -- | < 0.20 |
| | MW09-20210420 | SoundEarth | 04/20/21 | 35.00 | 310 | 6.9 | 30 | < 2.0 | -- | < 0.20 |
| | MW09-20210727 | SoundEarth | 07/27/21 | 35.00 | 410 | 4.3 | 23 | < 2.0 | -- | < 0.20 |
| MW09-20211013 | SoundEarth | 10/13/21 | 35.00 | 380 | 3.9 | 20 | < 0.40 | -- | < 0.20 | |
| MW09-20220427 | SoundEarth | 04/27/22 | 35.00 | 420 | 4.4 | 15 | < 0.20 | -- | < 0.20 | |
| MW09-20221117 | SoundEarth | 11/17/22 | 35.00 | 670 | < 4.0 | 10 | < 4.0 | -- | < 0.20 | |
| MW10 | MW10-111904-01 | Farallon | 11/19/04 | 34.98 | 2.5 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW10-060106 | Farallon | 06/01/06 | 37.98 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW10-042007 | Farallon | 04/20/07 | 37.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW10-112008 | Farallon | 11/20/08 | 38.01 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW10-050410 | Farallon | 05/04/10 | 35.00 | 3.30 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW10-20140910 | SoundEarth | 09/10/14 | 35.00 | 600 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| | MW10-20181024 | SoundEarth | 10/24/18 | 35.00 | 210 | < 2.0 | < 2.0 | < 2.0 | -- | < 2.0 |
| | MW10-20190409 | SoundEarth | 04/09/19* | 35.00 | 21 | 1.1 | 1.8 | < 0.20 | -- | < 0.20 |
| | MW10-20200129 | SoundEarth | 01/29/20 | 35.00 | 6.5 | 3.3 | 250 | < 1.0 | -- | 1.6 |
| | MW10-20200422 | SoundEarth | 04/22/20 | 35.00 | < 2.0 | < 2.0 | 270 | < 2.0 | -- | 1.5 |
| | MW10-20200722 | SoundEarth | 07/22/20 | 35.00 | < 2.0 | < 2.0 | 270 | < 2.0 | -- | 1.3 |
| | MW10-20201020 | SoundEarth | 10/20/20 | 35.00 | 6.5 | 3.6 | 480 | < 2.0 | -- | 1.2 |
| | MW10-20210128 | SoundEarth | 01/28/21 | 35.00 | 11 | 6.5 | 420 | < 2.0 | -- | 0.91 |
| | MW10-20210420 | SoundEarth | 04/20/21 | 35.00 | 47 | 15 | 650 | < 4.0 | -- | 1.3 |
| | MW10-20210726 | SoundEarth | 07/26/21 | 35.00 | 19 | 8.9 | 400 | < 2.0 | -- | 0.78 |
| MW10-20211012 | SoundEarth | 10/12/21 | 35.00 | 9.3 | 5.3 | 150 | 0.48 | -- | 0.56 | |
| MW10-20220426 | SoundEarth | 04/26/22 | 35.00 | 1.7 | 1.5 | 120 | < 0.80 | -- | 0.50 | |
| MW10-20221117 | SoundEarth | 11/17/22 | 35.00 | 4.5 | 3.3 | 80 | < 0.40 | -- | 0.45 | |
| MW11 | MW11-060206 | Farallon | 06/02/06 | 62.30 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW11-112008 | Farallon | 11/20/08 | 63.30 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW11-050310 | Farallon | 05/03/10 | 62.50 | < 1.0 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW11-20141007 | SoundEarth | 10/07/14 | 62.50 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| MW12 | MW12-060206 | Farallon | 06/02/06 | 60.51 | 0.76 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW12-111908 | Farallon | 11/19/08 | 64.10 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW12-050310 | Farallon | 05/03/10 | 62.00 | < 1.0 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW12-20140909 | SoundEarth | 09/09/14 | 62.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| | MW12-20181024 | SoundEarth | 10/24/18 | 62.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| MW13 | MW13-060206 | Farallon | 06/02/06 | 60.90 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW13-042007 | Farallon | 04/20/07 | 63.18 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW13-111908 | Farallon | 11/19/08 | 64.22 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW13-050310 | Farallon | 05/03/10 | 60.00 | < 1.0 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW13-20140909 | SoundEarth | 09/09/14 | 60.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| | MW13-20181024 | SoundEarth | 10/24/18 | 60.50 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| MW14 | MW14-060206 | Farallon | 06/02/06 | 71.31 | 0.99 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW14-032507 | Farallon | 03/25/07 | 70.08 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW14-042007 | Farallon | 04/20/07 | 68.80 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW14-112008 | Farallon | 11/20/08 | 70.16 | 1.1 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW14-050410 | Farallon | 05/04/10 | 68.00 | < 1.0 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW14-20140910 | SoundEarth | 09/10/14 | 68.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| Monitoring Well Decommissioned | | | | | | | | | | |
| MTCA Cleanup Levels for Groundwater | | | | | 5⁽²⁾ | 5⁽²⁾ | 16⁽³⁾ | 160⁽³⁾ | 400⁽³⁾ | 0.2⁽²⁾ |
| Commercial Remediation Levels for Groundwater | | | | | 120⁽⁴⁾ | 12⁽⁴⁾ | NE | 650⁽⁴⁾ | NE | 1.6⁽⁴⁾ |
| Roadway Excavation Remediation Levels for Groundwater | | | | | 760⁽⁴⁾ | 40⁽⁴⁾ | NE | 4,200⁽⁴⁾ | NE | 9.9⁽⁴⁾ |



Table 2
Groundwater Analytical Results for CVOCs
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

| Well ID | Sample ID | Sampled By | Sample Date | Sample Point Depth (feet bgs) | Analytical Results ⁽¹⁾ (micrograms per liter) | | | | | |
|--|--------------------------------|------------|-------------|-------------------------------|--|-------------------------|-------------------------|----------------------------|--------------------------|--------------------------|
| | | | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | 1,1-DCE | Vinyl Chloride |
| MW18 | MW18-060106 | Farallon | 06/01/06 | 75.92 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | Monitoring Well Decommissioned | | | | | | | | | |
| MW20 | MW20-112008 | Farallon | 11/20/08 | 47.19 | 0.28 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW20-050410 | Farallon | 05/04/10 | 45.00 | < 1.0 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| Monitoring Well Decommissioned | | | | | | | | | | |
| MW22 | MW22-112008 | Farallon | 11/20/08 | 47.19 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW22-050410 | Farallon | 05/04/10 | 44.00 | < 1.0 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW22-20140910 | SoundEarth | 09/10/14 | 44.50 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| | MW22-20181024 | SoundEarth | 10/24/18 | 44.50 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW22-20200128 | SoundEarth | 01/28/20 | 45.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW22-20200421 | SoundEarth | 04/21/20 | 44.50 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW22-20200721 | SoundEarth | 07/21/20 | 44.50 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW22-20201019 | SoundEarth | 10/19/20 | 44.50 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW22-20210127 | SoundEarth | 01/27/21 | 44.50 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW22-20210420 | SoundEarth | 04/20/21 | 44.50 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW22-20210726 | SoundEarth | 07/26/21 | 45.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW22-20211012 | SoundEarth | 10/12/21 | 45.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.10 |
| | MW22-20220426 | SoundEarth | 04/26/22 | 45.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| MW22-20221116 | SoundEarth | 11/16/22 | 45.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 | |
| MW29 | MW29-20190521 | SoundEarth | 05/21/19 | 45.00 | 11 | 0.62 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW29-20200128 | SoundEarth | 01/28/20 | 45.00 | 4.5 | 1.1 | 2.8 | < 0.20 | -- | < 0.20 |
| | MW29-20200422 | SoundEarth | 04/22/20 | 40.00 | 0.79 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW29-20200721 | SoundEarth | 07/21/20 | 40.00 | 4.6 | 1.5 | 0.86 | < 0.20 | -- | < 0.20 |
| | MW29-20201019 | SoundEarth | 10/19/20 | 40.00 | 4.5 | 1.2 | 0.55 | < 0.20 | -- | < 0.20 |
| | MW29-20210128 | SoundEarth | 01/28/21 | 40.00 | 7.1 | 1.5 | 0.30 | < 0.20 | -- | < 0.20 |
| | MW29-20210420 | SoundEarth | 04/20/21 | 45.00 | 7.2 | 1.3 | 0.21 | < 0.20 | -- | < 0.20 |
| | MW29-20210726 | SoundEarth | 07/26/21 | 45.00 | 4.8 | 0.53 | < 0.20 | < 0.20 | -- | < 0.20 |
| | MW29-20211012 | SoundEarth | 10/12/21 | -- | 5.3 | 0.87 | < 0.20 | < 0.20 | -- | < 0.10 |
| MW29-20220427 | SoundEarth | 04/27/22 | 45.00 | 1.4 | 0.78 | 2.7 | < 0.20 | -- | < 0.20 | |
| MW29-20221116 | SoundEarth | 11/16/22 | 45.00 | 2.4 | 0.82 | < 0.20 | < 0.20 | -- | < 0.20 | |
| MW31 | MW31-20210127 | SoundEarth | 01/27/21 | 37.00 | 16,000 | 780 | 940 | < 200 | -- | < 200 |
| | MW31-20210419 | SoundEarth | 04/19/21 | 37.50 | 19,000 | 2,600 | 3,400 | < 100 | -- | < 10 |
| | MW31-20210726 | SoundEarth | 07/26/21 | 37.50 | 480 | 790 | 15,000 | 110 | -- | 12 |
| | MW31-20210819 | SoundEarth | 08/19/21 | 38.00 | 350 | 360 | 16,000 | 140 | -- | 20 |
| | MW31-20211011 | SoundEarth | 10/11/21 | 37.50 | 370 | 410 | 11,000 | 150 | -- | 65 |
| | MW31-20220426 | SoundEarth | 04/26/22 | -- | 110 | 12 | 13,000 | 120 | -- | 570 |
| | MW31-20221116 | SoundEarth | 11/16/22 | 38.00 | 55 | < 25 | 10,000 | 85 | -- | 1,100 |
| MW33 | MW33-20221116 | SoundEarth | 11/16/22 | 40.00 | 4.5 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| MW35 | MW35-20221115 | SoundEarth | 11/15/22 | 40.00 | 3,300 | 110 | 310 | < 0.20 | -- | 2.8 |
| MW37 | MW37-20221115 | SoundEarth | 11/15/22 | 40.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| IW07 | IW07-20200212* | SoundEarth | 02/12/20 | 32.00 | < 0.20 | < 0.20 | 1.5 | < 0.20 | -- | < 0.20 |
| | IW07-20200526* | SoundEarth | 05/26/20 | 32.00 | < 0.20 | < 0.20 | 1.8 | < 0.20 | < 0.20 | < 0.20 |
| | IW07-20200720* | SoundEarth | 07/20/20 | 32.00 | < 0.20 | < 0.20 | 1.9 | < 0.20 | -- | < 0.20 |
| | IW07-20201019* | SoundEarth | 10/19/20 | 32.00 | < 0.20 | < 0.20 | 1.5 | < 0.20 | -- | < 0.20 |
| | IW07-20210127* | SoundEarth | 01/27/21 | 32.00 | < 0.20 | < 0.20 | 1.8 | < 0.20 | -- | 0.23 |
| | IW07-20210419* | SoundEarth | 04/19/21 | 32.00 | < 0.20 | < 0.20 | 1.5 | < 0.20 | -- | 0.32 |
| | IW07-20210726* | SoundEarth | 07/26/21 | 32.00 | < 0.20 | < 0.20 | 1.5 | < 0.20 | -- | 0.32 |
| | IW07-20211011* | SoundEarth | 10/11/21 | 32.00 | < 0.20 | < 0.20 | 1.4 | < 0.20 | -- | 0.32 |
| IW07-20220425* | SoundEarth | 04/25/22 | 32.00 | < 0.20 | < 0.20 | 1.4 | < 0.20 | -- | 0.44 | |
| IW07-20221115* | SoundEarth | 11/15/22 | 32.00 | < 0.20 | < 0.20 | 1.4 | < 0.20 | -- | 0.24 | |
| IW15 | IW15-20200212* | SoundEarth | 02/12/20 | 29.00 | 0.21 | < 0.20 | 3.3 | < 0.20 | -- | 0.58 |
| | IW15-20200526* | SoundEarth | 05/26/20 | 32.00 | 0.34 | 0.44 | 18 | < 0.20 | < 0.20 | 11 |
| | IW15-20200720* | SoundEarth | 07/20/20 | 32.00 | 0.36 | 0.58 | 28 | < 0.20 | -- | 19 |
| | IW15-20201019* | SoundEarth | 10/19/20 | 32.00 | 0.33 | 0.45 | 27 | < 0.20 | -- | 20 |
| | IW15-20210127* | SoundEarth | 01/27/21 | 32.00 | 0.65 | < 0.40 | 40 | < 0.40 | -- | 28 |
| | IW15-20210419* | SoundEarth | 04/19/21 | 32.00 | 0.57 | 1.5 | 69 | < 0.40 | -- | 37 |
| | IW15-20210726* | SoundEarth | 07/26/21 | 32.00 | 0.51 | 1.0 | 49 | < 0.40 | -- | 24 |
| | IW15-20211011* | SoundEarth | 10/11/21 | 32.00 | 0.37 | 0.64 | 35 | < 0.20 | -- | 14 |
| IW15-20220425* | SoundEarth | 04/25/22 | 32.00 | < 0.80 | 1.6 | 57 | < 0.80 | -- | 19 | |
| IW15-20221115* | SoundEarth | 11/15/22 | 32.00 | 0.55 | 1.3 | 46 | 0.21 | -- | 8.6 | |
| IW22 | IW22-20200212* | SoundEarth | 02/12/20 | 32.00 | < 0.20 | < 0.20 | 1.5 | < 0.20 | -- | 30 |
| | IW22-20200526* | SoundEarth | 05/26/20 | 32.00 | < 0.50 | < 0.50 | 4.8 | < 0.50 | < 0.50 | 91 |
| | IW22-20200720* | SoundEarth | 07/20/20 | 32.00 | < 1.0 | < 1.0 | 8.5 | < 1.0 | -- | 160 |
| | IW22-20201019* | SoundEarth | 10/19/20 | 32.00 | < 1.0 | < 1.0 | 8.2 | < 1.0 | -- | 150 |
| | IW22-20210127* | SoundEarth | 01/27/21 | 32.00 | < 1.0 | < 1.0 | 12 | < 1.0 | -- | 180 |
| | IW22-20210419* | SoundEarth | 04/19/21 | 32.00 | < 2.0 | < 2.0 | 17 | < 2.0 | -- | 210 |
| | IW22-20210726* | SoundEarth | 07/26/21 | 32.00 | < 2.0 | < 2.0 | 16 | < 2.0 | -- | 250 |
| | IW22-20211011* | SoundEarth | 10/11/21 | 32.00 | < 2.0 | < 2.0 | 20 | < 2.0 | -- | 240 |
| IW22-20220425* | SoundEarth | 04/25/22 | 32.00 | < 4.0 | < 4.0 | 30 | < 4.0 | -- | 280 | |
| IW22-20221115* | SoundEarth | 11/15/22 | 32.00 | < 1.0 | < 1.0 | 33 | < 1.0 | -- | 190 | |
| MTCA Cleanup Levels for Groundwater | | | | | 5⁽²⁾ | 5⁽²⁾ | 16⁽³⁾ | 160⁽³⁾ | 400⁽³⁾ | 0.2⁽²⁾ |
| Commercial Remediation Levels for Groundwater | | | | | 120⁽⁴⁾ | 12⁽⁴⁾ | NE | 650⁽⁴⁾ | NE | 1.6⁽⁴⁾ |
| Roadway Excavation Remediation Levels for Groundwater | | | | | 760⁽⁴⁾ | 40⁽⁴⁾ | NE | 4,200⁽⁴⁾ | NE | 9.9⁽⁴⁾ |



Table 2
Groundwater Analytical Results for CVOCs
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

| Well ID | Sample ID | Sampled By | Sample Date | Sample Point Depth (feet bgs) | Analytical Results ⁽¹⁾ (micrograms per liter) | | | | | |
|--|----------------|----------------|-------------|-------------------------------|--|-------------------|-------------------|----------------------|--------------------|--------------------|
| | | | | | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | 1,1-DCE | Vinyl Chloride |
| IW32 | IW32-20200212* | SoundEarth | 02/12/20 | 33.00 | < 40 | 950 | 7,100 | 73 | -- | 250 |
| | IW32-20200526* | SoundEarth | 05/26/20 | 32.00 | < 50 | 370 | 5,700 | < 50 | < 50 | 250 |
| | IW32-20200720* | SoundEarth | 07/20/20 | 32.00 | < 50 | 260 | 5,400 | < 50 | -- | 250 |
| | IW32-20210109* | SoundEarth | 10/19/20 | 32.00 | 23 | 200 | 4,600 | 35 | -- | 240 |
| | IW32-20210127* | SoundEarth | 01/27/21 | 32.00 | 45 | 320 | 5,800 | 45 | -- | 320 |
| | IW32-20210419* | SoundEarth | 04/19/21 | 32.00 | < 40 | 170 | 6,100 | 53 | -- | 430 |
| | IW32-20210726* | SoundEarth | 07/26/21 | 32.00 | < 50 | 160 | 10,000 | 89 | -- | 1,300 |
| | IW32-20211011* | SoundEarth | 10/11/21 | 32.00 | < 40 | 130 | 7,000 | 55 | -- | 1,200 |
| IW34 | IW34-20220425* | SoundEarth | 04/25/22 | 32.00 | < 50 | 120 | 5,400 | < 50 | -- | 960 |
| | IW34-20221114* | SoundEarth | 11/14/22 | 32.00 | < 30 | 130 | 6,100 | 32 | -- | 1,000 |
| | IW34-20190409* | SoundEarth | 04/09/19 | 33.00 | 230 | 21 | 11 | < 1.0 | -- | 1.0 |
| | IW34-20200212* | SoundEarth | 02/12/20 | 33.00 | 360 | 3,100 | 4,100 | 50 | -- | 100 |
| | IW34-20200526* | SoundEarth | 05/26/20 | 32.00 | 310 | 2,400 | 7,700 | 83 | < 50 | 160 |
| | IW34-20200720* | SoundEarth | 07/20/20 | 32.00 | 290 | 2,300 | 11,000 | 110 | -- | 220 |
| | IW34-20210109* | SoundEarth | 10/19/20 | 32.00 | 230 | 1,400 | 13,000 | 140 | -- | 280 |
| | IW34-20210127* | SoundEarth | 01/27/21 | 32.00 | < 200 | 990 | 17,000 | < 200 | -- | 360 |
| IW36 | IW34-20210419* | SoundEarth | 04/19/21 | 32.00 | 170 | 650 | 20,000 | 240 | -- | 480 |
| | IW34-20210726* | SoundEarth | 07/26/21 | 32.00 | < 200 | 230 | 24,000 | 320 | -- | 460 |
| | IW34-20211011* | SoundEarth | 10/11/21 | 32.00 | < 200 | < 200 | 26,000 | 330 | -- | 560 |
| | IW34-20220425* | SoundEarth | 04/25/22 | 32.00 | < 10 | < 10 | 34,000 | 500 | -- | 810 |
| | IW34-20221114* | SoundEarth | 11/14/22 | 32.00 | < 300 | < 300 | 36,000 | 600 | -- | 860 |
| | IW36-20190409* | SoundEarth | 04/09/19 | 33.00 | 0.37 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | -- | -- | 02/12/20 | -- | -- | -- | -- | -- | -- | -- |
| | IW60 | IW60-20200526* | SoundEarth | 05/26/20 | 20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| IW60-20200720* | | SoundEarth | 07/20/20 | 20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| IW60-20210109* | | SoundEarth | 10/19/20 | 20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| IW60-20210127* | | SoundEarth | 01/27/21 | 20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| IW60-20210419* | | SoundEarth | 04/19/21 | 20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| IW60-20210726* | | SoundEarth | 07/26/21 | 20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| IW60-20211011* | | SoundEarth | 10/11/21 | 20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| IW60-20220425* | | SoundEarth | 04/25/22 | 20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| DZ-B01 | DZ-B01-20-30 | SoundEarth | 07/20/21 | 25.00 | 3,600 | 520 | 5,900 | < 30 | -- | 1,800 |
| | DZ-B01-40-50 | SoundEarth | 07/20/21 | 45.00 | 10,000 | 160 | 310 | < 50 | -- | 67 |
| DZ-B02 | DZ-B02-20-30 | SoundEarth | 07/22/21 | 25.00 | 10,000 | 980 | 1,900 | < 100 | -- | 180 |
| | DZ-B02-40-50 | SoundEarth | 07/22/21 | 45.00 | 1,300 | 180 | 420 | < 10 | -- | 32 |
| DZ-B03 | DZ-B03-20-30 | SoundEarth | 07/22/21 | 25.00 | 22,000 | 1,500 | 6,600 | < 200 | -- | 590 |
| | DZ-B03-35-45 | SoundEarth | 07/22/21 | 40.00 | 12,000 | 420 | 920 | < 100 | -- | 62 |
| DZ-B04 | DZ-B04-20-30 | SoundEarth | 07/23/21 | 25.00 | 130 | 3.9 | 270 | < 2.0 | -- | 280 |
| | DZ-B04-40-50 | SoundEarth | 07/23/21 | 45.00 | 80 | 0.75 | 1.0 | < 0.40 | -- | 0.50 |
| DZ-B05 | DZ-B05-20-30 | SoundEarth | 02/24/22 | 25.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | DZ-B05-40-50 | SoundEarth | 02/25/22 | 45.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | DZ-B05-60-70 | SoundEarth | 02/25/22 | 65.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| DZ-B06 | DZ-B06-20-30 | SoundEarth | 02/28/22 | 25.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | DZ-B06-40-50 | SoundEarth | 02/28/22 | 45.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | DZ-B06-60-70 | SoundEarth | 03/01/22 | 65.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| DZ-B07 | DZ-B07-20-30 | SoundEarth | 03/03/22 | 25.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | DZ-B07-40-50 | SoundEarth | 03/03/22 | 45.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | DZ-B07-60-70 | SoundEarth | 03/03/22 | 65.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| DZ-B08 | DZ-B08-20-30 | SoundEarth | 03/01/22 | 25.00 | 33 | 0.51 | < 0.20 | < 0.20 | -- | < 0.20 |
| | DZ-B08-40-50 | SoundEarth | 03/02/22 | 45.00 | 2.6 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | DZ-B08-60-70 | SoundEarth | 03/02/22 | 65.00 | 0.40 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| DZ-B09 | DZ-B09-20-30 | SoundEarth | 02/22/22 | 25.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | DZ-B09-40-50 | SoundEarth | 02/22/22 | 45.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| | DZ-B09-60-70 | SoundEarth | 02/23/22 | 65.00 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | -- | < 0.20 |
| MTCA Cleanup Levels for Groundwater | | | | | 5 ⁽²⁾ | 5 ⁽²⁾ | 16 ⁽³⁾ | 160 ⁽³⁾ | 400 ⁽³⁾ | 0.2 ⁽²⁾ |
| Commercial Remediation Levels for Groundwater | | | | | 120 ⁽⁴⁾ | 12 ⁽⁴⁾ | NE | 650 ⁽⁴⁾ | NE | 1.6 ⁽⁴⁾ |
| Roadway Excavation Remediation Levels for Groundwater | | | | | 760 ⁽⁴⁾ | 40 ⁽⁴⁾ | NE | 4,200 ⁽⁴⁾ | NE | 9.9 ⁽⁴⁾ |

NOTES:

Red denotes concentration exceeds MTCA cleanup level for groundwater.

* denotes sample was collected using a passive diffusion bag sampler.

Samples analyzed by OnSite Environmental, Inc. of Redmond, Washington.

⁽¹⁾Analyzed by EPA Method 8260B, 8260C, or 8260D.

⁽²⁾MTCA Cleanup Regulation, Chapter 173-340-900 of WAC, Table 720-1 Method A Cleanup Levels for Groundwater, revised November 2007.

⁽³⁾MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Groundwater, Method B, Non-Carcinogen, Standard Formula Value, CLARC Website <<https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>>.

⁽⁴⁾Washington State Department of Ecology Toxics Cleanup Program Memorandum, Air, Soil Gas, and Groundwater Remediation Levels for Vapor Intrusion in Commercial and Excavation Scenarios, Table 1 Commercial Remediation Levels for Groundwater and Table 3 Roadway Excavation Remediation Levels for Groundwater, July, 18 2022.

-- = not analyzed

< = not detected at a concentration above the laboratory reporting limit

bgs = below ground surface

CLARC = cleanup levels and risk calculations

CVOC = chlorinated volatile organic compound

DCE = dichloroethene

DZ = deep zone temporary monitoring well

EPA = US Environmental Protection Agency

Farallon = Farallon Consulting, L.L.C.

GeoEngineers = GeoEngineers, Inc.

MTCA = Washington State Model Toxics Control Act

PCE = tetrachloroethene

SoundEarth = SoundEarth Strategies, Inc.

TCE = trichloroethene

WAC = Washington Administrative Code



Table 3
Natural Attenuation Parameters
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

| Well ID | Sample ID | Sample Date | Analytical Results (milligrams per liter) | | | | | | | | | |
|---|--------------------------------|-------------|---|--------------------------------|------------------------------------|---------------------------|-----------------------------|------------------------|------------------------|-----------------------|-----------------------|-------------------------|
| | | | Nitrate ⁽²⁾ | Total Manganese ⁽³⁾ | Dissolved Manganese ⁽³⁾ | Total Iron ⁽³⁾ | Ferrous Iron ⁽⁴⁾ | Sulfate ⁽⁶⁾ | Methane ⁽⁷⁾ | Ethane ⁽⁷⁾ | Ethene ⁽⁷⁾ | Chloride ⁽⁸⁾ |
| Shallow Water-Bearing Zone Wells | | | | | | | | | | | | |
| MW01 | MW1-060206 | 06/02/06 | 16 | -- | 0.02 | 1.3 | 0.00 | 16 | <0.01 | <0.01 | <0.01 | -- |
| | MW1-20140910 | 09/10/14 | 4.1 | -- | <0.011 | <0.06 | 0.041 | 26 | <0.0005 | <0.0005 | <0.0005 | -- |
| | MW01-20200129 | 01/29/20 | 1.6 | 0.850 | -- | 27 | 0.506 | 25 | 0.0030 | <0.00022 | <0.00029 | 11 |
| | MW01-20210420 | 04/20/21 | 2.1 | <0.010 | -- | 0.180 | 0.142 | 21 | <0.00055 | <0.00022 | 0.00029 | 7.9 |
| MW05 | MW05-20200128 | 01/28/20 | <0.050 | 5.000 | -- | 54 | 69.9 | <5.0 | 6.600 | <0.022 | <0.029 | 8.5 |
| | MW05-20210421 | 04/21/21 | <0.050 | 3.400 | -- | 68 | 57.9 | <5.0 | 3.400 | <0.00022 | <0.00029 | 19 |
| | MW05-20220427 | 04/27/22 | <0.050 | 2.800 | -- | 41 | 42.8 | <5.0 | 9.000 | <0.00022 | <0.00029 | 15 |
| MW06 | MW06-20220426 | 04/26/22 | <0.050 | 1.100 | -- | 1.6 | 0.401 | 17 | 0.99 | <0.00022 | 0.024 | 68 |
| MW15 | MW15-20181022 | 10/22/18 | 2.5 | 0.036 | -- | 0.210 | <0.040 | 65 | 0.0021 | <0.00050 | <0.00050 | 29 |
| | MW15-20200128 | 01/28/20 | 3.8 | 0.360 | -- | 2.1 | 0.158 | 32 | 0.170 | <0.00044 | <0.00058 | 87 |
| | MW15-20210420 | 04/20/21 | 1.1 | 0.45 | -- | 26 | 0.545 | 16 | 2.600 | <0.00022 | <0.00029 | 81 |
| | MW15-20220426 | 04/26/22 | 17 | 0.210 | -- | 1.7 | 0.598 | 19 | 9.500 | <0.00022 | <0.00029 | 91 |
| MW21 | MW21-20181022 | 10/22/18 | <0.050 | 1.600 | -- | 0.460 | 0.093 | 67 | 0.043 | <0.0030 | <0.0030 | 11 |
| | MW21-20220426 | 04/26/22 | <0.050 | 1.300 | -- | 11 | 15 | <5.0 | 8.500 | <0.00022 | <0.00029 | 12 |
| MW28 | MW28-20200128 | 01/28/20 | <0.050 | 0.500 | -- | 0.320 | 0.456 | 15 | 1.400 | 0.0045 | 0.037 | 110 |
| | MW28-20210421 | 04/21/21 | <0.050 | 0.590 | -- | 0.900 | 1.2 | 13 | 0.470 | <0.00022 | 0.023 | 140 |
| | MW28-20220427 | 04/27/22 | <0.050 | 0.680 | -- | 1.1 | 1.5 | 11 | 1.400 | 0.0027 | 0.043 | 170 |
| Deep Water-Bearing Zone Wells | | | | | | | | | | | | |
| MW07 | MW7-060206 | 06/02/06 | <0.15 | -- | 0.10 | 4.3 | 0.00 | 65 | 0.33 | <0.01 | <0.01 | -- |
| | MW07-20140910 | 09/10/14 | 2.7 | -- | <0.011 | <0.06 | 0.173 | 32 | <0.0005 | <0.0005 | <0.0005 | -- |
| Monitoring Well Decommissioned | | | | | | | | | | | | |
| MW08 | MW08-20140909 | 09/09/14 | <0.050 | -- | 0.17 | <0.06 | 0.059 | 43 | <0.0005 | <0.0005 | <0.0005 | -- |
| | MW08-20181025 | 10/25/18 | <0.050 | 0.60 | -- | 0.190 | 0.087 | 41 | <0.0010 | <0.00050 | <0.00050 | 6.4 |
| | MW08-20200128 | 01/28/20 | <0.050 | 1.400 | -- | 0.350 | <0.0500 | 40 | <0.00055 | <0.00022 | <0.00029 | 7.7 |
| | MW08-20210420 | 04/20/21 | <0.050 | 0.35 | -- | 0.081 | <0.100 | 40 | <0.00055 | <0.00022 | <0.00029 | 8.8 |
| MW09 | MW09-20140910 | 09/10/14 | 4.7 | -- | <0.011 | <0.06 | <0.04 | 27 | <0.0005 | <0.0005 | <0.0005 | -- |
| | MW09-20181024 | 10/24/18 | 5.1 | 0.047 | -- | 0.130 | 0.092 | 25 | <0.0010 | <0.00050 | <0.00050 | -- |
| | MW09-20220427 | 04/27/22 | 2.1 | 0.072 | -- | <0.050 | <0.100 | 28 | 0.790 | <0.00022 | <0.00029 | 7.5 |
| MW10 | MW10-20140910 | 09/10/14 | <0.050 | -- | 0.1 | <0.06 | 0.048 | 37 | <0.0005 | <0.0005 | <0.0005 | -- |
| | MW10-20181024 | 10/24/18 | <0.050 | 0.18 | -- | 0.220 | <0.040 | 45 | 0.0028 | <0.00050 | <0.00050 | 6.1 |
| | MW10-20200129 | 01/29/20 | <0.050 | 0.350 | -- | 1.7 | 1.71 | <5.0 | 10.000 | <0.022 | <0.029 | 8.8 |
| | MW10-20210420 | 04/20/21 | <0.050 | 0.240 | -- | 0.680 | 0.893 | 28 | 1.600 | <0.00022 | <0.00029 | 8.4 |
| | MW10-20220426 | 04/26/22 | <0.050 | 0.260 | -- | 1.2 | 9.420 | 33 | 4.900 | <0.00022 | <0.00029 | 7.4 |
| MW11 | MW11-060206 | 06/02/06 | 2.8 | -- | 0.25 | 2.8 | 0.00 | 35 | <0.01 | <0.01 | <0.01 | -- |
| | MW11-20141007 | 10/07/14 | <0.050 | -- | 0.019 | <0.06 | 0.89 | 50 | 0.042 | <0.003 | <0.003 | -- |
| MW12 | MW12-060206 | 06/02/06 | <0.15 | -- | 0.11 | 4.2 | 0.00 | 39 | <0.01 | <0.01 | <0.01 | -- |
| MW13 | MW13-060206 | 06/02/06 | <0.15 | -- | 0.24 | 2.2 | 0.00 | 35 | <0.01 | <0.01 | <0.01 | -- |
| MW14 | MW14-060206 | 06/02/06 | <0.15 | -- | 0.32 | 1.9 | 0.00 | 34 | <0.01 | <0.01 | <0.01 | -- |
| | Monitoring Well Decommissioned | | | | | | | | | | | |
| MW22 | MW22-20140910 | 09/10/14 | 4.9 | -- | <0.011 | <0.06 | <0.04 | 24 | <0.0005 | <0.0005 | <0.0005 | -- |
| | MW22-20200128 | 01/28/20 | 3.8 | <0.011 | -- | 0.094 | 0.101 | 22 | <0.00055 | <0.00022 | <0.00029 | 6.1 |
| | MW22-20210420 | 04/20/21 | 2.4 | <0.010 | -- | <0.050 | <0.100 | 13 | <0.00055 | <0.00022 | <0.00029 | 17 |
| MW29 | MW29-20200128 | 01/28/20 | <0.050 | 0.870 | -- | 2.3 | 0.178 | 37 | 0.0054 | <0.00022 | <0.00029 | 9.9 |
| | MW29-20210420 | 04/20/21 | <0.050 | 0.420 | -- | 0.410 | <0.100 | 33 | 0.00086 | 0.00024 | 0.00034 | 8.5 |
| MW31 | MW31-20210420 | 04/19/21 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | MW31-20220426 | 04/26/22 | <0.050 | 0.150 | -- | 0.099 | 0.129 | 6.9 | 0.120 | <0.00022 | 0.0067 | 32 |

NOTES:

- ⁽¹⁾Analyzed by field instrument.
- ⁽²⁾Analyzed by EPA Method 353.2.
- ⁽³⁾Analyzed by EPA Method 6010C or 6010D.
- ⁽⁴⁾Analyzed by EPA SM 3500-Fe B or Field Kit Instrument.
- ⁽⁵⁾Ferric Iron = Total Iron minus Ferrous Iron. If concentrations of Ferrous Iron are non-detect, Ferric Iron is assumed to be equal to Total Iron.
- ⁽⁶⁾Analyzed by ASTM D516-07 or D516-11.
- ⁽⁷⁾Analyzed by EPA Method RSK 175.
- ⁽⁸⁾Analyzed by EPA SM 4500-Cl E.

- = not analyzed/not measured
- < = not detected at a concentration above the laboratory reporting limit
- EPA = US Environmental Protection Agency
- SM = Standard Method



Table 4
Geochemical and Water Quality Parameters
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

| Well ID | Sample ID | Sample Date | Dissolved Oxygen | ORP ⁽¹⁾ (mV) | Specific Conductivity ⁽¹⁾ (mS/cm) | Turbidity ⁽¹⁾ (NTU) | Temperature ⁽¹⁾ (°C) | pH ⁽¹⁾ | Alkalinity ⁽²⁾ (mg/L CaCO ₃) | Total Organic Carbon ⁽³⁾ (mg/L) |
|---|---------------|-------------|------------------|-------------------------|--|--------------------------------|---------------------------------|-------------------|---|--|
| Shallow Water-Bearing Zone Wells | | | | | | | | | | |
| MW01 | MW1-060206 | 06/02/06 | 4.16 | 198.6 | -- | -- | 14.37 | 6.71 | -- | -- |
| | MW01-20140910 | 09/10/14 | 1.24 | 120 | 0.371 | 367.0 | 19.74 | 6.61 | 150 | 1.5 |
| | MW01-20181024 | 10/24/18 | 2.60 | 106 | 0.437 | -- | 15.04 | 6.59 | -- | -- |
| | MW01-20200129 | 01/29/20 | 5.01 | -295.7 | 0.263 | 166 | 7.05 | 6.43 | -- | 1.1 |
| | MW01-20200421 | 04/21/20 | 3.14 | -24.8 | 0.263 | 20.6 | 12.20 | 6.52 | -- | -- |
| | MW01-20200721 | 07/21/20 | 3.20 | 226.8 | 0.246 | 57 | 17.85 | 5.66 | -- | -- |
| | MW01-20201020 | 10/20/20 | 5.11 | 76.3 | 0.242 | 13.12 | 15.74 | 6.54 | -- | -- |
| | MW01-20210128 | 01/28/21 | 3.20 | 29 | 0.203 | 18.52 | 12.30 | 5.29 | -- | -- |
| | MW01-20210420 | 04/20/21 | 6.18 | 17.7 | 0.200 | 16.40 | 14.54 | 6.65 | -- | <1.0 |
| | MW01-20210727 | 07/27/21 | 2.74 | 134.7 | 0.229 | 11.17 | 16.70 | 7.4 | -- | -- |
| | MW01-20211012 | 10/12/21 | 3.77 | -50.3 | 0.291 | 14.50 | 16.50 | 6.97 | -- | -- |
| | MW01-20220427 | 04/27/22 | 5.21 | 47.1 | 0.227 | 8.40 | 13.67 | 6.65 | -- | -- |
| MW01-20221117 | 11/17/22 | 4.89 | 103.3 | 0.392 | 5.2 | 15.0 | 6.68 | -- | -- | |
| MW02 | MW02-20181025 | 10/25/18 | 2.60 | 106.9 | 0.517 | 21.0 | 15.73 | 6.99 | -- | -- |
| | MW02-20200421 | 04/21/20 | 2.72 | 4.6 | 0.617 | 6.30 | 12.33 | 6.97 | -- | -- |
| | MW02-20200721 | 07/21/20 | 3.51 | -31.5 | 0.977 | 5.46 | 16.65 | 6.14 | -- | -- |
| | MW02-20201020 | 10/20/20 | 1.92 | 67.1 | 0.699 | 4.30 | 16.56 | 6.75 | -- | -- |
| | MW02-20210128 | 01/28/21 | 3.33 | 15.8 | 0.699 | 2.41 | 11.73 | 5.58 | -- | -- |
| | MW02-20210420 | 04/20/21 | 2.99 | 10.4 | 0.637 | 2.73 | 13.25 | 7.22 | -- | -- |
| | MW02-20210727 | 07/27/21 | 0.78 | 66.8 | 0.622 | 3.06 | 17.10 | 8.02 | -- | -- |
| | MW02-20211012 | 10/12/21 | 3.64 | -32.3 | 0.962 | 5.30 | 16.10 | 7.16 | -- | -- |
| MW02-20220427 | 04/27/22 | 3.81 | 193.2 | 0.670 | 2.85 | 12.00 | 7.67 | -- | -- | |
| MW02-20221117 | 11/17/22 | 2.64 | 99.7 | 0.745 | 0.7 | 15.0 | 7.00 | -- | -- | |
| MW03 | MW03-20181025 | 10/25/18 | 1.80 | 143.7 | 0.552 | 54.6 | 16.71 | 7.28 | -- | -- |
| | MW03-20200129 | 01/29/20 | 22.1 | -33.0 | 1.143 | 6.57 | 12.52 | 6.83 | -- | -- |
| | MW03-20200421 | 04/21/20 | 0.60 | -190.1 | 1.115 | 7.45 | 12.43 | 6.77 | -- | -- |
| | MW03-20200720 | 07/20/20 | 0.92 | 116.5 | 1.137 | 6.63 | 15.93 | 5.78 | -- | -- |
| | MW03-20201020 | 10/20/20 | 0.93 | 11.1 | 1.136 | 4.77 | 16.50 | 6.78 | -- | -- |
| | MW03-20210128 | 01/28/21 | 1.48 | 9.7 | 1.230 | 1.90 | 12.95 | 5.89 | -- | -- |
| | MW03-20210420 | 04/20/21 | 1.07 | 138.2 | 1.153 | 3.54 | 12.87 | 7.10 | -- | -- |
| | MW03-20210727 | 07/27/21 | 0.09 | -200.9 | 1.028 | 3.39 | 17.10 | 7.71 | -- | -- |
| | MW03-20211012 | 10/12/21 | 0.33 | -76.5 | 1.890 | -- | 15.99 | 6.91 | -- | -- |
| MW03-20220427 | 04/27/22 | 0.18 | -123.9 | 1.180 | 2.26 | 12.40 | 7.36 | -- | -- | |
| MW03-20221117 | 11/17/22 | 0.15 | -130.3 | 1.492 | 0.7 | 15.4 | 6.77 | -- | -- | |
| MW05 | MW05-20190207 | 02/07/19 | 5.69 | 172.2 | 0.253 | 7.7 | 8.97 | 6.82 | -- | -- |
| | MW05-20200128 | 01/28/20 | 0.95 | -351.6 | 0.583 | 501 | 7.84 | 5.49 | -- | 260 |
| | MW05-20200421 | 04/21/20 | 0.98 | -13.0 | 0.580 | 74 | 12.17 | 5.25 | -- | -- |
| | MW05-20200720 | 07/20/20 | 1.42 | 158.2 | 0.424 | 47 | 17.70 | 4.32 | -- | -- |
| | MW05-20201020 | 10/20/20 | 0.30 | 57.1 | 0.320 | 589 | 16.06 | 5.93 | -- | -- |
| | MW05-20210128 | 01/28/21 | 1.31 | 32.8 | 0.304 | 37 | 12.31 | 3.48 | -- | -- |
| | MW05-20210421 | 04/21/21 | 1.19 | 161.1 | 0.474 | 51 | 11.91 | 6.25 | -- | 29 |
| | MW05-20210727 | 07/27/21 | 0.18 | -122.5 | 0.492 | 25.5 | 16.80 | 6.70 | -- | -- |
| | MW05-20211013 | 10/13/21 | 0.16 | -146.7 | 0.420 | 3233 | 15.90 | 6.19 | -- | -- |
| | MW05-20220427 | 04/27/22 | 0.52 | -59.7 | 0.459 | 54.3 | 12.20 | 6.54 | -- | 29 |
| MW05-20221117 | 11/17/22 | 0.24 | 97.8 | 0.367 | 77.3 | 14.6 | 4.74 | -- | -- | |
| MW06 | MW06-20190207 | 02/07/19 | 1.43 | 118.8 | 0.458 | 8.88 | 13.23 | 7.93 | -- | -- |
| | MW06-20200128 | 01/28/20 | 14.7 | -15.6 | 1.126 | 12.34 | 13.56 | 6.36 | -- | -- |
| | MW06-20200421 | 04/21/20 | 1.12 | 6.1 | 0.748 | 6.67 | 14.10 | 6.59 | -- | -- |
| | MW06-20200721 | 07/21/20 | 0.11 | -215.2 | 0.799 | 4.47 | 17.86 | 6.26 | -- | -- |
| | MW06-20201020 | 10/20/20 | 0.32 | -44.1 | 0.620 | 4.68 | 16.18 | 7.28 | -- | -- |
| | MW06-20210128 | 01/28/21 | 0.46 | -111 | 0.717 | 4.16 | 12.32 | 7.25 | -- | -- |
| | MW06-20210420 | 04/20/21 | 0.83 | 136.4 | 0.766 | 3.80 | 13.79 | 7.56 | -- | -- |
| | MW06-20210727 | 07/27/21 | 9.53 | -134 | 0.582 | 4.10 | 18.09 | 8.40 | -- | -- |
| | MW06-20211012 | 10/12/21 | 0.59 | -71.8 | 0.506 | 0.77 | 15.09 | 7.57 | -- | -- |
| | MW06-20220426 | 04/26/22 | 0.22 | -87.6 | 0.730 | 7.74 | 12.80 | 7.15 | -- | 3.8 |
| MW06-20221115 | 11/15/22 | 0.20 | -10.7 | 1.075 | 1.1 | 14.3 | 8.44 | -- | -- | |
| MW15 | MW15-20181022 | 10/22/18 | 1.71 | 107.7 | 0.599 | 5.39 | 16.59 | 6.79 | -- | 2.2 |
| | MW15-20200128 | 01/28/20 | 0.60 | -338.5 | 0.749 | 28.7 | 8.09 | 6.13 | -- | 22 |
| | MW15-20200421 | 04/21/20 | 0.68 | -249.1 | 0.628 | 8.54 | 12.65 | 5.83 | -- | -- |
| | MW15-20200721 | 07/21/20 | 2.28 | 216.4 | 0.763 | 14.71 | 16.96 | 4.06 | -- | -- |
| | MW15-20201019 | 10/19/20 | 19.19 | 123.6 | 0.575 | 9.11 | 17.39 | 5.74 | -- | -- |
| | MW15-20210127 | 01/27/21 | 0.56 | 60.8 | 0.696 | 5.72 | 12.66 | 6.75 | -- | -- |
| | MW15-20210420 | 04/20/21 | 1.36 | 66.2 | 0.672 | 3.09 | 13.11 | 5.98 | -- | 11 |
| | MW15-20210726 | 07/26/21 | 0.22 | -166.6 | 0.903 | 15.90 | 17.80 | 7.07 | -- | -- |
| | MW15-20211012 | 10/12/21 | 0.13 | -196.6 | 0.735 | 12.10 | 17.00 | 6.56 | -- | -- |
| | MW15-20220426 | 04/26/22 | 0.41 | -10.7 | 0.818 | 9.10 | 11.92 | 6.53 | -- | 3.8 |
| MW15-20221116 | 11/16/22 | 0.23 | -95.3 | 0.997 | 14.8 | 15.8 | 6.12 | -- | -- | |



Table 4
Geochemical and Water Quality Parameters
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

| Well ID | Sample ID | Sample Date | Dissolved Oxygen | ORP ⁽¹⁾ (mV) | Specific Conductivity ⁽¹⁾ (mS/cm) | Turbidity ⁽¹⁾ (NTU) | Temperature ⁽¹⁾ (°C) | pH ⁽¹⁾ | Alkalinity ⁽²⁾ (mg/L CaCO ₃) | Total Organic Carbon ⁽³⁾ (mg/L) | |
|---------------|----------------|-------------|--|-------------------------|--|--------------------------------|---------------------------------|-------------------|---|--|----|
| MW16 | MW16-20181022 | 10/22/18 | 2.53 | 86 | 0.485 | 3.14 | 16.31 | 6.7 | -- | -- | |
| MW19 | MW19-20181024 | 10/24/18 | 3.60 | 126.2 | 0.770 | 7.32 | 16.00 | 6.99 | -- | -- | |
| MW21 | MW21-20181022 | 10/22/18 | 1.10 | 79.2 | 0.528 | 8.55 | 16.28 | 7.81 | -- | 5.4 | |
| | MW21-20200129 | 01/29/20 | 40.9 | 21.5 | 0.886 | 3205 | 14.65 | 5.63 | -- | -- | |
| | MW21-20200421 | 04/21/20 | 1.08 | 45.0 | 0.962 | 21.34 | 14.48 | 5.96 | -- | -- | |
| | MW21-20200722 | 07/22/20 | 2.68 | 138.2 | 1.167 | 29.39 | 16.01 | 5.37 | -- | -- | |
| | MW21-20201020 | 10/20/20 | 0.33 | 2.9 | 1.185 | 23.60 | 16.30 | 6.00 | -- | -- | |
| | MW21-20210128 | 01/28/21 | 0.39 | -72.2 | 1.095 | 33.20 | 13.77 | 6.78 | -- | -- | |
| | MW21-20210420 | 04/20/21 | 1.33 | 124.8 | 0.994 | 12.20 | 15.47 | 6.86 | -- | -- | |
| | MW21-20210727 | 07/27/21 | 4.23 | -113.0 | 1.440 | 141.00 | 17.20 | 7.36 | -- | -- | |
| | MW21-20211012 | 10/12/21 | 0.69 | -55.9 | 1.435 | 6.12 | 15.68 | 6.71 | -- | -- | |
| | MW21-20220426 | 04/26/22 | 0.19 | -93.8 | 1.130 | 16.50 | 13.80 | 6.82 | -- | 23 | |
| MW21-20221117 | 11/17/22 | 0.16 | -99.8 | 1.425 | 4.9 | 14.7 | 6.67 | -- | -- | | |
| MW24 | MW24-20181024 | 10/24/18 | 5.45 | 154.1 | 0.441 | 2.88 | 15.58 | 7.00 | -- | -- | |
| | MW24-20200129 | 01/29/20 | 0.29 | -429.0 | 1.989 | 52.5 | 7.40 | 6.92 | -- | -- | |
| | MW24-20200421 | 04/21/20 | 0.20 | -148.4 | 1.660 | 75 | 11.89 | 6.75 | -- | -- | |
| | MW24-20200721 | 07/21/20 | 3.41 | 59.1 | 1.753 | 8.52 | 15.98 | 6.87 | -- | -- | |
| | MW24-20201019 | 10/19/20 | 0.31 | -86.7 | 1.744 | 7.22 | 15.71 | 6.47 | -- | -- | |
| | MW24-20210128 | 01/28/21 | 1.73 | 34.7 | 1.056 | 11.00 | 11.09 | 6.05 | -- | -- | |
| | MW24-20210420 | 04/20/21 | 0.49 | -125.6 | 1.126 | 16.00 | 13.05 | 6.71 | -- | -- | |
| | MW24-20210726 | 07/26/21 | 0.00 | -173.0 | 1.570 | 120.00 | 18.99 | 7.29 | -- | -- | |
| | MW24-20211012 | 10/12/21 | 0.11 | -260.4 | 2.227 | 14.20 | 15.30 | 6.88 | -- | -- | |
| | MW24-20220427 | 04/27/22 | 0.41 | -125.1 | 1.232 | 10.50 | 10.90 | 7.08 | -- | -- | |
| MW24-20221116 | 11/16/22 | 1.52 | -122.4 | 1.965 | 7.8 | 13.3 | 6.55 | -- | -- | | |
| MW25 | MW25-20181025 | 10/25/18 | 7.15 | 101.8 | 0.051 | 369 | 15.78 | 7.09 | -- | -- | |
| | MW25-20200128 | 01/28/20 | 15.30 | 17.4 | 0.134 | 24 | 11.99 | 7.43 | -- | -- | |
| | MW25-20200421 | 04/21/20 | Grab Sample Collected (No Geochemical Data Recorded) | | | | | | | | -- |
| | MW25-20200721 | 07/21/20 | 0.38 | -199.5 | 0.276 | 27.7 | 16.47 | 6.43 | -- | -- | |
| | MW25-20201020 | 10/20/20 | 0.15 | -68.4 | 0.340 | 13.22 | 16.18 | 6.71 | -- | -- | |
| | MW25-20210128 | 01/28/21 | 0.86 | -96.2 | 0.452 | 12.00 | 11.99 | 7.57 | -- | -- | |
| | MW25-20210420 | 04/20/21 | 0.51 | 146.0 | 0.427 | 6.25 | 12.10 | 7.85 | -- | -- | |
| | MW25-20210727 | 07/27/21 | 2.86 | -188.0 | 0.416 | 82.60 | 19.59 | 7.99 | -- | -- | |
| | MW25-20211012 | 10/12/21 | 2.38 | -21.6 | 0.072 | 8.68 | 15.29 | 6.89 | -- | -- | |
| | MW25-20220426 | 04/26/22 | 0.25 | 75.0 | 0.088 | 23.20 | 12.20 | 6.73 | -- | -- | |
| MW25-20221115 | 11/15/22 | 0.21 | 0.3 | 0.158 | 1,267 | 14.7 | 8.49 | -- | -- | | |
| MW26 | MW26-20181022 | 10/22/18 | 3.22 | 108.4 | 0.262 | 3.89 | 15.61 | 7.26 | -- | -- | |
| | MW26-20200128 | 01/28/20 | 7.22 | -202.0 | 1.244 | 2.51 | 7.45 | 6.74 | -- | -- | |
| | MW26-20200421 | 04/21/20 | 6.92 | 164.2 | 0.843 | 5.52 | 11.42 | 6.70 | -- | -- | |
| | MW26-20200721 | 07/21/20 | 1.31 | 194.6 | 0.540 | 8.29 | 16.19 | 6.60 | -- | -- | |
| | MW26-20201019 | 10/19/20 | 20.80 | 180.6 | 0.299 | 5.03 | 16.16 | 6.27 | -- | -- | |
| | MW26-20210128 | 01/28/21 | 3.98 | 125.3 | 0.297 | 8.00 | 11.14 | 8.62 | -- | -- | |
| | MW26-20210420 | 04/20/21 | 5.96 | 74.0 | 0.227 | 1.83 | 11.86 | 6.58 | -- | -- | |
| | MW26-20210726 | 07/26/21 | 4.00 | 104.0 | 0.323 | 0.10 | 19.23 | 7.35 | -- | -- | |
| | MW26-20211012 | 10/12/21 | 4.68 | -30.4 | 0.792 | 3.80 | 15.70 | 6.94 | -- | -- | |
| | MW26-20220427 | 04/27/22 | 7.10 | 122.2 | 0.472 | 0.40 | 10.75 | 6.71 | -- | -- | |
| MW26-20221117 | 11/17/22 | 6.16 | 246.3 | 0.448 | 7.9 | 14.2 | 5.49 | -- | -- | | |
| MW27 | MW27-20190207 | 02/07/19 | 2.17 | 138.5 | 0.543 | 93.2 | 11.87 | 7.02 | -- | -- | |
| | MW27-202009128 | 01/28/20 | -- | 102.2 | 0.918 | 9.76 | 12.01 | 6.23 | -- | -- | |
| | MW27-20200421 | 04/21/20 | 3.14 | 155.0 | 0.685 | 7.42 | 12.87 | 6.36 | -- | -- | |
| | MW27-20200721 | 07/21/20 | 0.28 | 101.6 | 0.784 | 7.02 | 17.66 | 5.71 | -- | -- | |
| | MW27-20201020 | 10/20/20 | 0.49 | 78.1 | 0.639 | 11.20 | 16.80 | 6.16 | -- | -- | |
| | MW27-20210128 | 01/28/21 | 2.06 | 57.2 | 0.894 | 11 | 11.17 | 7.74 | -- | -- | |
| | MW27-20210420 | 04/20/21 | 3.81 | 202.4 | 0.776 | 6.91 | 12.9 | 7.02 | -- | -- | |
| | MW27-20210727 | 07/27/21 | 0.37 | -99 | 0.841 | 5.2 | 21.68 | 7.38 | -- | -- | |
| | MW27-20211012 | 10/12/21 | 0.82 | -10.8 | 0.802 | 0.18 | 15.54 | 6.62 | -- | -- | |
| | MW27-20220426 | 04/26/22 | 0.66 | 201.1 | 0.814 | 7.94 | 12.80 | 6.79 | -- | -- | |
| MW27-20221115 | 11/15/22 | 0.32 | 182.8 | 1.656 | 2.5 | 15.7 | 9.04 | -- | -- | | |
| MW28 | MW28-20200128 | 01/28/20 | 12.8 | -17.20 | 0.834 | 4.38 | 13.29 | 7.17 | -- | 4.4 | |
| | MW28-20200422 | 04/22/20 | 2.32 | 70.80 | 0.913 | 4.49 | 12.38 | 7.14 | -- | -- | |
| | MW28-20200721 | 07/21/20 | 0.09 | -196.0 | 1.064 | 3.47 | 15.50 | 6.56 | -- | -- | |
| | MW28-20201020 | 10/20/20 | 0.84 | -5.7 | 0.879 | 4.99 | 16.01 | 7.90 | -- | -- | |
| | MW28-20210128 | 01/28/21 | 0.32 | -20.8 | 0.835 | 4.25 | 13.22 | 7.33 | -- | -- | |
| | MW28-20210420 | 04/21/21 | 3.81 | 154.1 | 0.883 | 2.54 | 12.11 | 7.40 | -- | 6.0 | |
| | MW28-20210727 | 07/13/21 | 0.37 | -167.6 | 0.854 | 2.97 | 16.60 | 8.21 | -- | -- | |
| | MW28-20211013 | 10/13/21 | 0.82 | -147.9 | 0.756 | 1.93 | 15.30 | 7.47 | -- | -- | |
| | MW28-20220427 | 04/27/22 | 0.26 | -89.3 | 0.991 | 0.40 | 11.88 | 7.28 | -- | 4.8 | |
| MW28-20221117 | 11/17/22 | 0.38 | -12.7 | 1.077 | 0.8 | 14.8 | 6.96 | -- | -- | | |



Table 4
Geochemical and Water Quality Parameters
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

| Well ID | Sample ID | Sample Date | Dissolved Oxygen | ORP ⁽¹⁾ (mV) | Specific Conductivity ⁽¹⁾ (mS/cm) | Turbidity ⁽¹⁾ (NTU) | Temperature ⁽¹⁾ (°C) | pH ⁽¹⁾ | Alkalinity ⁽²⁾ (mg/L CaCO ₃) | Total Organic Carbon ⁽³⁾ (mg/L) |
|--------------------------------------|--------------------------------|-------------|------------------|-------------------------|--|--------------------------------|---------------------------------|-------------------|---|--|
| MW30 | MW30-20210127 | 01/27/21 | 3.58 | 172.4 | 0.362 | 3.64 | 13.83 | 8.07 | -- | -- |
| | MW30-20210420 | 04/19/21 | 0.98 | 182.8 | 0.977 | 3.58 | 14.31 | 6.62 | -- | -- |
| | MW30-20210726 | 07/26/21 | 0.13 | 2.9 | 0.653 | 2.15 | 16.70 | 7.70 | -- | -- |
| | MW30-20211011 | 10/11/21 | 0.36 | 75.5 | 0.638 | 3.50 | 16.60 | 6.81 | -- | -- |
| | MW30-20220426 | 04/26/22 | 1.55 | 157.0 | 1.467 | 0.50 | 12.51 | 6.33 | -- | -- |
| | MW30-20221116 | 11/16/22 | 0.18 | 55.7 | 1.412 | 0.9 | 15.8 | 6.60 | -- | -- |
| MW32 | MW32-20221116 | 11/16/22 | 0.35 | -148.9 | 0.944 | 1.4 | 15.4 | 7.55 | -- | -- |
| MW34 | MW34-20221116 | 11/16/22 | 0.19 | -166.9 | 0.630 | 2.8 | 15.0 | 7.71 | -- | -- |
| MW36 | MW36-20221115 | 11/15/22 | 0.19 | -6.8 | 1.371 | 1.6 | 14.5 | 8.88 | -- | -- |
| Deep Water-Bearing Zone Wells | | | | | | | | | | |
| MW07 | MW7-060206 | 06/02/06 | 0.11 | 20.6 | -- | -- | 15.30 | 7.62 | -- | -- |
| | MW07-20140910 | 09/10/14 | 0.34 | 20.7 | 0.305 | 21.9 | 16.70 | 7.42 | 140 | <1.0 |
| Monitoring Well Decommissioned | | | | | | | | | | |
| MW08 | MW08-20140909 | 09/09/14 | 0.22 | 21 | 0.302 | 40.5 | 15.98 | 8.00 | 130 | <1.0 |
| | MW08-20181025 | 10/25/18 | 1.78 | 114.9 | 0.369 | 5.16 | 16.17 | 7.69 | -- | 1.10 |
| | MW08-20200128 | 01/28/20 | 0.68 | -310.7 | 0.325 | 10.4 | 8.78 | 7.89 | -- | <1.0 |
| | MW08-20200421 | 04/21/20 | 0.57 | 12.9 | 0.32 | 5.16 | 13.18 | 8.39 | -- | -- |
| | MW08-20200721 | 07/21/20 | 1.66 | 191.1 | 0.288 | 5.84 | 15.22 | 6.34 | -- | -- |
| | MW08-20201019 | 10/19/20 | 0.18 | 87.0 | 0.281 | 12 | 14.85 | 7.74 | -- | -- |
| | MW08-20210127 | 01/27/21 | 2.76 | 99.4 | 0.298 | 4 | 13.59 | 7.36 | -- | -- |
| | MW08-20210420 | 04/20/21 | 1.87 | 55.6 | 0.278 | 1.73 | 13.74 | 7.62 | -- | <1.0 |
| | MW08-20210726 | 07/26/21 | 0.12 | -153.8 | 0.280 | 2.89 | 15.40 | 8.98 | -- | -- |
| | MW08-20211012 | 10/12/21 | 0.86 | -173.6 | 0.398 | 5.60 | 13.70 | 7.87 | -- | -- |
| MW09 | MW09-20220426 | 04/26/22 | 0.37 | -15.3 | 0.313 | 4.20 | 12.86 | 8.03 | -- | -- |
| | MW09-20221116 | 11/16/22 | 0.21 | -134.1 | 0.569 | 1.4 | 14.6 | 7.85 | -- | -- |
| | MW09-20140910 | 09/10/14 | 2.90 | -87 | 0.241 | 0.98 | 17.90 | 7.46 | 96 | <1.0 |
| | MW09-20181024 | 10/24/18 | 4.52 | 161.1 | 0.276 | 11.90 | 16.72 | 7.23 | -- | <1.0 |
| | MW09-20200129 | 01/29/20 | 12.2 | -54.5 | 0.276 | 4.28 | 14.52 | 7.26 | -- | -- |
| | MW09-20200421 | 04/21/20 | 0.28 | -70.7 | 0.258 | 5.21 | 14.02 | 7.22 | -- | -- |
| | MW09-20200721 | 07/21/20 | 2.03 | 203.5 | 0.263 | 7.95 | 19.31 | 6.44 | -- | -- |
| | MW09-20201020 | 10/20/20 | 0.55 | -37.4 | 0.535 | 5.31 | 16.24 | 9.24 | -- | -- |
| | MW09-20210128 | 01/28/21 | 1.02 | -15.4 | 0.274 | 1.91 | 14.06 | 5.59 | -- | -- |
| | MW09-20210420 | 04/20/21 | 0.56 | 184.5 | 0.268 | 2.77 | 15.00 | 7.55 | -- | -- |
| | MW09-20210727 | 07/27/21 | 0.08 | 3.2 | 0.260 | 2.73 | 18.20 | 7.72 | -- | -- |
| MW10 | MW10-20211013 | 10/13/21 | 0.50 | -89.1 | 0.232 | 2.61 | 15.40 | 7.21 | -- | -- |
| | MW10-20220427 | 04/27/22 | 0.25 | 35.4 | 0.243 | 2.92 | 14.90 | 7.3 | -- | <1.0 |
| | MW10-20221117 | 11/17/22 | 0.19 | 56.4 | 0.259 | 4.9 | 14.6 | 5.57 | -- | -- |
| | MW10-20140910 | 09/10/14 | 0.29 | -49 | 0.331 | 36.3 | 16.65 | 7.89 | 120 | <1.0 |
| | MW10-20181024 | 10/24/18 | 1.05 | 102.9 | 0.356 | 7.37 | 16.63 | 7.96 | -- | 1.00 |
| | MW10-20200129 | 01/29/20 | 27.5 | -69.6 | 0.322 | 4.99 | 14.68 | 7.04 | -- | 8.6 |
| | MW10-20200422 | 04/22/20 | 1.42 | 12.5 | 0.317 | 4.33 | 14.04 | 7.05 | -- | -- |
| | MW10-20200722 | 07/22/20 | 2.21 | 73.8 | 0.337 | 6.37 | 16.40 | 6.00 | -- | -- |
| | MW10-20201020 | 10/20/20 | 0.19 | -47.2 | 0.298 | 4.54 | 15.73 | 7.48 | -- | -- |
| | MW10-20210128 | 01/28/21 | 0.32 | -67.5 | 0.34 | 3.38 | 13.17 | 7.43 | -- | -- |
| | MW10-20210420 | 04/20/21 | 0.38 | 154.6 | 0.320 | 2.61 | 15.76 | 8.15 | -- | <1.0 |
| | MW10-20210727 | 07/27/21 | 0.00 | -145 | 0.370 | 57.20 | 17.08 | 8.00 | -- | -- |
| MW11 | MW10-20211012 | 10/12/21 | 0.38 | -56.8 | 0.337 | -- | 14.98 | 7.20 | -- | -- |
| | MW10-20220426 | 04/26/22 | 0.21 | -101.8 | 0.244 | 6.37 | 14.10 | 7.43 | -- | 1.7 |
| MW11 | MW11-060206 | 06/02/06 | 0.32 | 149.2 | -- | -- | 13.65 | 7.15 | -- | -- |
| | MW11-20141007 | 10/07/14 | 0.22 | -124.5 | 0.252 | 40.0 | 15.00 | 9.15 | 110 | 2.6 |
| MW12 | MW12-060206 | 06/02/06 | 0.11 | -91.2 | -- | -- | 15.34 | 7.14 | -- | -- |
| | MW12-20181024 | 10/24/18 | 1.36 | 109.3 | 0.281 | 4.2 | 15.81 | 7.61 | -- | -- |
| MW13 | MW13-060206 | 06/02/06 | 0.11 | 53.1 | -- | -- | 14.91 | 7.4 | -- | -- |
| | MW13-20181024 | 10/24/18 | 3.66 | 175.8 | 0.246 | 3.56 | 15.83 | 7.37 | -- | -- |
| MW14 | MW14-060206 | 06/02/06 | 0.10 | -103.5 | -- | -- | 15.12 | 7.5 | -- | -- |
| | Monitoring Well Decommissioned | | | | | | | | | |
| MW22 | MW22-20140910 | 09/10/14 | 5.95 | 179.3 | 0.28 | 3.52 | 16.84 | 6.78 | 100 | <1.0 |
| | MW22-20181024 | 10/24/18 | 5.24 | 177.6 | 0.249 | 11.00 | 14.99 | 6.74 | -- | -- |
| | MW22-20200128 | 01/28/20 | 6.02 | -77.8 | 0.263 | 6.63 | 8.38 | 6.92 | -- | <1.0 |
| | MW22-20200421 | 04/21/20 | 8.54 | 181.0 | 0.176 | 5.21 | 12.16 | 6.38 | -- | -- |
| | MW22-20200721 | 07/21/20 | 4.60 | 226.2 | 0.186 | 6.26 | 14.85 | 5.95 | -- | -- |
| | MW22-20201019 | 10/19/20 | 4.80 | 138.0 | 0.224 | 3.43 | 14.42 | 6.92 | -- | -- |
| | MW22-20210127 | 01/27/21 | 5.44 | 119.1 | 0.243 | 3.79 | 12.66 | 7.25 | -- | -- |
| | MW22-20210420 | 04/20/21 | 7.64 | 77.9 | 0.194 | 1.75 | 12.75 | 6.55 | -- | <1.0 |
| | MW22-20210726 | 07/26/21 | 5.13 | 116.0 | 0.250 | 0.00 | 19.66 | 7.32 | -- | -- |
| | MW22-20211012 | 10/12/21 | 5.04 | -84.1 | 0.309 | 2.30 | 14.50 | 7.24 | -- | -- |
| | MW22-20220426 | 04/26/22 | 7.33 | 61.9 | 0.245 | 2.00 | 12.32 | 6.99 | -- | -- |
| | MW22-20221116 | 11/16/22 | 3.34 | 33.2 | 0.509 | 1.0 | 13.0 | 6.92 | -- | -- |



Table 4
Geochemical and Water Quality Parameters
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

| Well ID | Sample ID | Sample Date | Dissolved Oxygen | ORP ⁽¹⁾ (mV) | Specific Conductivity ⁽¹⁾ (mS/cm) | Turbidity ⁽¹⁾ (NTU) | Temperature ⁽¹⁾ (°C) | pH ⁽¹⁾ | Alkalinity ⁽²⁾ (mg/L CaCO ₃) | Total Organic Carbon ⁽³⁾ (mg/L) |
|---------------|---------------|-------------|------------------|-------------------------|--|--------------------------------|---------------------------------|-------------------|---|--|
| MW29 | MW29-20200128 | 01/28/20 | 9.90 | -7.6 | 0.277 | 47.58 | 14.19 | 7.38 | -- | <1.0 |
| | MW29-20200422 | 04/22/20 | 1.30 | 68.2 | 0.249 | 7.26 | 12.89 | 7.52 | -- | -- |
| | MW29-20200721 | 07/21/20 | 1.45 | 183.5 | 0.235 | 9.76 | 17.80 | 6.40 | -- | -- |
| | MW29-20201019 | 10/19/20 | 14.32 | 149.0 | 0.232 | 5.76 | 14.79 | 6.68 | -- | -- |
| | MW29-20210128 | 01/28/21 | 1.31 | -16.6 | 0.247 | 1.88 | 13.42 | 7.05 | -- | -- |
| | MW29-20210420 | 04/20/21 | 0.59 | 193.2 | 0.247 | 7.25 | 12.90 | 8.28 | -- | <1.0 |
| | MW29-20210726 | 07/26/21 | 0.00 | -167.0 | 0.283 | 2.10 | 16.45 | 8.37 | -- | -- |
| | MW29-20211012 | 10/12/21 | 0.10 | -221.7 | 0.337 | 3.40 | 15.00 | 7.75 | -- | -- |
| | MW29-20220427 | 04/27/22 | 0.29 | -113.0 | 0.273 | 0.40 | 12.37 | 7.92 | -- | -- |
| MW29-20221116 | 11/16/22 | 0.22 | -147.1 | 0.499 | 2.9 | 14.1 | 7.55 | -- | -- | |
| MW31 | MW31-20210127 | 01/27/21 | 4.56 | 21.8 | 0.341 | 8.21 | 14.00 | 7.61 | -- | -- |
| | MW31-20210420 | 04/19/21 | 1.24 | -70.2 | 0.311 | 5.83 | 15.71 | 7.56 | -- | -- |
| | MW31-20210726 | 07/26/21 | 0.10 | -182.8 | 0.310 | 2.25 | 16.60 | 8.19 | -- | -- |
| | MW31-20210819 | 08/19/21 | 0.45 | -119.7 | 0.328 | 4.28 | 15.90 | 6.88 | -- | -- |
| | MW31-20211011 | 10/11/21 | 0.45 | -95.4 | 0.348 | 5.30 | 14.78 | 7.56 | -- | -- |
| | MW31-20220426 | 04/26/22 | 0.26 | -250.1 | 0.371 | 1.20 | 13.51 | 8.49 | -- | 2.1 |
| MW31-20221116 | 11/16/22 | 0.11 | -247.3 | 0.661 | 0.9 | 14.6 | 7.75 | -- | -- | |
| MW33 | MW33-20221116 | 11/16/22 | 0.13 | -301.3 | 0.576 | 2.4 | 14.7 | 8.21 | -- | -- |
| MW35 | MW35-20221115 | 11/15/22 | 0.16 | -293.4 | 0.837 | 6.8 | 14.4 | 9.87 | -- | -- |
| MW37 | MW37-20221115 | 11/15/22 | 0.18 | -77.3 | 0.509 | 1.1 | 14.3 | 9.23 | -- | -- |
| IW33 | IW33-20190312 | 03/12/19 | -- | 76.3 | 0.612 | 2.75 | 12.99 | 8.19 | -- | -- |
| IW34 | IW34-20190312 | 03/12/19 | -- | 34.9 | 0.298 | 5.76 | 14.62 | 8.57 | -- | -- |

NOTES:

Data prior to 2006 obtained by Farallon Consulting LLC of Issaquah, Washington.

⁽¹⁾Analyzed by field instrument.

⁽²⁾Analyzed by EPA SM 2320B.

⁽³⁾Analyzed by EPA SM 5310B.

-- = not analyzed

< = not detected at a concentration above the laboratory reporting limit

°C = degrees Celsius

CaCO₃ = calcium carbonate

mg/L = milligrams per liter

mS/cm = millisiemens per centimeter

mV = millivolts

NTU = nephelometric turbidity units

ORP = oxidation-reduction potential

SM = Standard Method



Table 5
Groundwater Analytical Results for Volatile Fatty Acids
Plastic Sales and Service Site
6870 Woodlawn Avenue Northeast
Seattle, Washington

| Well Identification No. | Sample Identification | Sample Date | Analytical Results | | | | | |
|---|-----------------------|-------------|-------------------------------|-------------------------------|----------------------------------|-------------------------------|--------------------------------|--------------------------------|
| | | | Lactate ⁽¹⁾ (mg/L) | Acetate ⁽¹⁾ (mg/L) | Propionate ⁽¹⁾ (mg/L) | Formate ⁽¹⁾ (mg/L) | Butyrate ⁽¹⁾ (mg/L) | Pyruvate ⁽¹⁾ (mg/L) |
| Shallow Water-Bearing Zone Wells | | | | | | | | |
| MW01 | MW01-20200129 | 01/29/20 | <0.39 | <0.54 | <0.31 | <0.22 | <0.41 | <0.69 |
| | MW01-20200421 | 04/21/20 | <0.39 | 2.3 | <0.31 | <0.22 | <0.41 | <0.69 |
| | MW01-20210420 | 04/20/21 | <0.39 | <0.54 | <0.31 | <0.22 | <0.41 | <0.69 |
| MW05 | MW05-20200128 | 01/28/20 | <0.39 | 297 | 83 | 2.5 | 66 | 12 |
| | MW05-20200421 | 04/21/20 | <0.39 | 67 | 0.75 | <0.22 | 4.9 | <0.69 |
| | MW05-20210420 | 04/21/21 | <0.39 | 20 | 1.7 | <0.22 | <0.41 | <0.69 |
| | MW05-20220427 | 04/27/22 | <0.39 | <0.54 | <0.31 | <0.22 | <0.41 | <0.69 |
| MW06 | MW06-20210420 | 04/20/21 | -- | -- | -- | -- | -- | -- |
| | MW06-20220426 | 04/26/22 | <0.39 | 1.0 | <0.31 | 0.37 | <0.41 | <0.69 |
| MW15 | MW15-20181022 | 10/22/18 | <0.39 | <0.54 | <0.31 | <0.22 | <0.41 | <0.69 |
| | MW15-20200128 | 01/28/20 | <0.39 | <0.54 | <0.31 | <0.22 | <0.41 | <0.69 |
| | MW15-20200421 | 04/21/20 | <0.39 | 2.1 | 0.49 | <0.22 | <0.41 | <0.69 |
| | MW15-20210420 | 04/20/21 | <0.39 | <0.54 | <0.31 | <0.22 | <0.41 | <0.69 |
| | MW15-20220426 | 04/26/22 | <0.39 | 0.96 | <0.31 | 0.35 | <0.41 | <0.69 |
| MW21 | MW21-20181022 | 10/22/18 | <0.39 | <0.54 | <0.31 | <0.22 | <0.41 | <0.69 |
| | MW21-20210420 | 04/20/21 | -- | -- | -- | -- | -- | -- |
| | MW21-20220426 | 04/26/22 | <0.39 | 10.5 | 0.52 | 0.57 | <0.41 | <0.69 |
| MW28 | MW28-20200128 | 02/28/20 | 3.2 | <0.54 | <0.31 | <0.22 | <0.41 | <0.69 |
| | MW28-20200422 | 04/22/20 | <0.39 | <0.54 | <0.31 | <0.22 | <0.41 | <0.69 |
| | MW28-20210420 | 04/21/21 | <0.39 | <0.54 | <0.31 | <0.22 | <0.41 | <0.69 |
| | MW28-20220427 | 04/27/22 | <0.39 | <0.54 | <0.31 | <0.22 | <0.41 | <0.69 |
| MW30 | MW30-20210420 | 04/19/21 | | | | | | |
| Deep Water-Bearing Zone Wells | | | | | | | | |
| MW08 | MW08-20181025 | 10/25/18 | <0.39 | <0.54 | <0.31 | <0.22 | <0.41 | <0.69 |
| | MW08-20200128 | 01/28/20 | <0.39 | <0.54 | <0.31 | <0.22 | <0.41 | <0.69 |
| | MW08-20200421 | 04/21/20 | <0.39 | 268 | 91 | 1.6 | 73 | 16 |
| | MW08-20210420 | 04/20/21 | <0.39 | <0.54 | <0.31 | <0.22 | <0.41 | <0.69 |
| MW09 | MW09-20181024 | 10/24/18 | <0.39 | <0.54 | <0.31 | <0.22 | <0.41 | <0.69 |
| | MW09-20210420 | 04/20/21 | -- | -- | -- | -- | -- | -- |
| | MW09-20220427 | 04/27/22 | <0.39 | <0.54 | <0.31 | <0.22 | <0.41 | <0.69 |
| MW10 | MW10-20181024 | 10/24/18 | <0.39 | <0.54 | <0.31 | <0.22 | <0.41 | <0.69 |
| | MW10-20200129 | 01/29/20 | <0.39 | 0.31 | 0.4 | <0.22 | <0.41 | <0.69 |
| | MW10-20200422 | 04/22/20 | <0.39 | <0.54 | <0.31 | <0.22 | <0.41 | <0.69 |
| | MW10-20210420 | 04/20/21 | <0.39 | <0.54 | <0.31 | <0.22 | <0.41 | <0.69 |
| | MW10-20220426 | 04/26/22 | <0.39 | 1.1 | <0.31 | 0.43 | <0.41 | <0.69 |
| MW22 | MW22-20200128 | 01/28/20 | <0.39 | <0.54 | <0.31 | <0.22 | <0.41 | <0.69 |
| | MW22-20200421 | 04/21/20 | <0.39 | <0.54 | <0.31 | <0.22 | <0.41 | <0.69 |
| | MW22-20210420 | 04/20/21 | <0.39 | <0.54 | <0.31 | <0.22 | <0.41 | <0.69 |
| MW29 | MW29-20201028 | 01/28/20 | <0.39 | <0.54 | <0.31 | <0.22 | <0.41 | <0.69 |
| | MW29-20200422 | 04/22/20 | <0.39 | <0.54 | <0.31 | <0.22 | <0.41 | <0.69 |
| | MW29-20210420 | 04/20/21 | <0.39 | <0.54 | <0.31 | <0.22 | <0.41 | <0.69 |
| MW31 | MW31-20210420 | 04/19/21 | -- | -- | -- | -- | -- | -- |
| | MW31-20220426 | 04/26/22 | <0.39 | 4.9 | <0.31 | 0.40 | <0.41 | <0.69 |

NOTES:

Bold indicates concentration detected is above laboratory reporting limits.

Analyses performed by SiREM in Guelph, ON or AmTEST Laboratories in Kirkland, Washington.

⁽¹⁾ Analyzed by Ion Chromatography with Electrical Conductivity Detection.

Laboratory Notes:

^D The reported value is from a dilution.

^X Acetic and propionic acids co-eluted. Results are quantitated at acetic acid.

-- = not measured/ not applicable

< = not detected at a concentration exceeding the laboratory reporting limit

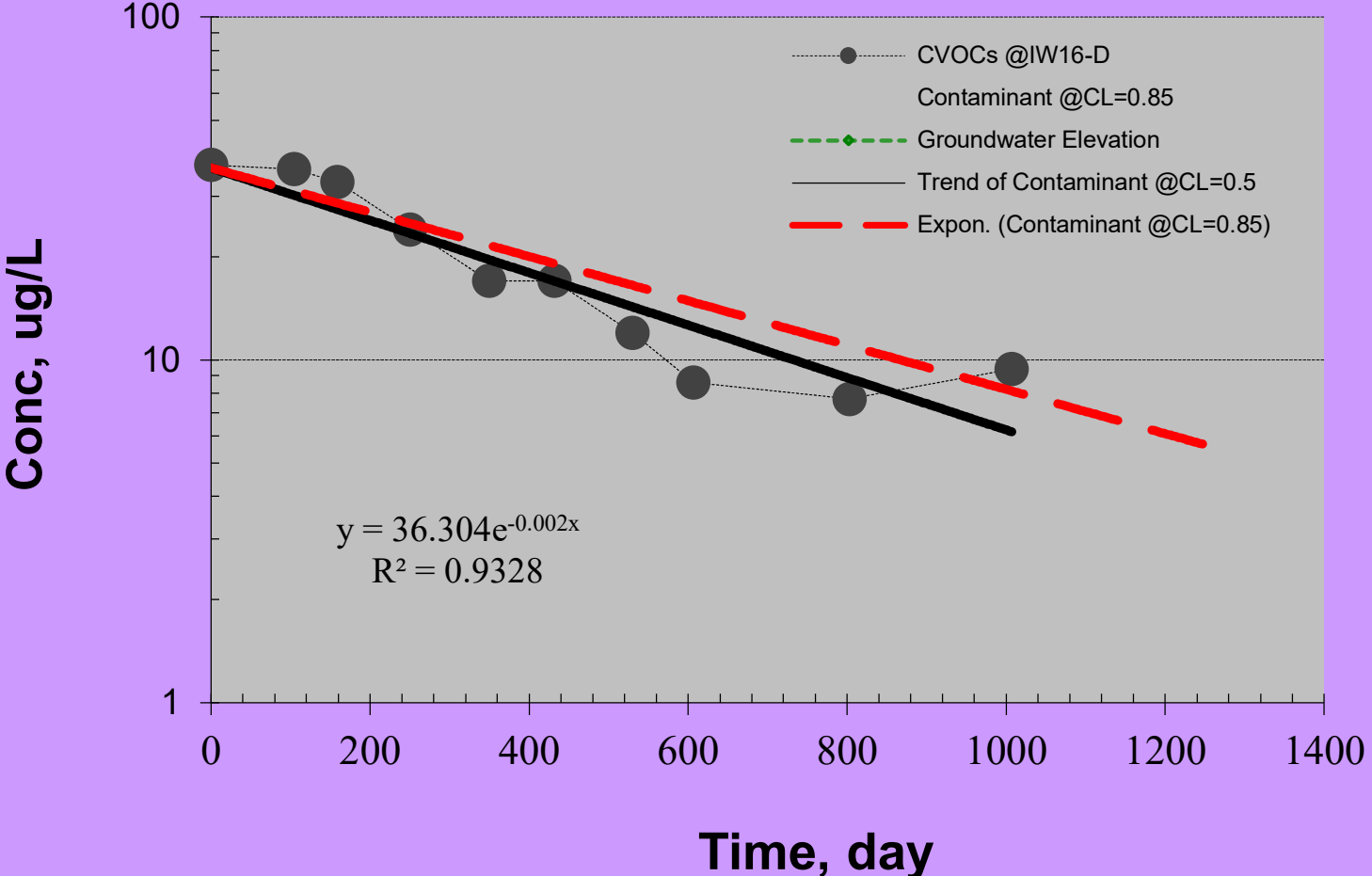
EPA = US Environmental Protection Agency

mg/L = milligrams per liter

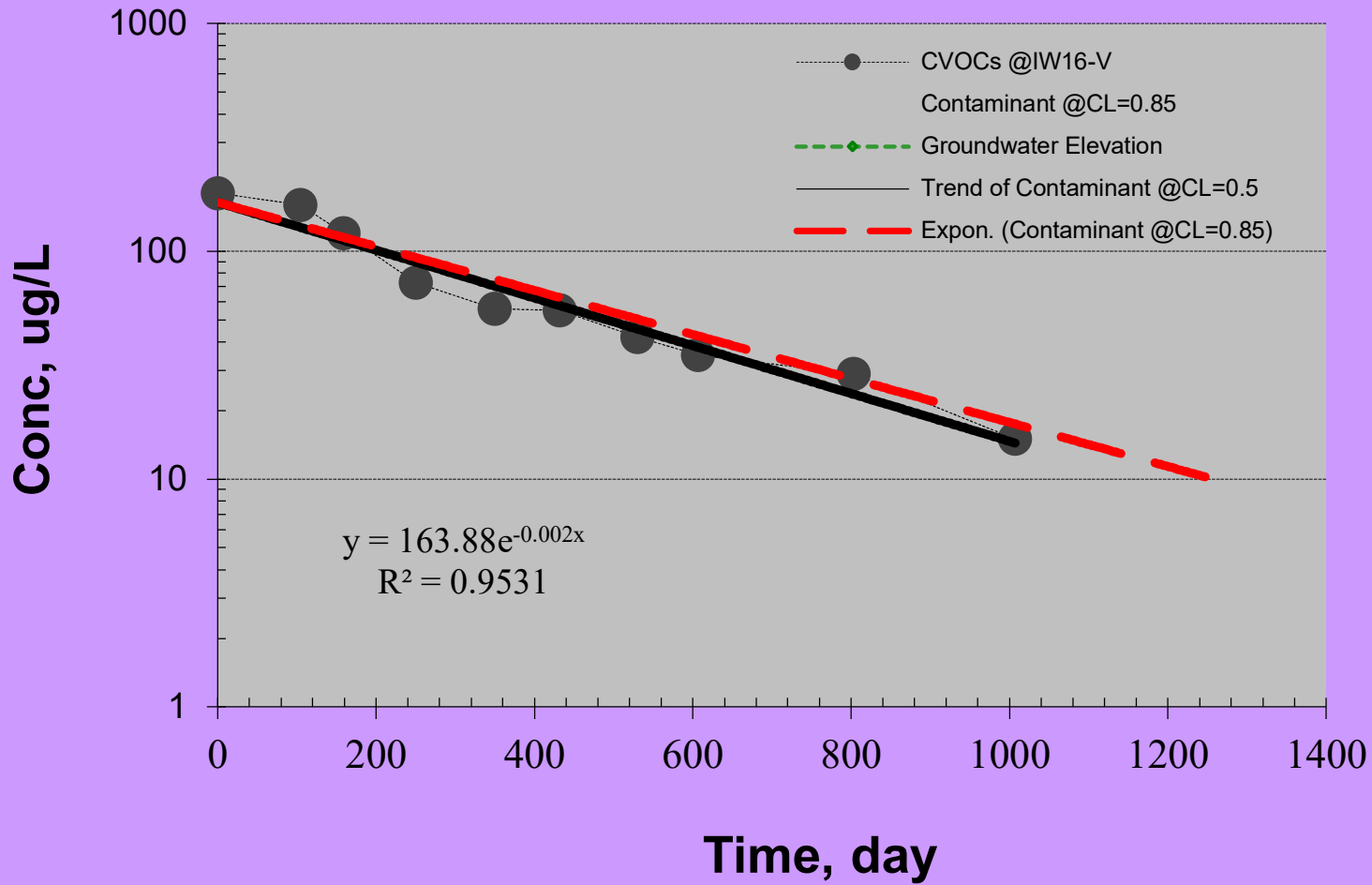
ATTACHMENT A

Temporal Analysis of Groundwater Analytical Results

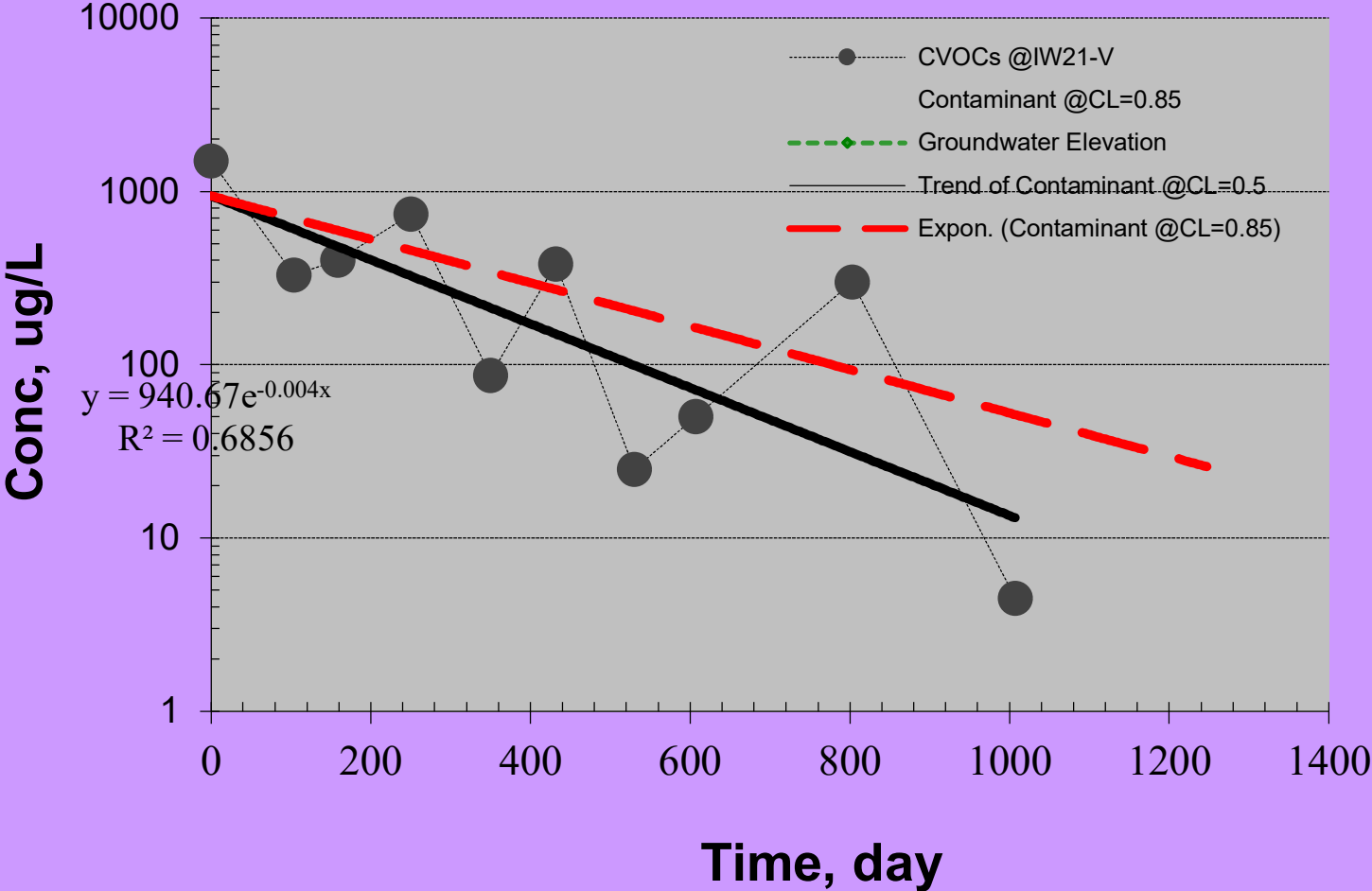
cis-1,2-DCE Concentration vs Time IW16



VC Concentration vs Time IW16



VC Concentration vs Time IW21



Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)

Site Name:

Site Address:

Additional Description:

Well (Sampling) Location?

Level of Confidence (Decision Criteria)?

1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.

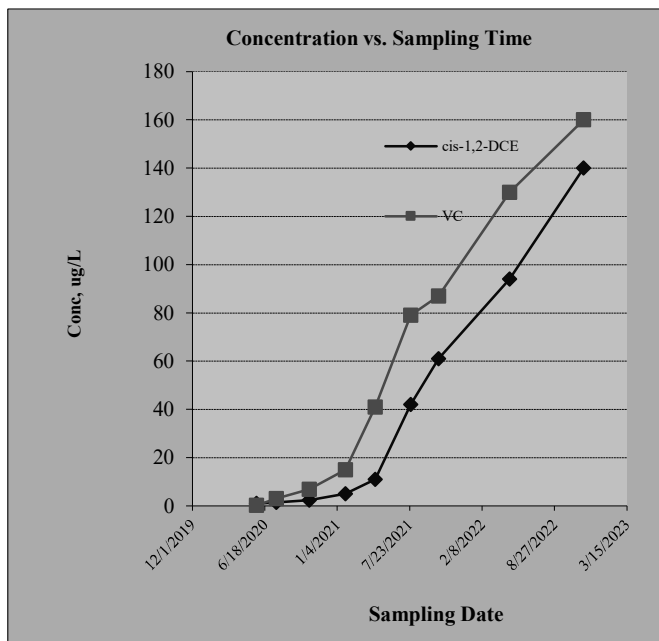
| | | Hazardous Substances (unit is ug/L) | | | |
|----------------|--------------|-------------------------------------|------|--|--|
| Sampling Event | Date Sampled | cis-1,2-DCE | VC | | |
| #1 | 2/12/2020 | 1 | 0.24 | | |
| #2 | 5/26/2020 | 1.4 | 3 | | |
| #3 | 7/20/2020 | 2.3 | 6.9 | | |
| #4 | 10/19/2020 | 5 | 15 | | |
| #5 | 1/27/2021 | 11 | 41 | | |
| #6 | 4/19/2021 | 42 | 79 | | |
| #7 | 7/26/2021 | 61 | 87 | | |
| #8 | 10/11/2021 | 94 | 130 | | |
| #9 | 4/25/2022 | 140 | 160 | | |
| #10 | 11/15/2022 | 140 | 100 | | |
| #11 | | | | | |
| #12 | | | | | |
| #13 | | | | | |
| #14 | | | | | |
| #15 | | | | | |
| #16 | | | | | |

2. Mann-Kendall Non-parametric Statistical Test Results

| Hazardous Substance? | cis-1,2-DCE | VC | | | | |
|-----------------------------------|------------------|------------------|-----|-----|-----|-----|
| Confidence Level Calculated? | 100.00% | 100.00% | NA | NA | NA | NA |
| Plume Stability? | <i>Expanding</i> | <i>Expanding</i> | NA | NA | NA | NA |
| Coefficient of Variation? | | | n<4 | n<4 | n<4 | n<4 |
| Mann-Kendall Statistic "S" value? | 44 | 41 | 0 | 0 | 0 | 0 |
| Number of Sampling Rounds? | 10 | 10 | 0 | 0 | 0 | 0 |
| Average Concentration? | 49.77 | 62.21 | NA | NA | NA | NA |
| Standard Deviation? | 56.67 | 57.32 | NA | NA | NA | NA |
| Coefficient of Variation? | 1.14 | 0.92 | NA | NA | NA | NA |
| Blank if No Errors found | | | n<4 | n<4 | n<4 | n<4 |

3. Temporal Trend: Plot of Concentration vs. Sampling Time

Hazardous substance?
 Plume Stability?



Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)

Site Name:

Site Address:

Additional Description:

Well (Sampling) Location?

Level of Confidence (Decision Criteria)?

1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.

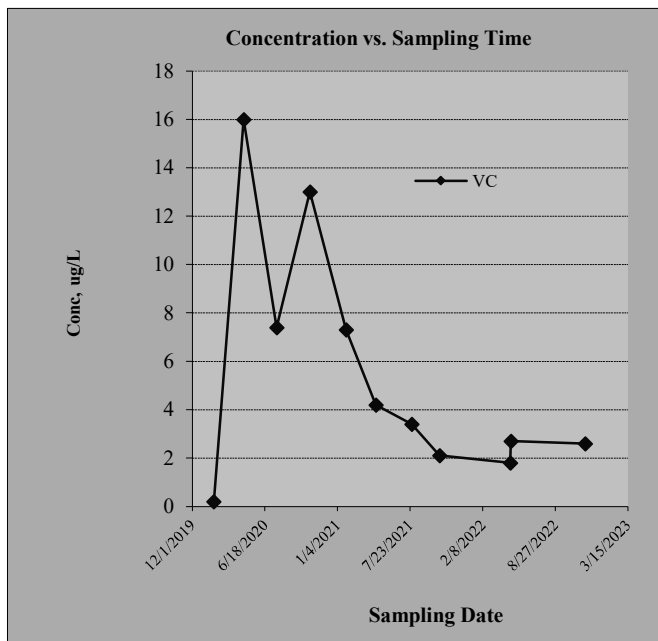
| | | Hazardous Substances (unit is ug/L) | | | | |
|----------------|--------------|-------------------------------------|--|--|--|--|
| Sampling Event | Date Sampled | VC | | | | |
| #1 | 10/25/2018 | 0.2 | | | | |
| #2 | 1/29/2020 | 16 | | | | |
| #3 | 4/21/2020 | 7.4 | | | | |
| #4 | 7/20/2020 | 13 | | | | |
| #5 | 10/20/2020 | 7.3 | | | | |
| #6 | 1/28/2021 | 4.2 | | | | |
| #7 | 4/20/2021 | 3.4 | | | | |
| #8 | 7/27/2021 | 2.1 | | | | |
| #9 | 10/12/2021 | 1.8 | | | | |
| #10 | 4/25/2022 | 2.7 | | | | |
| #11 | 4/27/2022 | 2.6 | | | | |
| #12 | 11/17/2022 | 1.9 | | | | |
| #13 | | | | | | |
| #14 | | | | | | |
| #15 | | | | | | |
| #16 | | | | | | |

2. Mann-Kendall Non-parametric Statistical Test Results

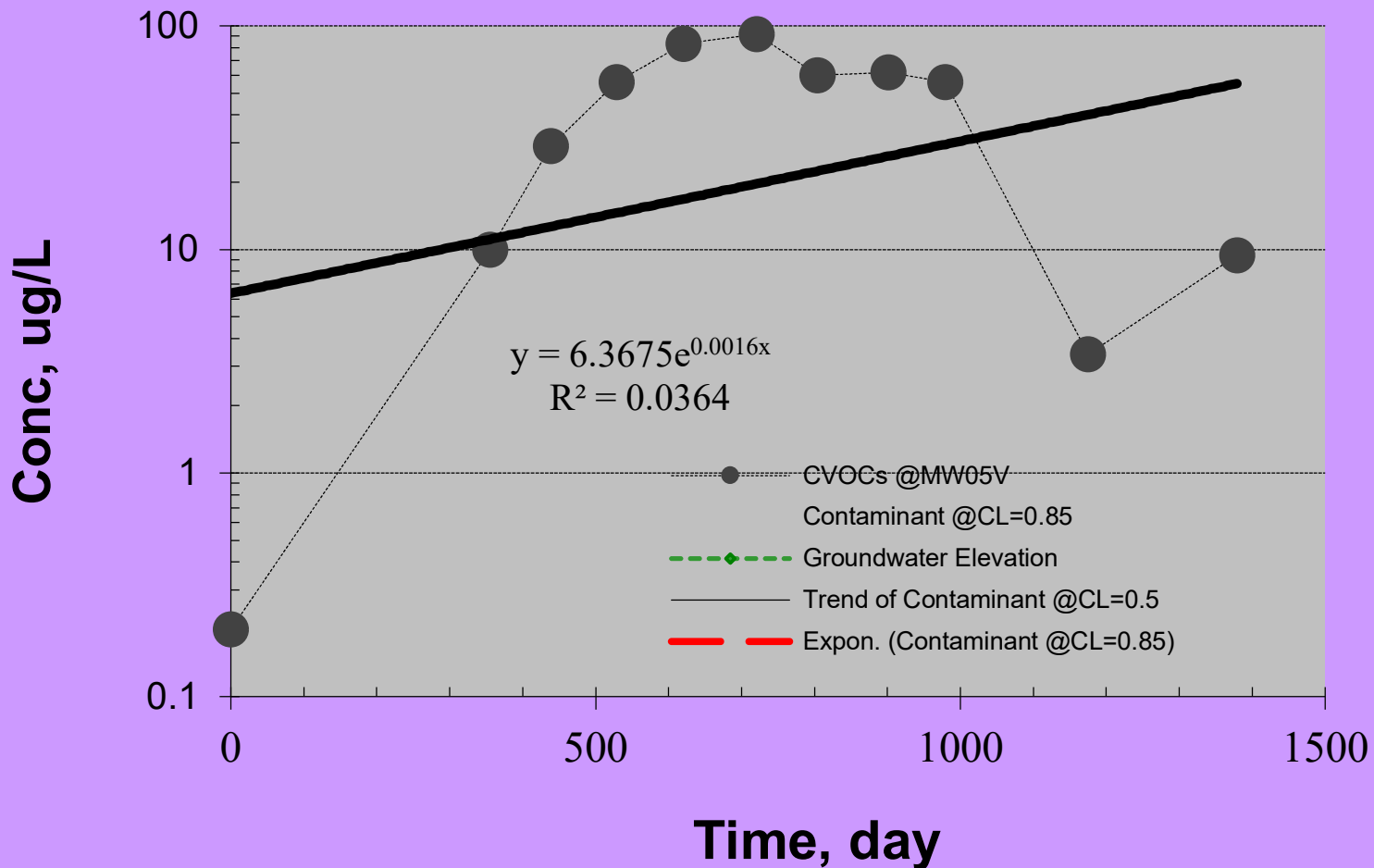
| Hazardous Substance? | VC | | | | | |
|-----------------------------------|-----------|-----|-----|-----|-----|-----|
| Confidence Level Calculated? | 98.40% | NA | NA | NA | NA | NA |
| Plume Stability? | Shrinking | NA | NA | NA | NA | NA |
| Coefficient of Variation? | | n<4 | n<4 | n<4 | n<4 | n<4 |
| Mann-Kendall Statistic "S" value? | -32 | 0 | 0 | 0 | 0 | 0 |
| Number of Sampling Rounds? | 12 | 0 | 0 | 0 | 0 | 0 |
| Average Concentration? | 5.22 | NA | NA | NA | NA | NA |
| Standard Deviation? | 4.87 | NA | NA | NA | NA | NA |
| Coefficient of Variation? | 0.93 | NA | NA | NA | NA | NA |
| Blank if No Errors found | | n<4 | n<4 | n<4 | n<4 | n<4 |

3. Temporal Trend: Plot of Concentration vs. Sampling Time

Hazardous substance?
 Plume Stability?



VC Concentration vs Time MW05



Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)

Site Name: Plastic Sales and Service

Site Address: 6870 Woodlawn Ave NE

Additional Description:

Well (Sampling) Location? MW06

Level of Confidence (Decision Criteria)? 85%

1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.

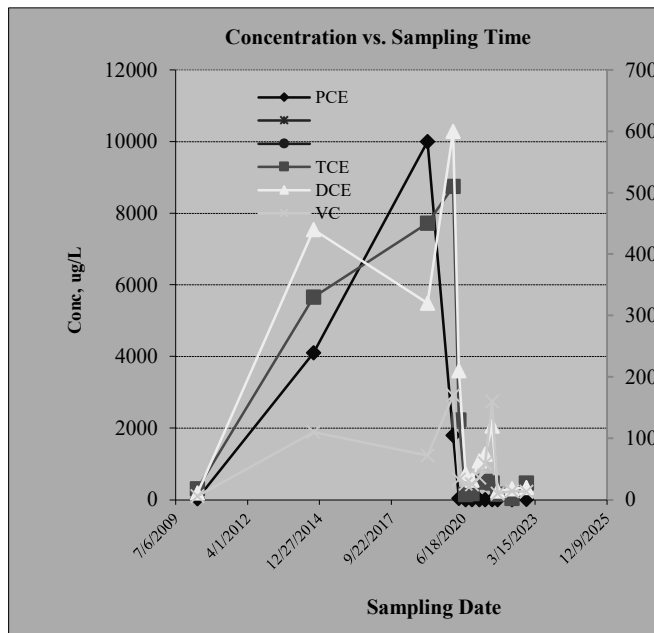
| | | Hazardous Substances (unit is ug/L) | | | |
|----------------|--------------|-------------------------------------|-----|-----|-----|
| Sampling Event | Date Sampled | PCE | TCE | DCE | VC |
| #1 | 11/8/2004 | 29 | 18 | 11 | 6 |
| #2 | 5/4/2010 | 4100 | 330 | 440 | 110 |
| #3 | 10/7/2014 | 10000 | 450 | 320 | 72 |
| #4 | 2/7/2019 | 1800 | 510 | 600 | 170 |
| #5 | 1/28/2020 | 38 | 130 | 210 | 33 |
| #6 | 4/21/2020 | 1.2 | 8.7 | 42 | 26 |
| #7 | 7/21/2020 | 1.1 | 10 | 32 | 25 |
| #8 | 10/20/2020 | 1.7 | 29 | 63 | 36 |
| #9 | 1/28/2021 | 2.4 | 30 | 74 | 59 |
| #10 | 4/20/2021 | 1.6 | 27 | 120 | 160 |
| #11 | 7/27/2021 | 0.93 | 8.8 | 14 | 10 |
| #12 | 10/12/2021 | 0.33 | 2 | 18 | 14 |
| #13 | 4/26/2022 | 11 | 27 | 20 | 13 |
| #14 | 11/15/2022 | 0.67 | 7.4 | 20 | 17 |
| #15 | | | | | |
| #16 | | | | | |

2. Mann-Kendall Non-parametric Statistical Test Results

| Hazardous Substance? | PCE | TCE | DCE | VC | | |
|-----------------------------------|-----------|-----------|-----------|-----------|-----|-----|
| Confidence Level Calculated? | 99.80% | 98.20% | 95.00% | 88.30% | NA | NA |
| Plume Stability? | Shrinking | Shrinking | Shrinking | Shrinking | NA | NA |
| Coefficient of Variation? | | | | | n<4 | n<4 |
| Mann-Kendall Statistic "S" value? | -51 | -40 | -32 | -23 | 0 | 0 |
| Number of Sampling Rounds? | 14 | 14 | 14 | 14 | 0 | 0 |
| Average Concentration? | 1142.00 | 113.42 | 141.71 | 53.64 | NA | NA |
| Standard Deviation? | 2798.27 | 178.05 | 185.43 | 55.09 | NA | NA |
| Coefficient of Variation? | 2.45 | 1.57 | 1.31 | 1.03 | NA | NA |
| Blank if No Errors found | | | | | n<4 | n<4 |

3. Temporal Trend: Plot of Concentration vs. Sampling Time

Hazardous substance? PCE
 Plume Stability? Shrinking



Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)

Site Name: *Plastic Sales and Services*

Site Address: *6870 Woodlawn Ave N, Seattle, WA*

Additional Description: *Demo NA site*

Well (Sampling) Location? **MW24**

Level of Confidence (Decision Criteria)? **85%**

1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.

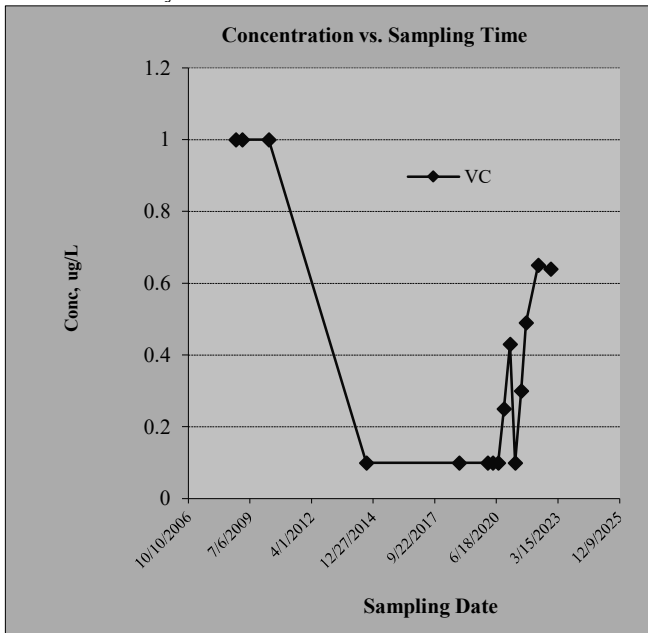
| | | Hazardous Substances (unit is ug/L) | | | | |
|----------------|--------------|-------------------------------------|--|--|--|--|
| Sampling Event | Date Sampled | VC | | | | |
| #1 | 3/28/2008 | 1.0 | | | | |
| #2 | 11/20/2008 | 1.0 | | | | |
| #3 | 3/4/2009 | 1.0 | | | | |
| #4 | 5/5/2010 | 0.10 | | | | |
| #5 | 9/10/2014 | 0.10 | | | | |
| #6 | 10/24/2018 | 0.10 | | | | |
| #7 | 1/29/2020 | 0.10 | | | | |
| #8 | 4/21/2020 | 0.10 | | | | |
| #9 | 7/21/2020 | 0.25 | | | | |
| #10 | 10/19/2020 | 0.43 | | | | |
| #11 | 1/28/2021 | 0.10 | | | | |
| #12 | 4/20/2021 | 0.30 | | | | |
| #13 | 7/26/2021 | 0.49 | | | | |
| #14 | 10/12/2021 | 0.65 | | | | |
| #15 | 4/27/2022 | 0.64 | | | | |
| #16 | 11/16/2022 | 2.5 | | | | |

2. Mann-Kendall Non-parametric Statistical Test Results

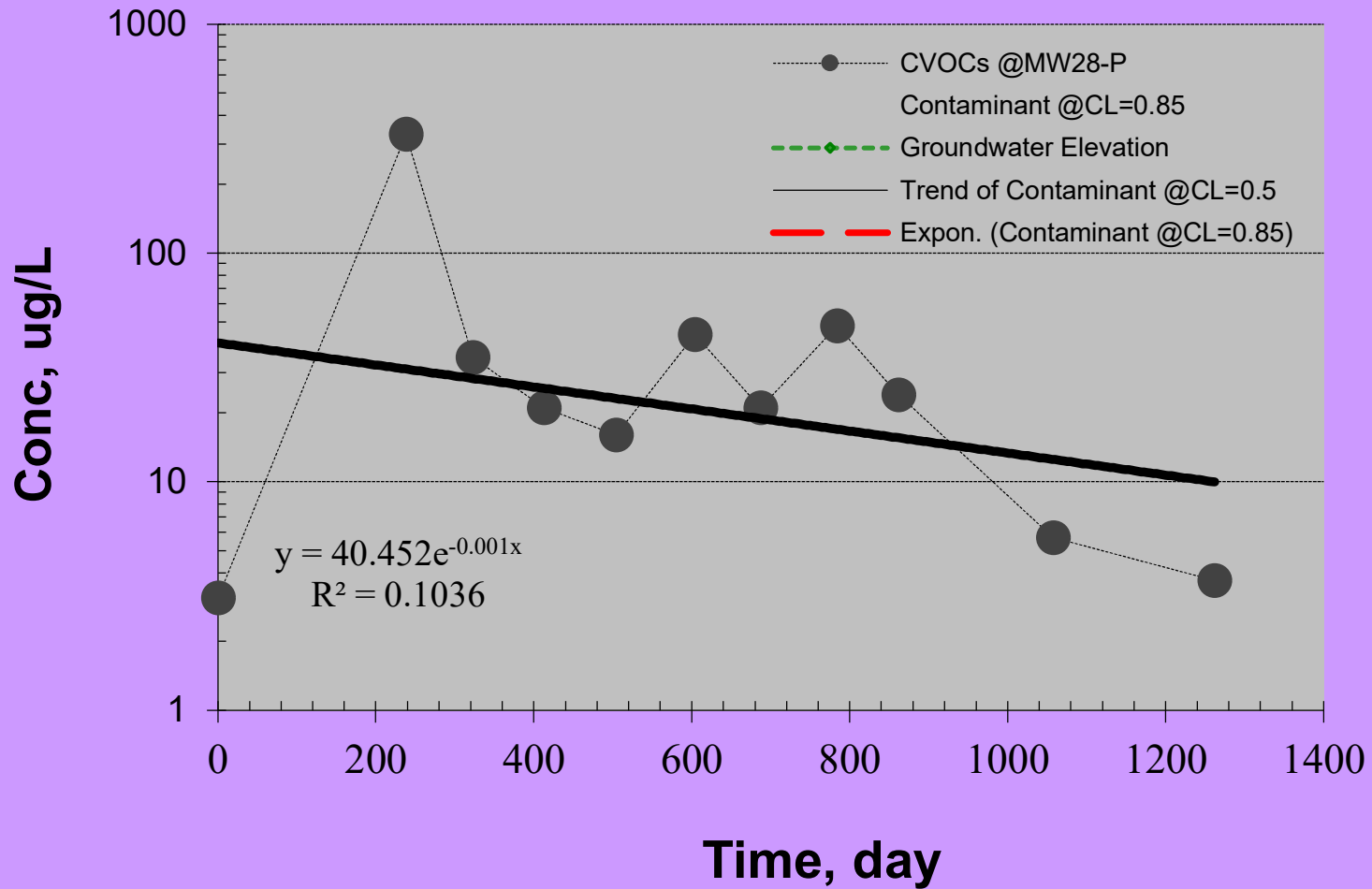
| Hazardous Substance? | VC | | | | | |
|-----------------------------------|--------------|-----|-----|-----|-----|-----|
| Confidence Level Calculated? | 82.50% | NA | NA | NA | NA | NA |
| Plume Stability? | Undetermined | NA | NA | NA | NA | NA |
| Coefficient of Variation? | CV > 1 | n<4 | n<4 | n<4 | n<4 | n<4 |
| Mann-Kendall Statistic "S" value? | 22 | 0 | 0 | 0 | 0 | 0 |
| Number of Sampling Rounds? | 16 | 0 | 0 | 0 | 0 | 0 |
| Average Concentration? | 0.55 | NA | NA | NA | NA | NA |
| Standard Deviation? | 0.62 | NA | NA | NA | NA | NA |
| Coefficient of Variation? | 1.12 | NA | NA | NA | NA | NA |
| Blank if No Errors found | | n<4 | n<4 | n<4 | n<4 | n<4 |

3. Temporal Trend: Plot of Concentration vs. Sampling Time

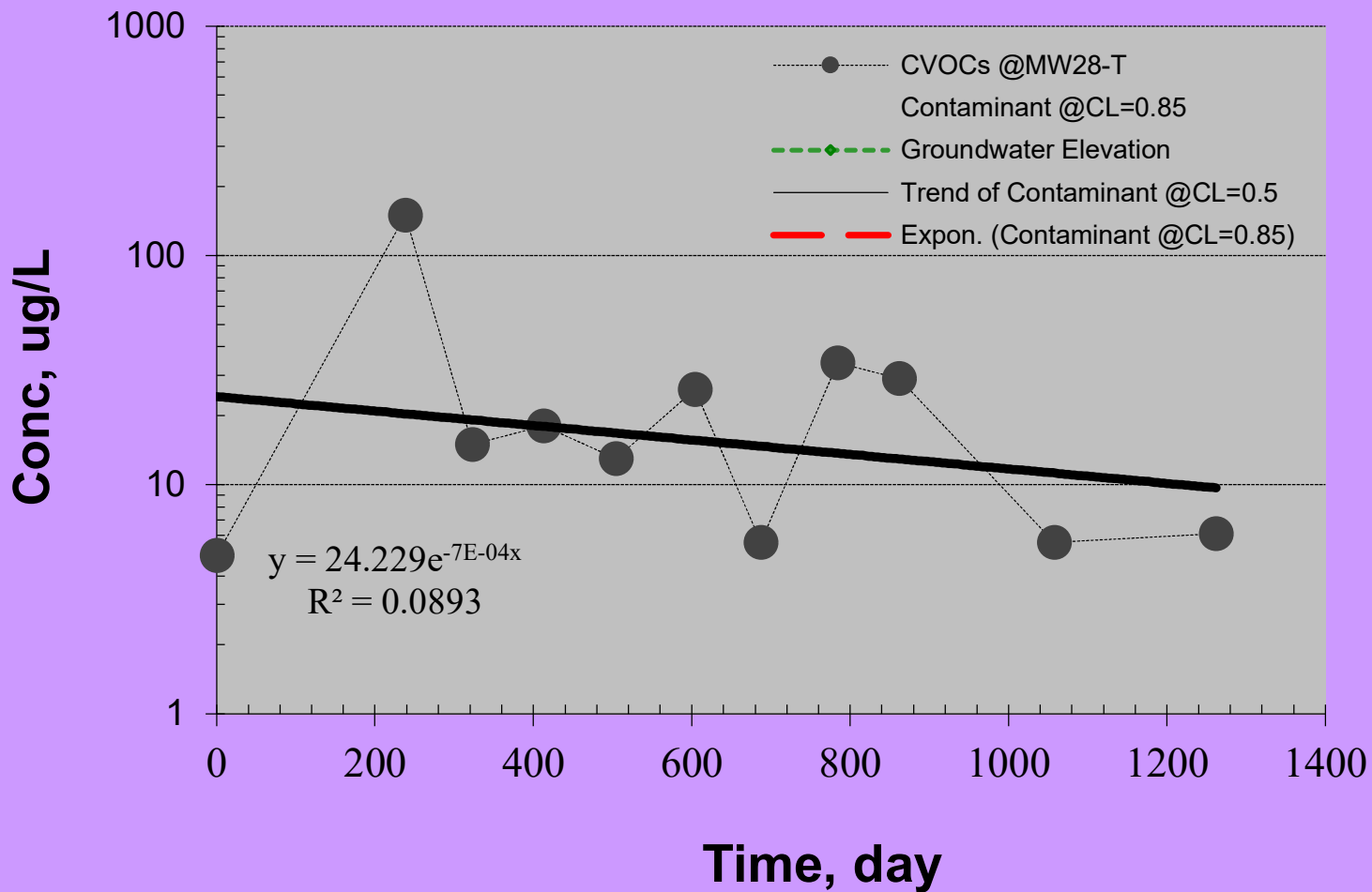
Hazardous substance? **VC**
 Plume Stability? **Undetermined**



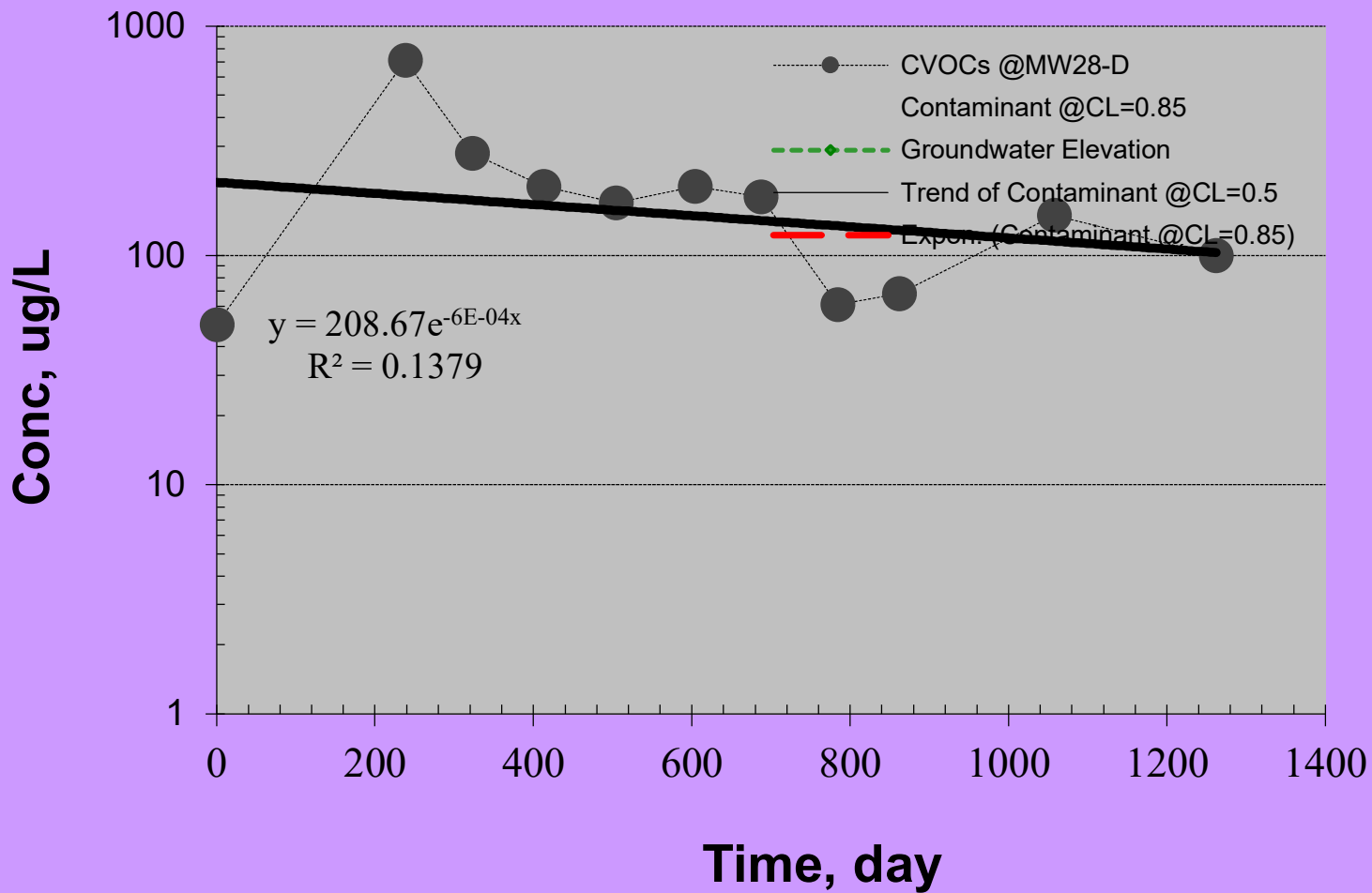
PCE Concentration vs Time MW28



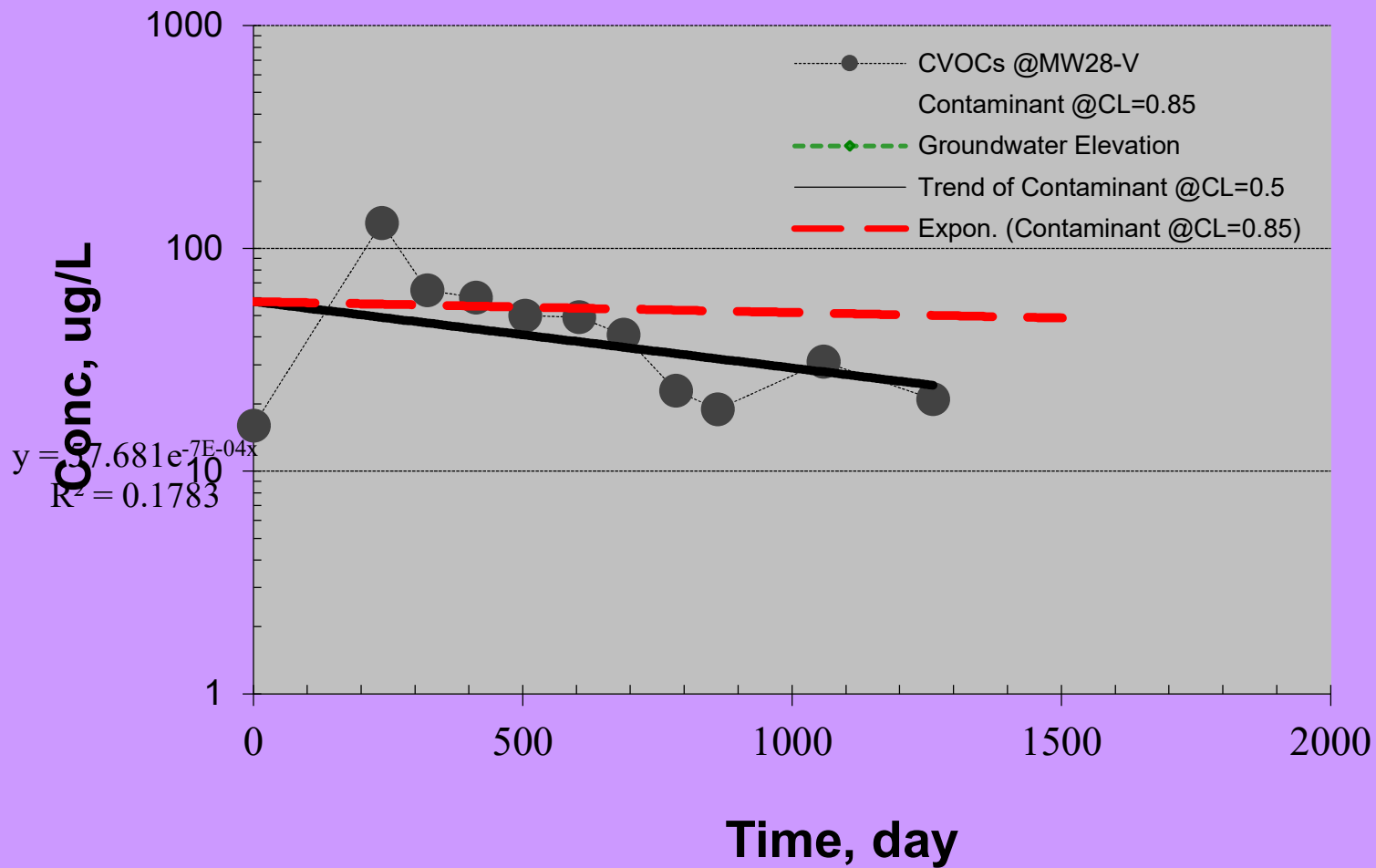
TCE Concentration vs Time MW28



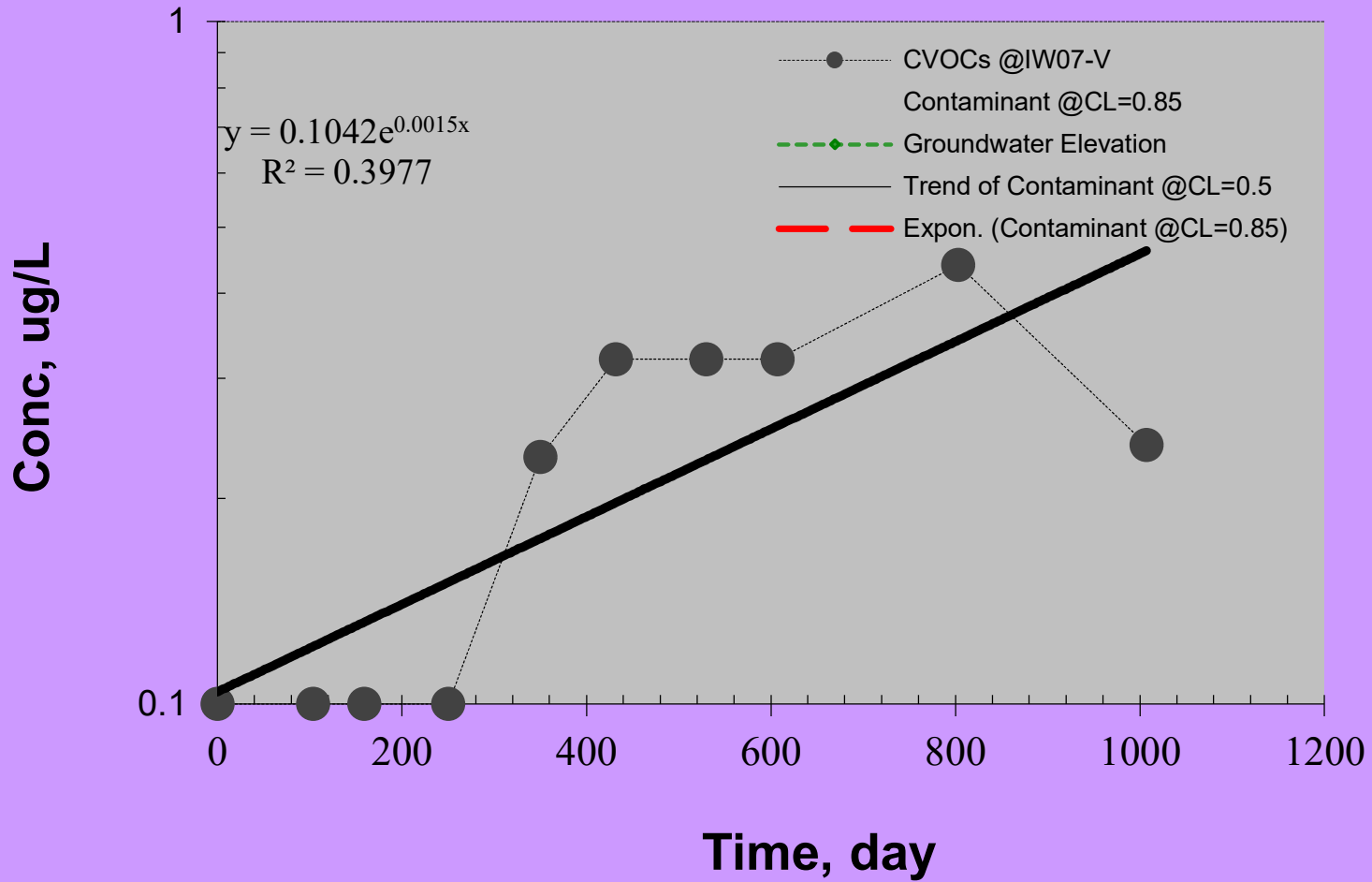
cis-1,2-DCE Concentration vs Time MW28



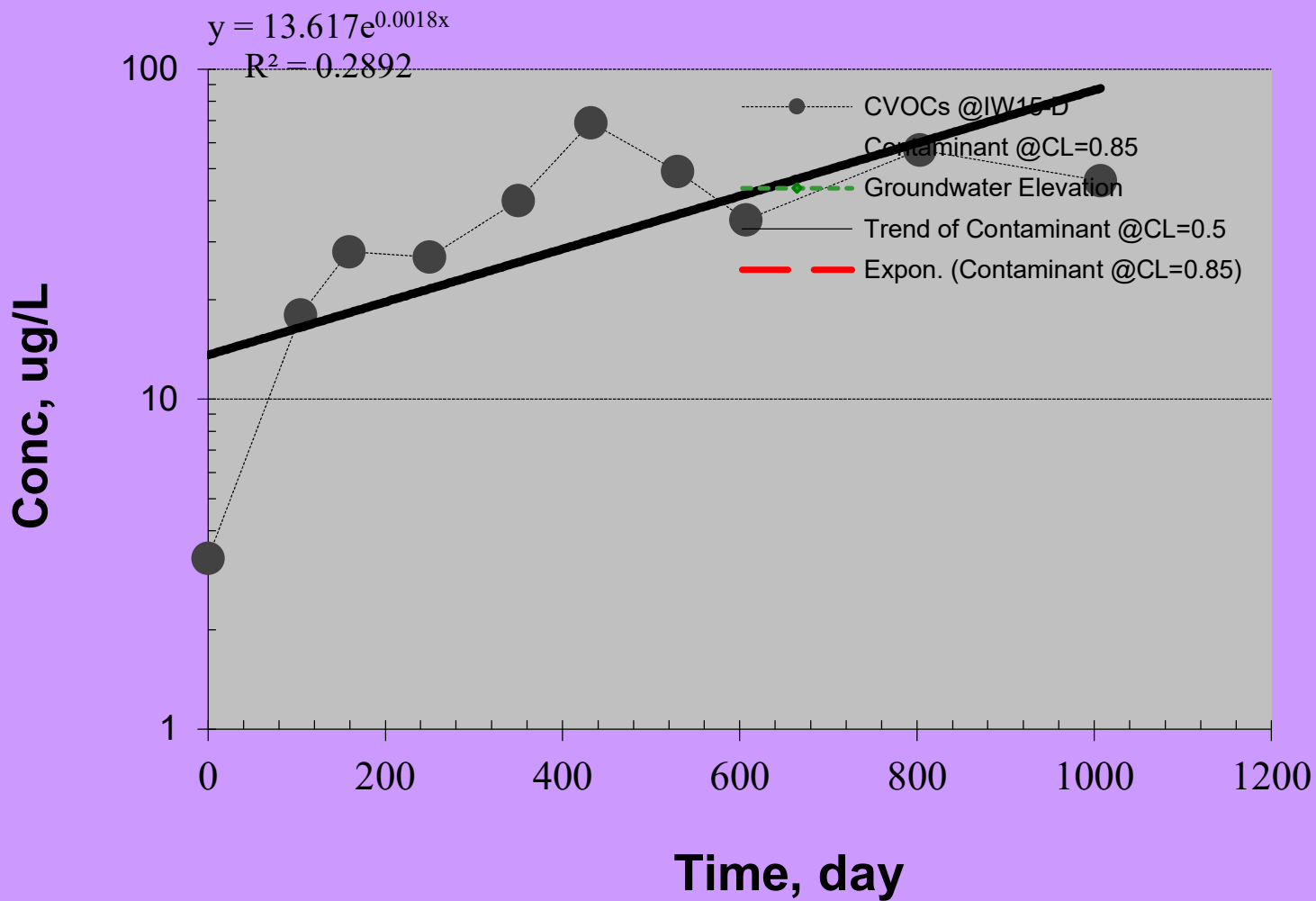
VC Concentration vs Time MW28



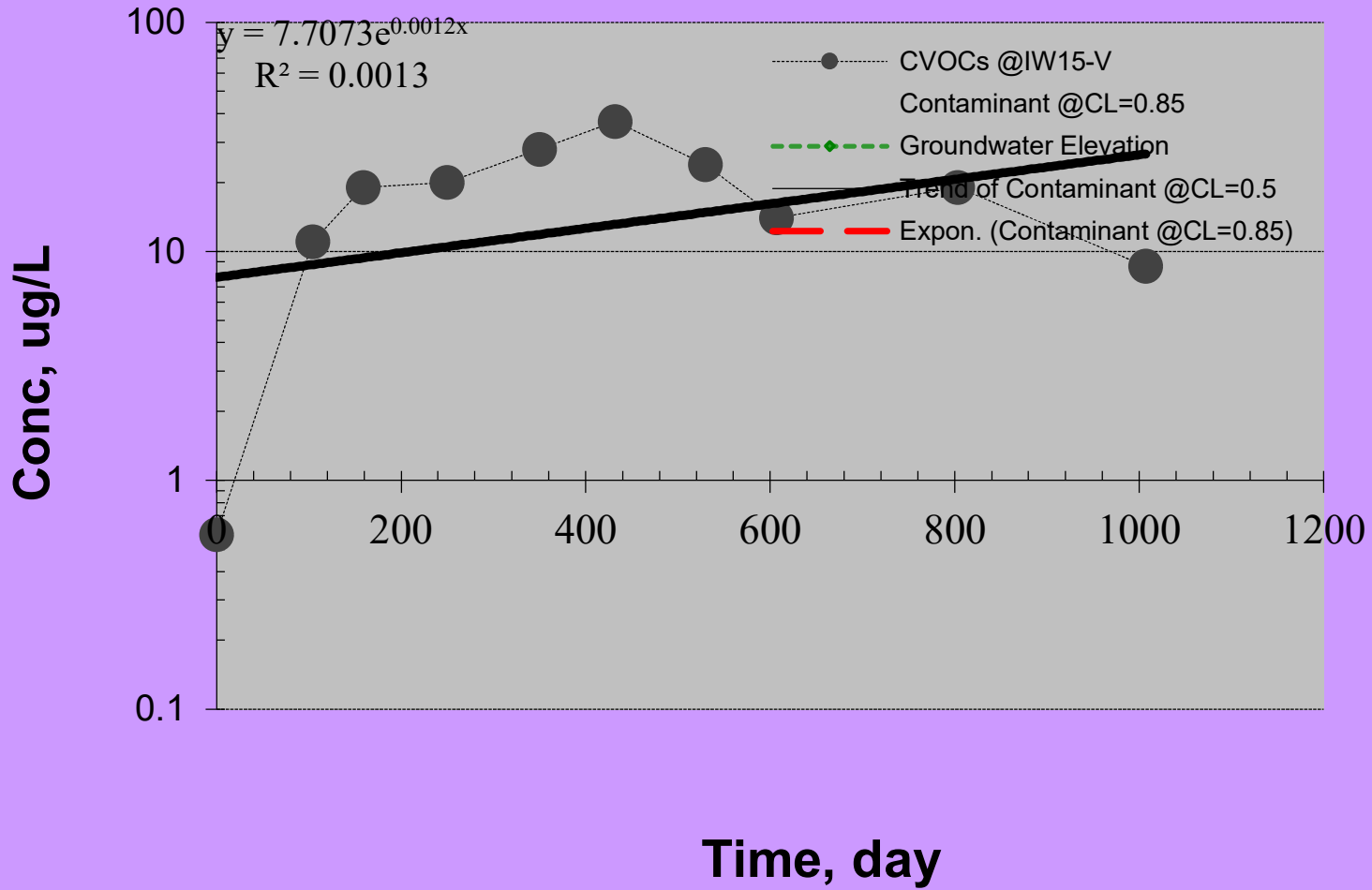
VC Concentration vs Time IW07



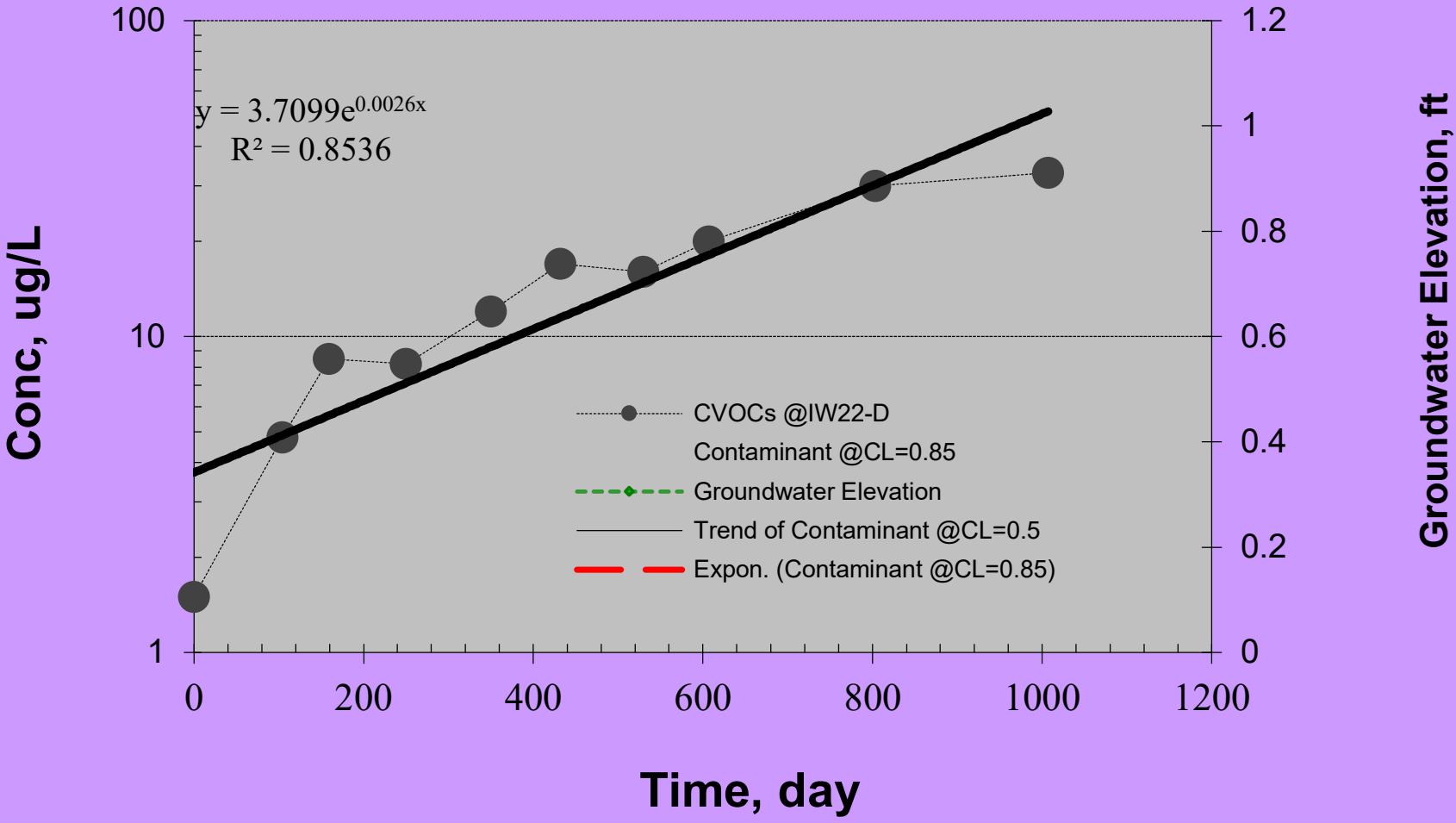
cis-1,2-DCE Concentration vs Time IW15



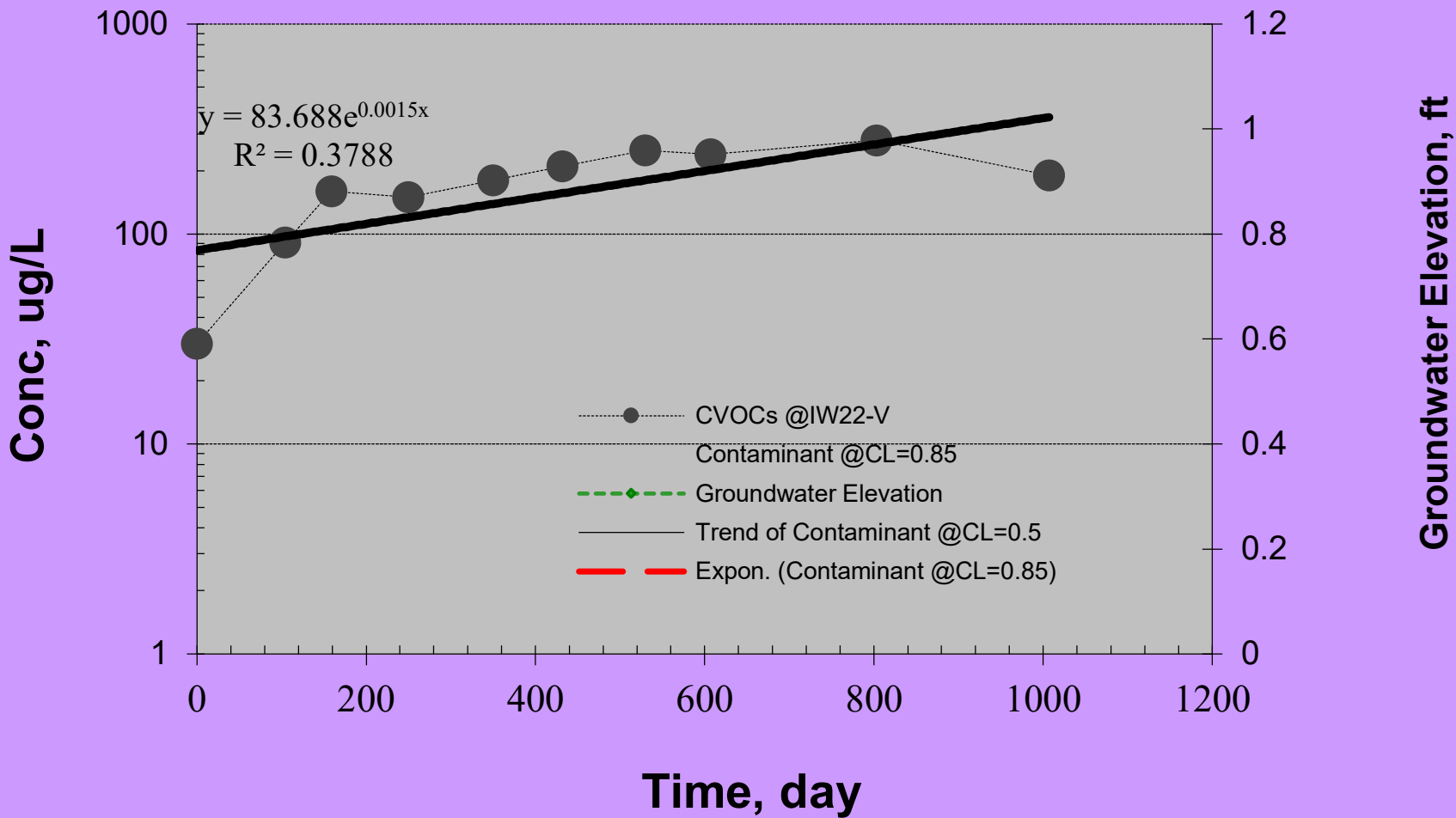
VC Concentration vs Time IW15



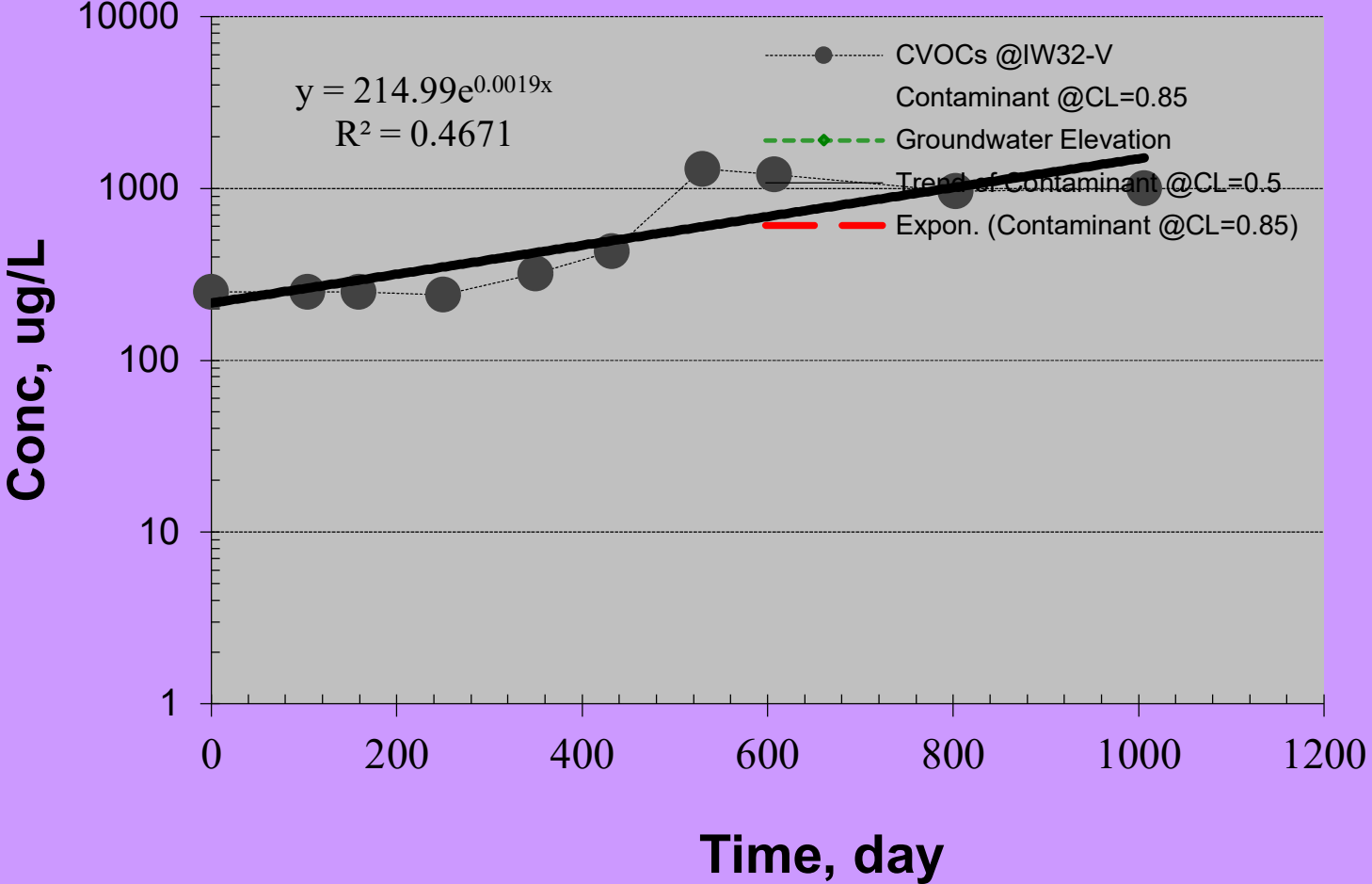
cis-1,2-DCE Concentration vs Time IW22



VC Concentration vs Time IW22



VC Concentration vs Time IW32



Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)

Site Name: *Plastic Sales Site*

Site Address: *6870 Woodlawn Ave. NE*

Additional Description: *CVOCs*

Well (Sampling) Location? **IW32**

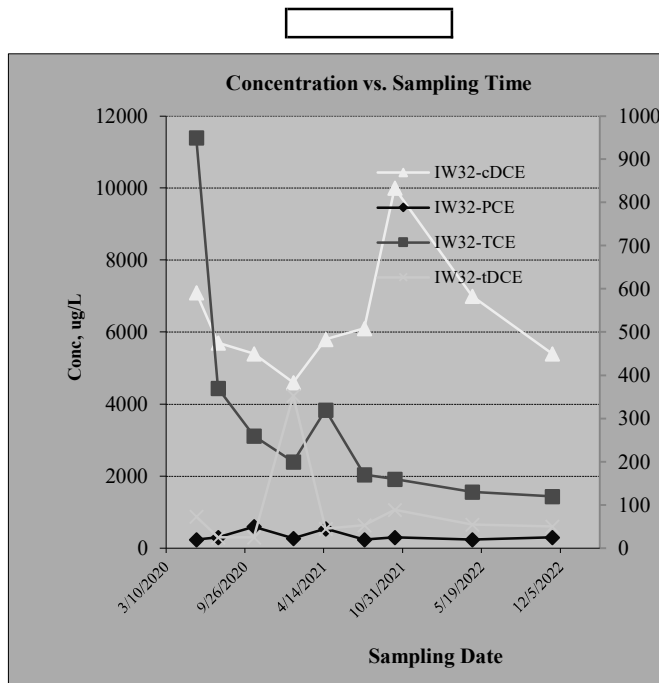
Level of Confidence (Decision Criteria)? **85%**

1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.

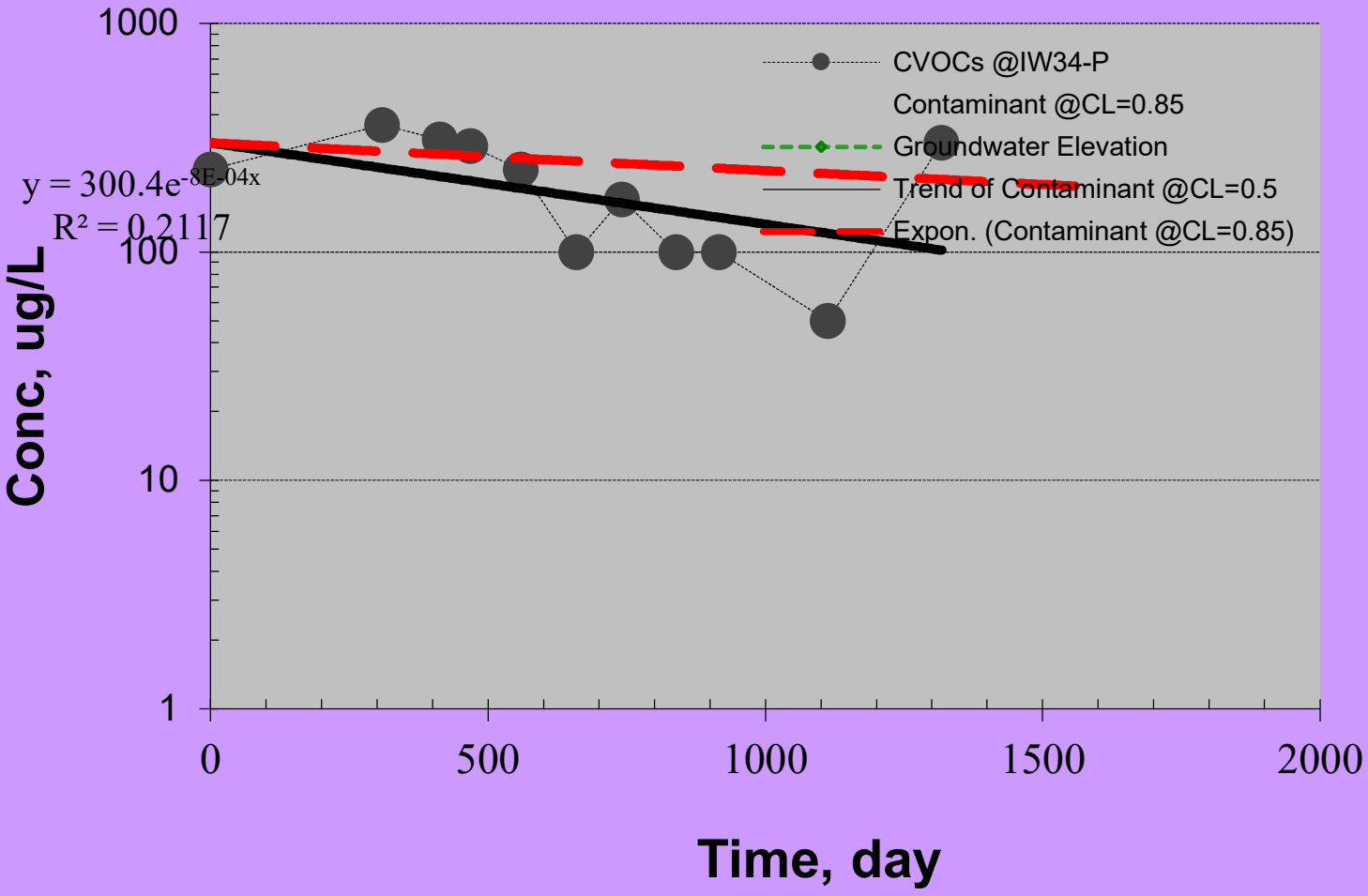
| | | Hazardous Substances (unit is ug/L) | | | |
|----------------|--------------|-------------------------------------|----------|-----------|-----------|
| Sampling Event | Date Sampled | IW32-PCE | IW32-TCE | IW32-cDCE | IW32-tDCE |
| #1 | 2/12/2020 | 20 | 950 | 7100 | 73 |
| #2 | 5/26/2020 | 25 | 370 | 5700 | 25 |
| #3 | 7/20/2020 | 50 | 260 | 5400 | 25 |
| #4 | 10/19/2020 | 23 | 200 | 4600 | 353 |
| #5 | 1/27/2021 | 45 | 320 | 5800 | 45 |
| #6 | 4/19/2021 | 20 | 170 | 6100 | 53 |
| #7 | 7/26/2021 | 25 | 160 | 10000 | 89 |
| #8 | 10/11/2021 | 20 | 130 | 7000 | 55 |
| #9 | 4/25/2022 | 25 | 120 | 5400 | 50 |
| #10 | 11/14/2022 | 15 | 130 | 6100 | 32 |
| #11 | | | | | |
| #12 | | | | | |
| #13 | | | | | |
| #14 | | | | | |
| #15 | | | | | |
| #16 | | | | | |

2. Mann-Kendall Non-parametric Statistical Test Results

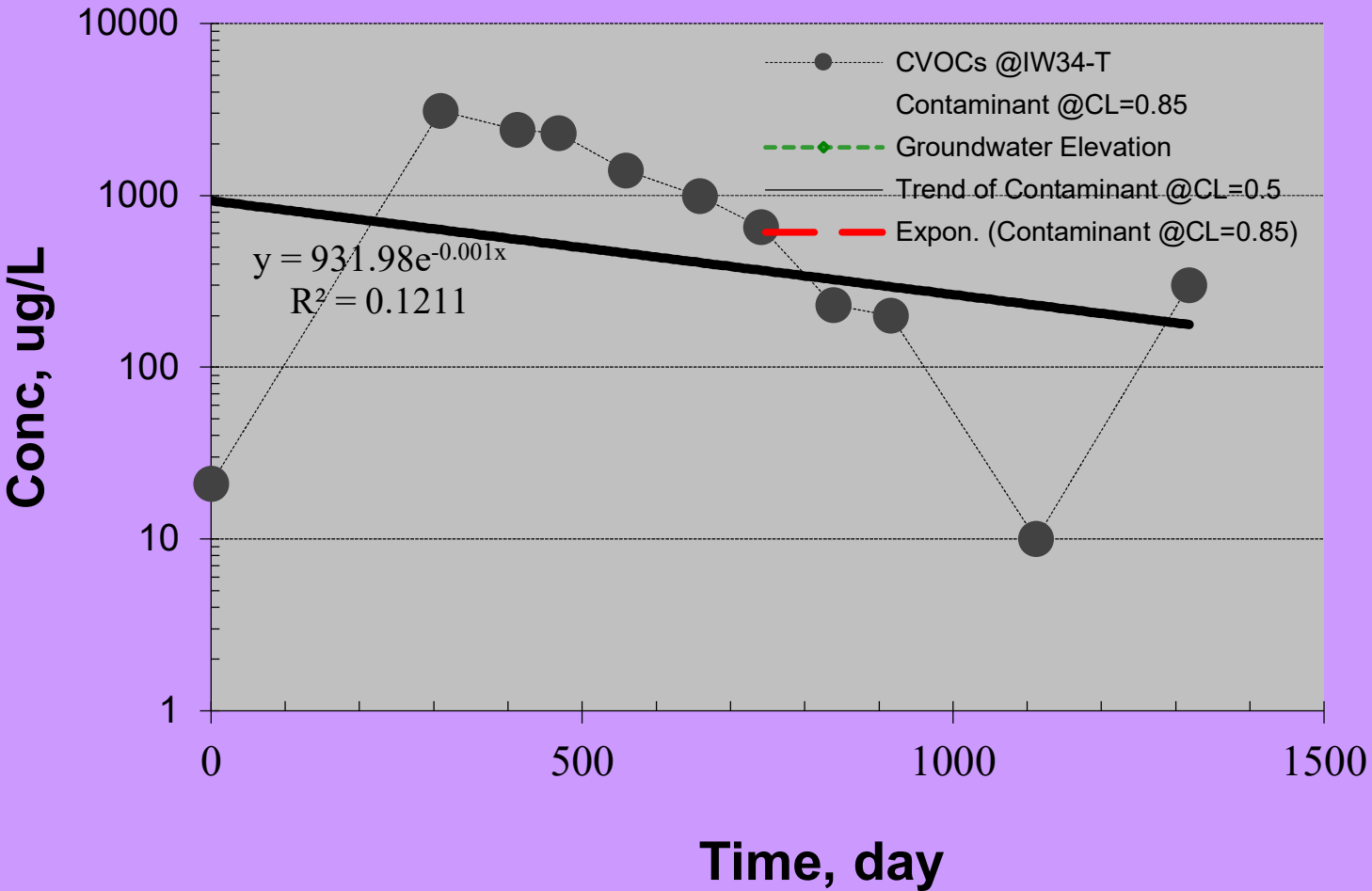
| Hazardous Substance? | IW32-PCE | IW32-TCE | IW32-cDCE | IW32-tDCE | | |
|-----------------------------------|----------|-----------|-----------|--------------|-----|-----|
| Confidence Level Calculated? | 81.00% | 100.00% | 63.60% | -900.00% | NA | NA |
| Plume Stability? | Stable | Shrinking | Stable | Undetermined | NA | NA |
| Coefficient of Variation? | CV <= 1 | | CV <= 1 | CV > 1 | n<4 | n<4 |
| Mann-Kendall Statistic "S" value? | -11 | -38 | 5 | 0 | 0 | 0 |
| Number of Sampling Rounds? | 10 | 10 | 10 | 10 | 0 | 0 |
| Average Concentration? | 26.80 | 281.00 | 6320.00 | 80.00 | NA | NA |
| Standard Deviation? | 11.41 | 250.00 | 1491.31 | 98.03 | NA | NA |
| Coefficient of Variation? | 0.43 | 0.89 | 0.24 | 1.23 | NA | NA |
| Blank if No Errors found | | | | | n<4 | n<4 |



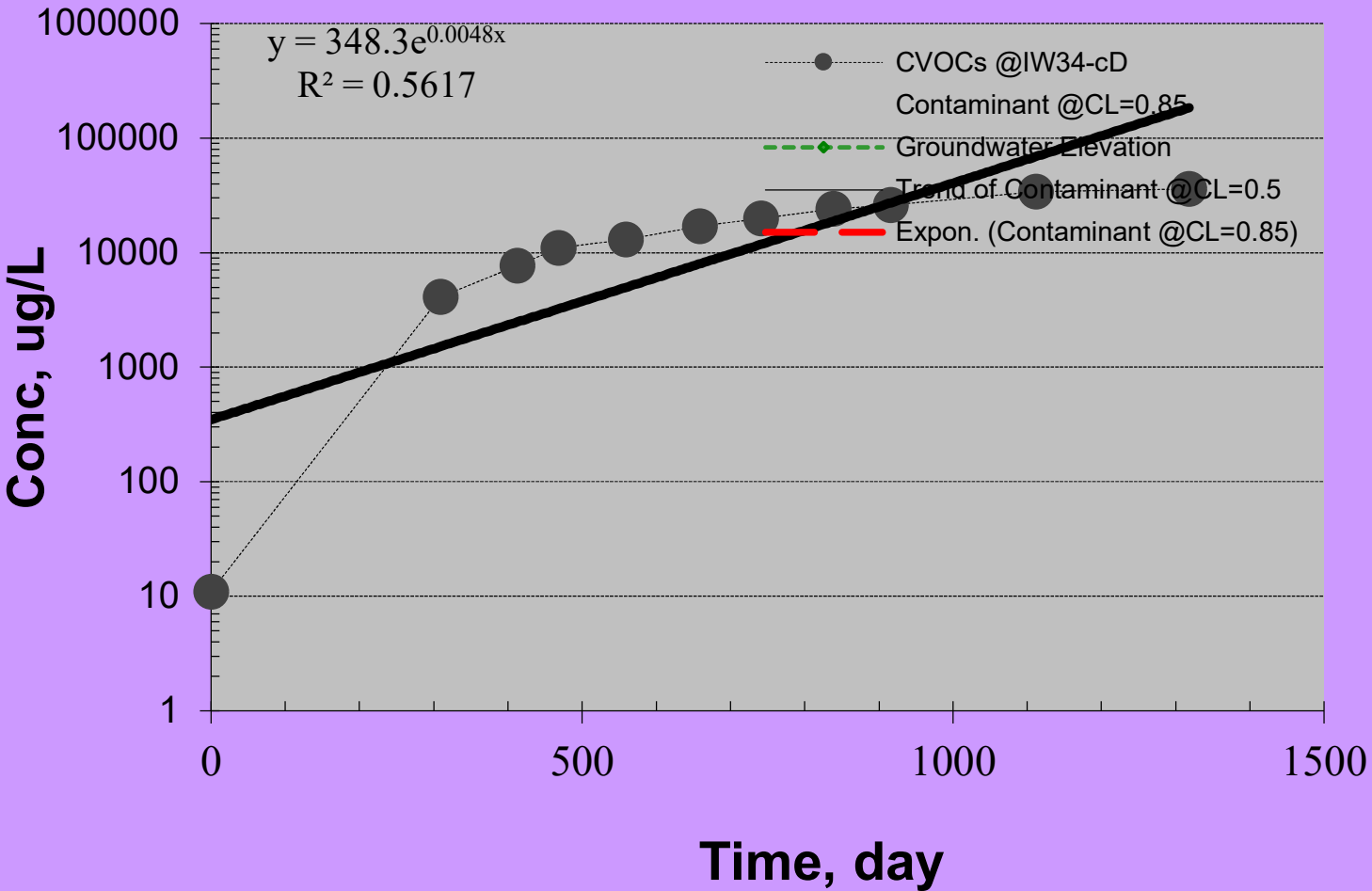
PCE Concentration vs Time IW34



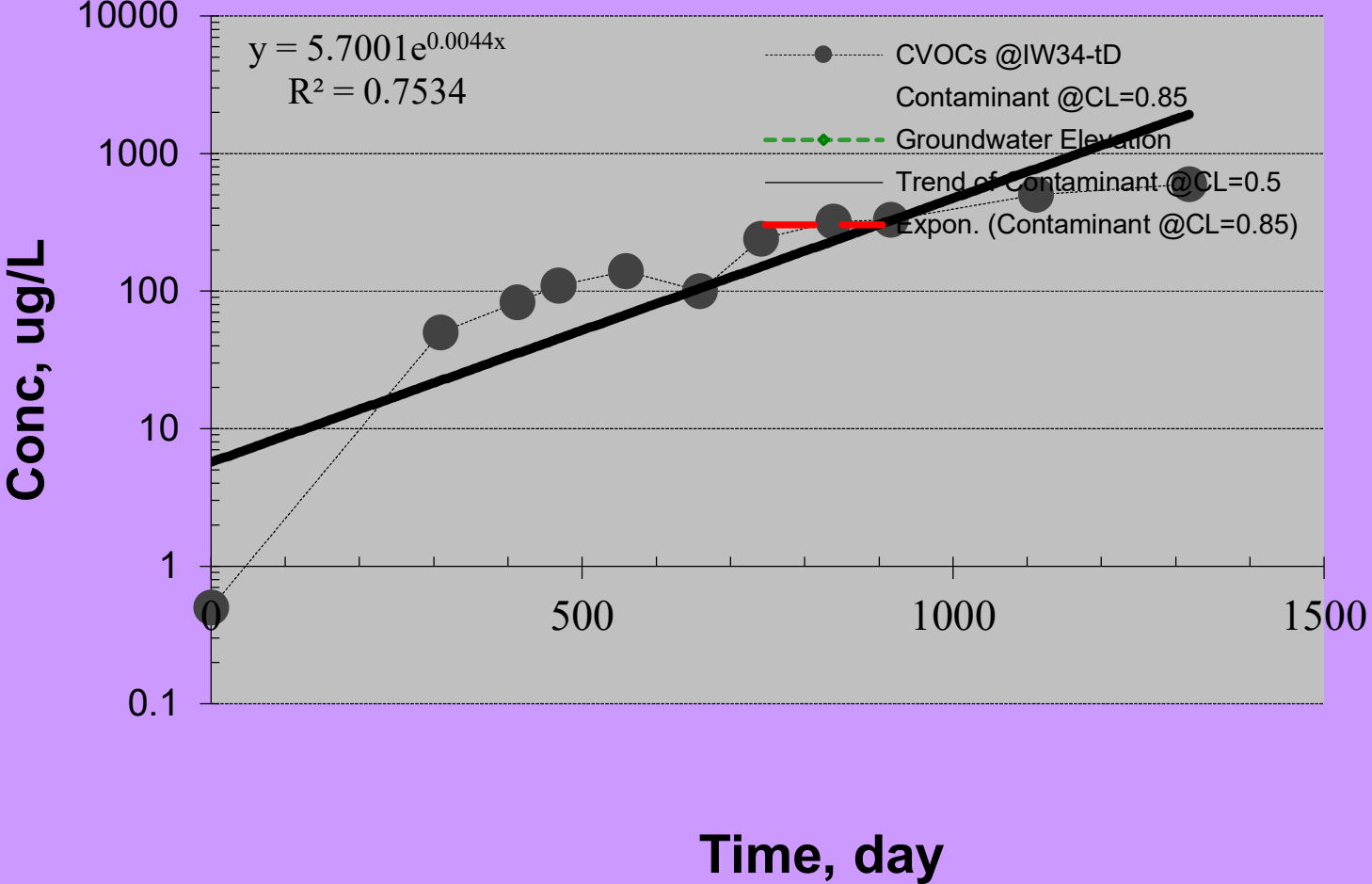
TCE Concentration vs Time IW34



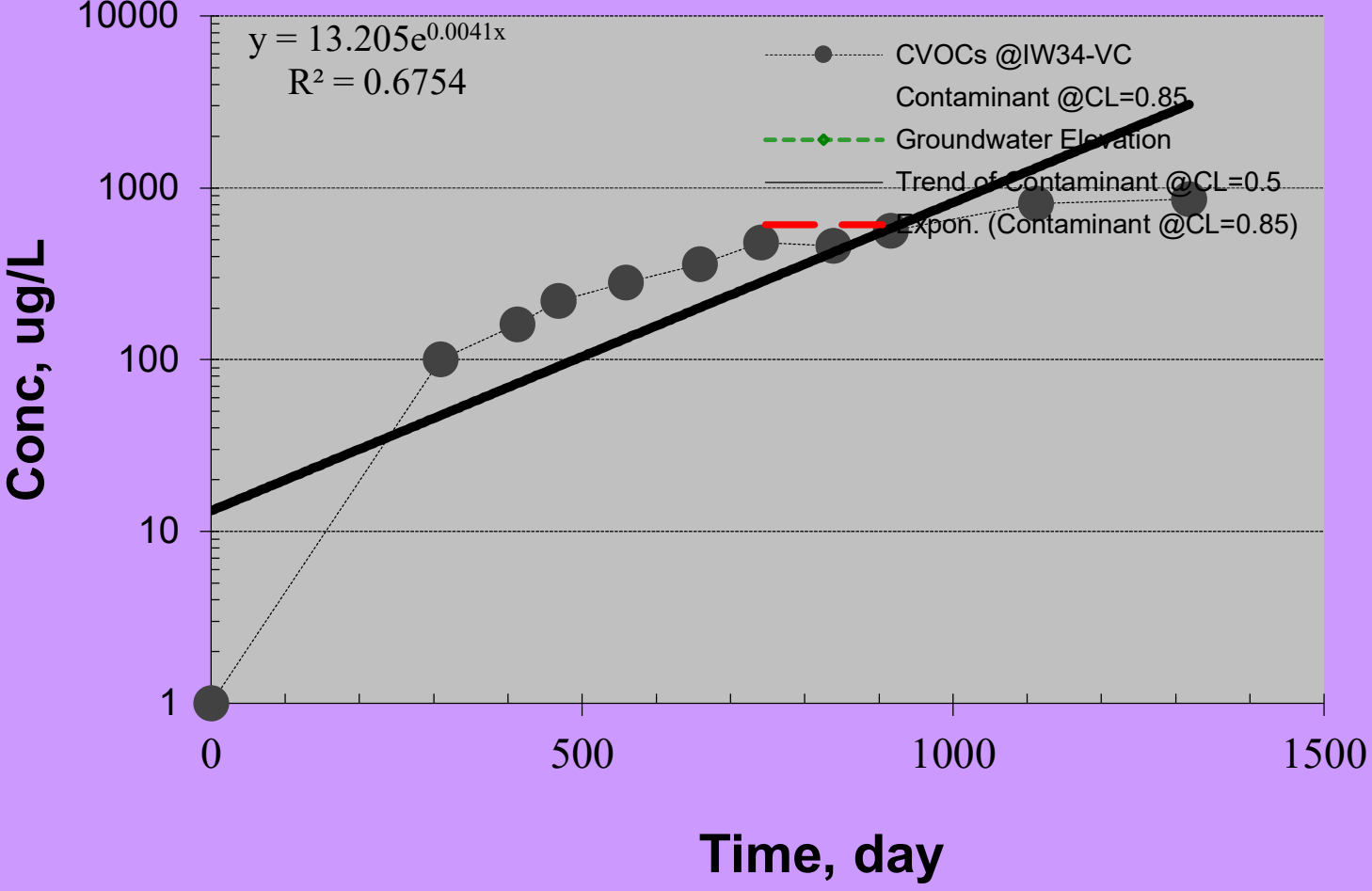
cis-1,2-DCE Concentration vs Time IW34



trans-1,2-DCE Concentration vs Time IW34



VC Concentration vs Time IW34



Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)

Site Name: *Plastic Sales and Servic*

Site Address: *6870 Woodlawn Ave NE, Seattle, WA*

Additional Description: *CVOCs*

Well (Sampling) Location? **MW09**

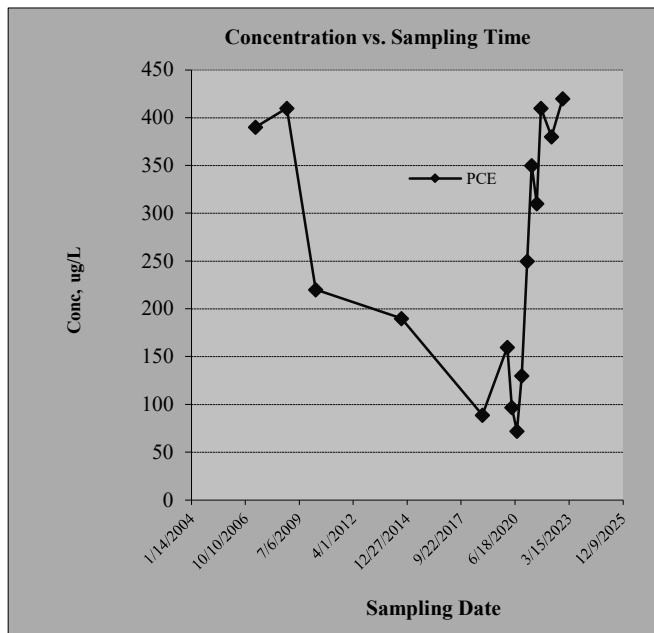
Level of Confidence (Decision Criteria)? **85%**

1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.

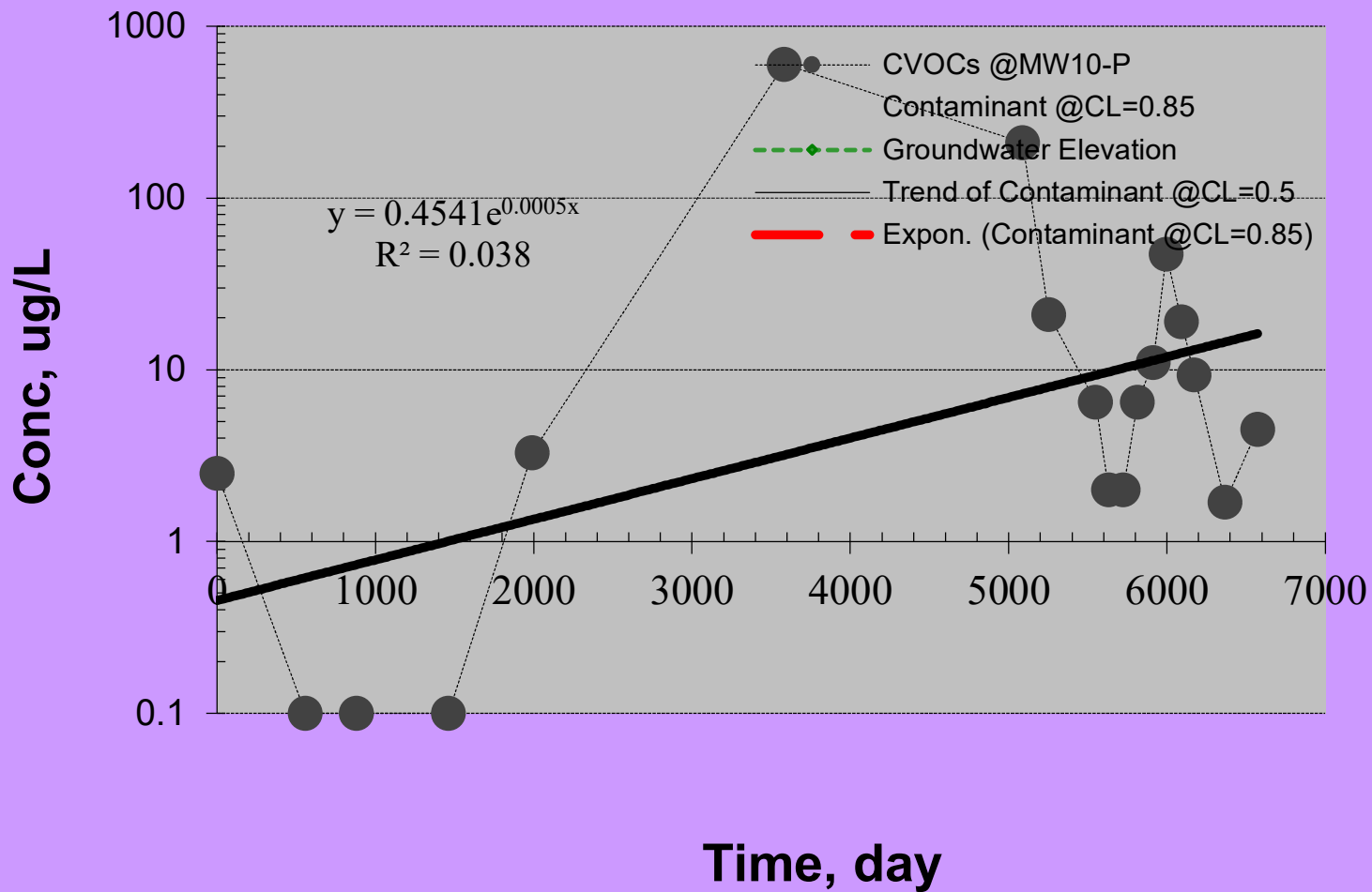
| | | Hazardous Substances (unit is ug/L) | | | | |
|----------------|--------------|-------------------------------------|--|--|--|--|
| Sampling Event | Date Sampled | PCE | | | | |
| #1 | 6/1/2006 | 390 | | | | |
| #2 | 4/20/2007 | 410 | | | | |
| #3 | 11/20/2008 | 220 | | | | |
| #4 | 5/4/2010 | 190 | | | | |
| #5 | 9/10/2014 | 89 | | | | |
| #6 | 10/24/2018 | 160 | | | | |
| #7 | 1/29/2020 | 97 | | | | |
| #8 | 4/21/2020 | 72 | | | | |
| #9 | 7/21/2020 | 130 | | | | |
| #10 | 10/20/2020 | 250 | | | | |
| #11 | 1/28/2021 | 350 | | | | |
| #12 | 4/20/2021 | 310 | | | | |
| #13 | 7/27/2021 | 410 | | | | |
| #14 | 10/13/2021 | 380 | | | | |
| #15 | 4/27/2022 | 420 | | | | |
| #16 | 11/17/2022 | 670 | | | | |

2. Mann-Kendall Non-parametric Statistical Test Results

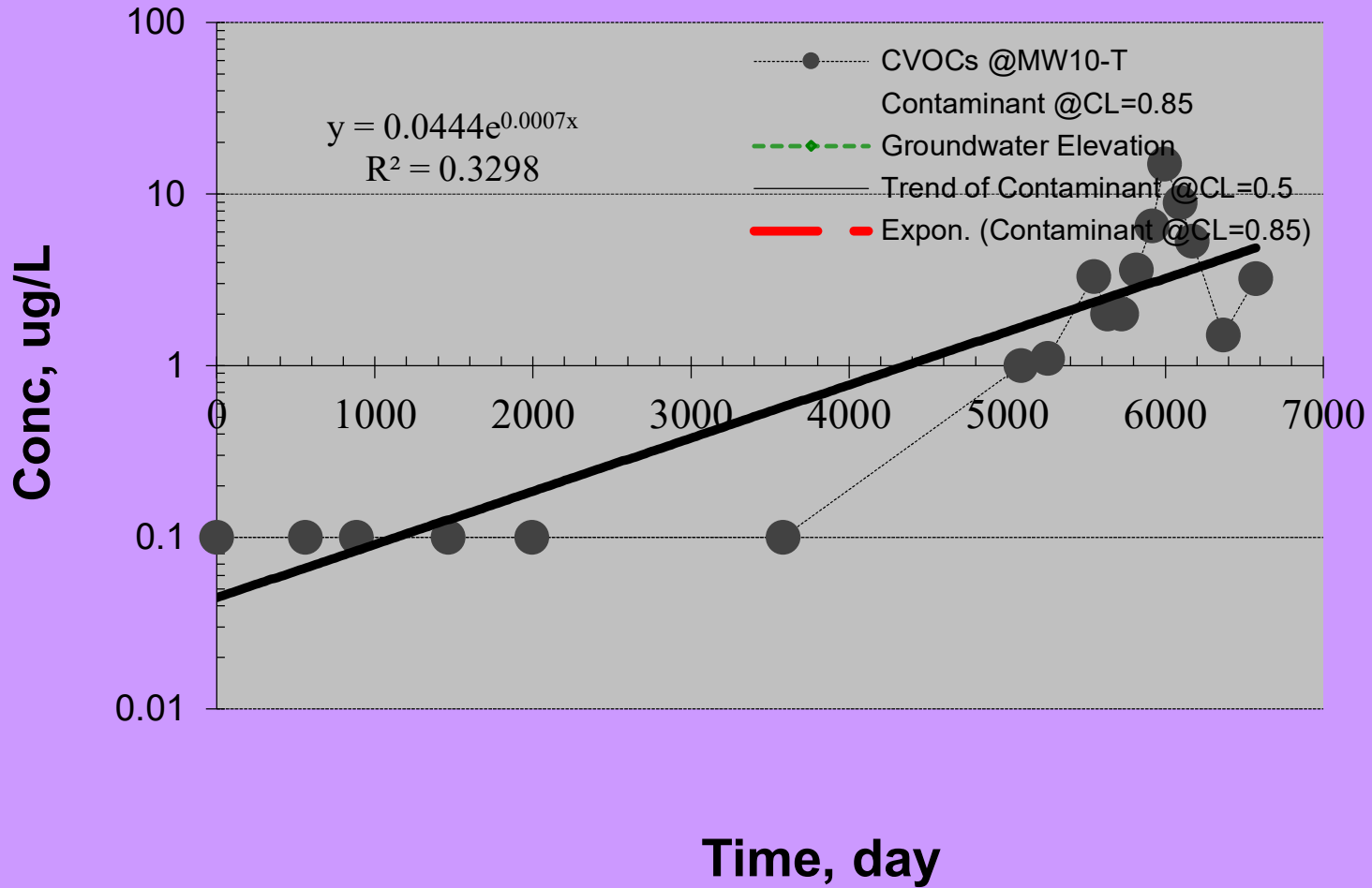
| Hazardous Substance? | PCE | | | | | |
|-----------------------------------|------------------|-----|-----|-----|-----|-----|
| Confidence Level Calculated? | 95.20% | NA | NA | NA | NA | NA |
| Plume Stability? | Expanding | NA | NA | NA | NA | NA |
| Coefficient of Variation? | | n<4 | n<4 | n<4 | n<4 | n<4 |
| Mann-Kendall Statistic "S" value? | 39 | 0 | 0 | 0 | 0 | 0 |
| Number of Sampling Rounds? | 16 | 0 | 0 | 0 | 0 | 0 |
| Average Concentration? | 284.25 | NA | NA | NA | NA | NA |
| Standard Deviation? | 162.45 | NA | NA | NA | NA | NA |
| Coefficient of Variation? | 0.57 | NA | NA | NA | NA | NA |
| Blank if No Errors found | | n<4 | n<4 | n<4 | n<4 | n<4 |



PCE Concentration vs Time MW10



TCE Concentration vs Time MW10



Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)

Site Name: *Plastic Sales and Service*

Site Address: *6870 Woodlawn Ave N. Seattle, WA*

Additional Description: *CVOCs*

Well (Sampling) Location? **MW10**

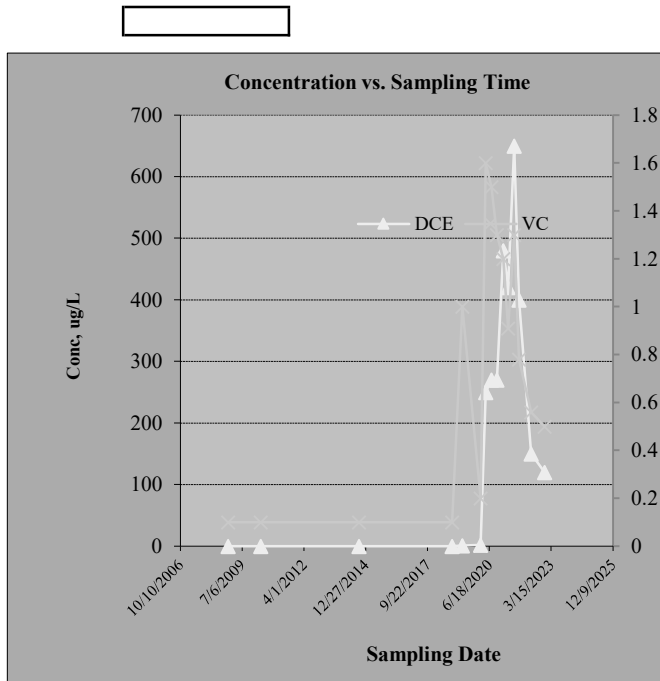
Level of Confidence (Decision Criteria)? **85%**

1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.

| Sampling Event | Date Sampled | Hazardous Substances (unit is ug/L) | | | |
|----------------|--------------|-------------------------------------|------|--|--|
| | | DCE | VC | | |
| #1 | 4/20/2007 | 0.1 | 0.1 | | |
| #2 | 11/20/2008 | 0.1 | 0.1 | | |
| #3 | 5/4/2010 | 0.1 | 0.1 | | |
| #4 | 9/10/2014 | 0.1 | 0.1 | | |
| #5 | 10/24/2018 | 1 | 1 | | |
| #6 | 4/9/2019 | 1.8 | 0.2 | | |
| #7 | 1/29/2020 | 250 | 1.6 | | |
| #8 | 4/22/2020 | 270 | 1.5 | | |
| #9 | 7/22/2020 | 270 | 1.3 | | |
| #10 | 10/20/2020 | 480 | 1.2 | | |
| #11 | 1/28/2021 | 420 | 0.91 | | |
| #12 | 4/20/2021 | 650 | 1.3 | | |
| #13 | 7/26/2021 | 400 | 0.78 | | |
| #14 | 10/12/2021 | 150 | 0.56 | | |
| #15 | 4/26/2022 | 120 | 0.5 | | |
| #16 | 11/27/2022 | 80 | 0.45 | | |

2. Mann-Kendall Non-parametric Statistical Test Results

| Hazardous Substance? | | | DCE | VC | | |
|-----------------------------------|-----|-----|------------------|---------|-----|-----|
| Confidence Level Calculated? | NA | NA | 99.40% | 74.70% | NA | NA |
| Plume Stability? | NA | NA | <i>Expanding</i> | Stable | NA | NA |
| Coefficient of Variation? | n<4 | n<4 | | CV <= 1 | n<4 | n<4 |
| Mann-Kendall Statistic "S" value? | 0 | 0 | 57 | 17 | 0 | 0 |
| Number of Sampling Rounds? | 0 | 0 | 16 | 16 | 0 | 0 |
| Average Concentration? | NA | NA | 193.33 | 0.73 | NA | NA |
| Standard Deviation? | NA | NA | 207.03 | 0.54 | NA | NA |
| Coefficient of Variation? | NA | NA | 1.07 | 0.74 | NA | NA |
| Blank if No Errors found | n<4 | n<4 | | | n<4 | n<4 |



Module1: Mann-Kendall Trend Test for Plume Stability (Non-parametric Statistical Test)

Site Name: *Plastic Sales and Services Site*

Site Address: *6870 Woodlawn Avenue NE, Seattle, WA*

Additional Description: *CVOCs*

Well (Sampling) Location? **MW31**

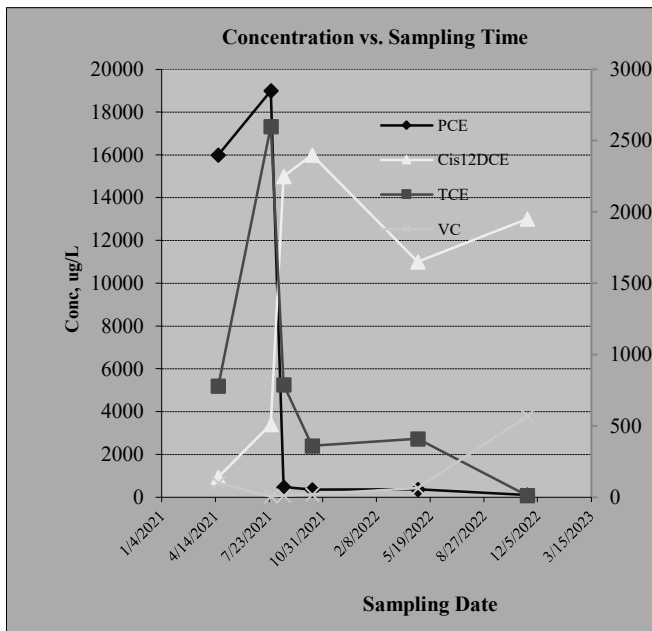
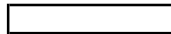
Level of Confidence (Decision Criteria)? **85%**

1. Monitoring Well Information: Contaminant Concentration at a well: Quarterly sampling recommended.

| | | Hazardous Substances (unit is ug/L) | | | |
|----------------|--------------|-------------------------------------|-------|----------|------|
| Sampling Event | Date Sampled | PCE | TCE | Cis12DCE | VC |
| #1 | 1/27/2021 | 16000 | 780 | 940 | 100 |
| #2 | 4/19/2021 | 19000 | 2,600 | 3400 | 5 |
| #3 | 7/26/2021 | 480 | 790 | 15000 | 12 |
| #4 | 8/19/2021 | 350 | 360 | 16000 | 20 |
| #5 | 10/11/2021 | 370 | 410 | 11000 | 65 |
| #6 | 4/26/2022 | 110 | 12 | 13000 | 570 |
| #7 | 11/16/2022 | 55 | 13 | 10000 | 1100 |
| #8 | | | | | |
| #9 | | | | | |
| #10 | | | | | |
| #11 | | | | | |
| #12 | | | | | |
| #13 | | | | | |
| #14 | | | | | |
| #15 | | | | | |
| #16 | | | | | |

2. Mann-Kendall Non-parametric Statistical Test Results

| Hazardous Substance? | PCE | TCE | Cis12DCE | VC | | |
|-----------------------------------|-----------|-----------|----------|------------------|-----|-----|
| Confidence Level Calculated? | 99.50% | 96.50% | 71.90% | 96.50% | NA | NA |
| Plume Stability? | Shrinking | Shrinking | Stable | <i>Expanding</i> | NA | NA |
| Coefficient of Variation? | | | CV <= 1 | | n<4 | n<4 |
| Mann-Kendall Statistic "S" value? | -17 | -13 | 5 | 13 | 0 | 0 |
| Number of Sampling Rounds? | 7 | 7 | 7 | 7 | 0 | 0 |
| Average Concentration? | 5195.00 | 709.21 | 9905.71 | 267.43 | NA | NA |
| Standard Deviation? | 8451.71 | 891.59 | 5723.95 | 418.14 | NA | NA |
| Coefficient of Variation? | 1.63 | 1.26 | 0.58 | 1.56 | NA | NA |
| Blank if No Errors found | | | | | n<4 | n<4 |



APPENDIX C
BUILDING SURVEY FORM



SoundEarth Strategies, Inc.
1011 SW Klickitat Way, Suite 212
Seattle, Washington 98134

| | | |
|----------------------------|----------------------------|---------------------------|
| Client & Site Name/Number: | SoundEarth Project Number: | Date: |
| Site Address: | Purpose of Visit/Task #: | Field Report Prepared by: |

Building Survey Form

Address: _____

Tenant/Occupant Name: _____ Phone: _____

Owner's Name: _____ Phone: _____

Owner's Address: _____

Point of Contact: _____ Phone: _____

Contact Information: _____

Weather conditions at time of indoor air sampling event:

A. General Building Information

Attach plan view or sketch of building floor plan

Building Year Constructed: _____

Building Type: Residential / Office / Commercial / Industrial/ Government / School
Warehouse

Building Occupants: Adults _____ Children under 6 _____ Children 6-15 _____
Women Age 18-40 _____

Building Use: _____

Square Footage: _____

Ceiling Height: _____

Number of Stories: _____

Number of Elevators: _____

General Description of Building Construction Materials:

Foundation Type: Basement / Crawl Space / Slab

Foundation Materials: Poured Concrete / Cinder Blocks / Earthen / Wood Pilings/

Other (Specify _____)

Foundation Wall Material: Poured Concrete / Cinder Blocks / Earthen / Wood / Stone

If there is a basement, please answer questions in Section B. If there is not a basement, skip to Section C.

B. Subfloor / Basement Information

Is the basement finished? Y / N

Does anyone live in the basement as a primary residence or use the basement daily? Y / N

Basement floor type: Dirt / Concrete / Other

(describe): _____

Is the basement generally: wet / dry / damp?

Is there a sump in the basement? Y / N

If yes, please describe the size, the construction, where it is, and whether or not there is a sump and how it is activated: _____

What was the PID reading on the air above the sump grate? _____

Does the basement have cracks? Y / N If yes, PID reading: _____

Drainage point in floor? Y / N If yes, PID reading: _____

Sump or sump pump? Y / N If yes, PID reading: _____

Pipes or utility conduits through floor or outside walls? Y / N If yes, PID reading: _____

Is the basement painted? Y / N

 If yes, when _____ and with: latex / oil-based paint / stain

Does the basement have flooring over the foundation? Y / N

 If yes, what type: tile / carpet / wood / pergo / other, specify _____

Was glue used for installing the flooring? Y / N

Is there new furniture in the basement? Y / N If yes, describe type and date received

Are there odors in the basement? Y / N If yes, describe _____

C. First Floor Information (Complete for each additional floor)

What are the walls constructed of? Cinder block / sheet rock / paneling / other, specify

Are the walls painted? Y / N

If yes, when _____ and with: latex / oil-based paint / stain

Is there flooring in the first floor? Y / N

If yes, what type tile / carpet / wood / pergo / other, specify _____

Was glue used for installing the flooring? Y / N

Is there new furniture on the first floor? Y / N

If yes, describe type and date received _____

Are there pipes or utility conduits through the outside walls or floor? Y / N

If yes, PID reading _____

Are there odors on the first floor? If yes, describe _____

D. Heating and Ventilation Systems:

What type of heating system(s) are used in the building? (circle all that apply)

Heat Pump / Furnace Hot Air Radiation / Steam Radiation / Unvented Kerosene Heater
Wood Stove / Electric Baseboard

Other, specify _____

What type of fuel(s) are used in the building? (circle all that apply):

Natural Gas / Electric / Fuel Oil / Wood / Coal / Solar / Propane / Kerosene

Other, specify _____

What type of mechanical ventilation systems are present and/or currently operating in the building? (circle all that apply)

Mechanical Fans/ Open Windows / Individual Air Conditioning Units / Kitchen Range Hood
Bathroom Ventilation / Fan Air-to-Air Heat Exchanger

Other, specify _____

E. Roof construction

Is the roof pitched or flat? _____

Is there an attic? Y / N

If so, is it accessible? Y / N

If so, what is the height of the attic? _____

What is the roof comprised of?

Tar shingles / metal / rolled tar material / asphalt coating

other, specify _____

Description of roof support system (trusses, beams, construction materials, etc.) :

Diagram of Roof and Roof Supports

F. Building Use:

Is there standing water in the building (historic or current)? Y / N

Is there water damage in the building (historic or current)? Y / N

Is there fire damage to the building? Y / N If yes, date _____

Are there pest control applications to the building? Y / N If yes, date _____

Is there a septic system? Y / N If yes, date of system _____

Do one or more smokers occupy this building on a regular basis? Y / N

Has anybody smoked in the building in the last 48 hours? Y / N

Does the building have an attached garage? Y / N

If so, is a car usually parked in the garage? Y / N

Do the occupants of the building frequently have their clothes dry-cleaned? Y / N

Was there recent remodeling or painting done in the building (within the past 6 months)? Y / N

Are there any pressed wood products in the building (e.g., hardwood plywood wall paneling, particleboard, fiberboard)? Y / N

Are there any new upholstery, drapes or other textiles in the building? Y / N

Has the building been treated with any insecticides/pesticides? Y / N

If so, what chemicals are used and how often are they applied? _____

Do any of the occupants apply pesticides/herbicides in the yard or garden? Y / N

If so, what chemicals are used and how often are they applied? _____

Type of ground cover (e.g., grass, pavement, etc.) outside the building: _____

Is there a well on the property? If so, what is it used for and where is it screened? _____

Is there any other information about the structural features of this building, the habits of its occupants or potential sources of chemical contaminants to the indoor air that may be of importance in facilitating the evaluation of the indoor air quality of the building?

G. Potential Sources of Indoor Chemical Contaminants:

Which of these items are present in the building? (Check all that apply)

| Potential VOC Source | Location of Source | Removed 48 hours prior to sampling (Yes/No/NA) |
|---|--------------------|--|
| Paints | | |
| Gas-powered equipment | | |
| Gasoline storage cans | | |
| Cleaning solvents (thinner) | | |
| Air fresheners | | |
| Oven cleaners | | |
| Carpet/upholstery cleaners | | |
| Hairspray | | |
| Nail polish/polish remover | | |
| Bathroom cleaner | | |
| Appliance cleaner | | |
| Furniture/floor polish | | |
| Moth balls | | |
| Fuel tank | | |
| Wood stove | | |
| Fireplace | | |
| Perfume/colognes | | |
| Hobby supplies (e.g., solvents, paints, lacquers, glues, photographic darkroom chemicals) | | |
| Scented trees, wreaths, potpourri, etc. | | |
| Polish / wax | | |
| Insecticide / pesticide | | |
| Kerosene | | |
| Gun cleaner stored in the building | | |
| Building occupants using solvents at work | | |
| Other | | |
| | | |

H. Other Potential Sources of Indoor or Outdoor Air Contamination

Outside Sources of Contamination (check all that apply):

Garbage Dumpsters / Heavy Motor Traffic / Landing Dock in Use / Construction Activities
Airport flight path / Railyard or railcar traffic

Nearby Industries, specify _____

UST/AST (gasoline/heating fuel/other, specify) _____

Is there a known spill or release outside or inside the building? If yes, was it:

Oil / Natural gas / Kerosene / Heating oil / Used vehicle oil / Solvents / Pesticide or insecticide
other, describe _____

Describe any additional information about the release (amount, when it occurred, action taken to clean up, etc.): _____

Instructions for Occupants of Building Prior to Sampling Event

(to be followed starting at least 48 hours prior to and during the sampling event)

- Do not open windows, fireplace openings or vents.
- Do not keep doors open.
- Do not use air fresheners or odor eliminators.
- Do not smoke inside.
- Do not use wood stoves, fireplace or auxiliary heating equipment (e.g., kerosene heater).
- Do not use paints or varnishes.
- Do not use cleaning products (e.g., bathroom cleaners, furniture polish, appliance cleaners, all-purpose cleaners, floor cleaners).
- Do not use cosmetics, including hair spray, nail polish, nail polish remover, perfume, etc.
- Do not partake in indoor hobbies that use solvents.
- Do not apply pesticides.
- Do not store containers of gasoline, oil or petroleum-based or other solvents within the building or attached garage (except for fuel oil tanks).
- Do not operate or store automobiles in the building or an attached garage.

Restrictions start: _____

Sampling event starts: _____

Sampling and Restrictions end: _____

Please call _____ at _____ with any questions or concerns.