Draft Cleanup Action Plan
Troy Laundry Seattle Site

300 Boren Ave N, 399 Fairview Ave N, 1120 John Street, Seattle, Washington

Issued By:

Toxics Cleanup Program
Washington State Department of Ecology
Shoreline, Washington

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This document is an attachment (Exhibit B) to the Consent Decree for the Troy Laundry Seattle Site, available on the Department of Ecology's Troy Laundry Seattle cleanup site page at: https://apps.ecology.wa.gov/cleanupsearch/site/11690

Related Information

- Clean-up site ID: 11690
- Facility site ID: 19135499

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DEPARTMENT OF
ECOLOGY
State of Washington

Table of Contents

List of Figures, Tables, and Appendices

Figures

Tables

Appendices

Acronyms and Abbreviations

µg/L	micrograms per liter
AO	Agreed Order No. DE 8996
ARAR	applicable or relevant and appropriate requirement
bgs	below ground surface
cis-1,2-DCE	cis-1,2-dichloroethene
CLARC	Cleanup Levels and Risk Calculations
COC	contaminant of concern
CPOC	conditional point of compliance
CSM	conceptual site model
CVOC	chlorinated volatile organic compound
DCAP	draft Cleanup Action Plan
DRPH	diesel-range petroleum hydrocarbons
EC	environmental covenant
Ecology	Washington State Department of Ecology
EOS	edible oil substrate
EPA	U.S. Environmental Protection Agency
ERD	enhanced reductive dechlorination
Final FS	*Final Feasibility Study Report, 300 Boren Avenue North and 399 Fairview Avenue North, Seattle WA.* Prepared by SoundEarth Dated March 26, 2026
GRPH	gasoline-range petroleum hydrocarbons
HASP	Site-Specific Health and Safety Plan

IRA	interim remedial action
MNA	monitored natural attenuation
MTCA	Model Toxics Control Act
NAVD88	North American Vertical Datum of 1988
Onni Development	commercial building redevelopment with four levels of underground parking
ORPH	oil-range petroleum hydrocarbons
PAC	powdered activated carbon
PCE	tetrachloroethene
PPP	public participation plan
Property	Troy Laundry property located at 300 Boren Avenue North and 399 Fairview Avenue North in Seattle, WA
RAO	remedial action objective
RCW	Revised Code of Washington
RI	Remedial Investigation
RL	remediation level
ROW	right-of-way
Onni Property	Property located to the south of the Troy Laundry property at 1120 John Street in Seattle, across the Thomas Street right of-way
Site	Troy Laundry Seattle Site at 300 Boren Avenue North and 399 Fairview Avenue North, which encompasses the Property; portions of the rights-of-way to the north, south, and west of the Property; and the northern portion of the Onni property located to the south across the Thomas Street right-of-way where groundwater contaminated with tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, and/or vinyl chloride originating from the Property has come to be located
SoundEarth	SoundEarth Strategies, Inc.

SSI	statistically significant increase
TCE	trichloroethene
Touchstone	Touchstone SLU LLC and TB TS/RELP LLC
USC	United States Code
UST	underground storage tank
VC	vinyl chloride
WAC	Washington Administrative Code

1.0 Introduction

This document presents the draft Cleanup Action Plan (dCAP) for the Troy Laundry Seattle Site located in Seattle, Washington (Figure 1). The dCAP was prepared in accordance with the requirements of the Model Toxics Control Act, Chapter 70A.305 of the Revised Code of Washington (RCW), and its implementing regulations, Chapter 173-340 of the Washington Administrative Code (WAC) (collectively, MTCA).

1.1 General Facility Information and Site/Property Definitions

Site Name: Troy Laundry Seattle

Facility Site ID No.: 19135499 **Cleanup Site ID No.:** 11690

Property Address: 300 Boren Avenue North, 399 Fairview Avenue North, 1120 John Street in Seattle, Washington

Parcel Numbers: 986200525, 869200-000 (*198620-0480 and -0515)*

Potentially Liable Persons: Touchstone SLU LLC and TB TS/RELP LLC (collectively Touchstone)

The Troy Laundry Seattle Site (Site), as defined under MTCA, is where a hazardous substance, other than a consumer product in consumer use, has been deposited, stored, disposed of, placed, or otherwise come to be located. The Site includes two parcels where hazardous substances were released or have come to be located from historical commercial and industrial operations.

The Site is located at 300 Boren Avenue North, 399 Fairview Avenue North and 1120 John Street in Seattle, Washington. The Site encompasses the following:

- The Troy Laundry property is located at 300 Boren Avenue North, 399 Fairview Avenue North (Property). The location of the Property is shown on Figure 1.
- The Onni Property is located at 1120 John Street in Seattle, Washington.[1]
- Portions of the rights-of-way (ROWs) to the north, south, and west of the Property.

1.2 Purpose and Objective

This document is a requirement of MTCA. The purpose of the dCAP is to document the selected cleanup action for the Site and to specify the cleanup standards and other requirements the cleanup action must meet.

[1]As of spring 2025, the Onni Property is being redeveloped into a residential or residential/commercial building with four levels of underground parking. The development includes a full lot line to lot line excavation.

Specific MTCA requirements for CAPs are set forth in WAC 173-340-380(5). Consistent with these requirements, this dCAP provides the following:

- A general description of the cleanup action developed in accordance with WAC 173-340- 350 through 173-340-390;
- A summary of the rationale for selecting the cleanup action;
- Cleanup standards for each hazardous substance and for each medium of concern at the Troy Laundry Seattle Site;
- The schedule for implementation of the cleanup action plan and restoration time frame;
- Institutional controls required as part of the cleanup action;
- Applicable state and federal laws for the cleanup action;
- A preliminary determination by the department that the cleanup action will comply with WAC 173-340-360;

1.3 Preliminary Determination

The Washington State Department of Ecology (Ecology) has made a preliminary determination that the cleanup action described in this dCAP will comply with the requirements specified in WAC 173-340-360. Specifically, these requirements include a cleanup action that will be protective of human health and the environment, comply with applicable state and federal laws, comply with cleanup standards, prevent or minimize present and future releases and migration of hazardous substances in the environment, provide for compliance monitoring, use permanent solutions to the maximum extent practicable, provide for a reasonable restoration time frame, and consider public concerns and tribal rights and interests.

Remedial investigations (RI) were conducted at the Site between 2010 and 2019. The RI documented and delineated the nature and extent of releases of gasoline-, diesel-, and oil-range petroleum hydrocarbons; PCE; TCE; cis-1,2-DCE; and VC to soil and groundwater on and from the Property. The RI activities included advancing 59 borings and installing 33 groundwater monitoring wells, performing a vapor intrusion assessment, and conducting groundwater monitoring and sampling events. In addition, the RI Report confirmed through two indoor air sampling events that the vapor intrusion pathway is incomplete and indoor air is not a medium of concern for the Site.

An interim remedial action (IRA) was performed between 2014 and 2017 in conjunction with the redevelopment of the Property. The redevelopment required a lot line-to-lot line excavation that extended to 70 feet below street grade. The IRA included the removal of USTs containing solvents and petroleum hydrocarbons and the mass excavation of 97,000 tons of soil

contaminated with chlorinated volatile organic compounds (CVOCs). The IRA also treated contaminated groundwater using enhanced reductive dechlorination (ERD) technology.

SoundEarth installed a network of 125 injection wells on the Property and beneath the Boren Avenue North and Thomas Street ROWs. The ERD groundwater treatment included the injection of edible oil substrate in May and June 2015 and April and May 2016, followed by bioaugmentation in June 2017.

The three cleanup action alternatives that were developed and evaluated are as follows:

- Cleanup Action Alternative 1, Monitored Natural Attenuation (MNA) and Environmental Covenants (ECs)
- Cleanup Action Alternative 2, In Situ ERD and EC with MNA
- Cleanup Action Alternative 3, In Situ Powdered Activated Carbon Adsorption and EC with MNA

Based on the results of the Final FS, Cleanup Action Alternative 1 has been selected as the preferred and recommended remedial alternative because it is technically feasible, implementable, sustainable, protective of human health and the environment, and cost-effective. Cleanup Action Alternative 1 will include compliance groundwater monitoring, data analysis to confirm that the footprint of the CVOC groundwater plume remains stable or continues to decline over time, and the recording of ECs with institutional controls for both the Property and the Onni property to the south to ensure there is no direct contact with or ingestion of contaminated groundwater. Compliance with groundwater cleanup standards will be achieved when concentrations of CVOCs are below cleanup levels in groundwater samples collected from monitoring wells (MW04, MW07, MW13, MW26, MW27, MW28, MW29R, and MW35) for four consecutive groundwater monitoring and sampling events.

This DCAP was prepared in accordance with Agreed Order No. DE 8996 (AO) between Touchstone and Ecology and the requirements of Chapters 173-340-380, 173-340-400, and 173-340-410 of the Washington Administrative Code (WAC).

This DCAP includes the following sections:

- **Section 2.0, Conceptual Site Model.** This section discusses the components of the conceptual site model (CSM) developed for the Site, which includes confirmed and suspected source areas, affected environmental media, fate and transport mechanisms, contaminants of concern (COCs), and exposure pathways and potential receptors.
- **Section 3.0, Cleanup Standards and Technical Elements.** This section describes applicable or relevant and appropriate requirements (ARARs), cleanup levels, media of concern, and points of compliance.

- **Section 4.0, Cleanup Action Alternatives and Evaluation.** This section describes the remedial action objectives (RAOs), cleanup action alternatives, and process by which the alternatives were evaluated.
- **Section 5.0, Selected Cleanup Action.** This section describes the cleanup action objectives and the cleanup action components that will be implemented at the Site.
- **Section 6.0, Contingency Actions.** This section describes the contingency actions if future concentrations of chlorinated volatile organic compounds (CVOCs) in the groundwater exceed remediation levels (RLs) for the protection of indoor air.
- **Section 7.0, Restoration Time Frame.** This section describes the restoration time for the cleanup action for the Site.
- **Section 8.0, Compliance Monitoring.** This section describes the compliance monitoring that will be performed as part of the cleanup action for the Site.
- **Section 9.0, Documentation Requirements.** This section describes the documentation to be provided as part of the cleanup action and includes a discussion of document management and compliance reports.
- **Section 10.0 Regulatory Compliance.** This section describes the actions when groundwater cleanup levels have been achieved at the Site.
- **Section 11.0, References.** This section lists the references used to prepare this document.

1.4 Site Description

The Property is composed of one consolidated tax parcel (King County Parcel No. 869200-0000) that covers approximately 108,571 square feet (2.51 acres) of land. The Site is located on a topographically low-lying area within the downtown area of the City of Seattle. Elevations range from 68 feet (northwest corner of the Property) to 105 feet (southeast corner of the Property) relative to the North American Vertical Datum of 1988 (NAVD88), with a slope toward the northwest. Lake Union is located approximately 0.4 mile to the north of the Site, and Elliot Bay is located approximately 1.5 miles to the west (Figure 1).

The Troy Block development at the Property occupies a full city block bounded by Harrison Street to the north, Fairview Avenue North to the east, Thomas Street to the south, and Boren Avenue North to the west. The development includes two office towers and a five-level underground parking garage (levels P1 through P5) with 1,120 parking stalls. The North Tower consists of 13 stories with 418,999 square feet of rentable space, and the South Tower consists of 12 stories with 392,521 square feet of rentable space. Both towers are currently leased and occupied by Amazon. The development also includes approximately 1 acre of public open space between the two towers.

According to historical records, the Property historically operated as one of the Pacific Northwest's largest laundry and dry-cleaning facilities. At least 15 underground storage tanks (USTs) containing heating oil, fuel, and dry-cleaning solvents and several aboveground storage tanks containing propane, wash water, water-softening agents, dry-cleaning solvents, and heating oil were used on the Property throughout its operation. Figure 2 shows the historical layout of the Property, and Figure 3 shows the contemporary setting of the Property and surrounding area.

Groundwater elevation data shows that the primary groundwater flows to the southeast beneath the Property. The regional groundwater flow for the Property as evidenced by groundwater elevation data is to the east-southeast and is not anticipated to change in the absence of significant construction dewatering or other groundwater withdrawals from the regional aquifer proximal to the Property.

1.5 Previous Environmental Investigations and Remedial Actions

Remedial investigations (RI) were conducted at the Site between 2010 and 2019. The RI documented and delineated the nature and extent of releases of gasoline-, diesel-, and oil-range petroleum hydrocarbons (GRPH, DRPH, and ORPH, respectively); PCE; TCE; cis-1,2-DCE; and VC on and from the Property to soil and groundwater. The RI activities included advancing 59 borings, installing 33 groundwater monitoring wells, performing a vapor intrusion assessment, and conducting groundwater monitoring and sampling events. The locations of investigation points performed at the Site are shown on Figure 4, and cross sections showing the depth of explorations are shown on Figures 5 through 8.

SoundEarth conducted an interim remedial action (IRA) at the Site between 2014 and 2017 in conjunction with the redevelopment of the Property. The redevelopment required a lot line-to-lot line excavation that extended to 70 feet below street grade. The IRA included the removal of USTs containing solvents and petroleum hydrocarbons and the mass excavation of 97,000 tons of soil containing CVOCs. The mass excavation was performed in conjunction with the redevelopment of the Property. The IRA also included treating CVOC-contaminated groundwater using enhanced reductive dechlorination (ERD) technology. The ERD groundwater treatment included the injection of edible oil substrate (EOS) in May and June 2015 and April and May 2016, followed by bioaugmentation in June 2017.

The lowest level of the underground parking garage covers the entire subsurface area of the Property, and there are no areas that could provide a pathway for direct contact with or exposure to residual soil or groundwater contamination beneath the Property or in the adjacent ROWs.

1.6 Supplemental Site Investigations

Previous investigations and the IRAs conducted at the Site by SoundEarth and others were performed in consultation with Ecology and following the AO and are summarized in Sections 3.0 through 6.0 of the Final Remedial Investigation Report (SoundEarth 2020). Since approval of the RI Report in 2020, SoundEarth has conducted supplemental Site investigation activities at the Site that have included periodic groundwater monitoring and sampling events. The locations of soil borings and monitoring wells are shown on Figure 4 and illustrated in cross sections on Figures 5 through 8.

The extent of the PCE/TCE and cis-1,2-DCE/VC concentrations above cleanup levels as of the June 2024 and December 2024 semiannual groundwater monitoring and sampling events are shown on Figures 9 through 12. Analytical results for soil are presented in Table 1, groundwater elevations are summarized in Table 2, and analytical results for groundwater and indoor air are summarized in Tables 3 through 10. A comprehensive discussion of the groundwater monitoring and sampling events and results, including a statistical analysis to evaluate the stability of the contaminated groundwater plume, are presented in the 2024 Groundwater Monitoring Report (SoundEarth 2025a).

Vulnerable Populations and Overburdened Communities.

An evaluation of potential impacts to likely vulnerable populations and overburdened communities in the vicinity of the Troy Laundry Site was conducted in accordance with Implementation Memorandum No. 25: Identifying Likely Vulnerable Populations and Overburdened Communities under the Cleanup Regulations dated January 2024, Ecology (2024) (Implementation Memorandum No. 25). The complete evaluation is presented in the RI/FS; primary findings are summarized below.

The Troy Laundry Site appears likely to be in proximity to vulnerable populations and overburdened communities due primarily to the potential for environmental exposures (e.g., heavy vehicle traffic and proximity to major roadways), and less attributed to socioeconomic or demographic factors. Vulnerable populations and overburdened communities are not more susceptible to exposure to contaminated media associated with the Troy Laundry Site than the general population. Site-specific evaluation of the interim actions, redevelopment activities, and evaluation of potential human exposure pathways presented in the RI/FS confirm that the proposed final cleanup action will be protective of human health and the environment.

Climate Change Summary

The evaluation of climatological characteristics is presented in the RI/FS. In accordance with WAC 173-340-350(6)(f), an evaluation of current and projected local and regional climatological characteristics was conducted to determine whether these characteristics could affect the migration of hazardous substances or the resilience of cleanup action alternatives for the Troy

Laundry Site.

Based on the results of the evaluation and the location of the Troy Laundry Site in a highly developed area in Seattle, current and projected local and regional changes in climate are not anticipated to affect the migration of hazardous substances or the resilience of the cleanup action at the Site.

2.0 Conceptual Site Model

A CSM has been developed to identify confirmed and suspected source areas of COCs to the media of concern, potential migration pathways, potential receptors, and exposure pathways at the Site. The CSM summary is discussed below.

2.1 Confirmed and Suspected Source Areas

The results of the RI and IRAs conducted at the Site indicate that the CVOC and petroleum hydrocarbon impacts detected in soil and groundwater beneath the Property, in a portion of the south-adjacent Thomas Street ROW, in the west-adjacent Boren Avenue ROW, in the north-adjacent Harrison Street ROW, and on the northern portion of the Onni property are primarily the result of releases from the laundry and dry cleaning facility that operated on the Property from 1927 through 1985. Historical building plans indicate that the bulk of the dry-cleaning operations after the mid-1960s were conducted on the southwestern portion of the Property.

The highest concentrations of chlorinated solvents in soil were historically located near the center of the Property in the vicinity of the former loading dock, and the highest concentrations of GRPH as Stoddard solvent were observed to the south of the three closed-in-place USTs under the former Troy Building on the southwestern portion of the Property (Figure 2). The distribution of CVOCs in soil and groundwater on the Property and in groundwater in the ROWs and on the northern portion of the Onni property indicates that the primary sources of the releases were at the loading dock and USTs on the Property, although additional smaller releases may have contributed to shallow solvent contamination elsewhere on the Property.

2.2 Contaminants and Media of Concern

Based on the findings of the RI conducted for the Site, the COCs at the Site consist of PCE, TCE, cis-1,2-DCE, and VC in groundwater located beneath the Property, portions of the adjoining ROWs, and the northern portion of the Onni Site.

Previous investigations at the Site identified GRPH, DRPH, and ORPH as COCs. Petroleum hydrocarbons previously present in soil at the Site were removed during the 2014 to 2015 construction excavation (SoundEarth 2016), except for a small area of inaccessible petroleum-contaminated soil along the northern sidewall along Harrison Street (approximately 10 feet east to west at an approximate elevation of 32 feet NAVD88). GRPH, DRPH, and ORPH detected in recent groundwater samples are attributable to the presence of EOS and its polar breakdown products. This conclusion is supported by the detection of petroleum hydrocarbons in groundwater samples being flagged by the laboratory as having a chromatographic pattern that did not match the fuel standard used for quantification. Residual petroleum contamination at or outside the Property boundary is located in the vadose zone in areas that are fully capped and contained. Therefore, the petroleum hydrocarbon source has been removed or contained, and

petroleum hydrocarbons are no longer considered COCs for the medium of concern for the Site, which is groundwater. Any residual GRPH present in groundwater is attributable to residual EOS.

All soil on the Property identified as containing CVOCs at concentrations exceeding cleanup levels was removed during the mass excavation conducted as part of the IRA, except for a small area of inaccessible CVOC-contaminated soil along the western Property boundary along Boren Avenue North (approximately 100 feet north to south at approximate elevations between 80 and 20 feet NAVD88). Soil is not a medium of concern for the Site because CVOC-contaminated soil was removed by mass excavation during redevelopment, and residual contaminated soil was capped with the lowest level of the underground parking garage. Any residual CVOC soil contamination that may be present in the ROWs outside the boundaries of the Property is capped by hardscapes (e.g., buildings, concrete, asphalt pavement). Based on analytical results of sidewall soil samples and soil samples collected from soil borings advanced during the IRA, soil contamination in the ROWs, if present, would be encountered only at depths greater than 15 feet below ground surface (bgs). Under the Washington State Model Toxics Control Act (MTCA), 15 feet bgs is the depth of soil that could be excavated under a construction scenario. Therefore, there is no longer any risk of human exposure to soil via direct contact.

The results of SoundEarth's 2018 and 2019 vapor intrusion assessment demonstrated that concentrations of COCs were less than the applicable MTCA cleanup levels for air (SoundEarth 2018a,b, 2019a,b). The 2018 and 2019 vapor intrusion assessments collected 18 indoor air samples and five indoor air samples, respectively, from the parking garage levels. One sample was collected in the elevator shaft in 2019. Based on the results from the vapor intrusion assessments, the vapor intrusion pathway is considered incomplete, and soil vapor and indoor air are not media of concern for the Site.

2.3 Exposure Pathway Assessment

This section discusses the confirmed and potential human health and ecological exposure pathways at the Site with the goals of (1) identifying those pathways requiring remediation to reduce or eliminate unacceptable risks to human health or the environment and (2) applying the findings to the development of potentially feasible remedial technologies. Pathways associated with each medium of potential concern are described below.

2.4 Exposure Pathways: Soil

The IRA and subsequent redevelopment of the Property eliminated soil as a medium of concern at the Site. At the western and northern Property boundaries, one or more CVOCs were detected at concentrations slightly exceeding applicable soil cleanup levels. However, the mechanisms for exposure to COCs in the soil have been eliminated:

- **Direct contact pathway.** Soil with residual CVOC contamination on the Property is capped by concrete located on the lowest of the five levels of underground parking,

adjacent ROWs are capped with hardscapes (e.g., concrete and asphalt pavement). Therefore, the direct contact pathway is incomplete.

- **Inhalation pathway.** Residual CVOC concentrations in soil were mitigated by engineering controls, including a vapor barrier beneath the lowest level of the underground parking garage and a continuously operating HVAC system in the parking garage. The vapor intrusion assessment conducted at the Property confirmed that the inhalation pathway for soil is incomplete.
- **Soil to groundwater leaching pathway.** The soil to groundwater leaching pathway was eliminated by mass removal of the soil during redevelopment and the capping of the soil with the underground parking garage. The paved hardscapes in the ROWs have minimized the potential for infiltration of surface water into the soil underlying other portions of the Site. Therefore, the soil to groundwater leaching pathway is incomplete.

Soil samples collected from borings advanced in the ROWs adjacent to the Property either do not contain COCs at concentrations above applicable soil cleanup levels or were collected at depths greater than 15 feet bgs. Per WAC 173-340-740(6)(d), for soil cleanup levels based on human exposure via direct contact or other exposure pathways where contact with the soil is required to complete the pathway, the point of compliance shall be established in the soils throughout the Site from the ground surface to 15 feet below the ground surface.

2.5 Exposure Pathways: Groundwater

The IRA and subsequent redevelopment of the Property eliminated exposure to potentially contaminated shallow perched groundwater and deep groundwater in the primary regional water-bearing zone.

Perched groundwater on the Property was removed during the mass excavation of soil during redevelopment. Perched groundwater containing CVOCs has not been identified in any areas outside the Property boundaries.

The primary regional water-bearing zone at the Site contains one or more CVOCs at concentrations exceeding the cleanup levels. However, the mechanisms for exposure to CVOCs in groundwater at the Site have been eliminated:

- **Direct contact pathway.** The direct contact pathway for groundwater is not complete because groundwater containing CVOCs in the primary regional water-bearing zone occurs at depths of at least 60 to 80 feet bgs. Any direct contact with groundwater during groundwater sampling events will be mitigated using personal protective equipment. Institutional controls will prohibit any future contact with or exposure to groundwater at the Site.
- **Inhalation pathway.** The inhalation pathway at the Property is not complete because of the underground parking garage cap, the presence of a vapor barrier beneath the lowest

parking level, and a continuously operating HVAC system in the parking garage. The vapor intrusion assessment conducted at the Property confirmed that the inhalation pathway for groundwater is not complete.

The inhalation pathway in the ROW is not complete for roadway excavation workers because the CVOC concentrations detected in groundwater samples collected from the ROWs do not exceed the groundwater RLs for roadway excavation workers for the inhalation pathway. The groundwater RLs for CVOCs protective of roadway excavation workers are presented in Table 3.

The inhalation pathway at the Onni Site is not complete because concentrations of CVOCs in monitoring wells MW29R and MW35 are below the groundwater RLs for the protection of indoor air as of December 2024 for both commercial and residential exposure scenarios. The current development at the Onni Site further mitigates the potential for vapor intrusion, including a lot line to lot line excavation, a ground-bearing slab concrete, and a vapor barrier. When the development is complete a continuously operating HVAC system will operate in a multilevel underground parking garage.

- **Ingestion pathway.** The ingestion pathway for groundwater is not complete because groundwater at the Site is not a source of drinking water. Groundwater at the Site is not currently and is unlikely to become a source of drinking water, as outlined in Section 3.8, Regional Aquifer Determination, in the Final Feasibility Study Report (Final FS; SoundEarth 2025b). Environmental covenants (ECs) will be recorded on the Property and for the new development at the Onni property Site preventing any withdrawal, direct contact, or use of groundwater.

2.6 Exposure Pathway: Soil Vapor

In March 2018 and February 2019, SoundEarth conducted a soil vapor intrusion assessment and supplemental vapor intrusion assessment for indoor air in the Property building and for ambient outdoor air (SoundEarth 2018a,b and 2019a,b). The results of the indoor and outdoor air sampling demonstrated that COCs were in compliance with indoor air cleanup levels. In a letter dated July 8, 2019, Ecology confirmed that further assessment of indoor air quality at the Site is not required based on the results of the vapor intrusion assessments (Ecology 2019).

3.0 Cleanup Standards and Technical Elements

This section summarizes the cleanup standards and technical elements developed for the cleanup action at the Site.

3.1 Applicable or Relevant and Appropriate Requirements

Under WAC 173-340-350 and 173-340-710, ARARs include regulatory cleanup standards, standards of control, and other environmental requirements, criteria, or limitations established under municipal, state, or federal law that specifically address a contaminant, remedial action, location, or other circumstances at a site. Exhibit 3-1 summarizes the preliminary ARARs for the Site.

Exhibit 3-1: Preliminary ARARs for the Site

Preliminary ARAR	Citation or Source
MTCA Statute	RCW 70A.305
MTCA Cleanup Statute and Regulation	WAC 173-340
State Group A Public Water Supplies	WAC 246-290
Ecology, Toxics Cleanup Program (Guidance to Be Considered)	*Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action*, Review DRAFT, October 2009, Publication No. 09-09-047
State Environmental Policy Act	RCW 43.21C
State Uniform Environmental Covenants Act	RCW 64.70
King County Board of Health	KCC Title 12, Section 12.32.10 (A)
Federal Clean Water Act	33 USC 1251 et seq.
State Water Pollution Control Act	RCW 90.48
Comprehensive Environmental Response, Compensation, and Liability Act of 1980	42 USC 9601 et seq. 40 CFR 300
The Fish and Wildlife Coordination Act	16 USC 661-667e; the Act of March 10, 1934; Ch. 55; 48 Stat. 401
Endangered Species Act	16 USC 1531 et seq.; 50 CFR 17, 225, and 402
Native American Graves Protection and Repatriation Act	25 USC 3001 through 3013; 43 CFR 10; and Washington's Indian Graves and Records Law (RCW 27.44)
Archaeological Resources Protection Act	16 USC 470aa et seq.; 43 CFR 7
Washington Dangerous Waste Regulations	WAC 173-303
Solid Waste Management Act	WAC 173-304 and 173-351
Indian Graves and Records	RCW 27.53
Human Remains	RCW 68.50
Abandoned and Historic Cemeteries and Graves	RCW 68.60
Occupational Safety and Health Administration Regulations	29 CFR 1910 and 1926

Preliminary ARAR	Citation or Source
Washington Department of Labor and Industries Regulations	WAC 296
Water Quality Standards for Ground Water	WAC 173-200
Department of Transportation Hazardous Materials Regulations	40 CFR 100 through 185
Washington State Water Well Construction Act	WAC 173-160
City of Seattle regulations, codes, and standards	All applicable or relevant and appropriate regulations, codes, and standards

NOTES:

CFR = Code of Federal Regulations

KCC = King County Code

MTCA = Model Toxics Control Act

RCW = Revised Code of Washington

USC = United States Code

WAC = Washington Administrative Code

3.2 Groundwater Cleanup and Remediation Levels

The selected cleanup levels and RLs for the Site must comply with the MTCA cleanup regulations specified in WAC 173-340 and other applicable state and federal laws. Cleanup levels are based on the protection of human health and the environment from all applicable exposure pathways and receptors, considering the most beneficial use of groundwater in the regional aquifer beneath the Site. The groundwater RLs are based on the protection of the inhalation pathway for commercial workers at the Property, the Onni property Site, and roadway excavation workers in the ROWs.

The following pathways were considered for the establishment of groundwater cleanup levels and RLs at the Site:

- **Protection of drinking water.** The default assumption under MTCA is that the most beneficial use of groundwater is for human consumption. Groundwater in the regional aquifer beneath the Site is not currently and is unlikely to become a source of drinking water for the City of Seattle, as discussed in Section 3.8 of the Final FS. Because there is no ingestion pathway for groundwater beneath the Site, groundwater cleanup levels under WAC 173-340-720(3) and (4) for this exposure pathway are not applicable.
- **Protection of indoor air.** A vapor intrusion assessment was conducted at the Property in 2018 and 2019. Results of that assessment indicated that CVOCs were detected at concentrations below MTCA residential indoor air cleanup levels and indoor RLs for commercial workers in indoor air (SoundEarth 2018a,b and 2019a,b). In addition, CVOCs were detected at concentrations below the RLs in groundwater samples collected from the ROWs, which is protective of the inhalation pathway for roadway excavation workers in the ROWs. Based on a review of the indoor air

results, Ecology has confirmed that the analytical results demonstrated that the COCs comply with MTCA and that no further assessments are necessary (Ecology 2019). As of the fourth quarter of 2024, the concentrations of CVOCs in the groundwater at the Onni property Site are below the groundwater screening levels for the protection of indoor air for commercial and residential exposure scenarios.

- **Protection of surface water resources.** At the Site, the regional aquifer flows to the south and southeast before turning toward Elliott Bay, approximately south of Denny Way (SoundEarth 2017). The southern boundary of the CVOC groundwater plume was defined by former monitoring wells ONNI-MW-4 and ONNI-MW-5 (Figure 34 of the Final FS) and is currently defined by existing groundwater monitoring wells MW29R and MW35. Based on the current downgradient extent of the plume, which is located on the Onni property proximal to the Thomas Street ROW and the fact that Elliot Bay is located 1.5 miles from the Site, surface water resources are protected for human health (via the consumption of aquatic organisms) and ecological receptors.
- **Protection of sediment quality.** Given the stability of the CVOC plume at the Site and the Site's distance from Elliott Bay, CVOC-contaminated groundwater originating at the Site would not impact sediment quality. Also, CVOCs are not regulated under the Sediment Management Standards (WAC 173-204) due to chemical properties that prevent CVOCs from partitioning into sediments.

3.3 Potential Promulgated Standard For the Site

Because groundwater beneath the Site will not be used for domestic consumption and the overall footprint of the CVOC groundwater plume is stable, the following ARARs were used to identify COC concentrations that may serve as groundwater cleanup levels for the Site:

- Surface Water Cleanup Standards, MTCA: WAC 173-340-730(3)
- Washington State Surface Water Quality Standards: WAC Chapter 173-201A
- Washington State Group A Public Water Supplies: WAC Chapter 246-290
- MTCA Regulation: WAC 173-340-355
- MTCA Groundwater Cleanup Standards Regulation: WAC 173-340-720 (3)(4)
- Federal Clean Water Act: 33 U.S.C. § 1314 (FWPCA § 304)

3.4 Groundwater Cleanup and Remediation Levels

Because groundwater is the only medium of concern at the Site, groundwater cleanup levels and RLs have been established to demonstrate that COCs comply with MTCA cleanup standards. Groundwater cleanup levels will be applied to CVOCs comprising the COCs at a conditional point of compliance (CPOC) for the Site, as discussed in Section 4.5. Groundwater RLs will apply to

commercial workers at the Property and roadway excavation workers in the ROWs and are based on the protection of workers from potential exposure through the inhalation pathway.

Although groundwater in the regional aquifer beneath the Site is not currently, and is unlikely to become, a source of drinking water for the City of Seattle, as discussed in Section 3.8 of the Final FS, groundwater clean levels for the Site at the CPOC will be based on the default assumption that the most beneficial use of groundwater is for human consumption as discussed under Section 4.2. Groundwater cleanup levels and RLs for the Site are presented in Exhibit 3-2 and Exhibit 3-3, respectively.

Exhibit 3-2: Groundwater Cleanup Levels

Contaminant of Concern	**Cleanup Level** (µg/L)	**Regulations**
PCE	5	MTCA Method A, WAC 173-340-720 and table values in Ecology's Cleanup Levels and Risk Calculation (CLARC) database
TCE	5	
cis-1,2-DCE	16	MTCA Methods A and B, WAC 173-340-720 and table values in CLARC database
VC	0.2	

NOTES:
µg/L = micrograms per liter

Exhibit 3-3: Groundwater Remediation Levels

Contaminant of Concern	**Commercial Worker Groundwater RLs at the Property** (µg/L)	**Roadway Excavation Worker Groundwater RLs in the ROWs** (µg/L)	**Regulations**
PCE	120	760	Table values in CLARC database, Ecology's *Guidance for Evaluating Vapor Intrusion in Washington State: Investigation and Remedial Action* dated 2009, revised 2022 (Ecology 2009), and Ecology's South Lake Union Group Memorandum (Ecology 2022)
TCE	12	40	
cis-1,2-DCE	1,600	10,000	
VC	1.6	9.9	

NOTES:
µg/L = micrograms per liter

3.5 Point of Compliance

The point of compliance is the location where the cleanup levels that are set for a medium of concern following WAC 173-340 will be measured and cannot be exceeded. Once the cleanup levels have been attained at the points of compliance, the Site is in compliance and the impacts present beneath the Site, if any, will no longer be considered a threat to human health or the environment.

A CPOC is necessary for the Site because it has been demonstrated that it is not practicable to meet the cleanup levels throughout the Site in a reasonable restoration time frame, and/or it is not technically possible to design, construct, and implement a reliable and cost-effective remedy to clean up groundwater across the entire Site.

The conditional point of compliance for the Site shall not exceed property boundary, since the site is not abutting or near surface water, and is not in an area-wide groundwater contamination. The groundwater monitoring wells MW04, MW07, MW13, MW26, MW27, and MW28, located in the middle of the street and at the property boundary, are considered as conditional point of compliance monitoring wells. Monitoring well MW29R and MW35, located at the Onni property, are not CPOC monitoring wells. (Figure 13).

4.0 Cleanup Action Alternatives and Evaluation

This section summarizes the cleanup action alternatives and the process through which cleanup action alternatives were evaluated as part of the Final FS submitted to Ecology in March 2025 (SoundEarth 2025b).

4.1 Cleanup Action Alternatives

Three cleanup action alternatives were evaluated for the final cleanup action at the Site. A detailed discussion of each cleanup action alternative and its cost/benefit is presented in the Final FS. A summary of cleanup action alternatives is presented below.

4.1.1 Cleanup Action Alternative 1: Monitored Natural Attenuation and Environmental Covenants

Cleanup Action Alternative 1 relies on monitored natural attenuation (MNA) processes for the continued degradation of CVOCs at the Site to attain compliance with cleanup levels. Source control has been performed to the maximum extent practicable because the bulk of the CVOC-contaminated soil has been removed through mass soil excavation completed as part of the IRA and Property redevelopment. In addition, the implementation of ERD at the Site has enhanced the degradation of PCE and its degradation products.

Groundwater monitoring would be performed to ensure that natural attenuation processes are occurring and confirm that COC concentrations are below groundwater cleanup levels at the CPOC monitoring wells and below RLs for the Property.

Institutional controls would be implemented under this alternative, including the recording of ECs for the Property and the Onni property Site to ensure no direct contact with contaminated groundwater under alternative land use scenarios.

4.1.2 Cleanup Action Alternative 2: In Situ Enhanced Reductive Dechlorination and Environmental Covenant with Monitored Natural Attenuation

Cleanup Action Alternative 2 includes the injection of EOS to provide a substrate for the native microbial population (i.e., biostimulation) and to promote the bioremediation of CVOCs present in saturated zone soil and groundwater via the anaerobic reductive dechlorination pathway. The EOS solution would be delivered to existing or newly installed vertical injection wells in the Thomas Street ROW and existing vertical and angled injection wells on the southwestern portion of the Property and in the Boren Avenue North and Thomas Street intersection.

This cleanup action alternative would also include the injection of microbial consortium (i.e., for bioaugmentation) into the subsurface consisting of *Dehalococcoides* genus bacteria to promote complete reductive dechlorination to ethene/ethane, which would prevent cis-1,2-DCE and VC

stall or accumulation. Natural attenuation processes would be relied upon for continued degradation of CVOCs (i.e., predominately biological degradation of cis-1,2-DCE and VC under anaerobic or aerobic conditions) in groundwater beneath the Property and following active treatment in the Boren Avenue North and Thomas Street ROWs.

Institutional controls would be implemented under this alternative, including the recording of ECs for the Property and the Onni property Site to ensure no direct contact with contaminated groundwater under alternative land use scenarios.

4.1.3 Cleanup Action Alternative 3: In Situ Powdered Activated Carbon Adsorption and Environmental Covenant with Monitored Natural Attenuation

Cleanup Action Alternative 3 includes the injection of powdered activated carbon (PAC) to adsorb and immobilize CVOCs present in saturated zone soil and groundwater. This adsorption process reduces CVOC concentrations in groundwater through a mass transfer process. The PAC would be delivered to existing and newly installed vertical injection wells in the Thomas Street ROW and existing vertical and angled injection wells located on the southwestern portion of the Property and in the Boren Avenue North and Thomas Street intersection.

Natural attenuation processes would be relied upon for continued degradation of CVOCs (i.e., predominately biological degradation of cis-1,2-DCE and VC under anaerobic or aerobic conditions) in groundwater beneath the Property and following active treatment in the Boren Avenue North and Thomas Street ROWs.

Institutional controls would be implemented under this alternative, including the recording of ECs for the Property and the Onni Property to ensure no direct contact with contaminated groundwater under alternative land use scenarios.

4.2 Evaluation of Alternatives

The alternatives were evaluated according to the MTCA evaluation criteria (WAC 173-340-360[3][f]), which include the following:

- Protectiveness
- Permanence
- Effectiveness over the long term
- Management of short-term risks
- Technical and administrative implementability
- Consideration of public concern
- Cultural Resource Protection

- Vulnerable Resources Protection

A summary of the evaluation for each alternative using the MTCA screening criteria is presented in Table 11. Based on the analysis and ranking of cleanup action alternatives following MTCA, Cleanup Action Alternative 1 is the most feasible, practicable, implementable, and cost-effective remedy. Cleanup Action Alternative 1 is the recommended alternative for the Site because it achieves the RAOs, meets the requirements outlined in WAC 173-340-360 and WAC 173-340-370, and is favorable for the established evaluation and ranking criteria. Finally, Cleanup Action Alternative 1 exhibits the lowest cost-to-benefit ratio compared to the other cleanup action alternatives.

5.0 Selected Cleanup Action

Ecology selected Cleanup Action Alternative 1, MNA and ICs, as the preferred cleanup action for the Site. The components of Cleanup Action Alternative 1, including the compliance groundwater monitoring network, are shown on Figure 13. A total net present value cost of $1,272,000 was estimated for this alternative (Table 12). This estimate includes costs for the implementation of institutional controls and long-term compliance groundwater monitoring to demonstrate compliance with cleanup standards. A discussion of the contingency action is included in Section 7.0 below.

5.1 Cleanup Action Objectives

The cleanup action objectives under Cleanup Action Alternative 1 include the following:

- Achieve compliance with the groundwater cleanup levels at the CPOC monitoring wells and with RLs for the Property. This will be evaluated through groundwater monitoring.
- Prevent screening level exceedances for indoor air quality. This will be accomplished by implementing engineering and institutional controls at the Property and at the Onni Property.

5.2 Description of the Cleanup Action

The following sections outline the detailed components of the selected cleanup action.

5.2.1 Groundwater Monitoring

Touchstone will perform groundwater monitoring events semiannually for the first 2 years (2025 and 2026). If the plume under the Property, the ROWs, and Onni property is stable or decreasing based on statistical trend analyses, the frequency of monitoring may be reduced to annual (alternating between June [second quarter] and December [fourth quarter]) for the third, fourth, fifth, sixth, and seventh years. Long-term groundwater monitoring and statistical evaluation will be performed in consultation with Ecology.

Regulatory compliance with MTCA groundwater cleanup standards at the Site will be achieved when CVOCs are detected at concentrations below cleanup levels (Exhibit 3-2) in groundwater samples collected from the CPOCs wells (MW04, MW07, MW13, MW26, MW27, and MW28) for four consecutive groundwater monitoring events. At that time, Touchstone will consult with Ecology regarding the necessity for ongoing compliance groundwater monitoring and sampling as part of the periodic review process.

Groundwater compliance for protection of the inhalation pathway for commercial workers at the Property and the roadway excavation workers in the ROWs is achieved when CVOCs are

detected at concentrations below the proposed RLs in samples collected during groundwater monitoring events (Exhibit 3-3).

The compliance groundwater monitoring well network is shown on Figure 13 and includes the following 19 monitoring and injection wells:

- On the Property: MW18, MW19, MW21, MW22, MW23, MW24, MW25, IW04, IW50, and IW61
- Onni Property: MW29R and MW35
- Harrison Street ROW: MW26
- Boren Avenue North ROW: MW04, MW07, MW13, and MW27
- Thomas Street ROW: MW28
- Terry Avenue North: MW34

The groundwater samples will be collected using the low flow purge method according to the US Environmental Protection Agency's (EPA's) April 1996 guidance document (Puls and Barcelona 1996) and will be submitted for analysis of CVOCs, including PCE, TCE, cis-1,2-DCE, trans, 1,2-DCE, and VC, by EPA Method 8260D. Select groundwater samples will be analyzed for one or more of the following geochemical parameters:

- Sulfate and nitrate by EPA Method 300.0
- Total iron and manganese by EPA Method 200.8
- Ferrous iron by EPA Method SM3500-Fe B
- Methane by EPA Method RSK 175

The groundwater monitoring and sampling program is presented in Table 13.

5.2.2 Engineering Controls

Engineering controls are in place at the Property and the Harrison Street, Boren Avenue North, and Thomas Street ROWs. In addition, engineering controls have been established at the Onni property.

5.2.2.1 On the Property

On the Property, engineering controls include the concrete floor slab and foundation walls of the on-Property underground parking structure, a vapor barrier beneath the P5 level of the underground parking structure, and a continuously operating HVAC system in the parking garage. Continued implementation of engineering controls on the Property will prevent the direct contact, inhalation, and ingestion pathways and minimize the potential for infiltration of surface water into the underlying soil. The vapor intrusion assessment conducted at the Property confirmed that the inhalation pathway is not complete.

5.2.2.2 Harrison Street, Boren Avenue North, and Thomas Street ROWs

The direct contact/ingestion pathway for soil is incomplete because adjacent ROWs are capped with hardscapes (e.g., concrete and asphalt pavement). The asphalt- and concrete-paved surfaces in the ROWs also minimize the potential for surface water infiltration into the underlying soil.

5.2.2.3 Onni Property

As of spring 2025, the Onni property is being redeveloped into a residential or residential/commercial building with four levels of underground parking (Onni Development). The building will cover much of the property surface. The building design incorporates engineering controls, including installation of a vapor barrier beneath the entire footprint of the building foundation and a continuously operating HVAC system in the parking garage.

5.2.3 Institutional Control

Touchstone will implement institutional controls, including the recording of ECs against the Property and the Onni Development in accordance with WAC 173-340-440. At the Property and the Onni property, the EC would require compliance groundwater monitoring and periodic inspection and maintenance of the protective cap, as described in Sections 6.2.1 and 6.2.4, respectively. Periodic reviews will be performed to confirm the terms of the EC are satisfied. A draft EC will be prepared for Ecology's review and approval as part of finalizing the CAP.

5.2.3.1 Site Inspections and Maintenance

The concrete floor slab, vapor barrier, and foundation walls of the Troy Block development building and the exterior asphalt and concrete surface at the Property serve as a protective cap that prevents direct contact with soils and groundwater and vapor intrusion, and minimizes surface water infiltration.

As part of the institutional controls, Touchstone will perform site inspections annually during the winter months to evaluate the integrity of the building's concrete floor slab and foundation walls. The site inspections will be performed to evaluate for evidence of cracking, settlement, seepage, or any other potential damage or other conditions that may compromise the integrity of the building's concrete floor slab and foundation walls. Inspections and maintenance will be conducted following the Engineering Checklist for Site Inspections that will be provided by Ecology. The site inspections will initially be performed annually and re-evaluated after Ecology's 5-year review period.

5.2.5 Waste Profiling

Groundwater analytical test results will be used to update an existing waste profile (F002-listed dangerous waste) for acceptance of CVOC-impacted groundwater at a licensed disposal facility.

5.2.6 Monitoring and Injection Well Decommissioning

When Ecology determines that groundwater compliance is attained, Touchstone may decommission the monitoring and injection wells in accordance with the Ecology Water Well Construction Act of 1971, RCW 18.104, WAC 173-160-460, and WAC 173-160-381. The wells will be decommissioned in place using bentonite clay.

6.0 Contingency Actions

The projected restoration time for the Site based on the preferred remedial action (natural attenuation remedy with ECs) is 30 years. In this time frame, the CVOC concentrations in the groundwater at the Site are anticipated to reach compliance with groundwater cleanup levels at the CPOC wells.

On the Property, compliance will be achieved when CVOC concentrations in the groundwater are less than RLs for the protection of indoor air for a commercial exposure scenario. On the Onni Property, compliance will be achieved when CVOC concentrations are less than groundwater cleanup levels.

CVOC concentrations in the groundwater are expected to fluctuate and decrease over time due to a variety of factors, including: (1) a potential ongoing unresolved source of TCE in the groundwater in areas upgradient of the Boren Avenue ROW, (2) sampling and analytical variability, (3) seasonal fluctuations in the groundwater elevations, and (4) desorption of CVOCs from soil to the groundwater where it can degrade in the dissolved phase.

Touchstone is prepared to implement contingency actions if concentrations of CVOCs in the groundwater indicate there is potential for vapor intrusion of CVOCs at the Troy Property and Seattle Time Property (Onni Development). These contingency actions include mitigation measures, if deemed necessary and appropriate, to protect indoor air quality. The potential contingency actions and their triggers are described below.

6.1 Troy Property

The chemistry of the groundwater beneath the Property is expected to change over time from anaerobic to aerobic due to the continuing decline of anthropogenic carbon substrate injected in 2015 to 2016 to the groundwater. Under aerobic conditions, VC in the groundwater will mineralize to nontoxic end products.

However, since VC concentrations are increasing with time and currently exceed the commercial groundwater RL (Exhibit 3-3) for the protection of indoor air, a contingency plan will be implemented if there is a statistically significant increase (SSI) in the VC concentrations in the groundwater. To be declared an SSI, the change in VC concentrations must be significant after accounting for anticipated variability in the sample data due to the factors outlined previously.

To determine if an SSI has occurred for VC results, Touchstone will follow guidance presented in EPA's *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities* (EPA 2009), and perform analysis for SSI testing using ProUCL version 5.2.00. The SSI test will assess variability over time in groundwater beneath the Property. The results from the SSI test will be more

representative of the overall stability of the plume than changes in VC concentrations at individual wells and will, therefore, be the trigger for any contingent actions.

Analytical results at groundwater monitoring wells with VC concentrations exceeding the groundwater RL or showing an increasing statistical trend as of June 2024 will act as the baseline to determine if SSI has occurred in the future. Baseline results will be compared to groundwater analytical results for samples collected after June 2024. As with the baseline results, concentrations of VC that exceed the groundwater RL or show an increasing statistical trend at monitoring wells at the Property will be used to determine if SSI has occurred. No SSI will have occurred if the mean of the VC baseline is greater than or equal to the future VC sample results at the 95 percent level of significance (baseline VC mean >= future VC result). An SSI will occur if the mean of the baseline is less than the future VC sample results at the 95 percent level of significance (baseline VC mean < future VC result) over two consecutive groundwater sample events. If an SSI is verified, Touchstone will implement a contingency action(s) as described below.

The first stage of the contingency action will include two semiannual indoor air sampling events at the Property. Touchstone will perform indoor air sampling following procedures presented in SoundEarth's Vapor Intrusion Assessment Work Plan, dated January 25, 2018, and SoundEarth's Supplemental Vapor Intrusion Assessment Work Plan, dated February 12, 2019 (SoundEarth 2018a, 2019a).

If results from the two indoor air sampling events indicate VC concentrations are below indoor air cleanup levels for protection of commercial workers, no mitigation measures are required.

If results from the two indoor air sampling events indicate VC concentrations exceed indoor air cleanup standards, Touchstone will confer with Ecology to determine if a second stage contingency action must be implemented to alleviate potential risk to human health. If Ecology determines a second stage contingency action must be implemented, it may require Touchstone to implement any of the following mitigation measures:

- Modifying or upgrading the parking garage ventilation system.
- Installing and maintaining a sub-slab depressurization system (e.g., extracting soil gas from select existing injection wells).
- Implementing in situ groundwater remediation, such as: (a) carbon substrate addition and bioaugmentation (i.e., anaerobic reductive dechlorination), or (b) oxygen enhancement of aerobic oxidation.

At 6 and 12 months after implementation of a mitigation measure, Touchstone will perform two indoor air sampling events to confirm the efficacy of mitigation measures on indoor air quality. If the results of these air sampling events demonstrate that VC concentrations are below

screening levels, no further mitigation will be required if indoor air results are below screening levels. If exceedances persist, Touchstone will propose additional mitigation measures will be proposed for Ecology review and approval and, after Ecology approval, Touchstone will implement additional mitigation measure(s).

6.2 Onni Property

A trend analysis performed at the end of the fourth quarter of 2024, which combined groundwater results for MW29 and MW29R (a total of 10 sampling events) on the Onni Property, showed no statistically determinable trend in the concentration of PCE. As of the fourth quarter of 2024, concentrations of TCE, cis-1,2-DCE and VC did not exceed groundwater cleanup levels presented in Exhibit 3-2.

Currently, in MW29R, the PCE concentration is less than the groundwater screening level (25 µg/L) for the protection of indoor air for a residential exposure scenario and also less than the groundwater RL for the protection of indoor air for a commercial exposure scenario (120 ug/L), but exceeds the groundwater cleanup level (5 µg/L) and out of compliance in meeting MTCA cleanup level.

If monitoring well MW29R and MW35 do not meet the groundwater cleanup levels presented in Exhibit 3-2 before 2035, Touchstone will propose for Ecology review and approval groundwater treatment options, such as in-situ bioremediation. If Ecology approves of a groundwater treatment option, Touchstone will implement Ecology's chosen option.

After the Onni Development is completed, Ecology will require Touchstone to conduct or arrange for the conducting of 2 years of semiannual indoor air monitoring on the Onni property portion of the Site. If 2 years of indoor air sampling demonstrate that concentrations of CVOCs in indoor air are below the residential indoor air cleanup levels shown in Exhibit 6-1, no further additional indoor air monitoring will be performed. However, concentrations of CVOCs in the indoor air exceed cleanup levels presented in Exhibit 6.1, Touchstone will implement a contingency action to mitigate the potential impacts to indoor air quality in the parking garage at the Onni Development.

Exhibit 6-1: Indoor Air Cleanup Levels — Onni Development

Contaminant of Concern	Unrestricted Use Indoor Air Cleanup Level (µg/m^3)	Regulations
PCE	9.62	Table values in CLARC database 2024
TCE	0.334	
cis-1,2-DCE	18.3	
VC	0.284	

If a contingency action is implemented, Touchstone will perform two semiannual indoor air sampling events at the Onni property based upon a work plan to be approved by Ecology.

- If results from the two indoor air sampling events establish that concentrations of COCs are below residential indoor air cleanup levels, no mitigation measures are required.
- If results from two semiannual events establish that concentrations of COCs exceed residential indoor air cleanup levels, then Touchstone will implement vapor mitigation measures at the Onni property portion of the Site. Ecology may require Touchstone to implement any of the measures described for the Property (*see* Section 6.1) after Ecology review and approval.

At 6 and 12 months after the implementation of the mitigation measures, Touchstone will perform two indoor air sampling events to confirm the efficacy of mitigation measures on indoor air quality. No further mitigation will be required if indoor air results are below the residential indoor air cleanup levels. If exceedances persist, Touchstone will propose additional mitigation measures for Ecology review and approval. After Ecology approval, Touchstone will implement those additional mitigation measures.

6.3 Rights-Of-Way

CVOC concentrations in groundwater within the ROWs are below Roadway Excavation Groundwater RLs that are protective of the inhalation pathway for excavation workers. This compliant condition has been present in the groundwater beneath the ROWs for several years.

Given the decrease in CVOC concentrations in the groundwater in the ROWs demonstrated over time and the absence of current risk to excavation workers, no contingency action plan is needed for the ROWs. The City of Seattle, through the Seattle Department of Transportation, will receive a notice letter regarding the presence of groundwater contamination beneath the ROWs and the potential of vapor exposure during roadway excavation as part of the process of finalizing ECs for the Property and for the Onni Property.

7.0 Restoration Time Frame

The selected Cleanup Action Alternative relies on MNA processes for continued degradation of CVOCs at the Site to attain compliance with cleanup levels. The restoration time frame to achieve cleanup levels and RLs at the Site is estimated to be 30 years. The restoration time is primarily affected by the rate of decay of VC in the groundwater on the Property. The current redox condition of the groundwater beneath the Property is anaerobic resulting from prior electron donor injections in 2015 and 2016. However, given the elapsed time since injection, the aquifer redox is no longer highly reducing as is conducive to degradation of VC. VC can also be degraded under aerobic conditions and the rate of VC decay will begin to accelerate when naturally aerobic conditions are reestablished in Property groundwater, which could take several decades.

7.1 Schedule for Implementation

Compliance groundwater monitoring and sampling will be performed as outlined in Section 6.2.1. Draft ECs will be prepared for Ecology's review and approval as part of finalizing the CAP.

8.0 Compliance Monitoring

Compliance monitoring will be performed in accordance with the requirements of WAC 173-340-410 and will address protection, performance, and confirmation monitoring. The compliance monitoring requirements are presented briefly in the sections below.

Three types of compliance monitoring are identified for remedial actions performed under MTCA: protection, performance, and confirmation monitoring.

- **Protection Monitoring.** Evaluate whether human health and the environment are adequately protected during construction and the operation and maintenance period of a cleanup action.
- **Performance Monitoring.** Document that the cleanup action has attained cleanup standards. Determine if the remedy is achieving its goals, identify potential problems or challenges with the cleanup action, and inform decisions about modifying or discontinuing the remediation.
- **Confirmation Monitoring.** Evaluate the long-term effectiveness of the cleanup action once cleanup standards or other performance standards have been attained, demonstrate successful remediation and compliance, support decisions to terminate further remedial action, and document the effectiveness of the completed cleanup action.

Additional details regarding procedures for sample collection, handling, and quality assurance are included in the Sampling and Analysis Plan (SAP)/Quality Assurance Project Plan and the Site-Specific Health and Safety Plan (HASP) attached to this DCAP as Appendices A and B, respectively.

8.1 Protection Monitoring

A HASP has been prepared for the cleanup action that meets the minimum requirements for such a plan identified in federal regulations (29 CFR 1910.120 and 1926) and state regulations (WAC Chapter 296-843). The HASP identifies known physical, chemical, and biological hazards; hazard monitoring protocols; and administrative and engineering controls required to mitigate the identified hazards (Appendix B).

8.2 Groundwater Performance Monitoring

Touchstone will perform groundwater monitoring and sampling at monitoring and injection wells as described in Section 5.2.1 of this Cleanup Action Plan. Groundwater performance monitoring and sampling will be performed semiannually, alternating between June (second quarter event) and December (fourth quarter event). Groundwater monitoring and sampling

will be discontinued at a given monitoring or injection well when concentrations of CVOCs are below cleanup levels for four consecutive groundwater monitoring and sampling events.

8.3 Groundwater Confirmation Monitoring

After groundwater performance monitoring is completed, Touchstone will perform four semi-annual groundwater confirmation monitoring events alternating between June (second quarter event) and December (fourth quarter event). Groundwater monitoring and sampling will be performed at monitoring and injection wells as described in Section 5.2.1 of this Cleanup Action Plan unless groundwater monitoring or injection wells were removed from the monitoring well network during performance groundwater sampling.

9.0 Documentation Requirements

Documentation of the cleanup action is necessary to meet MTCA requirements. Touchstone will submit the applicable and relevant documentation generated for the cleanup action to Ecology for review and approval.

9.1 Documentation Management

An established document control system to be implemented during the cleanup action includes file retention of the following elements, as appropriate: field report forms, sample summary forms, groundwater purge and sample forms, sample chain-of-custody forms, waste inventory documentation, waste management labels, and sample labels. Touchstone will maintain copies of disposal manifests for the waste generated during the cleanup action and will submit these copies with project documentation at Ecology's request.

9.2 Waste Disposal Tracking

Specific documentation requirements will be met for transportation and disposal of the contaminated groundwater generated during groundwater monitoring and sampling activities to ensure compliance with state and federal regulations. The waste disposal tracking documentation including analytical data, waste profiles, waste manifests, and bills of lading, will be retained in project files.

9.3 Compliance Reporting

Touchstone will prepare an annual groundwater monitoring report each year and submit the report to Ecology. The report will summarize the groundwater monitoring and sampling activities for the year. At a minimum, the annual groundwater monitoring report will include the following:

- A summary of groundwater monitoring and sampling activities.
- A figure depicting the location of the compliance groundwater monitoring wells and CVOC analytical results.
- A groundwater elevation contour map.
- Summary tables presenting groundwater elevations and analytical results.
- A statistically significant test for the Property VC plume.
- Laboratory analytical reports and documentation of waste disposal tracking for water generated.

- Conclusions pertaining to the cleanup action following the establishment of engineering and institutional controls and four consecutive events of compliant groundwater monitoring.

All groundwater sampling data will be uploaded to Ecology's Environmental Information Management system.

10.0 Regulatory Compliance

When confirmation groundwater monitoring demonstrates that groundwater cleanup levels have been achieved at the CPOC and the concentrations of CVOCs are less than the RLs at the Property groundwater monitoring and injection wells, and vapor intrusion studies have demonstrated the absence of an inhalation exposure pathway at the Site, Touchstone may request a written Certificate of Completion from Ecology that the requirements of the CAP have been satisfactorily completed. Upon Touchstone's receipt of written notification, Touchstone may then request to have the Site removed from the Contaminated Sites List, according to WAC 173-340-330(7).

11.0 References

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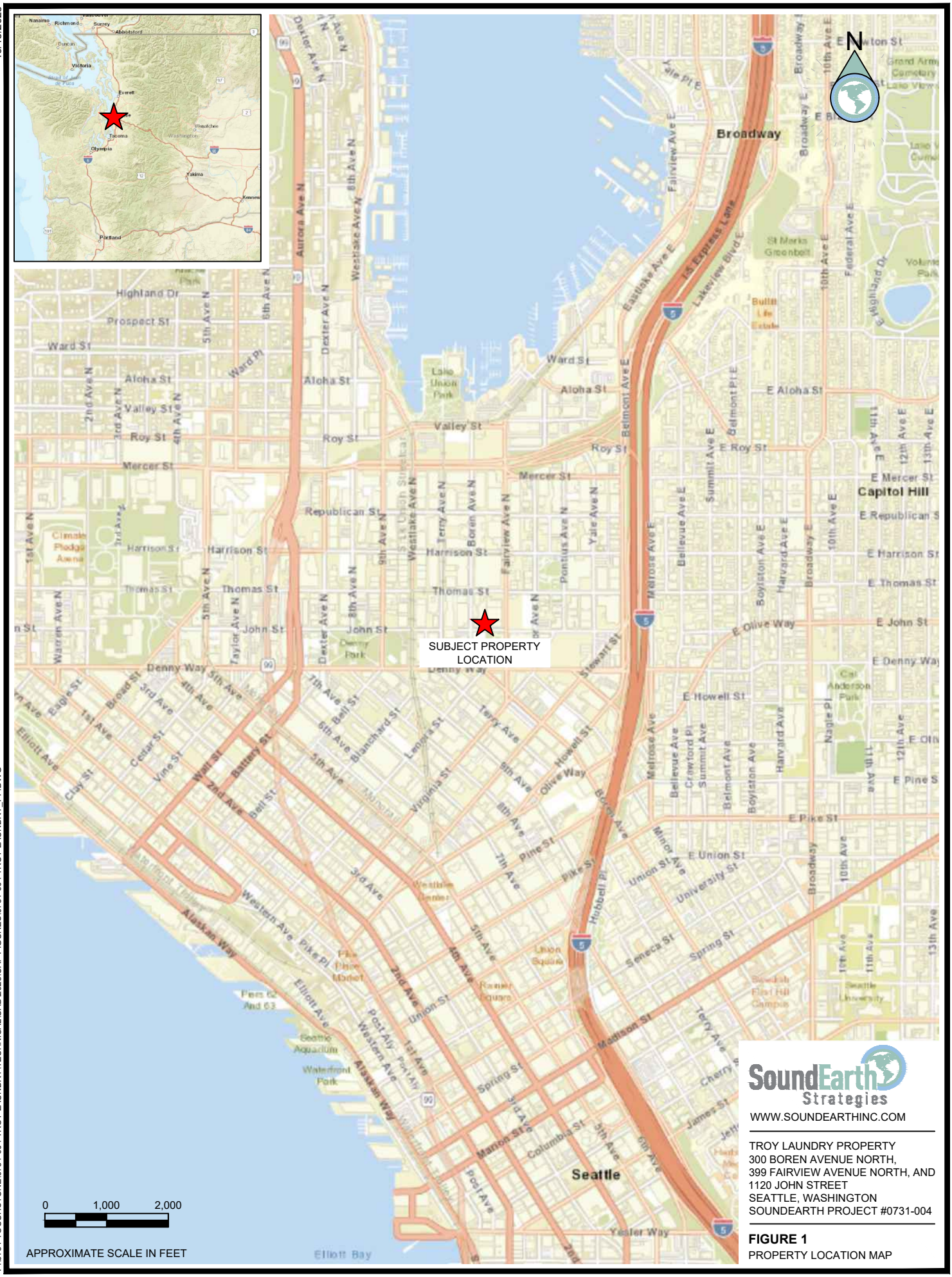
Figures



SoundEarth Strategies
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TROY LAUNDRY PROPERTY
300 BOREN AVENUE NORTH,
399 FAIRVIEW AVENUE NORTH, AND
1120 JOHN STREET
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #0731-004

FIGURE 1
PROPERTY LOCATION MAP

10/15/2025

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HARRISON STREET

AMAZON HEADQUARTERS BUILDING

DAVID SMITH BUILDING (1925)

MOKAS BUILDING (1960)

1100s (ODDS)

300s (EVENS)

300s (ODDS)

BOREN AVENUE NORTH

FAIRVIEW AVENUE NORTH

THOMAS STREET

TROY BUILDING (1926)

INDUSTRIAL LAUNDRY (1946)

FUR VAULT (1948)

GARAGE ADDITION (1964)

FORMER VAULT ROOM

FORMER CLEANING

FORMER SALON

FORMER REPAIRING

FORMER FINISHING AREA

FORMER TUMBLING AREA

FORMER DRY CLEAN AREA

(EXPLOSION PROOF AREAS)

BOILER ROOM

VAULTS

VAULT

VAULT

LOADING DOCK

RAMP

SHED

300-GALLON UST

GPR ANOMALY

POSSIBLE VENT LINE

GPR ANOMALY

APPROXIMATE LOCATION OF FORMER 10,000-GALLON PROPANE TANK

FORMER 8,000-GALLON GASOLINE UST

APPROXIMATE LOCATION OF TWO 12,000-GALLON USTs AND ONE 1,000-GALLON UST

FORMER OIL TANK

FORMER PUMP ISLAND

VENT LINES

FORMER TANK

SUMP

2,000-GALLON GASOLINE USTS

FORMER OIL TANK

FORMER ASTs

BRINE PIT

VENT/FILL LINES

TRENCH

FORMER TRANSFORMER

FORMER BOILERS

VENT

FORMER PRESSURIZED WATER TANK

8,000-GALLON SOLVENT UST

2" FLOOR DRAIN

CLEAN OUT

TRANSFORMER VAULT

ASTs

FORMER BOILER

DECOMMISSIONED WATER SUPPLY WELL

FORMER WATER PIT

FORMER AIR COMPRESSOR

HOT WATER BOILER

3,000-GALLON (DUMP TANK)

VIC. SOLVENT SAVER

TRENCH

PUMP

1,000-GALLON (CIRCULATING)

350-GALLON (STA DRI TANK)

FORMER 1,000-GALLON SOLVENT STORAGE TANKS

6"-DEEP SUMP

FLOOR DRAIN

FLOOR DRAIN

2,000-GALLON UST AND FORMER FUEL-DISPENSING PUMP ISLAND

BUILDING 1
DAVID SMITH ANTIQUES (1925)

BUILDING 3
MOKAS CAFE AND COFFEE BAR (1960)

FUR VAULT (1947/1948)

1943 - 1947 STORAGE

1966 ADDITION

INDUSTRIAL LAUNDRY (1946)

APPROXIMATE LOCATION OF FORMER BUILDING

1964 ADDITION

1943 ADDITION

BUILDING 2
TROY LAUNDRY (1926/1927)

TROY LAUNDRY PROPERTY CONSTRUCTION SEQUENCE

0 50 100

LEGEND

	PROPERTY BOUNDARY
	PARCEL BOUNDARY
	VAULT ACCESS
	PROPERTY FEATURES
	FORMER PROPERTY FEATURES
	SOUTH LAKE UNION STREETCAR LINE
UST	UNDERGROUND STORAGE TANK
AST	ABOVEGROUND STORAGE TANK
GPR	GROUND-PENETRATING RADAR
RED	SOLVENT SOURCE AREAS

N

0 25 50

APPROXIMATE SCALE IN FEET

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300 BOREN AVENUE NORTH,
399 FAIRVIEW AVENUE NORTH, AND
1120 JOHN STREET
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SOUNDEARTH PROJECT #0731-004

FIGURE 2
HISTORICAL PROPERTY PLAN

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TERRY AVENUE NORTH

OFFICE BUILDING
PARCEL: 1983200270

RADIUS APARTMENTS
400 BOREN AVENUE
NORTH
PARCEL: 1983200635

MARLOWE
APARTMENTS
PARCEL:
1983200626

MARLOWE
APARTMENTS
PARCEL:
1983200625

OFFICE BUILDING
400 FAIRVIEW
AVENUE NORTH
PARCEL: 2467400120

HARRISON STREET

OFFICE BUILDING
301 BOREN AVENUE
NORTH
PARCEL: 1986200410

OFFICE BUILDING
345 BOREN AVENUE
NORTH
PARCEL: 1986200418

OFFICE BUILDING
333 BOREN AVENUE
NORTH
PARCEL: 1986200420

BOREN AVENUE NORTH

FORMER TROY LAUNDRY
300 BOREN AVENUE NORTH
PARCEL: 8692000000

OFFICE BUILDING
330 FAIRVIEW
AVENUE NORTH
PARCEL: 2467400065

VACANT
PARCEL: 2467400073

SERVICE BUILDING
318 FAIRVIEW AVENUE
NORTH
PARCEL: 2467400080

RETAIL STORE
306 FAIRVIEW
AVENUE NORTH
PARCEL: 2467400085

RETAIL/OFFICE
300 FAIRVIEW
AVENUE NORTH
PARCEL: 2467400090

MINOR AVENUE NORTH

THOMAS STREET

RESTAURANT
234 FAIRVIEW AVENUE NORTH
PARCEL: 2467400005

OFFICE BUILDING
201 BOREN AVENUE NORTH
PARCEL: 1986200350

SEATTLE TIMES SITE
PARCEL: 1986200525

FAIRVIEW AVENUE NORTH

N

0 50 100

APPROXIMATE SCALE IN FEET

LEGEND

PROPERTY BOUNDARY

PARCEL BOUNDARY

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FIGURE 3
PROPERTY AND SURROUNDING
AREA MAP

P:\0731 TOUCHSTONE\0731-004 TROY LAUNDRY\TECHNICAL\CAD\2025\CAP FIGURES\0731-004_2025_CAP_PP.DWG

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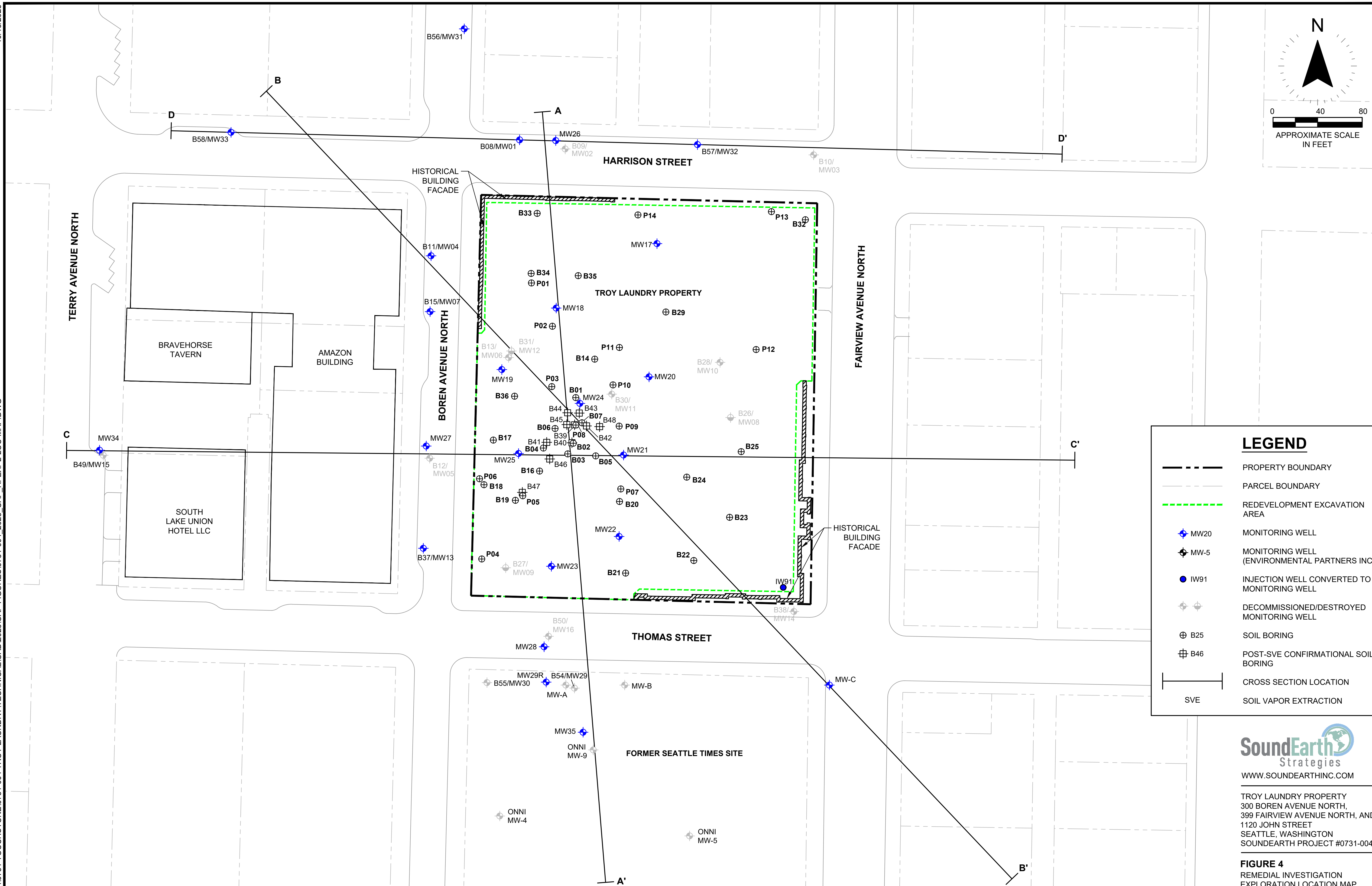
N
0
40
80
APPROXIMATE SCALE IN FEET
HARRISON STREET
THOMAS STREET
TERRY AVENUE NORTH
BOREN AVENUE NORTH
FAIRVIEW AVENUE NORTH
TROY LAUNDRY PROPERTY
FORMER SEATTLE TIMES SITE
BRAVEHORSE TAVERN
AMAZON BUILDING
SOUTH LAKE UNION HOTEL LLC
HISTORICAL BUILDING FACADE
HISTORICAL BUILDING FACADE
A
A'
B
B'
C
C'
D
D'
B56/MW31
B58/MW33
B08/MW01
MW26
B09/MW02
B57/MW32
B10/MW03
B11/MW04
B15/MW07
B13/MW06
B31/MW12
MW19
B36
MW34
B49/MW15
MW27
B12/MW05
B37/MW13
B33
P14
P13
B32
MW17
B34
P01
B35
MW18
B29
P02
P11
P12
B14
B28/MW10
P03
MW20
P10
B01
MW24
B30/MW11
B44
B43
B45
B07
B48
B26/MW08
B06
P09
B39
P08
B42
B17
B41
B40
B02
B04
MW25
MW21
B25
B46
B03
B05
B16
P06
B18
B47
P07
B24
B19
P05
B20
B23
MW22
P04
B27/MW09
MW23
B22
B21
IW91
B38/MW14
B50/MW16
MW28
MW29R
B55/MW30
B54/MW29
MW-A
MW-B
MW-C
MW35
ONNI MW-9
ONNI MW-4
ONNI MW-5
LEGEND
PROPERTY BOUNDARY
PARCEL BOUNDARY
REDEVELOPMENT EXCAVATION AREA
MW20 MONITORING WELL
MW-5 MONITORING WELL (ENVIRONMENTAL PARTNERS INC)
IW91 INJECTION WELL CONVERTED TO MONITORING WELL
DECOMMISSIONED/DESTROYED MONITORING WELL
B25 SOIL BORING
B46 POST-SVE CONFIRMATIONAL SOIL BORING
CROSS SECTION LOCATION
SVE SOIL VAPOR EXTRACTION
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FIGURE 4
REMEDIAL INVESTIGATION
EXPLORATION LOCATION MAP

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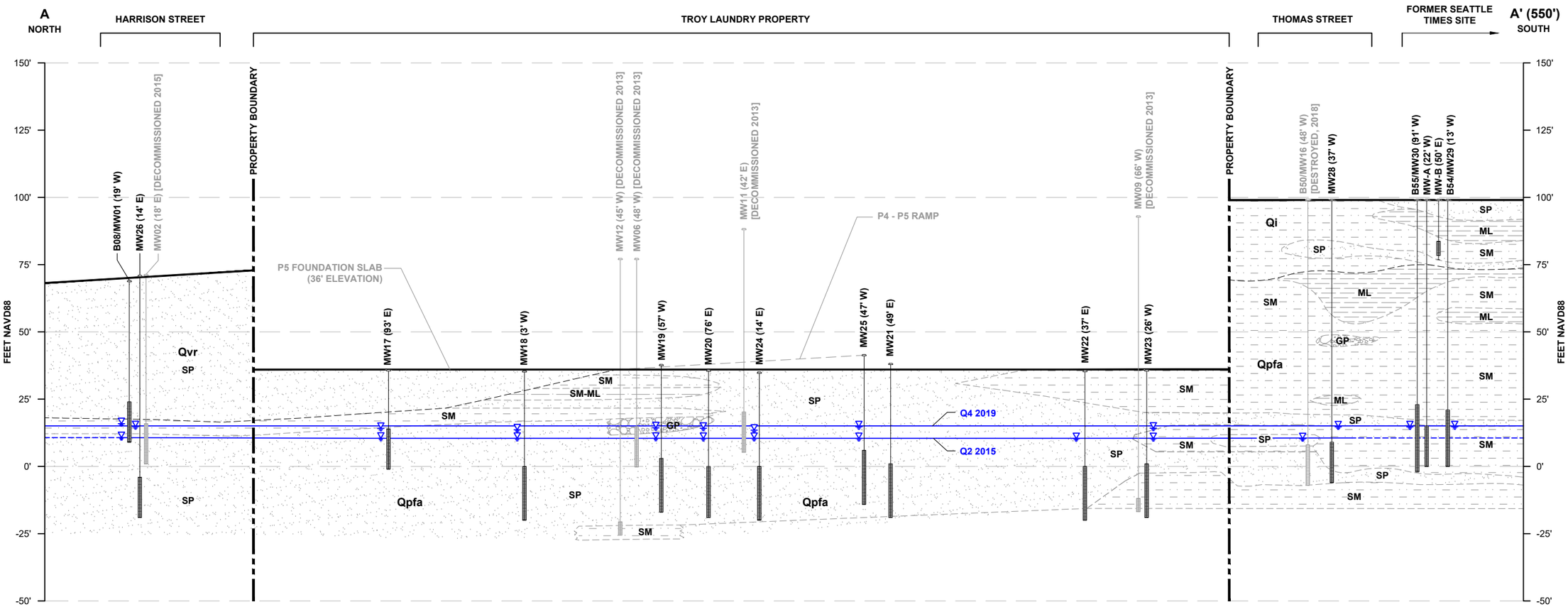


LEGEND

GROUNDWATER LEVEL

SP
POORLY GRADED SAND

SM
SILTY SAND

ML
SILT

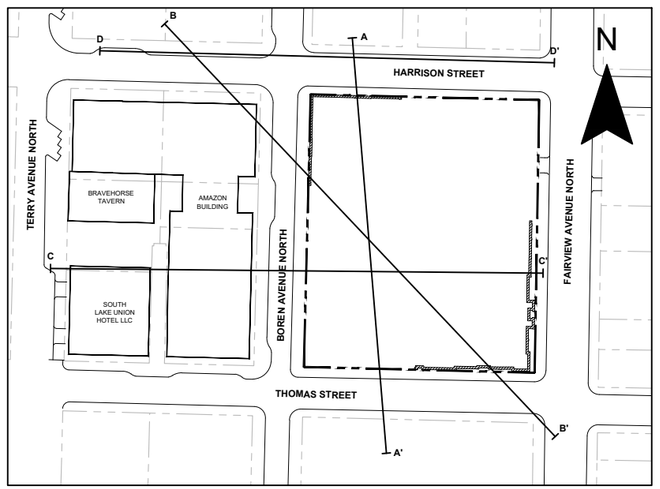
SM-ML
SILTY SAND AND SILT

GP
POORLY GRADED GRAVEL

Qvr	VASHON RECESSIONAL OUTWASH DEPOSITS
Qi	ICE-CONTACT DEPOSITS
Qpfa	PRE-FRASER NONGLACIAL DEPOSITS
NAVD88	NORTH AMERICAN VERTICAL DATUM OF 1988

NOTE:

SOIL TYPES BASED ON UNIFIED SOIL CLASSIFICATION SYSTEM VISUAL ASSESSMENT



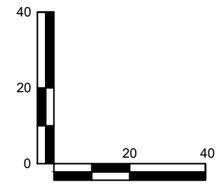


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FIGURE 5
CROSS SECTION A-A'

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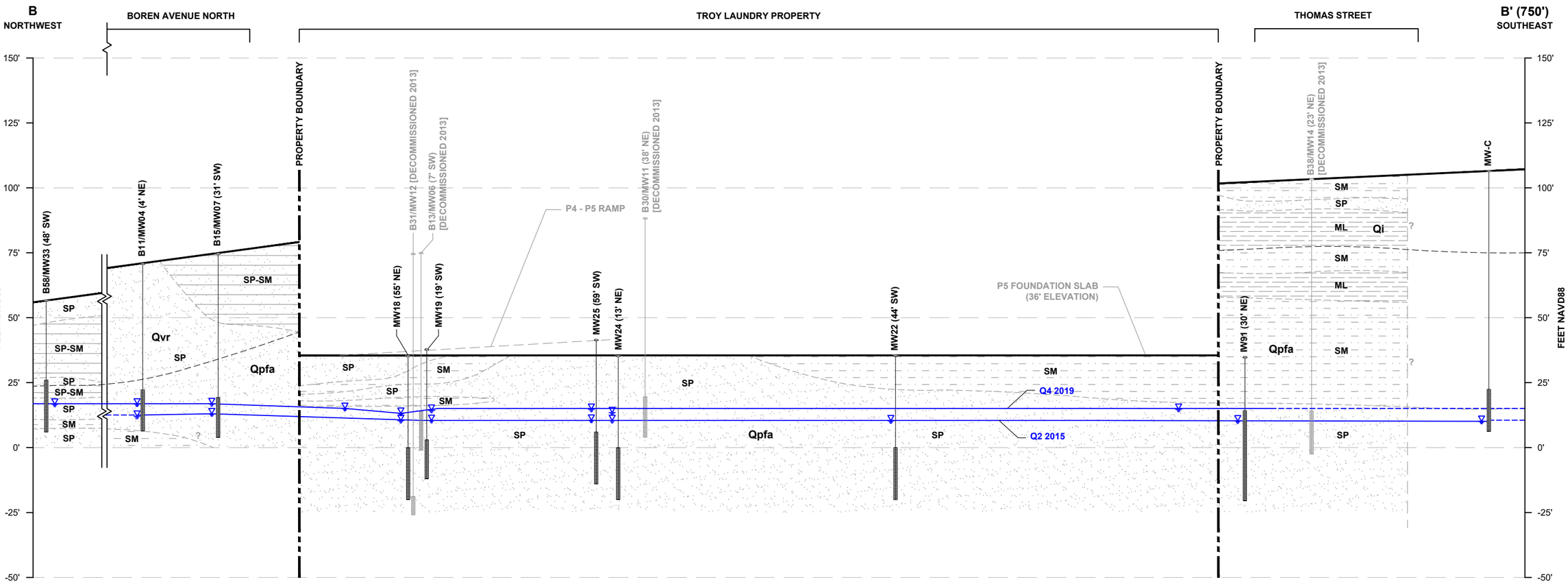


LEGEND

GROUNDWATER LEVEL

SP
POORLY GRADED SAND

SM
SILTY SAND

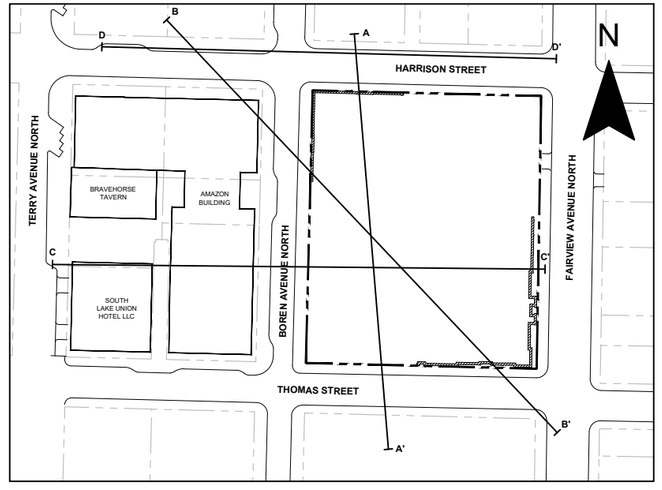
ML
SILT

SP-SM
POORLY GRADED SAND AND SILTY SAND

NOTE:

SOIL TYPES BASED ON UNIFIED SOIL CLASSIFICATION SYSTEM VISUAL ASSESSMENT

Qvr	VASHON RECESSIONAL OUTWASH DEPOSITS
Qi	ICE-CONTACT DEPOSITS
Qpfa	PRE-FRASER NONGLACIAL DEPOSITS
NAVD88	NORTH AMERICAN VERTICAL DATUM OF 1988



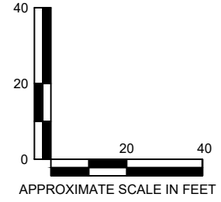


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FIGURE 6
CROSS SECTION B-B'

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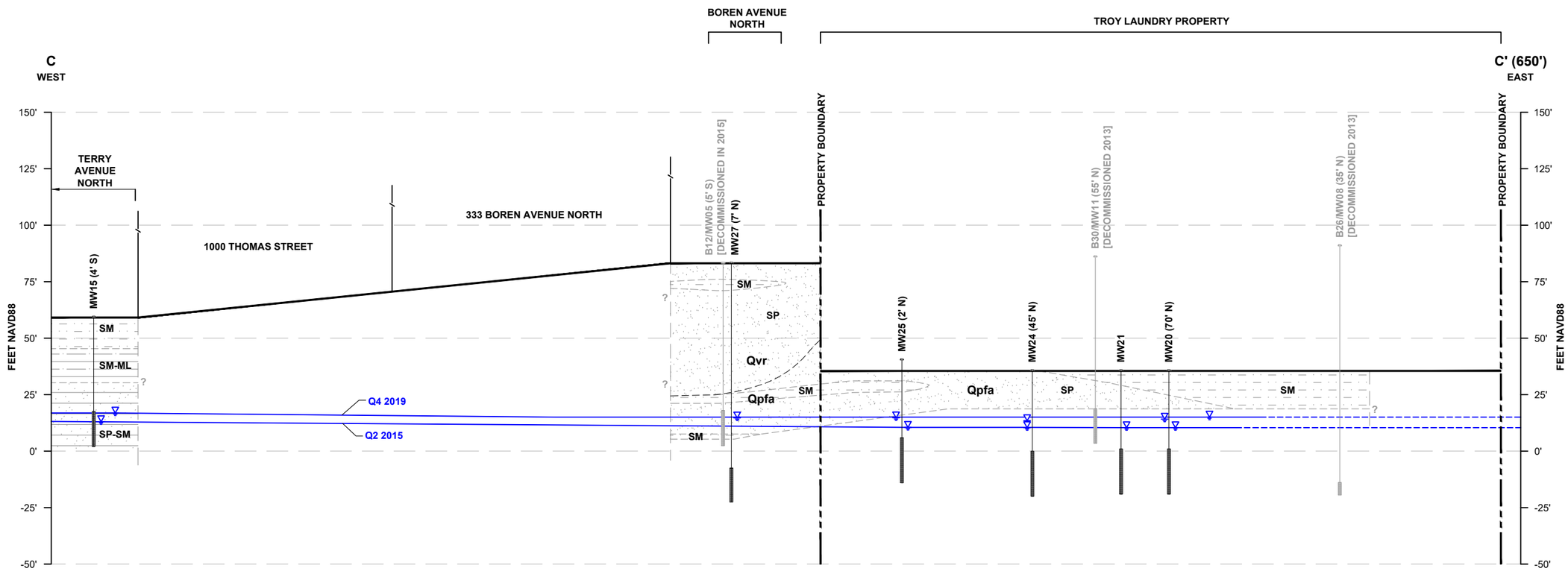


LEGEND

GROUNDWATER LEVEL

SP
POORLY GRADED SAND

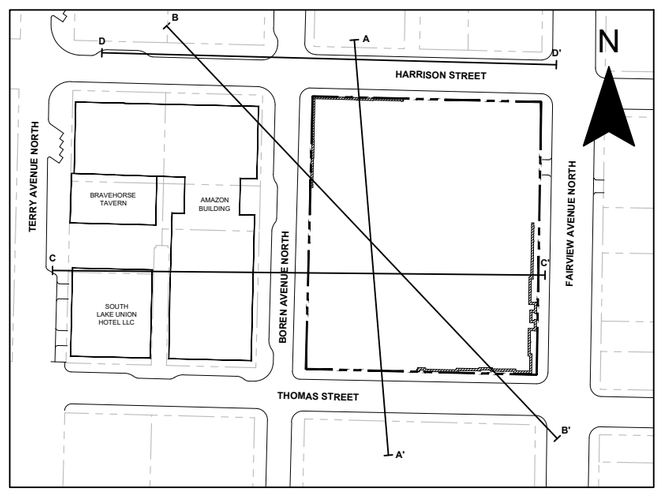
SM
SILTY SAND

SP-SM
POORLY GRADED SAND AND SILTY SAND

SM-ML
SILTY SAND AND SILT

NOTE:
SOIL TYPES BASED ON UNIFIED SOIL CLASSIFICATION SYSTEM VISUAL ASSESSMENT

Qvr	VASHON RECESSIONAL OUTWASH DEPOSITS
Qpfa	PRE-FRASER NONGLACIAL DEPOSITS
NAVD88	NORTH AMERICAN VERTICAL DATUM OF 1988



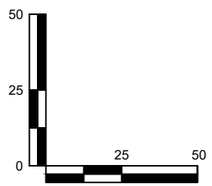


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FIGURE 7
CROSS SECTION C-C'

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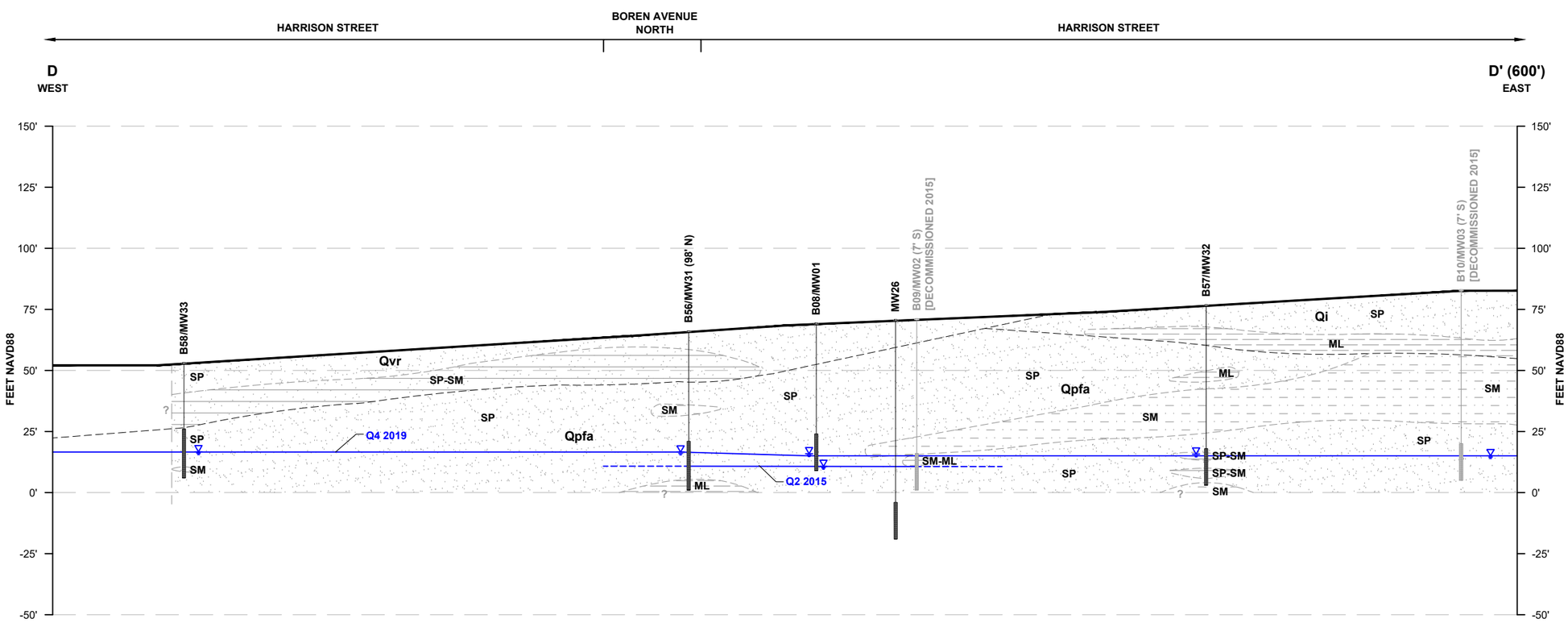


LEGEND

GROUNDWATER LEVEL

SP
POORLY GRADED SAND

SM
SILTY SAND

ML
SILT

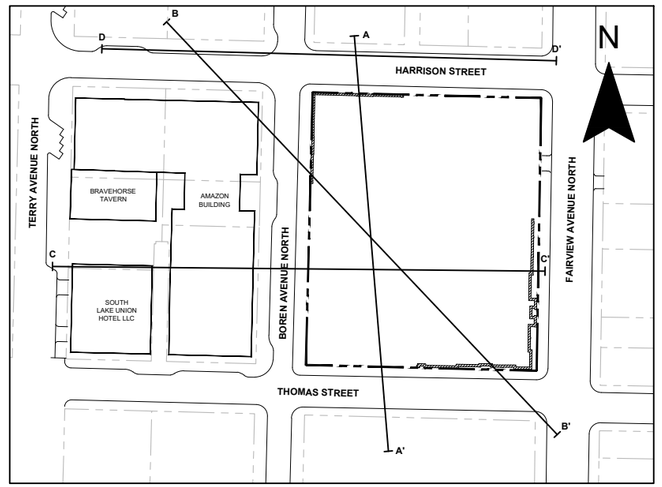
SP-SM
POORLY GRADED SAND AND SILTY SAND

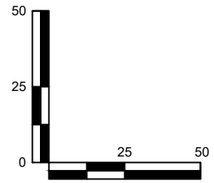
SM-ML
SILTY SAND AND SILT

NOTE:

SOIL TYPES BASED ON UNIFIED SOIL CLASSIFICATION SYSTEM VISUAL ASSESSMENT

Qvr	VASHON RECESSIONAL OUTWASH DEPOSITS
Qi	ICE-CONTACT DEPOSITS
Qpfa	PRE-FRASER NONGLACIAL DEPOSITS
NAVD88	NORTH AMERICAN VERTICAL DATUM OF 1988





APPROXIMATE SCALE IN FEET

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FIGURE 8
CROSS SECTION D-D'

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P:\0731 TOUCHSTONE\0731-004 TROY LAUNDRY\TECHNICAL\CAD\2025\CAP FIGURES\0731-004_2025_FS_Q2_TCE-POST.DWG

B56/MW31

B58/MW33

B08/MW01

MW26

B09/ MW02

B57/MW32

B10/ MW03

HARRISON STREET

HISTORICAL BUILDING FACADE

IW06

IW04

TERRY AVENUE NORTH

B11/MW04

MW17

TROY LAUNDRY PROPERTY

B15/MW07

MW18

BRAVEHORSE TAVERN

AMAZON BUILDING

BOREN AVENUE NORTH

B31/ MW12

B13/ MW06

MW19

MW20

B28/ MW10

MW24

B30/ MW11

B26/ MW08

MW34

B49/MW15

MW27

B12/ MW05

MW25

IW50

MW21

SOUTH LAKE UNION HOTEL LLC

MW22

IW61

B37/MW13

B27/ MW09

MW23

IW91

HISTORICAL BUILDING FACADE

FAIRVIEW AVENUE NORTH

B38/ MW14

THOMAS STREET

IW93

IW94

IW92

B50/ MW16

MW28

B54/MW29

B55/MW30

MW29R

MW35

ONNI MW-9

SEATTLE TIMES SITE

ONNI MW-4

ONNI MW-5

N

0 40 80

APPROXIMATE SCALE IN FEET

LEGEND

- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- REDEVELOPMENT EXCAVATION AREA
- MW20 — MONITORING WELL
- IW91 — INJECTION WELL CONVERTED TO MONITORING WELL
- IW61 — INJECTION WELL (SAMPLED)
- DECOMMISSIONED/DESTROYED MONITORING WELL
- DENOTES TCE CONCENTRATION EXCEEDS APPLICABLE MTCA CLEANUP LEVEL
- DENOTES PCE CONCENTRATION EXCEEDS APPLICABLE MTCA CLEANUP LEVEL
- CVOC — CHLORINATED VOLATILE ORGANIC COMPOUND
- MTCA — WASHINGTON STATE MODEL TOXICS CONTROL ACT
- PCE — TETRACHLOROETHENE
- TCE — TRICHLOROETHENE

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FIGURE 9
EXTENT OF TROY PROPERTY TCE AND PCE GROUNDWATER PLUME - POST-INTERIM REMEDIAL ACTION (Q2 2024)

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N

0 40 80

APPROXIMATE SCALE IN FEET

B56/MW31

B58/MW33

B08/MW01

MW26

B09/ MW02

B57/MW32

B10/ MW03

HARRISON STREET

HISTORICAL BUILDING FACADE

TERRY AVENUE NORTH

BORREN AVENUE NORTH

FAIRVIEW AVENUE NORTH

BRAVEHORSE TAVERN

AMAZON BUILDING

SOUTH LAKE UNION HOTEL LLC

TROY LAUNDRY PROPERTY

IW06 IW04

MW17

B11/MW04

B15/MW07

MW18

B31/ MW12

B13/ MW06

MW19

MW20

B28/ MW10

MW24

B30/ MW11

B26/ MW08

MW27

IW50

MW25

MW21

B12/ MW05

MW34

B49/MW15

MW22

IW61

B37/MW13

B27/ MW09

MW23

IW91

HISTORICAL BUILDING FACADE

B38/ MW14

THOMAS STREET

B59/ MW16

MW28

MW29R

B55/MW30

B54/MW29

MW35

ONNI MW-9

SEATTLE TIMES SITE

ONNI MW-4

ONNI MW-5

LEGEND

	PROPERTY BOUNDARY
	PARCEL BOUNDARY
	REDEVELOPMENT EXCAVATION AREA
MW20	MONITORING WELL
IW91	INJECTION WELL CONVERTED TO MONITORING WELL
IW61	INJECTION WELL (SAMPLED)
	DECOMMISSIONED/DESTROYED MONITORING WELL
	DENOTES cis-1,2-DCE/VC CONCENTRATIONS EXCEED APPLICABLE MTCA CLEANUP LEVEL
CVOC	CHLORINATED VOLATILE ORGANIC COMPOUND
DCE	DICHLOROETHENE
VC	VINYL CHLORIDE
MTCA	WASHINGTON STATE MODEL TOXICS CONTROL ACT

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FIGURE 10
EXTENT OF TROY PROPERTY VC/cis-1,2 DCE GROUNDWATER PLUME - POST-INTERIM REMEDIAL ACTION (Q2 2024)

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P:\0731 TOUCHSTONE\0731-004 TROY LAUNDRY\TECHNICAL\CAD\2025\CAP FIGURES\0731-004_2025_FS_Q4_TCE-POST.DWG

B56/MW31

B58/MW33

B08/MW01

MW26

B09/ MW02

B57/MW32

B10/ MW03

HARRISON STREET

HISTORICAL BUILDING FACADE

IW06

IW04

TERRY AVENUE NORTH

B11/MW04

MW17

TROY LAUNDRY PROPERTY

B15/MW07

MW18

BRAVEHORSE TAVERN

AMAZON BUILDING

BOREN AVENUE NORTH

B31/ MW12

B13/ MW06

MW19

MW20

B28/ MW10

MW24

B30/ MW11

B26/ MW08

MW34

B49/MW15

MW27

B12/ MW05

IW50

MW21

MW25

SOUTH LAKE UNION HOTEL LLC

MW22

IW61

B37/MW13

B27/ MW09

MW23

IW91

HISTORICAL BUILDING FACADE

FAIRVIEW AVENUE NORTH

B38/ MW14

THOMAS STREET

B50/ MW16

MW28

B54/MW29

B55/MW30

MW29R

MW35

ONNI MW-9

SEATTLE TIMES SITE

ONNI MW-4

ONNI MW-5

N

0 40 80

APPROXIMATE SCALE IN FEET

LEGEND

- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- REDEVELOPMENT EXCAVATION AREA
- MW20 — MONITORING WELL
- IW91 — INJECTION WELL CONVERTED TO MONITORING WELL
- IW61 — INJECTION WELL (SAMPLED)
- DECOMMISSIONED/DESTROYED MONITORING WELL
- DENOTES TCE CONCENTRATION EXCEEDS APPLICABLE MTCA CLEANUP LEVEL
- DENOTES PCE CONCENTRATION EXCEEDS MTCA CLEANUP LEVEL
- CVOC — CHLORINATED VOLATILE ORGANIC COMPOUND
- MTCA — WASHINGTON STATE MODEL TOXICS CONTROL ACT
- PCE — TETRACHLOROETHENE
- TCE — TRICHLOROETHENE

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1120 JOHN STREET
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FIGURE 11
EXTENT OF TROY PROPERTY TCE AND PCE GROUNDWATER PLUME - POST-INTERIM REMEDIAL ACTION (Q4 2024)

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10/15/2025

P:\0731 TOUCHSTONE\0731-004 TROY LAUNDRY\TECHNICAL\CAD\2025\CAP FIGURES\0731-004_2025_FS_Q4_VC-POST.DWG

N

0 40 80

APPROXIMATE SCALE IN FEET

HARRISON STREET

THOMAS STREET

TERRY AVENUE NORTH

BOREN AVENUE NORTH

FAIRVIEW AVENUE NORTH

TROY LAUNDRY PROPERTY

HISTORICAL BUILDING FACADE

BRAVEHORSE TAVERN

AMAZON BUILDING

SOUTH LAKE UNION HOTEL LLC

SEATTLE TIMES SITE

B56/MW31

B58/MW33

B08/MW01

MW26

B09/ MW02

B57/MW32

B10/ MW03

IW06

IW04

B11/MW04

MW17

B15/MW07

MW18

B31/ MW12

B13/ MW06

MW19

B28/ MW10

MW20

MW24

B30/ MW11

B26/ MW08

MW34

B49/MW15

MW27

B12/ MW05

IW50

MW25

MW21

MW22

IW61

B37/MW13

B27/ MW09

MW23

IW91

B38/ MW14

B59/ MW16

MW28

MW29R

B55/MW30

B54/MW29

MW35

ONNI MW-9

ONNI MW-4

ONNI MW-5

LEGEND

	PROPERTY BOUNDARY
	PARCEL BOUNDARY
	REDEVELOPMENT EXCAVATION AREA
MW20	MONITORING WELL
IW91	INJECTION WELL CONVERTED TO MONITORING WELL
IW61	INJECTION WELL (SAMPLED)
	DECOMMISSIONED/DESTROYED MONITORING WELL
	DENOTES cis-1,2-DCE/VC CONCENTRATIONS EXCEED APPLICABLE MTCA CLEANUP LEVEL
CVOC	CHLORINATED VOLATILE ORGANIC COMPOUND
DCE	DICHLOROETHENE
VC	VINYL CHLORIDE
MTCA	WASHINGTON STATE MODEL TOXICS CONTROL ACT

SoundEarth Strategies

WWW.SOUNDEARTHINC.COM

TROY LAUNDRY PROPERTY
300 BOREN AVENUE NORTH,
399 FAIRVIEW AVENUE NORTH, AND
1120 JOHN STREET
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #0731-004

FIGURE 12
EXTENT OF TROY PROPERTY
VC/cis-1,2-DCE GROUNDWATER
PLUME - POST-INTERIM REMEDIAL
ACTION (Q4 2024)

DRAFT

DRAFT

10/15/2025

P:\0731 TOUCHSTONE\0731-004 TROY LAUNDRY\TECHNICAL\CAD\2025\CAP FIGURES\0731-004_2025_CAP_PCE-POST_A1.DWG

N

0 40 80

APPROXIMATE SCALE IN FEET

B56/MW31

B58/MW33

B08/MW01

MW26

B09/ MW02

HARRISON STREET

B57/MW32

B10/ MW03

HISTORICAL BUILDING FACADE

IW06

IW04

TERRY AVENUE NORTH

B11/MW04

MW17

TROY LAUNDRY PROPERTY

B15/MW07

MW18

BRAVEHORSE TAVERN

AMAZON BUILDING

BOREN AVENUE NORTH

B31/ MW12

B13/ MW06

MW19

MW20

B28/ MW10

FAIRVIEW AVENUE NORTH

MW24

B30/ MW11

B26/ MW08

MW34

B49/MW15

MW27

B12/ MW05

IW50

MW21

MW25

SOUTH LAKE UNION HOTEL LLC

MW22

IW61

B37/MW13

B27/ MW09

MW23

HISTORICAL BUILDING FACADE

IW91

B38/ MW14

IW93

IW94

IW92

B50/ MW16

MW28

THOMAS STREET

B54/MW29

B55/MW30

MW29R

MW35

ONNI MW-9

FORMER SEATTLE TIMES SITE

ONNI MW-4

ONNI MW-5

LEGEND

	PROPERTY BOUNDARY
	PARCEL BOUNDARY
	REDEVELOPMENT EXCAVATION AREA
MW20	MONITORING WELL
MW-5	MONITORING WELL (NOT SAMPLED) (ENVIRONMENTAL PARTNERS INC)
IW91	INJECTION WELL CONVERTED TO MONITORING WELL
IW61	INJECTION WELL (SAMPLED)
	DECOMMISSIONED/DESTROYED MONITORING WELL
IW96	INJECTION WELL
	APPROXIMATE EXTENTS OF POST-TREATMENT PCE, TCE, AND DCE PLUME ABOVE CLEANUP LEVELS ORIGINATING FROM THE TROY PROPERTY (Q2 2022 AND Q4 2022)
	MONITORING WELLS TO BE SAMPLED
	CPOC MONITORING WELLS
CPOC	CONDITIONAL POINT OF COMPLIANCE
DCE	DICHLOROETHENE
PCE	TETRACHLOROETHENE
TCE	TRICHLOROETHENE

NOTE:
MONITORING WELLS WILL BE INSTALLED TO REPLACE ABANDONED MONITORING WELLS MW29 AND MW30

SoundEarth Strategies

WWW.SOUNDEARTHINC.COM

TROY LAUNDRY PROPERTY
300 BOREN AVENUE NORTH,
399 FAIRVIEW AVENUE NORTH, AND
1120 JOHN STREET
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #0731-004

FIGURE 13
CLEANUP ACTION ALTERNATIVE 1, MONITORED NATURAL ATTENUATION AND ENVIRONMENTAL COVENANT

Tables

Table 1
Soil Analytical Results for Petroleum Hydrocarbons and VOCs
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Sample Location	Surface Elevation (NAVD88)	Sample ID	Depth (feet)	Elevation (NAVD88)	Date Sampled	Sampled By	Analytical Results (mg/kg)														
							GRPH[1]	DRPH[2]	ORPH[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]	Vinyl Chloride[3]	cis-1,2-DCE[3]	trans-1,2-DCE[3]	EDC[3]	TCE[3]	PCE[3]	PCE TCLP[4] (mg/L)	SVOCs[5][6]
Troy Laundry Property																					
P01	73.93	P01-05	5	68.93	10/06/10	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		P01-07.5	7.5	66.43			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		P01-10	10	63.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		P01-14	14	59.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		P01-18.5	18.5	55.43			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	0.026	--	--
		P01-20	20	53.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	0.028	--	--
P02	73.93	P02-02	2	71.93	10/06/10	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	0.039	--	--
		P02-05	5	68.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	0.042	--	--
		P02-07.5	7.5	66.43			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	0.025	--	--
		P02-10	10	63.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	0.035	--	--
P03	73.93	P03-05	5	68.93	10/06/10	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.13**	--	--
		P03-09	9	64.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.099**	--	--
		P03-12.5	12.5	61.43			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.076**	--	--
		P03-16	16	57.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.057**	--	--
		P03-19	19	54.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.080**	--	--
P04	93.05	P04-02.5	2.5	90.55	10/06/10	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		P04-05	5	88.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		P04-07.5	7.5	85.55			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		P04-10	10	83.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		P04-13	13	80.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		P04-17	17	76.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	0.029	--	--
		P04-20	20	73.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
P05	93.05	P05-02.5	2.5	90.55	10/06/10	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**1.4**	--	--
		P05-05	5	88.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**2.5**	--	--
		P05-07.5	7.5	85.55			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.073**	--	--
		P05-10	10	83.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.087**	--	--
		P05-15	15	78.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.082**	--	--
		P05-20	20	73.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.14**	--	--
P06	93.05	P06-02.5	2.5	90.55	10/06/10	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.15**	--	--
		P06-05	5	88.05			--	--	--	--		--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.68**	--	--
		P06-08	8	85.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.44**	--	--
		P06-11	11	82.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	0.028	--	--
		P06-14	14	79.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.063**	--	--
		P06-20	20	73.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.099**	--	--
P07	93.05	P07-02.5	2.5	90.55	10/06/10	SoundEarth	<2	--	--	<0.03	<0.05	<0.05	<0.15	<0.05	<0.05	<0.05	<0.05	<0.03	0.047	--	--
		P07-05	5	88.05			<2	--	--	<0.03	<0.05	<0.05	<0.15	<0.05	<0.05	<0.05	<0.05	<0.03	**0.13**	--	--
		P07-07.5	7.5	85.55			<2	--	--	<0.03	<0.05	<0.05	<0.15	<0.05	<0.05	<0.05	<0.05	<0.03	**0.055**	--	--
		P01-11	11	82.05			**1,400**[x]	--	--	<0.03	<0.05	<0.05	<0.15	<0.05	<0.05	<0.05	<0.05	<0.03	**0.16**	--	--
P08	85.8215	P08-03	3	82.82	10/07/10	SoundEarth	**52**[x]	100[x]	<250	<0.03	<0.05	<0.05	<0.15	<0.05	<0.05	<0.05	<0.05	**0.15**	**63**	--	--
		P08-05	5	80.82			2.6[x]	--	--	<0.03	<0.05	<0.05	<0.15	<0.05	<0.05	<0.05	<0.05	<0.03	**0.46**	--	--
		P08-07.5	7.5	78.32			**580**[x]	--	--	<0.03	<0.05	<0.05	<0.15	<0.05	<0.05	<0.05	<0.05	**0.14**	**450**	--	--
		P08-10	10	75.82			**150**[x]	**4,300**[x]	**3,200**	<0.03	<0.05	<0.05	<0.15	<0.05	<0.05	<0.05	<0.05	**0.13**	**250**	--	--
		P08-14	14	71.82			<2	--	--	<0.03	<0.05	<0.05	<0.15	<0.05	<0.05	<0.05	<0.05	<0.03	**1.3**	--	--
		P08-18	18	67.82			<2	--	--	<0.03	<0.05	<0.05	<0.15	<0.05	<0.05	<0.05	<0.05	<0.03	**1.6**	--	--
		P08-23	23	62.82			<2	<50	<250	<0.03	<0.05	<0.05	<0.15	<0.05	<0.05	<0.05	<0.05	<0.03	**1.6**	--	--
MTCA Cleanup Level							**100/30**[a,b]	**2,000**[b]	**2,000**[b]	**0.03**[b]	**7**[b]	**6**[b]	**9**[b]	**0.67**[c]	**160**[d]	**1,600**[d]	**11**[c]	**0.03**[b]	**0.05**[b]	**0.7**[e]	**NE**

Table 1
Soil Analytical Results for Petroleum Hydrocarbons and VOCs
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Sample Location	Surface Elevation (NAVD88)	Sample ID	Depth (feet)	Elevation (NAVD88)	Date Sampled	Sampled By	Analytical Results (mg/kg)														
							GRPH[1]	DRPH[2]	ORPH[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]	Vinyl Chloride[3]	cis-1,2-DCE[3]	trans-1,2-DCE[3]	EDC[3]	TCE[3]	PCE[3]	PCE TCLP[4] (mg/L)	SVOCs[5][6]
P09	88.92304	P09-05	5	83.92	10/07/10	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.098**	--	--
		P09-07.5	7.5	81.42			<2	<50	<250	<0.03	<0.05	<0.05	<0.15	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		P09-12	12	76.92			2.3[x]	--	--	<0.03	<0.05	<0.05	<0.15	<0.05	<0.05	<0.05	<0.05	<0.03	**0.076**	--	--
		P09-15	15	73.92			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.089**	--	--
P10	87.7803	P10-02.5	2.5	85.28	10/07/10	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.13**	--	--
		P10-07.5	7.5	80.28			<2	--	--	<0.03	<0.05	<0.05	<0.15	<0.05	<0.05	<0.05	<0.05	<0.03	**0.066**	--	--
		P10-14	14	73.78			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	0.038	--	--
		P10-18	18	69.78			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.069**	--	--
		P10-22	22	65.78			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	0.030	--	--
P11	82.72992	P11-02.5	2.5	80.23	10/07/10	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		P11-07.5	7.5	75.23			<2	<50	<250	<0.03	<0.05	<0.05	<0.15	<0.05	<0.05	<0.05	<0.05	<0.03	0.039	--	--
		P11-11	11	71.73			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		P11-14	14	68.73			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		P11-18	18	64.73			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.10**	--	--
P12	92.26789	P12-05	5	87.27	10/07/10	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		P12-10	10	82.27			<2	--	--	<0.03	<0.05	<0.05	<0.15	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		P12-15	15	77.27			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
P13	84.61304	P13-02.5	2.5	82.11	10/07/10	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		P13-07.5	7.5	77.11			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		P13-10	10	74.61			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		P13-18	18	66.61			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
P14	74.1706	P14-02.5	2.5	71.67	10/07/10	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		P14-07.5	7.6	66.57			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		P14-14	14	60.17			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		P14-20	20	54.17			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
P15	86.16	P15-07.5	7.5	78.66	02/20/14	SoundEarth	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0839	--
P16	85.8215	P16-02	2	83.82	02/20/14	SoundEarth	--	--	--	--	--	--	--	--	--	--	--	--	--	0.00698	--
		P16-07.5	7.5	78.32			--	--	--	--	--	--	--	--	--	--	--	--	--	0.00125	--
P17	82.73	P17-07.5	7.5	75.23	02/20/14	SoundEarth	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0397	--
P18	73.93	P18-05	5	68.93	02/20/14	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.24**	--	--
		P18-10	10	63.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.56**	--	--
P19	73.93	P19-05	5	68.93	02/20/14	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.18**	--	--
		P19-10	10	63.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.11**	--	--
		P19-15	15	58.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.13**	--	--
P20	73.93	--	--	--	02/20/14	SoundEarth	No Samples Collected														
B01	81.34854	--	6-8	74.35	12/08/10	AECOM	<5.7	<5.1	<10	<0.001	NR	NR	NR	NR	<0.001	NR	NR	0.003	**0.22**	--	--
		--	8-10	72.35			--	--	--	<0.0012	NR	NR	NR	NR	<0.0012	NR	NR	0.0028	**0.2**	--	--
		--	18-20	62.35			--	--	--	<0.0009	NR	NR	NR	NR	0.0039	NR	NR	0.0058	**0.86**	--	--
B02	93.05	--	7-9	85.05	12/08/10	AECOM	--	--	--	0.0062	NR	NR	NR	NR	0.0013	NR	NR	**0.031**	**2.3**	--	--
		--	9-11	83.05			<6	<5.2	<10	0.001	NR	NR	NR	NR	0.0015	NR	NR	0.02	**2.3**	--	--
		--	16-18	76.05			--	--	--	<0.0011	NR	NR	NR	NR	0.0013	NR	NR	0.0046	**0.5**	--	--
B03	90.52796	--	--	--	--	AECOM	No Samples Collected														
B04	93.05	--	8-10	84.05	12/08/10	AECOM	--	--	--	0.003	NR	NR	NR	NR	<0.0009	NR	NR	0.0098	**2**	--	--
		--	14-16	78.05			<5.2	<5	<10	<0.001	NR	NR	NR	NR	<0.001	NR	NR	0.0069	**0.69**	--	--
		--	18-20	74.05			--	--	--	<0.001	NR	NR	NR	NR	<0.001	NR	NR	0.003	**0.47**	--	--
MTCA Cleanup Level							**100/30[a,b]**	**2,000[b]**	**2,000[b]**	**0.03[b]**	**7[b]**	**6[b]**	**9[b]**	**0.67[c]**	**160[d]**	**1,600[d]**	**11[c]**	**0.03[b]**	**0.05[b]**	**0.7[e]**	**NE**

SoundEarth Strategies

Table 1
Soil Analytical Results for Petroleum Hydrocarbons and VOCs
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Sample Location	Surface Elevation (NAVD88)	Sample ID	Depth (feet)	Elevation (NAVD88)	Date Sampled	Sampled By	Analytical Results (mg/kg)														
							GRPH[1]	DRPH[2]	ORPH[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]	Vinyl Chloride[3]	cis-1,2-DCE[3]	trans-1,2-DCE[3]	EDC[3]	TCE[3]	PCE[3]	PCE TCLP[4] (mg/L)	SVOCs[5][6]
B05	93.05	--	10-12	82.05	12/08/10	AECOM	--	--	--	<0.0009	NR	NR	NR	NR	<0.0009	NR	NR	<0.0009	**0.057**	--	--
		--	13-15	79.05			<5	<5.2	<10	<0.0009	NR	NR	NR	NR	<0.0009	NR	NR	0.0012	**0.34**	--	--
		--	18-20	74.05			--	--	--	<0.0009	NR	NR	NR	NR	<0.0009	NR	NR	0.0012	**0.42**	--	--
B06	73.93	--	5-7	67.93	12/08/10	AECOM	--	--	--	<0.051	NR	NR	NR	NR	<0.051	NR	NR	<0.051	**0.87**	--	--
		--	8-10	64.93			--	--	--	<0.047	NR	NR	NR	NR	<0.047	NR	NR	<0.047	**0.53**	--	--
		--	10-11.5	63.43			<4.9	<5.7	<1	<0.052	NR	NR	NR	NR	<0.052	NR	NR	<0.052	**0.43**	--	--
B07	86.47833	--	23-26	61.98	12/08/10	AECOM	<6.2	<5.9	<12	<0.06	NR	NR	NR	NR	0.064	NR	NR	<0.06	**0.58**	--	--
		--	35-37	50.48			--	--	--	<0.058	NR	NR	NR	NR	<0.058	NR	NR	<0.058	**1.7**	--	--
		--	37-40	47.98			--	--	--	<0.0009	NR	NR	NR	NR	0.017	NR	NR	0.0071	**0.16**	--	--
B13/MW06	74.78	B13-04.5	4.5	70.28	05/25/11	SoundEarth	2.8	<50	<250	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	<0.3
		B13-09	9	65.78			<2	<50	<250	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	<0.3
		B13-14	14	60.78			<2	<50	<250	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	<0.3
		B13-19	19	55.78			<2	<50	<250	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	<0.3
		B13-24	24	50.78			<2	<50	<250	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.069**	--	<0.3
		B13-29	29	45.78			<2	<50	<250	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	0.039	--	<0.3
		B13-34	34	40.78			<2	<50	<250	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	<0.3
		B13-39	39	35.78			<2	<50	<250	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	<0.3
		B13-44	44	30.78			<2	<50	<250	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	0.037	--	<0.3
		B13-49	49	25.78			**1,700**	300	<250	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.070**	--	<0.3
		B13-54	54	20.78			<2	<50	<250	<0.02	<0.02	<0.02	<0.06	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	<0.3
		B13-55	55	19.78	05/26/11		<2	<50	<250	<0.02	<0.02	<0.02	<0.06	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	<0.3
		B13-58	58	16.78			<2	<50	<250	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	<0.3
		B13-64	64	10.78			<2	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	<0.3
		B13-69	69	5.78			<2	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	<0.3
		B13-74	74	0.78			<2	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	<0.3
B14	81.31295	B14-04	4	77.31	05/26/11	SoundEarth	<2	<50	<250	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	<0.3
		B14-09	9	72.31			<2	<50	<250	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	<0.3
		B14-14	14	67.31			<2	<50	<250	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	<0.3
		B14-19	19	62.31			<2	<50	<250	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	<0.3
		B14-23.5	23.5	57.81			<2	<50	<250	<0.02	<0.02	<0.02	<0.06	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	<0.3
		B14-30	30	51.31			**1,100**	350[x]	<250	<0.2	<0.2	2.0	2.7	<0.05	<0.05	<0.05	<0.05	<0.03	**0.23**	--	<0.3
		B14-33.5	33.5	47.81			**930**	120[x]	<250	<0.2	<0.2	2.4	3.1	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	<0.3
		B14-36	36	45.31			14	<50	<250	<0.02	<0.02	0.059	0.070	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	<0.3
		B14-41	41	40.31			<2	<50	<250	<0.02	<0.02	<0.02	<0.06	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	0.31
		B14-46	46	35.31	05/27/11		<2	<50	<250	<0.02	<0.02	<0.02	<0.06	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	1.2
		B14-51	51	30.31			<2	<50	<250	<0.02	<0.02	<0.02	<0.06	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	0.44
		B14-56	56	25.31			<2	<50	<250	<0.02	<0.02	<0.02	<0.06	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	<0.3
		B14-58	58	23.31			**2,000**	<50	<250	<0.1	<0.1	2.7	3.9	<0.05	<0.05	<0.05	<0.05	<0.03	**0.13**	--	<0.3
		B14-61	61	20.31			<2	<50	<250	<0.02	<0.02	<0.02	<0.06	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	1.1
		B14-65	65	16.31			<2	<50	<250	<0.02	<0.02	<0.02	<0.06	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	<0.3
		B14-69	69	12.31			<2	<50	<250	<0.02	<0.02	<0.02	<0.06	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	<0.3
		B14-75	75	6.31			<2	<50	<250	<0.02	<0.02	<0.02	<0.06	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	<0.3
MTCA Cleanup Level							**100/30[a,b]**	**2,000[b]**	**2,000[b]**	**0.03[b]**	**7[b]**	**6[b]**	**9[b]**	**0.67[c]**	**160[d]**	**1,600[d]**	**11[c]**	**0.03[b]**	**0.05[b]**	**0.7[e]**	**NE**

Table 1
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Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Sample Location	Surface Elevation (NAVD88)	Sample ID	Depth (feet)	Elevation (NAVD88)	Date Sampled	Sampled By	Analytical Results (mg/kg)														
							GRPH[1]	DRPH[2]	ORPH[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]	Vinyl Chloride[3]	cis-1,2-DCE[3]	trans-1,2-DCE[3]	EDC[3]	TCE[3]	PCE[3]	PCE TCLP[4] (mg/L)	SVOCs[5][6]
B16	93.05	B16-06	6	87.05	09/26/11	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.38**	--	--
		B16-11	11	82.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B16-16	16	77.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.051**	--	--
		B16-17	17	76.05			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		B16-18	18	75.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B16-20	20	73.05			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		B16-22	22	71.05			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		B16-23.5	23.5	69.55			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.18**	--	--
		B16-25	25	68.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.085**	--	--
		B16-29	29	64.05			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		B16-30	30	63.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	0.028	--	--
		B16-35	35	58.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B16-40	40	53.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B16-45	45	48.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	0.046	--	--
		B16-50	50	43.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.18**	--	--
		B16-55	55	38.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B16-65	65	28.05	09/27/11		--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B16-70	70	23.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	0.043	--	--
B17	93.05	B17-06	6	87.05	09/27/11	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	0.046	--	--
		B17-11	11	82.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.053**	--	--
		B17-16	16	77.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.14**	--	--
		B17-21	21	72.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B17-26	26	67.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	0.030	--	--
		B17-30	30	63.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B17-35	35	58.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	0.030	--	--
		B17-40	40	53.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.076**	--	--
		B17-45	45	48.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.082**	--	--
		B17-50	50	43.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.042**	--	--
		B17-55	55	38.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.047**	--	--
		B17-60	60	33.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.062**	--	--
		B17-65	65	28.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.067**	--	--
		B17-70	70	23.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B17-75	75	18.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B17-80	80	13.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
B18	93.05	B18-25	25	68.05	09/28/11	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.12**	--	--
		B18-30	30	63.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.059**	--	--
		B18-35	35	58.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.054**	--	--
		B18-40	40	53.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.11**	--	--
		B18-45	45	48.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.072**	--	--
		B18-50	50	43.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.12**	--	--
		B18-55	55	38.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.11**	--	--
		B18-60	60	33.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.12**	--	--
		B18-65	65	28.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.11**	--	--
		B18-70	70	23.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	0.027	--	--
MTCA Cleanup Level							**100/30[a,b]**	**2,000[b]**	**2,000[b]**	**0.03[b]**	**7[b]**	**6[b]**	**9[b]**	**0.67[c]**	**160[d]**	**1,600[d]**	**11[c]**	**0.03[b]**	**0.05[b]**	**0.7[e]**	**NE**

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							GRPH[1]	DRPH[2]	ORPH[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]	Vinyl Chloride[3]	cis-1,2-DCE[3]	trans-1,2-DCE[3]	EDC[3]	TCE[3]	PCE[3]	PCE TCLP[4] (mg/L)	SVOCs[5][6]
B19	93.05	B19-25	25	68.05	09/29/11	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.11**	--	--
		B19-30	30	63.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B19-35	35	58.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B19-40	40	53.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B19-45	45	48.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B19-50	50	43.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B19-55	55	38.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B19-60	60	33.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B19-65	65	28.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B19-70	70	23.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
B20	93.05	B20-15	15	78.05	09/29/11	SoundEarth	**2,200**	--	--	**<0.1**	<0.1	4.6	**22**	<0.05	<0.05	<0.05	<0.05	<0.03	**0.22**	--	--
		B20-20	20	73.05	09/30/11		<2	--	--	<0.02	<0.02	<0.02	<0.06	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B20-25	25	68.05			**34**	--	--	<0.02	<0.02	0.061	0.30	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B20-30	30	63.05			<2	--	--	<0.02	<0.02	<0.02	<0.06	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B20-35	35	58.05			<2	--	--	<0.02	<0.02	<0.02	<0.06	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B20-40	40	53.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B20-45	45	48.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B20-50	50	43.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B20-55	55	38.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B20-60	60	33.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B20-65	65	28.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B20-70	70	23.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
B21	93.05	B21-05	5	88.05	09/30/11	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.28**	--	--
		B21-10	10	83.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B21-15	15	78.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B21-20	20	73.05	10/04/11		--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B21-25	25	68.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B21-30	30	63.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B21-35	35	58.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B21-40	40	53.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B21-45	45	48.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B21-50	50	43.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B21-55	55	38.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B21-60	60	33.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B21-65	65	28.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B21-70	70	23.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
MTCA Cleanup Level							**100/30[a,b]**	**2,000[b]**	**2,000[b]**	**0.03[b]**	**7[b]**	**6[b]**	**9[b]**	**0.67[c]**	**160[d]**	**1,600[d]**	**11[c]**	**0.03[b]**	**0.05[b]**	**0.7[e]**	**NE**

Table 1
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Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Sample Location	Surface Elevation (NAVD88)	Sample ID	Depth (feet)	Elevation (NAVD88)	Date Sampled	Sampled By	Analytical Results (mg/kg)														
							GRPH[1]	DRPH[2]	ORPH[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]	Vinyl Chloride[3]	cis-1,2-DCE[3]	trans-1,2-DCE[3]	EDC[3]	TCE[3]	PCE[3]	PCE TCLP[4] (mg/L)	SVOCs[5][6]
B22	93.05	B22-05	5	88.05	10/03/11	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B22-10	10	83.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B22-15	15	78.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B22-20	20	73.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B22-25	25	68.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B22-30	30	63.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B22-35	35	58.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B22-40	40	53.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B22-45	45	48.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B22-50	50	43.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B22-55	55	38.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B22-60	60	33.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B22-65	65	28.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B22-70	70	23.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
B23	93.05	B23-05	5	88.05	10/05/11	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B23-10	10	83.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B23-15	15	78.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B23-20	20	73.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B23-25	25	68.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B23-30	30	63.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B23-35	35	58.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B23-40	40	53.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B23-45	45	48.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B23-50	50	43.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B23-55	55	38.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B23-60	60	33.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B23-65	65	28.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B23-70	70	23.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
B24	93.05	B24-05	5	88.05	10/05/11	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B24-10	10	83.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B24-15	15	78.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B24-20	20	73.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B24-25	25	68.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B24-30	30	63.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B24-35	35	58.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B24-40	40	53.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B24-45	45	48.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B24-50	50	43.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B24-55	55	38.05	10/06/11		--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B24-60	60	33.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B24-65	65	28.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B24-70	70	23.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
MTCA Cleanup Level							**100/30[a,b]**	**2,000[b]**	**2,000[b]**	**0.03[b]**	**7[b]**	**6[b]**	**9[b]**	**0.67[c]**	**160[d]**	**1,600[d]**	**11[c]**	**0.03[b]**	**0.05[b]**	**0.7[e]**	**NE**

Table 1
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Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
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Sample Location	Surface Elevation (NAVD88)	Sample ID	Depth (feet)	Elevation (NAVD88)	Date Sampled	Sampled By	Analytical Results (mg/kg)														
							GRPH[1]	DRPH[2]	ORPH[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]	Vinyl Chloride[3]	cis-1,2-DCE[3]	trans-1,2-DCE[3]	EDC[3]	TCE[3]	PCE[3]	PCE TCLP[4] (mg/L)	SVOCs[5][6]
B25	93.05	B25-05	5	88.05	10/06/11	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B25-10	10	83.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B25-20	20	73.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B25-25	25	68.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B25-30	30	63.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B25-35	35	58.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B25-40	40	53.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B25-45	45	48.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B25-50	50	43.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B25-55	55	38.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B25-60	60	33.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B25-65	65	28.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B25-70	70	23.05			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
B26/MW08	92.88	B26-05	5	87.88	10/07/11	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B26-10	10	82.88			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B26-15	15	77.88			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B26-20	20	72.88			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B26-25	25	67.88			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B26-30	30	62.88			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B26-35	35	57.88			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B26-40	40	52.88			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B26-45	45	47.88			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B26-50	50	42.88			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B26-55	55	37.88			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B26-60	60	32.88			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B26-70	70	22.88			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B26-80	80	12.88			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B26-90	90	2.88	10/10/11		--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B26-100	100	-7.12			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B26-110	110	-17.12			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
B27/MW09	92.92	B27-20	20	72.92	10/11/11	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B27-25	25	67.92			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B27-30	30	62.92			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B27-35	35	57.92			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B27-40	40	52.92			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B27-45	45	47.92			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B27-50	50	42.92			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B27-55	55	37.92			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B27-60	60	32.92			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B27-65	65	27.92			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B27-70	70	22.92			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B27-80	80	12.92			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B27-90	90	2.92	10/12/11		--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B27-100	100	-7.08			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B27-110	110	-17.08			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
MTCA Cleanup Level							**100/30[a,b]**	**2,000[b]**	**2,000[b]**	**0.03[b]**	**7[b]**	**6[b]**	**9[b]**	**0.67[c]**	**160[d]**	**1,600[d]**	**11[c]**	**0.03[b]**	**0.05[b]**	**0.7[e]**	**NE**

SoundEarth Strategies

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Seattle, Washington

Sample Location	Surface Elevation (NAVD88)	Sample ID	Depth (feet)	Elevation (NAVD88)	Date Sampled	Sampled By	Analytical Results (mg/kg)														
							GRPH[1]	DRPH[2]	ORPH[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]	Vinyl Chloride[3]	cis-1,2-DCE[3]	trans-1,2-DCE[3]	EDC[3]	TCE[3]	PCE[3]	PCE TCLP[4] (mg/L)	SVOCs[5][6]
B28/MW10	92.73	B28-05	5	87.73	10/10/11	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B28-10	10	82.73			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B28-15	15	77.73			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B28-20	20	72.73			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B28-25	25	67.73			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B28-30	30	62.73			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B28-35	35	57.73			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B28-40	40	52.73			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B28-45	45	47.73			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B28-50	50	42.73			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B28-55	55	37.73			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B28-60	60	32.73			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B28-65	65	27.73			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B28-70	70	22.73			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B28-75	75	17.73			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B28-80	80	12.73			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B28-85	85	7.73			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B28-90	90	2.73			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
B29	83.53891	B29-15	15	68.54	10/10/11	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B29-20	20	63.54			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B29-25	24	59.54			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B29-30	30	53.54			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B29-35	35	48.54			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B29-40	40	43.54			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B29-45	45	38.54			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B29-50	50	33.54			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B29-55	55	28.54			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B29-60	60	23.54			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B29-65	65	18.54			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B29-70	70	13.54			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
B30/MW11	88.23	B30-15	15	73.23	10/11/11	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B30-16.5	16.5	71.73			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		B30-18	18	70.23			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	0.026	--	--
		B30-20	20	68.23			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B30-21.5	21.5	66.73			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B30-23	23	65.23			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		B30-24	24	64.23			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		B30-30	30	58.23			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		B30-35	35	53.23			3.4	--	--	<0.02	<0.02	<0.02	<0.06	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B30-40	40	48.23			**730**	--	--	<0.1	<0.1	1.5	5.9	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B30-45	45	43.23			<2	--	--	<0.02	<0.02	<0.02	<0.06	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B30-50	50	38.23			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B30-55	55	33.23			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B30-60	60	28.23			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B30-65	65	23.23			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B30-70	70	18.23			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B30-75	75	13.23			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B30-80	80	8.23			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B30-83	83	5.23			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MTCA Cleanup Level							**100/30[a,b]**	**2,000[b]**	**2,000[b]**	**0.03[b]**	**7[b]**	**6[b]**	**9[b]**	**0.67[c]**	**160[d]**	**1,600[d]**	**11[c]**	**0.03[b]**	**0.05[b]**	**0.7[e]**	**NE**

Table 1
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Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Sample Location	Surface Elevation (NAVD88)	Sample ID	Depth (feet)	Elevation (NAVD88)	Date Sampled	Sampled By	Analytical Results (mg/kg)														
							GRPH[1]	DRPH[2]	ORPH[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]	Vinyl Chloride[3]	cis-1,2-DCE[3]	trans-1,2-DCE[3]	EDC[3]	TCE[3]	PCE[3]	PCE TCLP[4] (mg/L)	SVOCs[5][6]
B31/MW12	74.44	B31-80	80	-5.56	10/13/11	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B31-85	85	-10.56			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B31-90	90	-15.56			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B31-95	95	-20.56			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B31-100	100	-25.56			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
B32	85.01239	--	--		--	AESI	Geotech Boring - no samples collected														
B33	73.93	B33-05	5	68.93	10/13/11	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B33-10	10	63.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B33-15	15	58.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B33-20	20	53.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B33-25	25	48.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B33-30	30	43.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B33-35	35	38.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B33-40	40	33.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B33-45	45	28.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B33-50	50	23.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B33-55	55	18.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B33-60	60	13.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B33-65	65	8.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
B34	73.93	B34-25	25	48.93	10/14/11	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B34-30	30	43.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B34-35	35	38.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B34-40	40	33.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B34-45	45	28.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B34-50	50	23.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	0.029	--	--
		B34-55	55	18.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B34-60	60	13.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B34-65	65	8.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
B35	73.93	B35-05	5	68.93	10/14/11	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B35-10	10	63.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B35-15	15	58.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B35-20	20	53.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B35-25	25	48.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B35-30	30	43.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B35-35	35	38.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B35-40	40	33.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B35-45	45	28.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B35-50	50	23.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B35-55	55	18.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B35-60	60	13.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B35-65	65	8.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
MTCA Cleanup Level							**100/30[a,b]**	**2,000[b]**	**2,000[b]**	**0.03[b]**	**7[b]**	**6[b]**	**9[b]**	**0.67[c]**	**160[d]**	**1,600[d]**	**11[c]**	**0.03[b]**	**0.05[b]**	**0.7[e]**	**NE**

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							GRPH[1]	DRPH[2]	ORPH[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]	Vinyl Chloride[3]	cis-1,2-DCE[3]	trans-1,2-DCE[3]	EDC[3]	TCE[3]	PCE[3]	PCE TCLP[4] (mg/L)	SVOCs[5][6]
B36	73.93	B36-05	5	68.93	10/17/11	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B36-10	10	63.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B36-15	15	58.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	0.028	--	--
		B36-20	20	53.93			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		B36-25	25	48.93			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		B36-30	30	43.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	0.039	--	--
		B36-35	35	38.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B36-40	40	33.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.099**	--	--
		B36-45	45	28.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B36-50	50	23.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B36-55	55	18.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B36-60	60	13.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B36-65	65	8.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B36-70	70	3.93			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
B39	86.16	B39-3-4	3-4	82.66	01/16/12	AECOM	--	--	--	--	--	--	--	<0.0011	0.0029	<0.0011	<0.0011	0.0077	**5.1**	--	--
		B39-7-8	7-8	78.66			--	--	--	--	--	--	--	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	**0.088**	--	--
		B39-11-12	11-12	74.66			--	--	--	--	--	--	--	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	0.049	--	--
B40	89.28	B40-7-8	7-8	81.78	01/16/12	AECOM	--	--	--	--	--	--	--	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	0.0017	--	--
		B40-11-12	11-12	77.78			--	--	--	--	--	--	--	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	0.0013	--	--
B41	89.39	B41-7-8	7-8	81.89	01/16/12	AECOM	--	--	--	--	--	--	--	<0.0009	<0.0009	<0.0009	<0.0009	0.0015	**0.180**	--	--
		B41-11-12	11-12	77.89			--	--	--	--	--	--	--	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	**0.130**	--	--
B42	86.16	B42-3-4	3-4	82.66	01/16/12	AECOM	--	--	--	--	--	--	--	<0.001	<0.001	<0.001	<0.001	<0.001	**0.053**	--	--
		B42-7-8	7-8	78.66			--	--	--	--	--	--	--	<0.001	<0.001	<0.001	<0.001	<0.0012	0.028	--	--
B43	84.78	B43-3-4	3-4	81.28	01/16/12	AECOM	--	--	--	--	--	--	--	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	**0.220**	--	--
		B43-7-8	7-8	77.28			--	--	--	--	--	--	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.015	--	--
B44	82.73	B44-3-4	3-4	79.23	01/16/12	AECOM	--	--	--	--	--	--	--	<0.0009	0.019	<0.0009	<0.009	0.01	**1.7**	--	--
		B44-7-8	7-8	75.23			--	--	--	--	--	--	--	<0.0011	0.0013	<0.0011	<0.0011	**0.092**	**5.6**	--	--
		B44-11-12	11-12	71.23			--	--	--	--	--	--	--	<0.0011	<0.0011	<0.0011	<0.0011	0.0009	**0.057**	--	--
		B44-11-12	15-16	67.23			--	--	--	--	--	--	--	<0.0011	<0.0011	<0.0011	<0.0011	0.0007	0.045	--	--
B45	83.65	B45-3-4	3-4	80.15	01/16/12	AECOM	--	--	--	--	--	--	--	<0.0011	<0.063	<0.001	<0.001	0.0033	**7.7**	--	--
		B45-7-8	7-8	76.15			--	--	--	--	--	--	--	<0.0015	0.015	<0.0015	<0.0015	**0.035**	**11**	--	--
		B45-11-12	11-12	72.15			--	--	--	--	--	--	--	<0.001	0.0068	<0.001	<0.001	0.018	**6.4**	--	--
		B45-11-12	15-16	68.15			--	--	--	--	--	--	--	<0.0012	0.0006	<0.0012	<0.0012	0.0015	**0.078**	--	--
Boren Avenue North																					
B11/MW04	70.69	B11-05	5	65.69	05/25/11	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B11-10	10	60.69			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B11-15	15	55.69			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B11-20	20	50.69			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B11-25	25	45.69			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B11-30	30	40.69			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B11-35	35	35.69			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B11-40	40	30.69			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B11-45	45	25.69			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B11-50	50	20.69			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B11-55	55	15.69			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B11-60	60	10.69			<2	<50	<250	<0.02	<0.02	<0.02	<0.06	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B11-65	65	5.69			<2	<50	<250	<0.02	<0.02	<0.02	<0.06	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
MTCA Cleanup Level							**100/30[a,b]**	**2,000[b]**	**2,000[b]**	**0.03[b]**	**7[b]**	**6[b]**	**9[b]**	**0.67[c]**	**160[d]**	**1,600[d]**	**11[c]**	**0.03[b]**	**0.05[b]**	**0.7[e]**	**NE**

Table 1
Soil Analytical Results for Petroleum Hydrocarbons and VOCs
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Sample Location	Surface Elevation (NAVD88)	Sample ID	Depth (feet)	Elevation (NAVD88)	Date Sampled	Sampled By	Analytical Results (mg/kg)														
							GRPH[1]	DRPH[2]	ORPH[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]	Vinyl Chloride[3]	cis-1,2-DCE[3]	trans-1,2-DCE[3]	EDC[3]	TCE[3]	PCE[3]	PCE TCLP[4] (mg/L)	SVOCs[5][6]
B12/MW05	84.04	B12-10	10	74.04	05/25/11	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B12-15	15	69.04			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B12-20	20	64.04			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B12-25	25	59.04			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B12-30	30	54.04			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B12-35	35	49.04			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B12-45	45	39.04			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B12-55	55	29.04			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	0.044	--	ND
		B12-60	60	24.04			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	**0.057**	--	ND
		B12-70	70	14.04	05/26/11		--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	0.035	--	ND
		B12-75	75	9.04			<2	<50	<250	<0.02	<0.02	<0.02	<0.06	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B12-80	80	4.04			<2	<50	<250	<0.02	<0.02	<0.02	<0.06	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
B15/MW07	74.55	B15-30	30	44.55	05/26/11	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B15-35	35	39.55			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B15-40	40	34.55			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B15-45	45	29.55			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B15-50	50	24.55			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B15-60	60	14.55			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B15-65	65	9.55			<2	<50	<250	<0.02	<0.02	<0.02	<0.06	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B15-70	70	4.55			<2	<50	<250	<0.02	<0.02	<0.02	<0.06	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
B37/MW13	90.66	B37-15	15	75.66	10/18/11	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B37-20	20	70.66			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B37-25	25	65.66			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B37-30	30	60.66			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B37-35	35	55.66			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B37-40	40	50.66			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B37-45	45	45.66			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B37-50	50	40.66			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B37-55	55	35.66			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B37-60	60	30.66			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B37-65	65	25.66			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B37-70	70	20.66			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B37-75	75	15.66			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B37-80	80	10.66			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B37-85	85	5.66			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
B56/MW31	61.00	B56-20.0	20	41.00	09/11/19	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	--	<0.02	<0.025	--	--
		B56-30.0	30	31.00			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	--	<0.02	<0.025	--	--
		B56-40.0	40	21.00			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	--	<0.02	<0.025	--	--
Terry Avenue North																					
B49/MW15	58.79	B49-36	36	22.79	12/05/12	SoundEarth	<2	--	--	<0.03	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B49-41	41	17.79			<2	--	--	<0.03	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B48-46	46	12.79			<2	--	--	<0.03	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
Thomas Street																					
B38/MW14	104.4	B38-95	95	9.40	10/19/11	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B38-100	100	4.40			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B38-105	105	-0.60			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
MTCA Cleanup Level							**100/30[a,b]**	**2,000[b]**	**2,000[b]**	**0.03[b]**	**7[b]**	**6[b]**	**9[b]**	**0.67[c]**	**160[d]**	**1,600[d]**	**11[c]**	**0.03[b]**	**0.05[b]**	**0.7[e]**	**NE**

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Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Sample Location	Surface Elevation (NAVD88)	Sample ID	Depth (feet)	Elevation (NAVD88)	Date Sampled	Sampled By	Analytical Results (mg/kg)														
							GRPH[1]	DRPH[2]	ORPH[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]	Vinyl Chloride[3]	cis-1,2-DCE[3]	trans-1,2-DCE[3]	EDC[3]	TCE[3]	PCE[3]	PCE TCLP[4] (mg/L)	SVOCs[5][6]
B50/MW16	99.02	B50-06	6	93.02	12/06/12	SoundEarth	<2	--	--	<0.03	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B50-11	11	88.02			<2	--	--	<0.03	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B50-81	81	18.02	12/07/12		<2	--	--	<0.03	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
		B50-84	84	15.02			2,500	--	--	<0.03	<0.05	0.93	5	<0.05	0.12	<0.05	<0.05	0.10	2.3	--	--
		B50-86	86	13.02			170	--	--	<0.03	<0.05	<0.05	0.12	<0.05	<0.05	<0.05	<0.05	<0.03	0.14	--	--
		B50-91	91	8.02			<2	--	--	<0.03	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	--
B51	98.35	B51-72.5	72.5	25.85	03/25/14	SoundEarth	<2	--	--	<0.02	<0.02	<0.02	<0.06	<0.05	<0.05	<0.05	<0.05	<0.02	<0.025	--	--
		B51-80	80	18.35			<2	--	--	<0.02	<0.02	<0.02	<0.06	<0.05	<0.05	<0.05	<0.05	<0.02	<0.025	--	--
		B51-82.5	82.5	15.85			3,200	--	--	<0.2	<0.2	24	52	<0.05	0.060	<0.05	<0.05	<0.02	0.16	--	--
B52	99.54	B52-70	70	29.54	03/26/14	SoundEarth	<2	--	--	<0.02	<0.02	<0.02	<0.06	<0.05	<0.05	<0.05	<0.05	<0.02	<0.025	--	--
		B52-80	80	19.54			<2	--	--	<0.02	<0.02	<0.02	<0.06	<0.05	<0.05	<0.05	<0.05	<0.02	<0.025	--	--
		B52-82.5	82.5	17.04			65	--	--	<0.02	<0.02	0.081	0.30	<0.05	<0.05	<0.05	<0.05	<0.02	<0.025	--	--
		B52-85	85	14.54			<2	--	--	<0.02	<0.02	<0.02	<0.06	<0.05	<0.05	<0.05	<0.05	<0.02	0.082	--	--
B53	100.54	B53-70	70	30.54	03/27/14	SoundEarth		--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.02	<0.025	--	--
		B53-75	75	25.54				--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.02	<0.025	--	--
		B53-85	85	15.54				--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.02	<0.025	--	--
		B53-90	90	10.54			<2	--	--	<0.02	<0.02	<0.02	<0.06	<0.05	<0.05	<0.05	<0.05	<0.02	<0.025	--	--
Harrison Street																					
B08/MW01	68.68	B08-05	5	63.68	05/19/11	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B08-10	10	58.68			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B08-15	15	53.68			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B08-20	20	48.68			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B08-25	25	43.68			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B08-30	30	38.68			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B08-35	35	33.68			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B08-40	40	28.68			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B08-45	45	23.68			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B08-50	50	18.68			<2	<50	<250	<0.2	<0.02	<0.2	<0.06	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B08-55	55	13.68			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B08-60	60	8.68			<2	<50	<250	<0.02	<0.02	<0.02	<0.06	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
B09/MW02	70.92	B09-07	7	63.92	05/20/11	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B09-10	10	60.92			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B09-15	15	55.92			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B09-20	20	50.92			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B09-25	25	45.92			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B09-30	30	40.92			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B09-35	35	35.92			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B09-40	40	30.92			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B09-45	45	25.92			<2	<50	<250	<0.02	<0.02	<0.02	<0.06	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B09-50	50	20.92			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B09-55	55	15.92			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B09-60	60	10.92			<2	<50	<250	<0.02	<0.02	<0.02	<0.06	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B09-65	65	5.92			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B09-70	70	0.92			<2	<50	<250	<0.02	<0.02	<0.02	<0.06	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
MTCA Cleanup Level							**100/30[a,b]**	**2,000[b]**	**2,000[b]**	**0.03[b]**	**7[b]**	**6[b]**	**9[b]**	**0.67[c]**	**160[d]**	**1,600[d]**	**11[c]**	**0.03[b]**	**0.05[b]**	**0.7[e]**	**NE**

Table 1
Soil Analytical Results for Petroleum Hydrocarbons and VOCs
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Sample Location	Surface Elevation (NAVD88)	Sample ID	Depth (feet)	Elevation (NAVD88)	Date Sampled	Sampled By	Analytical Results (mg/kg)														
							GRPH[1]	DRPH[2]	ORPH[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]	Vinyl Chloride[3]	cis-1,2-DCE[3]	trans-1,2-DCE[3]	EDC[3]	TCE[3]	PCE[3]	PCE TCLP[4] (mg/L)	SVOCs[5][6]
B10/MW03	84.65	B10-05	5	79.65	05/24/11	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B10-10	10	74.65			<2	<50	<250	<0.02	<0.02	<0.02	<0.06	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B10-15	15	69.65			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B10-20	20	64.65			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B10-25	25	59.65			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B10-30	30	54.65			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B10-35	35	49.65			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B10-40	40	44.65			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B10-45	45	39.65			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B10-50	50	34.65			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B10-55	55	29.65			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B10-60	60	24.65			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B10-65	65	19.65			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B10-75	75	9.65			<2	<50	<250	<0.02	<0.02	<0.02	<0.06	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
		B10-80	80	4.65			<2	<50	<250	<0.02	<0.02	<0.02	<0.06	<0.05	<0.05	<0.05	<0.05	<0.03	<0.025	--	ND
B57/MW32	78.62	B57-30.0	20	58.62	09/10/19	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	--	<0.02	<0.025	--	--
		B57-40.0	30	48.62			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	--	<0.02	<0.025	--	--
		B57-50.0	60	18.62			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	--	<0.02	<0.025	--	--
		B57-60.0	80	-1.38			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	--	<0.02	<0.025	--	--
B58/MW33	56.94	B58-20.0	20	36.94	09/12/19	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	--	<0.02	<0.025	--	--
		B58-30.0	60	-3.06			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	--	<0.02	<0.025	--	--
		B58-40.0	80	-23.06			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	--	<0.02	<0.025	--	--
Onni Property																					
B54/MW29	102.06	B54-20.0	20	82.06	09/17/19	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	--	<0.02	<0.025	--	--
		B54-30.0	30	72.06			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	--	**0.093**	<0.025	--	--
		B54-40.0	40	62.06			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	--	<0.02	<0.025	--	--
		B54-60.0	60	42.06			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	--	<0.02	<0.025	--	--
		B54-80.0	80	22.06			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	--	<0.02	<0.025	--	--
B55/MW30	102.34	B55-20.0	20	82.34	09/18/19	SoundEarth	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	--	**0.033**	<0.025	--	--
		B55-30.0	30	72.34			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	--	<0.02	<0.025	--	--
		B55-40.0	40	62.34			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	--	<0.02	<0.025	--	--
		B55-60.0	60	42.34			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	--	<0.02	<0.025	--	--
		B55-80.0	80	22.34			--	--	--	--	--	--	--	<0.05	<0.05	<0.05	--	<0.02	<0.025	--	--
MTCA Cleanup Level							**100/30[a,b]**	**2,000[b]**	**2,000[b]**	**0.03[b]**	**7[b]**	**6[b]**	**9[b]**	**0.67[c]**	**160[d]**	**1,600[d]**	**11[c]**	**0.03[b]**	**0.05[b]**	**0.7[e]**	**NE**

NOTES:

Red denotes concentration exceeds MTCA Soil cleanup level.

[1]Analyzed by NWTPH Method NWTPH-Gx.

[2]Analyzed by NWTPH Method NWTPH-Dx.

[3]Analyzed by EPA Method 8260C or 8021B.

[4]Analyzed by SW8260/TCLP ZHE.

[5]Analyzed by EPA Method 8270C.

[6]Bis(2-ethylhexyl) phthalate was the only SVOC detected, the concentrations of which are well below the MTCA Method B cleanup level of 71 mg/kg. The reported results are the highest laboratory detection limit for all SVOCs analyzed or the concentration of (2-bis(2-ethylhexyl) phthalate, if detected in the sample.

[a]100 mg/kg when benzene is not present and 30 mg/kg when benzene is present.

[b]MTCA Method A Soil Cleanup Levels for Unrestricted Land Uses, Table 740-1 of Section 900 of Chapter 173-340 of WAC, revised November 2007.

[c]MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Soil, Method B, Carcinogen, Standard Formula Value, CLARC Website <https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>.

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

[d]Protection of Environment, Title 40 Part 261.24 of CFR, Table 1 - Maximum Concentration of Contaminants for the Toxicity Characteristic.

Laboratory Note:

[x]The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

-- = not analyzed, measured, or calculated
< = analytical result does not exceed laboratory reporting limit
AECOM = AECOM Technology Corporation
AESI = Associated Earth Sciences, Inc.
CFR = Code of Federal Regulations
CLARC = cleanup levels and risk calculations
DCE = dichloroethene
DRPH = diesel-range petroleum hydrocarbons
EDC = 1,2-dichloroethane (ethylene dichloride)
EPA = US Environmental Protection Agency
GRPH = gasoline-range petroleum hydrocarbons
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
MTCA = Washington State Model Toxics Control Act
NAVD88 = North American Vertical Datum 1988
ND = not detected above the laboratory reporting limit
NE = not established
NR = not reported
NWTPH = northwest total petroleum hydrocarbon
ORPH = oil-range petroleum hydrocarbons
PCE = tetrachloroethene
SoundEarth = SoundEarth Strategies, Inc.
SVOC = semivolatile organic compound
TCE = trichloroethene
TCLP = Toxicity Characteristic Leaching Procedure
WAC = Washington Administrative Code

Table 2
Summary of Groundwater Elevations
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Well	TOC Elevation[1] (feet)	Depth to Top of Well Screen (feet approximate)	Depth to Bottom of Well Screen (feet approximate)	Top of Well Screen Elevation (feet NAVD88 approximate)	Bottom of Well Screen Elevation (feet NAVD88 approximate)	Date	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet NAVD88)
Troy Laundry Property								
MW06	74.78	60	75	15	0	05/31/11	58.70	16.08
						10/20/11	58.91	15.87
						12/13/12	58.71	16.07
						08/29/13	60.30	14.48
	DECOMMISSIONED 2013							
MW08	92.88	105	110	-12	-17	10/20/11	77.18	15.70
						08/29/13	78.10	14.78
	DECOMMISSIONED 2013							
MW09	92.92	105	110	-12	-17	10/20/11	77.24	15.68
						08/29/13	78.51	14.41
	DECOMMISSIONED 2013							
MW10	92.73	75	90	18	3	10/20/11	77.14	15.59
						12/13/12	77.01	15.72
						08/29/13	78.28	14.45
	DECOMMISSIONED 2013							
MW11	88.23	68	83	20	5	10/20/11	72.43	15.80
						12/13/12	72.29	15.94
						08/29/13	73.78	14.45
	DECOMMISSIONED 2013							
MW12	74.44	95	100	-21	-26	10/20/11	58.71	15.73
						08/29/13	59.99	14.45
	DECOMMISSIONED 2013							
MW17	35.72	22	37	14	-1	05/05/15	25.26	10.46
						08/03/15	24.82	10.90
						12/07/15	25.49	10.23
						03/07/16	24.98	10.74
						07/12/16	24.61	11.11
						10/18/16	23.14	12.58
						01/24/17	20.84	14.88
						05/31/17	22.75	12.97
						09/21/17	25.73	9.99
						12/14/17	25.14	10.58
						03/08/18	23.04	12.68
						06/28/18	22.00	13.72
						09/19/18	21.64	14.08
						12/13/18	21.42	14.30
						06/13/19	20.93	14.79
						10/09/19	21.30	14.42
						12/04/19	22.04	13.68
						06/25/20	24.13	11.59
						12/09/20	24.74	10.98
						06/22/21	23.38	12.34
						12/14/21	21.12	14.60
						06/06/22	21.00	14.72
						12/13/22	20.70	15.02
						06/20/23	20.39	15.33
						12/04/23	20.32	15.40
						06/24/24	20.15	15.57
						12/16/24	19.59	16.13

Table 2
Summary of Groundwater Elevations
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Well	TOC Elevation[1] (feet)	Depth to Top of Well Screen (feet approximate)	Depth to Bottom of Well Screen (feet approximate)	Top of Well Screen Elevation (feet NAVD88 approximate)	Bottom of Well Screen Elevation (feet NAVD88 approximate)	Date	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet NAVD88)
MW18	35.34	35	55	0	-20	05/05/15	24.92	10.42
						08/03/15	24.49	10.85
						12/07/15	25.21	10.13
						03/07/16	24.64	10.70
						07/12/16	24.23	11.11
						10/18/16	22.81	12.53
						01/24/17	20.98	14.36
						05/31/17	22.49	12.85
						09/21/17	25.36	9.98
						12/14/17	24.70	10.64
						03/08/18	22.60	12.74
						06/28/18	21.70	13.64
						09/19/18	21.34	14.00
						12/13/18	21.12	14.22
						06/13/19	20.62	14.72
						10/09/19	20.50	14.84
						12/04/19	22.15	13.19
						06/25/20	23.81	11.53
						12/09/20	24.42	10.92
						06/22/21	23.01	12.33
						12/14/21	21.81	13.53
						06/06/22	20.73	14.61
						12/13/22	20.44	14.90
						06/20/23	20.15	15.19
						12/04/23	19.99	15.35
						06/24/24	19.88	15.46
						12/16/24	19.55	15.79
MW19	37.69	35	55	3	-17	05/05/15	27.24	10.45
						08/03/15	26.82	10.87
						12/07/15	27.51	10.18
						03/07/16	26.97	10.72
						07/12/16	26.57	11.12
						10/18/16	25.12	12.57
						01/24/17	22.97	14.72
						05/31/17	24.74	12.95
						09/21/17	27.60	10.09
						12/14/17	26.97	10.72
						03/08/18	24.89	12.80
						06/28/18	24.00	13.69
						09/19/18	23.65	14.04
						12/13/18	25.41	12.28
						06/13/19	22.95	14.74
						10/09/19	27.60	10.09
						12/04/19	23.33	14.36
						06/25/20	26.16	11.53
						12/09/20	26.76	10.93
						06/22/20	25.31	12.38
						12/14/21	24.13	13.56
						06/06/22	23.04	14.65
						12/13/22	22.74	14.95
						06/20/23	22.47	15.22
						12/04/23	22.31	15.38
						06/24/24	22.19	15.50
						12/16/24	21.92	15.77

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MW20	35.63	35	55	1	-19	05/05/15	25.24	10.39
						08/03/15	24.44	11.19
						12/07/15	25.50	10.13
						03/07/16	24.94	10.69
						07/12/16	24.62	11.01
						10/18/16	23.13	12.50
						01/24/17	21.32	14.31
						05/31/17	22.70	12.93
						09/21/17	25.53	10.10
						12/14/17	24.91	10.72
						03/08/18	22.89	12.74
						06/28/18	22.01	13.62
						09/19/18	21.67	13.96
						12/13/18	21.43	14.20
						06/13/19	20.95	14.68
						10/09/19	24.25	11.38
						12/04/19	21.45	14.18
						06/25/20	23.99	11.64
						12/09/20	24.63	11.00
						06/22/21	23.27	12.36
						12/14/21	22.12	13.51
						06/06/22	21.04	14.59
						12/13/22	20.74	14.89
						06/20/23	20.46	15.17
						12/04/23	20.27	15.36
						06/24/24	20.20	15.43
						12/16/24	19.94	15.69
MW21	35.58	35	55	1	-19	05/05/15	25.21	10.37
						08/03/15	24.82	10.76
						12/07/15	25.49	10.09
						03/07/16	24.90	10.68
						07/12/16	24.56	11.02
						10/18/16	23.00	12.58
						01/24/17	21.54	14.04
						05/31/17	23.37	12.21
						09/21/17	25.96	9.62
						12/14/17	25.20	10.38
						03/08/18	24.10	11.48
						06/28/18	22.89	12.69
						09/19/18	INACCESSIBLE	
						12/13/18	22.59	12.99
						06/13/19	23.70	11.88
						10/09/19	26.52	9.06
						12/04/19	20.50	15.08
						06/25/20	23.83	11.75
						12/09/20	24.60	10.98
						06/22/21	23.21	12.37
						12/14/21	22.08	13.50
						06/06/22	20.99	14.59
						12/13/22	20.70	14.88
						06/20/23	20.43	15.15
						12/04/23	20.26	15.32
						06/24/24	20.16	15.42
						12/16/24	19.89	15.69

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MW22	35.47	35	55	0	-20	05/05/15	25.14	10.33
						08/03/15	24.75	10.72
						12/07/15	25.41	10.06
						03/07/16	24.86	10.61
						07/12/16	24.52	10.95
						10/18/16	23.05	12.42
						01/24/17	21.68	13.79
						05/31/17	23.45	12.02
						09/21/17	26.20	9.27
						12/14/17	25.60	9.87
						03/08/18	23.65	11.82
						06/28/18	23.30	12.17
						09/19/18	INACCESSIBLE	
						12/13/18	21.62	13.85
						06/13/19	--	--
						10/09/19	20.73	14.74
						12/04/19	20.18	15.29
						06/25/20	23.75	11.72
						12/09/20	24.39	11.08
						06/22/21	23.10	12.37
						12/14/21	21.94	13.53
						06/06/22	20.79	14.68
						12/13/22	20.61	14.86
						06/20/23	20.32	15.15
						12/04/23	20.15	15.32
						06/24/24	20.09	15.38
						12/16/24	19.79	15.68
MW23	35.43	36	56	-1	-21	05/05/15	25.08	10.35
						08/03/15	24.72	10.71
						12/07/15	25.34	10.09
						03/07/16	24.77	10.66
						07/12/16	24.54	10.89
						10/18/16	22.98	12.45
						01/24/17	21.06	14.37
						05/31/17	22.41	13.02
						09/21/17	25.11	10.32
						12/14/17	24.65	10.78
						03/08/18	22.69	12.74
						06/28/18	21.03	14.40
						09/19/18	21.50	13.93
						12/13/18	21.22	14.21
						06/13/19	20.80	14.63
						10/09/19	22.03	13.40
						12/04/19	21.22	14.21
						06/25/20	23.75	11.68
						12/09/20	24.40	11.03
						06/22/21	23.07	12.36
						12/14/21	21.89	13.54
						06/06/22	20.84	14.59
						12/13/22	20.57	14.86
						06/20/23	20.29	15.14
						12/04/23	20.08	15.35
						06/24/24	20.02	15.41
						12/16/24	19.74	15.69

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MW24	34.88	35	55	0	-20	05/05/15	24.47	10.41
						08/03/15	24.06	10.82
						12/07/15	24.72	10.16
						03/07/16	24.12	10.76
						07/12/16	23.76	11.12
						10/18/16	22.19	12.69
						01/24/17	19.95	14.93
						05/31/17	23.29	11.59
						09/21/17	INACCESSIBLE	
						12/14/17	24.22	10.66
						03/08/18	22.10	12.78
						06/28/18	21.98	12.90
						09/19/18	20.81	14.07
						12/13/18	20.65	14.23
						06/13/19	20.18	14.70
						10/09/19	21.65	13.23
						12/04/19	21.40	13.48
						06/25/20	23.27	11.61
						12/09/20	23.91	10.97
						06/22/21	22.52	12.36
						12/14/21	21.37	13.51
						06/06/22	20.27	14.61
						12/13/22	19.98	14.90
						06/20/23	19.59	15.29
						12/04/23	19.59	15.29
						06/24/24	19.42	15.46
						12/16/24	19.18	15.70
MW25	41.38	35.5	55.5	6	-14	05/05/15	30.85	10.53
						08/03/15	30.60	10.78
						12/07/15	31.30	10.08
						03/07/16	30.71	10.67
						07/12/16	30.44	10.94
						10/18/16	28.95	12.43
						01/24/17	27.07	14.31
						05/31/17	28.24	13.14
						09/21/17	31.09	10.29
						12/14/17	30.52	10.86
						03/08/18	28.54	12.84
						06/28/18	27.69	13.69
						09/19/18	27.32	14.06
						12/13/18	27.12	14.26
						06/13/19	26.64	14.74
						10/09/19	27.79	13.59
						12/04/19	26.63	14.75
						06/25/20	29.70	11.68
						12/09/20	30.33	11.05
						06/22/21	28.97	12.41
						12/14/21	27.78	13.60
						06/06/22	26.70	14.68
						12/13/22	26.45	14.93
						06/20/23	26.06	15.32
						12/04/23	25.91	15.47
						06/24/24	25.82	15.56
						12/16/24	25.56	15.82

Table 2
Summary of Groundwater Elevations
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Well	TOC Elevation[1] (feet)	Depth to Top of Well Screen (feet approximate)	Depth to Bottom of Well Screen (feet approximate)	Top of Well Screen Elevation (feet NAVD88 approximate)	Bottom of Well Screen Elevation (feet NAVD88 approximate)	Date	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet NAVD88)
IW91	35.82	20	55	16	-19	05/05/15	25.56	10.26
						08/03/15	25.19	10.63
						12/07/15	25.84	9.98
						03/07/16	25.24	10.58
						07/12/16	24.90	10.92
						10/18/16	23.41	12.41
						01/24/17	21.61	14.21
						05/31/17	22.79	13.03
						09/21/17	25.42	10.40
						12/14/17	24.96	10.86
						03/08/18	23.08	12.74
						06/28/18	22.30	13.52
						09/19/18	21.95	13.87
						12/13/18	21.69	14.13
						06/13/19	21.23	14.59
						10/09/19	23.90	11.92
						12/04/19	21.11	14.71
						06/25/20	23.98	11.84
						12/09/20	24.63	11.19
						06/22/21	23.45	12.37
						12/14/21	22.31	13.51
						06/06/22	21.33	14.49
						12/13/22	21.03	14.79
						12/04/23	19.58	16.24
						06/24/24	20.50	15.32
						12/16/24	20.21	15.61
Boren Avenue North								
MW04	70.69	50	65	21	6	05/27/11	52.22	18.47
						10/20/11	52.82	17.87
						12/10/12	52.88	17.81
						08/29/13	57.25	13.44
	70.82					05/05/15	58.22	12.60
						08/03/15	56.87	13.95
						12/07/15	58.82	12.00
						03/07/16	59.25	11.57
						07/12/16	58.49	12.33
						10/18/16	57.02	13.80
						01/24/17	54.06	16.76
						05/31/17	55.59	15.23
						09/21/17	62.08	8.74
						12/14/17	62.03	8.79
						03/08/18	57.70	13.12
						06/28/18	54.94	15.88
						09/19/18	54.38	16.44
						12/13/18	54.26	16.56
						06/13/19	53.61	17.21
						10/09/19	55.40	15.42
						12/04/19	54.04	16.78
						06/25/20	62.05	8.77
						12/09/20	62.18	8.64
						06/22/21	60.06	10.76
						12/14/21	55.94	14.88
						06/06/22	53.67	17.15
						12/13/22	53.63	17.19
						06/20/23	53.25	17.57
						12/04/23	53.38	17.44
						06/24/24	53.02	17.80
						12/16/24	52.99	17.83

SoundEarth Strategies

Table 2
Summary of Groundwater Elevations
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Well	TOC Elevation[1] (feet)	Depth to Top of Well Screen (feet approximate)	Depth to Bottom of Well Screen (feet approximate)	Top of Well Screen Elevation (feet NAVD88 approximate)	Bottom of Well Screen Elevation (feet NAVD88 approximate)	Date	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet NAVD88)
MW05	84.04	65	80	19	4	05/27/11	67.40	16.64
						10/20/11	67.91	16.13
						12/10/12	68.54	15.50
						08/29/13	69.72	14.32
						05/05/15	INACCESSIBLE	
						08/03/15	INACCESSIBLE	
	DECOMMISSIONED 2015							
MW07	74.55	55	70	20	5	05/31/11	56.33	18.22
						10/20/11	56.87	17.68
						12/10/12	56.96	17.59
						08/29/13	60.95	13.60
	74.68					05/05/15	62.69	11.99
						08/03/15	61.67	13.01
						12/07/15	63.19	11.49
						03/07/16	63.22	11.46
						07/12/16	62.82	11.86
						10/18/16	61.26	13.42
						01/24/17	58.41	16.27
						05/31/17	59.90	14.78
						09/21/17	65.17	9.51
						12/14/17	INACCESSIBLE	
						03/08/18	61.76	12.92
						06/28/18	59.45	15.23
						09/19/18	59.07	15.61
						12/13/18	58.87	15.81
						06/13/19	57.93	16.75
						10/09/19	61.02	13.66
						12/04/19	58.38	16.30
						06/30/20	64.92	9.76
						12/09/20	65.28	9.40
						06/22/21	63.21	11.47
						12/14/21	60.22	14.46
						06/06/22	58.00	16.68
						12/13/22	57.85	16.83
						06/20/23	57.51	17.17
						12/04/23	57.54	17.14
						06/24/24	57.18	17.50
						12/16/24	57.13	17.55
MW13	90.66	70	85	21	-15	10/20/11	74.69	15.97
						12/10/12	75.38	15.28
						08/29/13	76.23	14.43
	90.86					05/05/15	INACCESSIBLE	
						08/03/15	80.07	10.79
						12/07/15	80.73	10.13
						03/07/16	80.07	10.79
						07/12/16	80.03	10.83
						10/18/16	78.16	12.70
						01/24/17	75.56	15.30
						05/31/17	77.40	13.46
						09/21/17	80.46	10.40
						12/14/17	80.19	10.67
						03/08/18	78.13	12.73
						06/28/18	77.01	13.85
						09/19/18	76.68	14.18
						12/13/18	76.52	14.34
						06/13/19	76.00	14.86
						10/09/19	81.45	9.41
						12/04/19	76.00	14.86
						06/25/20	79.24	11.62
						12/09/20	79.98	10.88
						06/22/21	78.58	12.28
						12/14/21	77.21	13.65
						06/06/22	75.95	14.91
						12/13/22	75.75	15.11
						06/20/23	75.37	15.49
						12/04/23	75.27	15.59
						06/24/24	75.11	15.75
						12/16/24	74.87	15.99

Table 2
Summary of Groundwater Elevations
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Well	TOC Elevation[1] (feet)	Depth to Top of Well Screen (feet approximate)	Depth to Bottom of Well Screen (feet approximate)	Top of Well Screen Elevation (feet NAVD88 approximate)	Bottom of Well Screen Elevation (feet NAVD88 approximate)	Date	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet NAVD88)
MW27	83.82	90	105	-6	-21	12/07/15	73.86	9.96
						03/07/16	73.23	10.59
						07/12/16	73.01	10.81
						10/18/16	71.38	12.44
						01/24/17	69.57	14.25
						05/31/17	70.89	12.93
						09/21/17	73.87	9.95
						12/14/17	73.25	10.57
						03/08/18	71.10	12.72
						06/28/18	70.20	13.62
						09/19/18	69.85	13.97
						12/13/18	69.69	14.13
						06/13/19	69.19	14.63
						10/09/19	70.30	13.52
						12/04/19	69.11	14.71
						06/30/20	72.38	11.44
						12/09/20	73.10	10.72
						06/22/21	71.61	12.21
						12/14/21	70.32	13.50
						06/06/22	69.25	14.57
						12/13/22	68.91	14.91
						06/20/23	68.58	15.24
						12/04/23	68.50	15.32
						06/24/24	68.33	15.49
						12/16/24	67.98	15.84
MW31	60.75	40	60	21	1	10/09/19	46.49	14.26
						12/04/19	44.16	16.59
						06/30/20	55.35	5.40
						12/09/20	55.66	5.09
						06/22/21	49.39	11.36
						12/14/21	45.72	15.03
						06/06/22	43.74	17.01
						12/13/22	43.68	17.07
						06/20/23	43.32	17.43
						12/04/23	43.45	17.30
						06/24/24	43.02	17.73
						12/16/24	43.07	17.68
Terry Avenue North								
MW15	58.79	41	56	18	3	12/10/12	40.78	18.01
						08/29/13	45.37	13.42
	58.89					05/05/15	45.86	13.03
						08/03/15	44.81	14.08
						12/07/15	47.08	11.81
						03/07/16	47.58	11.31
						07/12/16	46.73	12.16
						10/18/16	44.97	13.92
						01/24/17	42.05	16.84
						05/31/17	43.08	15.81
						09/21/17	49.62	9.27
						12/14/17	49.92	8.97
						03/08/18	45.80	13.09
						06/28/18	42.95	15.94
						09/19/18	42.35	16.54
						12/13/18	42.26	16.63
						06/13/19	41.65	17.24
						10/09/19	41.80	17.09
						12/04/19	42.00	16.89
						06/25/20	51.75	7.14
						12/09/20	52.94	5.95
						06/22/21	NM	NM
	WELL DAMAGED 2021							

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Troy Laundry Seattle Site
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Seattle, Washington

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MW34	59.09	40	55	19	4	12/14/21	44.19	14.90
						06/06/22	41.89	17.20
						12/13/22	41.74	17.35
						06/20/23	41.43	17.66
						12/04/23	41.54	17.55
						06/24/24	41.20	17.89
						12/16/24	41.14	17.95
Thomas Street								
MW14	104.4	90	105	14	-1	10/20/11	88.81	15.59
						12/13/12	88.66	15.74
						08/29/13	89.99	14.41
	DECOMMISSIONED 2013							
MW16	99.02	91	106	8	-7	12/10/12	83.47	15.55
						08/29/13	84.59	14.43
	99.18					05/05/15	88.87	10.31
						08/03/15	88.53	10.65
						12/07/15	89.15	10.03
						03/07/16	88.54	10.64
						07/12/16	88.41	10.77
						10/18/16	86.74	12.44
						01/24/17	84.71	14.47
						05/31/17	86.04	13.14
						09/21/17	88.85	10.33
						12/14/17	88.43	10.75
						03/08/18	86.51	12.67
	WELL DAMAGED 2018							
MW28	99.18	90	105	9.18	-5.82	06/13/19	84.54	14.64
						10/08/19	84.75	14.43
						12/04/19	84.48	14.70
						06/25/20	87.38	11.80
						12/09/20	88.1	11.08
						05/21/21	87.23	11.95
						06/22/21	86.77	12.41
						08/17/21	86.65	12.53
						09/21/21	86.56	12.62
						12/14/21	85.49	13.69
						06/06/22	84.44	14.74
						12/13/22	84.29	14.89
						06/20/23	83.93	15.25
						12/04/23	83.33	15.85
						06/24/24	83.64	15.54
						12/16/24	83.31	15.87
Fairview Avenue North								
MW-C	107.75	85	100	23	8	08/29/13	93.32	14.43
						05/05/15	97.64	10.11

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Seattle, Washington

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Harrison Street								
MW01	68.68	45	60	24	9	05/25/11	50.59	18.09
						10/20/11	51.03	17.65
						12/10/12	51.24	17.44
						08/29/13	54.35	14.33
	68.82					05/05/15	58.11	10.71
						08/03/15	INACCESSIBLE	
						12/07/15	58.60	10.22
						03/07/16	57.69	11.13
	68.65					07/12/16	57.42	11.23
						10/18/16	55.65	13.00
						01/24/17	52.27	16.38
						05/31/17	54.69	13.96
						09/21/17	58.91	9.74
						12/14/17	58.14	10.51
						03/08/18	55.84	12.81
						06/28/18	54.20	14.45
						09/19/18	53.93	14.72
						12/13/18	53.05	15.60
						06/13/19	52.34	16.31
						10/09/19	56.65	12.00
						12/04/19	52.76	15.89
						06/25/20	57.08	11.57
						12/09/20	57.84	10.81
						06/22/21	56.32	12.33
						12/14/21	54.79	13.86
						06/06/22	52.9	15.75
						12/13/22	52.22	16.43
						06/20/23	51.56	17.09
						12/04/23	51.88	16.77
						06/24/24	51.13	17.52
						12/16/24	51.12	17.53
MW02	70.92	55	70	16	1	05/25/11	54.84	16.08
						10/20/11	55.08	15.84
						12/10/12	55.27	15.65
						08/29/13	56.48	14.44
						05/05/15	INACCESSIBLE	
						08/03/15	INACCESSIBLE	
	DECOMMISSIONED 2015							
MW03	84.65	65	80	20	5	05/27/11	68.75	15.90
						10/20/11	68.97	15.68
						12/10/12	69.21	15.44
						08/29/13	70.21	14.44
						05/05/15	INACCESSIBLE	
						08/03/15	INACCESSIBLE	
	DECOMMISSIONED 2015							

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MW26	70.57	75	90	-4	-19	12/07/15	60.42	10.15
						03/07/16	59.82	10.75
						07/12/16	59.52	11.05
						10/18/16	58.10	12.47
						01/24/17	56.10	14.47
						05/31/17	57.79	12.78
						09/21/17	60.94	9.63
						12/14/17	60.11	10.46
						03/08/18	57.79	12.78
						06/28/18	56.83	13.74
						09/19/18	56.50	14.07
						12/13/18	56.34	14.23
						06/13/19	55.82	14.75
						10/09/19	57.28	13.29
						12/04/09	55.80	14.77
						06/25/20	59.19	11.38
						12/09/20	59.85	10.72
						06/22/21	58.25	12.32
						12/14/21	56.99	13.58
						06/06/22	55.90	14.67
						12/13/22	55.65	14.92
						06/20/23	55.20	15.37
						12/04/23	55.09	15.48
						06/24/24	54.98	15.59
						12/16/24	54.68	15.89
MW32	78.38	60	75	18	3	10/09/19	65.80	12.58
						12/04/19	62.63	15.75
						06/25/20	03/06/00	11.50
						12/09/20	03/07/00	10.98
						06/22/21	66.19	12.19
						12/14/21	64.93	13.45
						06/06/22	63.75	14.63
						12/13/22	63.46	14.92
						06/20/23	63.10	15.28
						12/04/23	63.00	15.38
						06/24/24	62.85	15.53
						12/16/24	INACCESSIBLE	
MW33	56.62	31	51	26	6	10/09/19	40.30	16.32
						12/04/19	39.93	16.69
						06/30/20	50.69	5.93
						12/09/20	WELL DRY	
						06/22/21	46.00	10.62
						12/14/21	41.70	14.92
						06/06/22	39.52	17.10
						12/13/22	39.50	17.12
						06/20/23	39.11	17.51
						12/04/23	39.25	17.37
						06/24/24	38.89	17.73
						12/16/24	38.84	17.78
SMW01	49.45	30	40	19	9	08/29/13	36.78	12.67
SMW02	49.26	30	40	19	9	08/29/13	36.67	12.59
SMW06	48.63	30	40	19	9	08/29/13	36.39	12.24
SMW08	49.30	30	40	19	9	08/29/13	36.69	12.61

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Westlake Avenue North								
SMW09	48.25	30	40	18	8	08/29/13	35.84	12.41
Onni Property								
MW29	101.72	82	102	20	0	10/09/19	86.91	14.81
						12/04/19	87.03	14.69
						06/25/20	89.84	11.88
						12/09/20	90.57	11.15
						06/22/21	89.29	12.43
						12/14/21	88.09	13.63
						06/06/22	87.06	14.66
	DECOMMISSIONED 2022							
MW30	101.97	84	104	18	-2	10/09/19	87.95	14.02
						12/04/19	87.25	14.72
						06/25/20	90.12	11.85
						12/09/20	91.10	10.87
						06/22/21	89.62	12.35
						12/14/21	88.31	13.66
						06/06/22	88.28	13.69
	DECOMMISSIONED 2022							
ONNI-MW-4	108.84	93	105	16	4	06/25/20	97.13	11.71
						12/09/20	97.83	11.01
						06/22/21	96.63	12.21
						12/14/21	95.43	13.41
						06/06/22	94.26	14.58
	DECOMMISSIONED 2022							
ONNI-MW-5	112.78	93	105	20	8	02/06/20	93.10	19.68
						06/25/20	95.65	17.13
						12/09/20	96.30	16.48
						06/22/21	95.14	17.64
						12/14/21	94.04	18.74
						06/06/22	97.95	14.83
	DECOMMISSIONED 2022							
ONNI-MW-9	107.10	95	110	12	-3	12/14/21	93.60	13.50
						06/06/22	92.68	14.42
	DECOMMISSIONED 2022							
MW29R	53.65	32	52	21.65	1.65	08/24/23	38.60	15.05
						12/04/23	INACCESSIBLE	
						06/24/24	38.28	15.37
						12/16/24	38.02	15.63
MW35	53.65	41	56	12.65	-2.35	08/24/23	38.64	15.01
						12/04/23	INACCESSIBLE	
						06/24/24	38.39	15.26
						12/16/24	38.08	15.57
North-Adjoining Property								
SLU-MW01[2]	53.43	35	45	18	8	08/29/13	40.00	13.43
	DECOMMISSIONED 2013							
SLU-MW02[2]	52.76	30	40	23	13	08/29/13	WELL DRY	--
	DECOMMISSIONED 2013							

NOTES:

[1]TOC elevations surveyed relative to NAVD88.

[2]Groundwater elevation data compiled from reports on file at the Washington State Department of Ecology.

-- = not analyzed, measured, or calculated

NAVD88 = North American Vertical Datum of 1988

TOC = top of casing

SoundEarth Strategies

Table 3
Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	PCE[1] (µg/L)	TCE[1] (µg/L)	cis-1-2-DCE[1] (µg/L)	trans-1-2-DCE[1] (µg/L)	Vinyl Chloride[1] (µg/L)
Troy Laundry Property								
MW06	MW06-20110531	05/31/11	SoundEarth	3.1	8.2	150[ve]	<1	0.76
	MW06-20111012	10/12/11	SoundEarth	3.6	11	120	<1	0.76
	MW06-20130909	09/09/13	SoundEarth	3.8	4.5	150	<1	0.93
	DECOMMISSIONED 2013							
MW08	MW08-20111013	10/13/11	SoundEarth	<1	<1	<1	<1	<0.2
	MW08-20130910	09/10/13	SoundEarth	<1	<1	<1	<1	<0.2
	DECOMMISSIONED 2013							
MW09	MW09-20111013	10/13/11	SoundEarth	<1	16	22	<1	<0.2
	MW09-20130910	09/10/13	SoundEarth	1.6	15	2.0	<1	<0.2
	DECOMMISSIONED 2013							
MW10	MW10-20111012	10/12/11	SoundEarth	<1	<1	<1	<1	<0.2
	MW10-20130909	09/09/13	SoundEarth	<1	<1	<1	<1	<0.2
	DECOMMISSIONED 2013							
MW11	MW11-20111013	10/13/11	SoundEarth	21	2.6	5.6	<1	<0.2
	MW11-20130909	09/09/13	SoundEarth	39	3.8	3.6	<1	<0.2
	DECOMMISSIONED 2013							
MW12	MW12-20111017	10/17/11	SoundEarth	<1	19	1.3	<1	<0.2
	MW12-20130909	09/09/13	SoundEarth	<1	20	<1	<1	<0.2
	DECOMMISSIONED 2013							
MW17	MW17-20150506	05/06/15	SoundEarth	<1	2.2	<1	<1	<0.2
	MW17-20150804	08/07/15	SoundEarth	<1	1.5	<1	<1	<0.2
	MW17-20151207	12/07/15	SoundEarth	<1	1.5	<1	<1	<0.2
	MW17-20160308	03/08/16	SoundEarth	<1	<1	<1	<1	<0.2
	MW17-20160714	07/14/16	SoundEarth	<1	1.2	<1	<1	<0.2
	MW17-20161020	10/20/16	SoundEarth	<1	2.1	<1	<1	<0.2
	MW17-20170126	01/26/17	SoundEarth	<1	1.9	<1	<1	<0.2
	MW17-20170601	06/01/17	SoundEarth	<1	2.5	<1	<1	<0.2
	MW17-20170923	09/23/17	SoundEarth	<1	2.1	1.2	<1	<0.2
	MW17-20171216	12/16/17	SoundEarth	<1	2.5	1.7	<1	<0.2
	MW17-20180310	03/10/18	SoundEarth	<1	2.6	1.5	<1	<0.2
	MW17-20180630	06/30/18	SoundEarth	<1	2.8	2.2	<1	<0.2
	MW17-20180922	09/22/18	SoundEarth	<1	2.7	2.0	<1	<0.2
	MW17-20181215	12/15/18	SoundEarth	<1	2.9	2.2	<1	<0.2
	MW17-20190615	06/15/19	SoundEarth	<1	3.4	2.2	<1	<0.2
	MW17-20191207	12/07/19	SoundEarth	<1	3.9	2.2	<1	<0.2
	MW17-20200627	06/27/20	SoundEarth	<1	<1	<1	<1	<0.2
	MW17-20201212	12/12/20	SoundEarth	<1	<1	<1	<1	<0.2
	MW17-20210625	06/25/21	SoundEarth	<1	1.7	<1	<1	<0.2
	MW17-20211217	12/17/21	SoundEarth	<1	1.5	<1	<1	<0.2
	Well not sampled 2022, 2023 or 2024, per Ecology							
MW18	MW18-20150506	05/06/15	SoundEarth	<1	46	5.2	<1	<0.2
	MW18-20150803	08/03/15	SoundEarth	<1	51	4.6	<1	<0.2
	MW18-20151208	12/08/15	SoundEarth	<1	51	9.9	<1	<0.2
	MW18-20160308	03/08/16	SoundEarth	<1	44	8.1	<1	<0.2
	MW18-20160714	07/14/16	SoundEarth	<1	3.3	1.7	<1	<0.2
	MW18-20161020	10/20/16	SoundEarth	<1	6.5	4.0	<1	<0.2
	MW18-20170126	01/26/17	SoundEarth	<1	7.7	14	<1	0.25
	MW18-20170601	06/01/17	SoundEarth	<1	3.3	14	<1	0.31
	MW18-20170923	09/23/17	SoundEarth	<1	<1	22	<1	0.38
	MW18-20171216	12/16/17	SoundEarth	<1	<1	22	<1	0.24
	MW18-20180310	03/10/18	SoundEarth	<1	<1	27	<1	0.40
	MW18-20180630	06/30/18	SoundEarth	<1	<1	27	<1	0.43
	MW18-20180922	09/22/18	SoundEarth	<1	<1	21	<1	0.42
	MW18-20181215	12/15/18	SoundEarth	<1	<1	24	<1	0.49
	MW18-20190615	06/15/19	SoundEarth	<1	<1	28	<1	0.44
	MW18-20191207	12/07/19	SoundEarth	<1	<1	28	<1	0.55
	MW18-20200627	06/27/20	SoundEarth	<1	<1	27	<1	1.5
	MW18-20201212	12/12/20	SoundEarth	<1	<1	15	<1	2.4
	MW18-20210625	06/25/21	SoundEarth	<1	<1	1.9	<1	1.7
	MW18-20211217	12/17/21	SoundEarth	<1	<0.5	<1	<1	1.8
	MW18-20220609	06/09/22	SoundEarth	<1	<0.5	<1	<1	1.6
	MW18-20221215	12/15/22	SoundEarth	<1	<0.5	<1	<1	1.1
	MW18-20230622	06/22/23	SoundEarth	<1	<0.5	<1	<1	1.4
	MW18-20231207	12/07/23	SoundEarth	<1	<0.5	<1	<1	1.3
	MW18-20240627	06/27/24	SoundEarth	<1	<0.5	3.6	<1	2.4
	MW18-20241219	12/19/24	SoundEarth	<1	<0.5	3.6	<1	1.5
Commercial Worker Groundwater Remediation Level at the Property[2]				**120**	**12**	**1,600**	**650**	**1.6**
Roadway Excavation Worker Groundwater Remediation Level in ROWs[2]				**760**	**40**	**10,000**	**NA**	**9.9**
MTCA Cleanup Level				**5[3]**	**5[3]**	**16[4]**	**160[4]**	**0.2[3]**

SoundEarth Strategies

Table 3
Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	PCE[1] (µg/L)	TCE[1] (µg/L)	cis-1-2-DCE[1] (µg/L)	trans-1-2-DCE[1] (µg/L)	Vinyl Chloride[1] (µg/L)
MW19	MW19-20150507	05/07/15	SoundEarth	<1	69	15	<1	<0.2
	MW19-20150803	08/03/15	SoundEarth	<1	61	20	<1	<0.2
	MW19-20151207	12/07/15	SoundEarth	<1	65	23	<1	<0.2
	MW19-20160308	03/08/16	SoundEarth	<1	52	26	<1	<0.2
	MW19-20160713	07/13/16	SoundEarth	<1	4.6	10	<1	<0.2
	MW19-20161021	10/21/16	SoundEarth	<1	10	4.4	<1	0.40
	MW19-20170125	01/25/17	SoundEarth	<1	5.5	3.9	<1	0.30
	MW19-20170601	06/01/17	SoundEarth	<1	5.7	3.5	<1	0.44
	MW19-20170923	09/23/17	SoundEarth	<1	1.7	3.4	<1	0.97
	MW19-20171216	12/16/17	SoundEarth	<1	1.1	13	<1	0.97
	MW19-20180310	03/10/18	SoundEarth	<1	<1	12	<1	0.78
	MW19-20180630	06/30/18	SoundEarth	<1	<1	12	<1	0.96
	MW19-20180922	09/22/18	SoundEarth	<1	<1	16	<1	0.86
	MW19-20190615	06/15/19	SoundEarth	<1	<1	27	<1	0.79
	MW19-20191207	12/07/19	SoundEarth	<1	<1	35	<1	0.98
	MW19-20200627	06/27/20	SoundEarth	<1	<1	41	<1	0.78
	MW19-20201212	12/12/20	SoundEarth	<1	<1	22	<1	2.6
	MW19-20210625	06/25/21	SoundEarth	<1	<1	<1	<1	1.0
	MW19-20211217	12/17/21	SoundEarth	<1	<0.5	<1	<1	1.5
	MW19-20220609	06/09/22	SoundEarth	<1	<0.5	<1	<1	1.9
	MW19-20221216	12/16/22	SoundEarth	<1	<0.5	<1	<1	1.9
	MW19-20230622	06/22/23	SoundEarth	<1	<0.5	<1	<1	0.25
	MW19-20231207	12/07/23	SoundEarth	<1	<0.5	<1	<1	2.8
	MW19-20240627	06/27/24	SoundEarth	<1	<0.5	<1	<1	2.2
	MW19-20241219	12/19/24	SoundEarth	<1	<0.5	<1	<1	2.0
MW20	MW20-20150506	05/06/15	SoundEarth	<1	<1	1.5	<1	<0.2
	MW20-20150803	08/03/15	SoundEarth	<1	<1	1.2	<1	<0.2
	MW20-20151207	12/07/15	SoundEarth	<1	<1	<1	<1	<0.2
	MW20-20160309	03/09/16	SoundEarth	<1	<1	<1	<1	<0.2
	MW20-20160715	07/15/16	SoundEarth	<1	<1	<1	<1	<0.2
	MW20-20161020	10/20/16	SoundEarth	<1	<1	<1	<1	<0.2
	MW20-20170125	01/25/17	SoundEarth	<1	<1	4.1	<1	<0.2
	MW20-20170601	06/01/17	SoundEarth	<1	<1	1.2	<1	<0.2
	MW20-20170924	09/24/17	SoundEarth	<1	<1	9.5	<1	<0.2
	MW20-20171216	12/16/17	SoundEarth	<1	1.3	15	<1	0.35
	MW20-20180310	03/10/18	SoundEarth	<1	<1	11	<1	<0.2
	MW20-20180630	06/30/18	SoundEarth	<1	<1	7	<1	<0.2
	MW20-20180922	09/22/18	SoundEarth	<1	<1	5.3	<1	<0.2
	MW20-20181215	12/15/18	SoundEarth	<1	<1	4.4	<1	<0.2
	MW20-20190615	06/15/19	SoundEarth	<1	<1	3.8	<1	<0.2
	MW20-20191207	12/07/19	SoundEarth	<1	<1	3.0	<1	<0.2
	MW20-20200627	06/27/20	SoundEarth	<1	1.2	6.1	<1	<0.2
	MW20-20201212	12/12/20	SoundEarth	<1	1.3	6.0	<1	<0.2
	MW20-20210625	06/25/21	SoundEarth	<1	1.6	5.3	<1	<0.2
	MW20-20211217	12/17/21	SoundEarth	<1	0.94	5.2	<1	<0.2
	Well not sampled 2022, 2023, or 2024, per Ecology							
MW21	MW21-20150506	05/06/15	SoundEarth	5.1	1.6	7.2	<1	<0.2
	MW21-20150804	08/04/15	SoundEarth	4.9	1.4	4.5	<1	<0.2
	MW21-20151208	12/08/15	SoundEarth	7.3	2.0	6.7	<1	<0.2
	MW21-20160309	03/09/16	SoundEarth	5.3	1.4	7.9	<1	<0.2
	MW21-20160713	07/13/16	SoundEarth	<1	<1	1.2	<1	<0.2
	MW21-20161020	10/20/16	SoundEarth	<1	<1	1.7	<1	<0.2
	MW21-20170126	01/26/17	SoundEarth	<1	<1	2.4	<1	<0.2
	MW21-20170601	06/01/17	SoundEarth	<1	<1	2.4	<1	<0.2
	MW21-20170923	09/23/17	SoundEarth	<1	<1	3.7	<1	<0.2
	MW21-20171216	12/16/17	SoundEarth	<1	<1	14	<1	0.49
	MW21-20180310	03/10/18	SoundEarth	<1	<1	14	<1	0.43
	MW21-20180630	06/30/18	SoundEarth	<1	<1	6.0	<1	0.29
	MW21-20180922	09/22/18	SoundEarth	<1	<1	6.9	<1	0.30
	MW21-20181215	12/15/18	SoundEarth	<1	<1	16	<1	0.96
	MW21-20190615	06/15/19	SoundEarth	<1	<1	29	<1	1.1
	MW21-20191207	12/07/19	SoundEarth	<1	<1	34	<1	1.3
	MW21-20200627	06/27/20	SoundEarth	<1	<1	13	<1	0.49
	MW21-20201212	12/12/20	SoundEarth	<1	<1	`	<1	1.8
	MW21-20210625	06/25/21	SoundEarth	<1	<1	11	<1	0.86
	MW21-20211217	12/17/21	SoundEarth	<1	<0.5	12	<1	1.3
	MW21-20220609	06/09/22	SoundEarth	<1	<0.5	12	<1	1.9
	MW21-20221215	12/15/22	SoundEarth	<1	<0.5	12	<1	1.4
	MW21-20230623	06/23/23	SoundEarth	<1	<0.5	1.4	<1	2.0
	MW21-20231207	12/07/23	SoundEarth	<1	<0.5	4.5	<1	2.6
	MW21-20240627	06/27/24	SoundEarth	<1	<0.5	2.4	<1	1.9
	MW21-20241220	12/20/24	SoundEarth	<1	<0.5	11	<1	1.8
Commercial Worker Groundwater Remediation Level at the Property[2]				**120**	**12**	**1,600**	**650**	**1.6**
Roadway Excavation Worker Groundwater Remediation Level in ROWs[2]				**760**	**40**	**10,000**	**NA**	**9.9**
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MW22	MW22-20150506	05/06/15	SoundEarth	11	2.2	27	<1	<0.2
	MW22-20150804	08/04/15	SoundEarth	17	3.0	34	<1	<0.2
	MW22-20151208	12/08/15	SoundEarth	19	3.7	42	<1	<0.2
	MW22-20160308	03/08/16	SoundEarth	28	4.5	52	<1	0.35
	MW22-20160713	07/13/16	SoundEarth	<1	<1	5.5	<1	<0.2
	MW22-20161020	10/20/16	SoundEarth	<1	<1	6.7	<1	0.65
	MW22-20170126	01/26/17	SoundEarth	<1	<1	8.5	<1	0.51
	MW22-20170601	06/01/17	SoundEarth	<1	<1	10	<1	1.5
	MW22-20170923	09/23/17	SoundEarth	<1	<1	18	<1	1.4
	MW22-20171216	12/16/17	SoundEarth	<1	<1	22	<1	1.2
	MW22-20180310	03/10/18	SoundEarth	<1	<1	22	<1	1.3
	MW22-20180630	06/30/18	SoundEarth	<1	<1	28	<1	1.2
	MW22-20180922	09/22/18	SoundEarth	<1	<1	33	<1	0.90
	MW22-20181215	12/15/18	SoundEarth	<1	<1	37	<1	1.2
	MW22-20190615	06/15/19	SoundEarth	1.1	1.1	49	<1	1.0
	MW22-20191207	12/07/19	SoundEarth	1.3	1.3	48	<1	1.0
	MW22-20200627	06/27/20	SoundEarth	1.4	1.3	42	<1	0.99
	MW22-20201212	12/12/20	SoundEarth	<1	<1	44	<1	1.1
	MW22-20210625	06/25/21	SoundEarth	1.1	<1	43	<1	0.82
	MW22-20211217	12/17/21	SoundEarth	<1	0.51	52	<1	1.2
	MW22-20220609	06/09/22	SoundEarth	<1	<0.5	52	<1	1.3
	MW22-20221216	12/16/22	SoundEarth	<1	0.52	58	<1	1.1
	MW22-20230623	06/23/23	SoundEarth	<1	<0.5	21	<1	0.51
	MW22-20231207	12/07/23	SoundEarth	<1	<0.5	52	<1	1.6
	MW22-20240627	06/27/24	SoundEarth	<1	<0.5	46	<1	1.8
	MW22-20241220	12/20/24	SoundEarth	<1	<0.5	35	<1	2.4
MW23	MW23-20150507	05/07/15	SoundEarth	6.1	18	13	<1	<0.2
	MW23-20150804	08/04/15	SoundEarth	6.1	24	20	<1	0.20
	MW23-20151208	12/08/15	SoundEarth	3.8	16	120	<1	0.57
	MW23-20160308	03/08/16	SoundEarth	4.1	14	95	<1	0.64
	MW23-20160714	07/14/16	SoundEarth	<1	1.6	14	<1	2.2
	MW23-20161020	10/20/16	SoundEarth	<1	2.1	9.9	<1	0.48
	MW23-20170126	01/26/17	SoundEarth	<1	2.9	41	<1	1.4
	MW23-20170601	06/01/17	SoundEarth	<1	2.7	23	<1	0.74
	MW23-20170923	09/23/17	SoundEarth	<1	1.7	16	<1	0.50
	MW23-20171216	12/16/17	SoundEarth	<1	1.3	14	<1	0.51
	MW23-20180310	03/10/18	SoundEarth	<1	<1	20	<1	0.52
	MW23-20180630	06/30/18	SoundEarth	<1	<1	14	<1	0.53
	MW23-20180922	09/22/18	SoundEarth	<1	<1	16	<1	0.53
	MW23-20181215	12/15/18	SoundEarth	<1	<1	17	<1	<0.2
	MW23-20190615	06/15/19	SoundEarth	<1	<1	25	<1	0.72
	MW23-20191207	12/07/19	SoundEarth	<1	<1	38	<1	0.89
	MW23-20200627	06/27/20	SoundEarth	<1	<1	30	<1	0.76
	MW23-20201212	12/12/20	SoundEarth	<1	<1	30	<1	0.85
	MW23-20210625	06/25/21	SoundEarth	<1	<1	26	<1	0.97
	MW23-20211217	12/17/21	SoundEarth	<1	<0.5	15	<1	3.7
	Well not sampled 2022 or 2023, per Ecology							
	MW23-20240627	06/27/24	SoundEarth	<1	<0.5	5.5	<1	2.0
	MW23-20241219	12/19/24	SoundEarth	<1	<0.5	7.7	<1	1.8
MW24	MW24-20150506	05/06/15	SoundEarth	2.5	31	72	<1	0.26
	MW24-20150804	08/04/15	SoundEarth	5.5	28	75	<1	<0.2
	MW24-20151208	12/08/15	SoundEarth	11	28	54	<1	<0.2
	MW24-20160309	03/09/16	SoundEarth	11	23	45	<1	<0.2
	MW24-20160715	07/15/16	SoundEarth	<1	1.7	12	<1	<0.2
	MW98-20160715 (DUP)			<1	1.8	12	<1	<0.2
	MW24-20161020	10/20/16	SoundEarth	<1	2.7	12	<1	0.26
	MW24-20170125	01/25/17	SoundEarth	<1	3.5	20	<1	0.81
	MW24-20170601	06/01/17	SoundEarth	1.1	4.8	35	<1	1.0
	MW24-20170924	09/24/17	SoundEarth	<1	1.8	33	<1	0.36
	MW24-20171216	12/16/17	SoundEarth	<1	1.3	30	<1	0.38
	MW24-20180310	03/10/18	SoundEarth	<1	<1	25	<1	0.36
	MW24-20180630	06/30/18	SoundEarth	1.5	1.9	41	<1	2.1
	MW24-20180922	09/22/18	SoundEarth	<1	<1	35	<1	0.37
	MW24-20181215	12/15/18	SoundEarth	<1	<1	43	<1	0.51
	MW24-20190615	06/15/19	SoundEarth	<1	<1	84	<1	1.0
	MW24-20191207	12/07/19	SoundEarth	<1	<1	83	<1	0.94
	MW24-20200627	06/27/20	SoundEarth	<1	<1	61	<1	0.76
	MW24-20201212	12/12/20	SoundEarth	<1	<1	45	<1	0.61
	MW24-20210625	06/25/21	SoundEarth	<1	<1	37	<1	0.67
	MW24-20211217	12/17/21	SoundEarth	<1	<0.5	46	<1	0.71
	MW24-20220609	06/09/22	SoundEarth	<1	<0.5	74	<1	1.1
	MW24-20221216	12/16/22	SoundEarth	<1	<0.5	64	<1	6.1
	MW24-20230623	06/23/23	SoundEarth	<1	<0.5	<1	<1	1.5
	MW24-20231207	12/07/23	SoundEarth	<1	<0.5	1.5	<1	2.0
	MW24-20240627	06/27/24	SoundEarth	<1	<0.5	1.4	<1	1.3
	MW24-20241220	12/20/24	SoundEarth	<1	0.72	1.6	<1	1.1
Commercial Worker Groundwater Remediation Level at the Property[2]				**120**	**12**	**1,600**	**650**	**1.6**
Roadway Excavation Worker Groundwater Remediation Level in ROWs[2]				**760**	**40**	**10,000**	**NA**	**9.9**
MTCA Cleanup Level				**5[3]**	**5[3]**	**16[4]**	**160[4]**	**0.2[3]**

SoundEarth Strategies

Table 3
Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	PCE[1] (µg/L)	TCE[1] (µg/L)	cis-1-2-DCE[1] (µg/L)	trans-1-2-DCE[1] (µg/L)	Vinyl Chloride[1] (µg/L)
MW25	MW25-20150507	05/07/15	SoundEarth	<1	68	5.2	<1	<0.2
	MW99-20150507 (DUP)			<1	69	5.3	<1	<0.2
	MW25-20150805	08/05/15	SoundEarth	3.0	75	7.9	<1	<0.2
	MW99-20150805 (DUP)			2.9	73	7.8	<1	<0.2
	MW25-20151209	12/09/15	SoundEarth	11	71	8.4	<1	<0.2
	MW99-20151209 (DUP)			11	72	8.3	<1	<0.2
	MW25-20160308	03/08/16	SoundEarth	24	50	12	<1	<0.2
	MW99-20160308(DUP)			25	50	12	<1	<0.2
	MW25-20160713	07/13/16	SoundEarth	6.1	4.8	23	<1	0.70
	MW25-20161019	10/19/16	SoundEarth	1.8	5.1	15	<1	0.96
	MW99-20161019 (DUP)			1.7	5.0	16	<1	1.0
	MW25-20170125	01/25/17	SoundEarth	1.0	3.6	44	<1	0.89
	MW99-20170125 (DUP)			1.1	3.7	44	<1	0.92
	MW25-20170601	06/01/17	SoundEarth	<1	1.2	15	<1	0.31
	MW99-20170601 (DUP)			<1	1.3	15	<1	0.41
	MW25-20170923	09/23/17	SoundEarth	<1	<1	15	<1	0.40
	MW99-20170923 (DUP)			<1	<1	15	<1	0.34
	MW25-20171216	12/16/17	SoundEarth	<1	<1	23	<1	0.41
	MW99-20171216 (DUP)			<1	<1	23	<1	0.40
	MW25-20180310	03/10/18	SoundEarth	<1	<1	25	<1	0.32
	MW99-20180310 (DUP)			<1	<1	25	<1	0.30
	MW25-20180630	06/30/18	SoundEarth	<1	<1	31	<1	0.52
	MW99-20180630 (DUP)			<1	<1	32	<1	0.49
	MW25-20180922	09/22/18	SoundEarth	<1	<1	37	<1	0.46
	MW99-20180922 (DUP)			<1	<1	36	<1	0.51
	MW25-20181215	12/15/18	SoundEarth	<1	<1	40	<1	0.60
	MW99-20181215 (DUP)			<1	<1	39	<1	0.57
	MW25-20190615	06/15/19	SoundEarth	<1	<1	45	<1	0.54
	MW99-20190615 (DUP)			<1	<1	43	<1	0.50
	MW25-20191207	12/07/19	SoundEarth	<1	<1	40	<1	0.63
	MW99-20191207 (DUP)			<1	<1	36	<1	0.58
	MW25-20200627	6/27/2020	SoundEarth	<1	<1	40	<1	0.73
	MW99-20200627 (DUP)			<1	<1	37	<1	0.67
	MW25-20201212	12/12/20	SoundEarth	<1	<1	35	<1	0.43
	MW99-20201212 (DUP)			<1	<1	34	<1	0.43
	MW25-20210625	06/25/21	SoundEarth	<1	<1	48	<1	0.79
	MW99-20210625 (DUP)			<1	<1	47	<1	0.90
	MW25-20211217	12/17/21	SoundEarth	<1	0.52	13	<1	3.6
	MW99-20211217 (DUP)			<1	0.53	13	<1	3.7
	MW25-20220609	06/09/22	SoundEarth	1.3	1.3	9.6	<1	4.1
	MW99-20220609 (DUP)			1.3	1.3	9.5	<1	4.0
	MW25-20221216	12/16/22	SoundEarth	3.2	3.8	5.9	<1	2.2
	MW99-20221216 (DUP)			3.0	3.7	5.7	<1	2.1
	MW25-20230623	06/23/23	SoundEarth	2.7	3.2	2.2	<1	1.3
	MW99-20230623 (DUP)			2.8	3.4	2.3	<1	1.3
	MW25-20231207	12/07/23	SoundEarth	4.1	5.5	3.4	<1	1.9
	MW99-20231207 (DUP)			3.9	5.4	3.4	<1	1.9
	MW25-20240627	06/27/24	SoundEarth	3.8	6.6	4.3	<1	1.8
	MW99-20240627 (DUP)			3.2	5.5	3.4	<1	1.5
	MW25-20241219	12/19/24	SoundEarth	4.5	8.1	5.2	<1	1.5
	MW99-20241219 (DUP)			4.3	7.8	5.1	<1	1.6
IW04	IW04-20150508	05/08/15	SoundEarth	<1	15	1.9	<1	<0.2
	IW04-20160309	03/09/16	SoundEarth	<1	2.5	11	<1	<0.2
	IW04-20160714	07/14/16	SoundEarth	<1	<1	<1	<1	<0.2
	IW04-20161021	10/21/16	SoundEarth	<1	<1	1.8	<1	<0.2
	IW04-20170126	01/26/17	SoundEarth	<1	1.1	4.8	<1	<0.2
	IW04-20170601	06/01/17	SoundEarth	<1	1.2	12	<1	0.21
	IW04-20170923	09/23/17	SoundEarth	<1	<1	14	<1	0.22
	IW04-20171216	12/16/17	SoundEarth	<1	<1	19	<1	0.54
	IW04-20180310	03/10/18	SoundEarth	<1	<1	9.0	<1	0.65
	IW04-20180630	06/30/18	SoundEarth	<1	<1	5.3	<1	0.68
	IW04-20180922	09/22/18	SoundEarth	<1	<1	<1	<1	<0.2
	IW04-20181215	12/15/18	SoundEarth	<1	<1	1.9	<1	1.6
	IW04-20190615	06/15/19	SoundEarth	<1	<1	1.7	<1	1.0
	IW04-20191207	12/07/19	SoundEarth	<1	<1	1.4	<1	1.1
	IW04-20200627	06/27/20	SoundEarth	<1	<1	1.1	<1	0.77
	IW04-20201212	12/12/20	SoundEarth	<1	<1	1.0	<1	0.64
	IW04-20210625	06/25/21	SoundEarth	<1	<1	<1	<1	0.46
	IW04-20211217	12/17/21	SoundEarth	<1	<0.5	1.1	<1	0.34
	IW04-20220609	06/09/22	SoundEarth	<1	<0.5	<1	<1	0.34
	IW04-20221215	12/15/22	SoundEarth	<1	<0.5	<1	<1	0.28
	IW04-20230622	06/22/23	SoundEarth	<1	<0.5	<1	<1	0.26
	IW04-20231207	12/07/23	SoundEarth	<1	<0.5	<1	<1	<0.2
	IW04-20240626	06/26/24	SoundEarth	<1	<0.5	<1	<1	0.20
	IW04-20241219	12/19/24	SoundEarth	<1	<0.5	<1	<1	<0.2
Commercial Worker Groundwater Remediation Level at the Property[2]				**120**	**12**	**1,600**	**650**	**1.6**
Roadway Excavation Worker Groundwater Remediation Level in ROWs[2]				**760**	**40**	**10,000**	**NA**	**9.9**
MTCA Cleanup Level				**5[3]**	**5[3]**	**16[4]**	**160[4]**	**0.2[3]**

SoundEarth Strategies

Table 3
Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	PCE[1] (µg/L)	TCE[1] (µg/L)	cis-1-2-DCE[1] (µg/L)	trans-1-2-DCE[1] (µg/L)	Vinyl Chloride[1] (µg/L)
IW06	IW06-20150507	05/07/15	SoundEarth	6.3	13	<1	<1	<0.2
	IW06-20180310	03/10/18	SoundEarth	<1	<1	1.6	<1	<0.2
	IW06-20180630	06/30/18	SoundEarth	<1	<1	<1	<1	<0.2
	IW06-20181215	12/15/18	SoundEarth	1.0	<1	<1	<1	<0.2
	IW06-20190615	06/15/19	SoundEarth	1.7	<1	<1	<1	<0.2
	IW06-20191207	12/07/19	SoundEarth	1.4	<1	<1	<1	<0.2
	IW06-20200627	06/27/20	SoundEarth	<1	<1	5.2	<1	<0.2
	IW06-20201212	12/12/20	SoundEarth	<1	<1	3.3	<1	<0.2
	IW06-20210625	06/25/21	SoundEarth	<1	<1	3.6	<1	0.59
	IW06-20211217	12/17/21	SoundEarth	<1	<0.5	<1	<1	<0.2
	IW06-20220609	06/09/22	SoundEarth	<1	<0.5	<1	<1	<0.02
	IW06-20221215	12/15/22	SoundEarth	1.7	<0.5	<1	<1	<0.02
	IW06-20230622	06/22/23	SoundEarth	1.1	<0.5	<1	<1	<0.02
	IW06-20231207	12/07/23	SoundEarth	1.4	<0.5	<1	<1	<0.2
	IW06-20240626	06/26/24	SoundEarth	1.3	<0.5	<1	<1	<0.2
	Well not sampled 2024 Q4, per Ecology							
IW50	IW50-20150803	08/03/15	SoundEarth	4.1	8.1	44	<1	<0.2
	IW50-20151208	12/08/15	SoundEarth	<1	<1	140	<1	1.8
	IW50-20160309	03/09/16	SoundEarth	<1	<1	110	<1	1.9
	IW50-20160715	07/15/16	SoundEarth	3.7	<1	38	<1	2.5
	IW50-20161021	10/21/16	SoundEarth	3.7	<1	23	<1	1.0
	IW50-20170126	01/26/17	SoundEarth	13	2.1	34	<1	0.74
	IW50-20170602	06/02/17	SoundEarth	<1	<1	81	<1	0.95
	IW50-20170924	09/24/17	SoundEarth	<1	<1	26	<1	2.6
	IW50-20171216	12/16/17	SoundEarth	<1	<1	15	<1	2.2
	IW50-20180310	03/10/18	SoundEarth	<1	<1	8.0	<1	3.6
	IW50-20180630	06/30/18	SoundEarth	<1	<1	4.5	<1	2.5
	IW50-20180922	09/22/18	SoundEarth	<1	<1	5.1	<1	2.9
	IW50-20181215	12/15/18	SoundEarth	1.6	<1	15	<1	4.5
	IW50-20190615	06/15/19	SoundEarth	5.2	2.0	54	<1	7.1
	IW50-20191207	12/07/19	SoundEarth	4.5	1.6	55	<1	7.4
	IW50-20200627	06/27/20	SoundEarth	3.9	<1	2.7	<1	1.1
	IW50-20201212	12/12/20	SoundEarth	<1	<1	<1	<1	<0.2
	IW50-20210625	06/25/21	SoundEarth	3.7	<1	1.7	<1	0.85
	IW50-20211217	12/17/21	SoundEarth	<1	<0.5	2.9	<1	0.80
	IW50-20220609	06/09/22	SoundEarth	<1	<0.5	6.9	<1	2.4
	IW50-20221216	12/16/22	SoundEarth	4.7	2.1	35	<1	6.4
	IW50-20230623	06/23/23	SoundEarth	1.8	0.79	18	<1	5.8
	IW50-20231207	12/07/23	SoundEarth	7.6	3.1	22	<1	5.4
	IW50-20240627	06/27/24	SoundEarth	10	3.9	24	<1	4.7
	IW50-20241220	12/20/24	SoundEarth	<1	<0.5	1.2	<1	0.86
IW61	IW61-20151208	12/08/15	SoundEarth	10	2.8	120	<1	0.86
	IW61-20160309	03/09/16	SoundEarth	23	4.2	140	<1	1.7
	IW61-20160714	07/14/16	SoundEarth	8.3	1.6	24	<1	1.6
	IW61-20161021	10/21/16	SoundEarth	9.5	2.8	34	<1	0.96
	IW61-20170126	01/26/17	SoundEarth	8.3	2.9	32	<1	0.96
	IW61-20170602	06/02/17	SoundEarth	9.9	3.4	41	<1	1.3
	IW61-20170923	09/23/17	SoundEarth	12	3.2	45	<1	1.2
	IW61-20171216	12/16/17	SoundEarth	15	3.2	65	<1	1.2
	IW61-20180310	03/10/18	SoundEarth	15	2.7	71	<1	1.1
	IW61-20180323*	03/23/18	SoundEarth	15	2.9	82	<1	1.3
	IW61-20180630	06/30/18	SoundEarth	16	2.5	67	<1	1.7
	IW61-20180922	09/22/18	SoundEarth	13	2.1	63	<1	1.8
	IW61-20181215	12/15/18	SoundEarth	15	2.1	58	<1	2.0
	IW61-20190615	06/15/19	SoundEarth	13	2.4	71	<1	2.9
	IW61-20191207	12/07/19	SoundEarth	6.8	1.7	65	<1	4.0
	IW61-20200627	06/27/20	SoundEarth	5.3	1.1	63	<1	4.5
	IW61-20201212	12/12/20	SoundEarth	<1	<1	30	<1	4.1[cs]
	IW61-20210625	06/25/21	SoundEarth	<1	<1	25	<20	1.8
	IW61-20211217	12/17/21	SoundEarth	<1	<0.5	41	<1	3.8
	IW61-20220609	06/09/22	SoundEarth	<1	<0.5	25	<1	3.2
	IW61-20221216	12/16/22	SoundEarth	<1	<0.5	57	<1	2.7
	IW61-20230623	06/23/23	SoundEarth	<1	<0.5	36	<1	2.7
	IW61-20231207	12/07/23	SoundEarth	<1	<0.5	41	<1	3.8
	IW61-20240627	06/27/24	SoundEarth	<1	<0.5	46	<1	3.0
	IW61-20241220	12/20/24	SoundEarth	<1	<0.5	43	<1	3.1
Commercial Worker Groundwater Remediation Level at the Property[2]				**120**	**12**	**1,600**	**650**	**1.6**
Roadway Excavation Worker Groundwater Remediation Level in ROWs[2]				**760**	**40**	**10,000**	**NA**	**9.9**
MTCA Cleanup Level				**5[3]**	**5[3]**	**16[4]**	**160[4]**	**0.2[3]**

SoundEarth Strategies

Table 3
Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	PCE[1] (µg/L)	TCE[1] (µg/L)	cis-1-2-DCE[1] (µg/L)	trans-1-2-DCE[1] (µg/L)	Vinyl Chloride[1] (µg/L)
IW91	IW91-20150506	05/06/15	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20150804	08/04/15	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20151208	12/08/15	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20160309	03/09/16	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20160714	07/14/16	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20161020	10/20/16	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20170126	01/26/17	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20170601	06/01/17	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20170923	09/23/17	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20171216	12/16/17	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20180310	03/10/18	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20180630	06/30/18	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20180922	09/22/18	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20181215	12/15/18	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20190615	06/15/19	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20191207	12/07/19	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20200627	06/27/20	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20201212	12/12/20	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20210625	06/25/21	SoundEarth	<1	<1	<1	<1	<0.2
	IW91-20211217	12/17/21	SoundEarth	<1	<0.5	<1	<2	<0.2
	Well not sampled 2022, 2023, or 2024, per Ecology							
Boren Avenue North								
MW04	MW04-20110527	05/27/11	SoundEarth	<1	**15**	<1	<1	<0.2
	MW04-20111012	10/12/11	SoundEarth	<1	**15**	<1	<1	<0.2
	MW04-20130909	09/09/13	SoundEarth	<1	**22**	15	<1	<0.2
	MW04-20150508	05/08/15	SoundEarth	1.4	**13**	4.2	<1	<0.2
	MW04-20150806	08/06/15	SoundEarth	<1	**6.9**	1.0	<1	<0.2
	MW04-20151209	12/09/15	SoundEarth	<1	**9.2**	<1	<1	<0.2
	MW04-20160308	03/08/16	SoundEarth	<1	**9.6**	1.1	<1	<0.2
	MW04-20160713	07/13/16	SoundEarth	1.0	**8.9**	1.3	<1	<0.2
	MW04-20161019	10/19/16	SoundEarth	<1	**5.5**	<1	<1	<0.2
	MW04-20170124	01/24/17	SoundEarth	<1	**9.4**	<1	<1	<0.2
	MW04-20170531	05/31/17	SoundEarth	<1	**9.3**	<1	<1	<0.2
	MW04-20170921	09/21/17	SoundEarth	<1	**5.7**	3.2	<1	<0.2
	MW04-20171214	12/14/17	SoundEarth	<1	**8.0**	2.4	<1	<0.2
	MW04-20180309	03/09/18	SoundEarth	<1	**8.6**	<1	<1	<0.2
	MW04-20180629	06/29/18	SoundEarth	<1	**9.4**	<1	<1	<0.2
	MW04-20180920	09/20/18	SoundEarth	<1	**9.4**	<1	<1	<0.2
	MW04-20181214	12/14/18	SoundEarth	<1	**10**	<1	<1	<0.2
	MW04-20190614	06/14/19	SoundEarth	<1	**11**	<1	<1	<0.2
	MW04-20191205	12/05/19	SoundEarth	<1	**11**	<1	<1	<0.2
	MW04-20200626	06/26/20	SoundEarth	<1	**10**	<1	<1	<0.2
	MW04-20201211	12/11/20	SoundEarth	<1	**9.2**	<1	<1	<0.2
	MW04-20210624	06/24/21	SoundEarth	<1	**11**	<1	<1	<0.2
	MW04-20211215	12/15/21	SoundEarth	<1	**7.8**	<1	<1	<0.2
	MW04-20220607	06/07/22	SoundEarth	<1	**9.2**	<1	<1	<0.02
	MW04-20221214	12/14/22	SoundEarth	<1	**8.2**	<1	<1	<0.02
	MW04-20230622	06/22/23	SoundEarth	<1	**9.3**	<1	<1	<0.02
	MW04-20231208	12/08/23	SoundEarth	<1	**9.4**	<1	<1	<0.2
	MW04-20240626	06/26/24	SoundEarth	<1	**8.6**	<1	<1	<0.2
	MW04-20241218	12/18/24	SoundEarth	<1	**9.8**	<1	<1	<0.2
MW05	MW05-20110527	05/27/11	SoundEarth	**39**	**16**	1.8	<1	<0.2
	MW05-20111012	10/12/11	SoundEarth	**29**	**14**	1.5	<1	<0.2
	MW05-20130910	09/10/13	SoundEarth	**21**	**13**	1.9	<1	<0.2
	DECOMMISSIONED 2015							
Commercial Worker Groundwater Remediation Level at the Property[2]				**120**	**12**	**1,600**	**650**	**1.6**
Roadway Excavation Worker Groundwater Remediation Level in ROWs[2]				**760**	**40**	**10,000**	**NA**	**9.9**
MTCA Cleanup Level				**5[3]**	**5[3]**	**16[4]**	**160[4]**	**0.2[3]**

SoundEarth Strategies

Table 3
Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	PCE[1] (µg/L)	TCE[1] (µg/L)	cis-1-2-DCE[1] (µg/L)	trans-1-2-DCE[1] (µg/L)	Vinyl Chloride[1] (µg/L)
MW07	MW07-20110531	05/31/11	SoundEarth	1.4	12	2.3	<1	<0.2
	MW07-20111012	10/12/11	SoundEarth	2.2	11	1.8	<1	<0.2
	MW07-20130909	09/09/13	SoundEarth	1.5	33	5.4	<1	<0.2
	MW07-20150508	05/08/15	SoundEarth	2.5	15	4.8	<1	<0.2
	MW07-20150805	08/05/15	SoundEarth	1.8	12	3.2	<1	<0.2
	MW07-20151209	12/09/15	SoundEarth	2.3	14	4.1	<1	<0.2
	MW07-20160308	03/08/16	SoundEarth	2.6	13	3.8	<1	<0.2
	MW07-20160713	07/13/16	SoundEarth	3.0	18	5.7	<1	<0.2
	MW07-20161019	10/19/16	SoundEarth	3.5	13	2.3	<1	<0.2
	MW07-20170124	01/24/17	SoundEarth	4.8	8.1	<1	<1	<0.2
	MW07-20170531	05/31/17	SoundEarth	4.7	8.6	<1	<1	<0.2
	MW07-20180308	03/08/18	SoundEarth	2.6	11	1.1	<1	<0.2
	MW07-20180629	06/29/18	SoundEarth	3.3	7.3	<1	<1	<0.2
	MW07-20180920	09/20/18	SoundEarth	2.8	6.0	<1	<1	<0.2
	MW07-20181214	12/14/18	SoundEarth	3.3	6.7	<1	<1	<0.2
	MW07-20190614	06/14/19	SoundEarth	3.9	5.9	<1	<1	<0.2
	MW07-20191205	12/05/19	SoundEarth	3.3	5.9	<1	<1	<0.2
	MW07-20200630	06/30/20	SoundEarth	<1	5.8	<1	<1	<0.2
	MW07-20201210	12/10/20	SoundEarth	1.7	18	3.2	<1	<0.2
	MW07-20210623	06/23/21	SoundEarth	1.8	15	3.4	<1	<0.2
	MW07-20211215	12/15/21	SoundEarth	2.0	7.2	<1	<1	<0.2
	MW07-20220607	06/07/22	SoundEarth	2.9	6.5	<1	<1	<0.02
	MW07-20221214	12/14/22	SoundEarth	2.5	5.9	<1	<1	<0.02
	MW07-20230622	06/22/23	SoundEarth	2.4	5.1	<1	<1	<0.02
	MW07-20231208	12/08/23	SoundEarth	2.1	4.8	<1	<1	<0.2
	MW07-20240626	06/26/24	SoundEarth	1.7	4.2	<1	<1	<0.2
	MW07-20241218	12/18/24	SoundEarth	2.3	5.7	<1	<1	<0.2
MW13	MW13-20111020	10/20/11	SoundEarth	5.1	1.2	<1	<1	<0.2
	MW13-20130910	09/10/13	SoundEarth	11	1.4	<1	<1	<0.2
	MW13-20150511	05/11/15	SoundEarth	4.6[cf]	1.7[cf]	<1[cf]	<1[cf]	<0.2[cf]
	MW13-20150805	08/05/15	SoundEarth	5.4	2.3	<1	<1	<0.2
	MW13-20151215	12/15/15	SoundEarth	5.6	1.6	<1	<1	<0.2
	MW13-20160307	03/07/16	SoundEarth	6.6	1.6	<1	<1	<0.2
	MW13-20160712	07/12/16	SoundEarth	6.5	1.6	<1	<1	<0.2
	MW13-20161019	10/19/16	SoundEarth	10	2.2	<1	<1	<0.2
	MW13-20170124	01/24/17	SoundEarth	6.4	1.0	<1	<1	<0.2
	MW13-20170531	05/31/17	SoundEarth	10	1.5	<1	<1	<0.2
	MW13-20170921	09/21/17	SoundEarth	8.4	1.8	<1	<1	<0.2
	MW13-20171214	12/14/17	SoundEarth	5.2	1.4	<1	<1	<0.2
	MW13-20180308	03/08/18	SoundEarth	8.0	1.4	<1	<1	<0.2
	MW13-20180629	06/29/18	SoundEarth	4.4	<1	<1	<1	<0.2
	MW13-20180920	09/20/18	SoundEarth	6.5	1.3	<1	<1	<0.2
	MW13-20181214	12/14/18	SoundEarth	7.8	1.4	<1	<1	<0.2
	MW13-20190614	06/14/19	SoundEarth	7.0	1.1	<1	<1	<0.2
	MW13-20191205	12/05/19	SoundEarth	7.7	1.1	<1	<1	<0.2
	MW13-20200626	06/26/20	SoundEarth	9.1	1.8	<1	<1	<0.2
	MW13-20201210	12/10/20	SoundEarth	7.2	1.6	<1	<1	<0.2
	MW13-20210623	06/23/21	SoundEarth	4.1	<1	<1	<1	<0.2
	MW13-20211216	12/16/21	SoundEarth	5.2	1.0	<1	<1	<0.2
	MW13-20220608	06/08/22	SoundEarth	5.0	0.86	<1	<1	<0.02
	MW13-20221214	12/14/22	SoundEarth	4.8	0.57	<1	<1	<0.02
	MW13-20230622	06/22/23	SoundEarth	4.3	<0.5	<1	<1	<0.02
	MW13-20231206	12/06/23	SoundEarth	5.2	0.67	<1	<1	<0.2
	MW13-20240626	06/26/24	SoundEarth	4.7	<0.5	<1	<1	<0.2
	MW13-20241218	12/18/24	SoundEarth	4.4	<0.5	<1	<1	<0.2
MW27	MW27-20151210	12/10/15	SoundEarth	<1	21	2.5	<1	<0.2
	MW27-20160307	03/07/16	SoundEarth	<1	21	3.8	<1	<0.2
	MW27-20160713	07/13/16	SoundEarth	<1	18	4.5	<1	<0.2
	MW27-20161019	10/19/16	SoundEarth	<1	23	4.8	<1	<0.2
	MW27-20170124	01/24/17	SoundEarth	<1	33	13	<1	<0.2
	MW27-20170531	05/31/17	SoundEarth	<1	18	5.5	<1	<0.2
	MW27-20170921	09/21/17	SoundEarth	<1	16	4.0	<1	<0.2
	MW27-20171214	12/14/17	SoundEarth	<1	81	4.4	<1	<0.2
	MW27-20171229	12/29/17	SoundEarth	<1	60	3.5	<1	<0.2
	MW27-20180308	03/08/18	SoundEarth	<1	13	<1	<1	<0.2
	MW27-20180628	06/28/18	SoundEarth	<1	37	3.4	<1	<0.2
	MW27-20180920	09/20/18	SoundEarth	<1	21	3.7	<1	<0.2
	MW27-20181214	12/14/18	SoundEarth	<1	17	4.3	<1	<0.2
	MW27-20190614	06/14/19	SoundEarth	<1	14	2.3	<1	<0.2
	MW27-20191205	12/05/19	SoundEarth	<1	15	2.2	<1	<0.2
	MW27-20200626	06/26/20	SoundEarth	<1	30	2.9	<1	<0.2
	MW27-20201210	12/10/20	SoundEarth	<1	69	3.7	<1	<0.2
	MW27-20210623	06/23/21	SoundEarth	<1	80	4.3	<1	<0.2
	MW27-20211215	12/15/21	SoundEarth	<1	28	8.2	<1	<0.2
	MW27-20220608	06/08/22	SoundEarth	<1	16	2.7	<1	<0.02
	MW27-20221215	12/15/22	SoundEarth	<1	16	4.6	<1	<0.02
	MW27-20230621	06/21/23	SoundEarth	<1	15	5.3	<1	<0.02
	MW27-20231206	12/06/23	SoundEarth	<1	4.5	<1	<1	<0.2
	MW27-20240626	06/26/24	SoundEarth	<1	20	1.5	<1	<0.2
	MW27-20241217	12/17/24	SoundEarth	<1	12	1.4	<1	<0.2
Commercial Worker Groundwater Remediation Level at the Property[2]				**120**	**12**	**1,600**	**650**	**1.6**
Roadway Excavation Worker Groundwater Remediation Level in ROWs[2]				**760**	**40**	**10,000**	**NA**	**9.9**
MTCA Cleanup Level				**5[3]**	**5[3]**	**16[4]**	**160[4]**	**0.2[3]**

Table 3
Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	PCE[1] (µg/L)	TCE[1] (µg/L)	cis-1-2-DCE[1] (µg/L)	trans-1-2-DCE[1] (µg/L)	Vinyl Chloride[1] (µg/L)
MW31	MW31-20191009	10/09/19	SoundEarth	<1	1.8	<1	<1	<0.2
	MW31-20191205	12/05/19	SoundEarth	<1	3.3	<1	<1	<0.2
	MW31-20200701	07/01/20	SoundEarth	<1	12	<1	<1	<0.2
	MW31-20201211	12/11/20	SoundEarth	<1	17	<1	<1	<0.2
	MW31-20210624	06/24/21	SoundEarth	<1	5.0	<1	<1	<0.2
	MW31-20211215	12/15/21	SoundEarth	<1	6.3	<1	<1	<0.2
	MW31-20220607	06/07/22	SoundEarth	<1	4.2	<1	<1	<0.02
	MW31-20221214	12/14/22	SoundEarth	<1	3.5	<1	<1	<0.02
	MW31-20230621	06/21/23	SoundEarth	<1	4.1	<1	<1	<0.02
	MW31-20231206	12/06/23	SoundEarth	<1	2.6	<1	<1	<0.2
	MW31-20240626	06/26/24	SoundEarth	<1	4.3	<1	<1	<0.2
	Well not sampled 2024 Q4, per Ecology							
Terry Avenue North								
MW15	MW15-20121211	12/11/12	SoundEarth	<1	8.2	<1	<1	<0.2
	MW15-20121221	12/21/12	SoundEarth	<1	7.2	<1	<1	<0.2
	MW15-20130910	09/10/13	SoundEarth	<1	8.6	<1	<1	<0.2
	MW15-20150508	05/08/15	SoundEarth	<1	6.5	<1	<1	<0.2
	MW15-20150805	08/05/15	SoundEarth	<1	5.3	<1	<1	<0.2
	MW15-20151209	12/09/15	SoundEarth	<1	6.8	<1	<1	<0.2
	MW15-20160308	03/08/16	SoundEarth	<1	6.7	<1	<1	<0.2
	MW15-20160713	07/13/16	SoundEarth	<1	5.8	<1	<1	<0.2
	MW15-20161018	10/18/16	SoundEarth	<1	5.3	<1	<1	<0.2
	MW15-20170125	01/25/17	SoundEarth	<1	7.4	<1	<1	<0.2
	MW15-20170531	05/31/17	SoundEarth	<1	7.9	<1	<1	<0.2
	MW15-20170922	09/22/17	SoundEarth	<1	3.9	<1	<1	<0.2
	MW15-20171215	12/15/17	SoundEarth	<1	3.0	<1	<1	<0.2
	MW15-20180309	03/09/18	SoundEarth	<1	3.3	<1	<1	<0.2
	MW15-20180629	06/29/18	SoundEarth	<1	5.1	<1	<1	<0.2
	MW15-20180920	09/20/18	SoundEarth	<1	6.9	<1	<1	<0.2
	MW15-20181214	12/14/18	SoundEarth	<1	7.0	<1	<1	<0.2
	MW15-20190613	06/13/19	SoundEarth	<1	6.8	<1	<1	<0.2
	MW15-20191205	12/05/19	SoundEarth	<1	4.9	<1	<1	<0.2
	MW15-20200626	06/26/20	SoundEarth	<1	1.2	<1	<1	<0.2
	MW15-20201211	12/11/20	SoundEarth	<1	<1	<1	<1	<0.2
	WELL DAMAGED 2021							
MW34	MW34-20211216	12/16/21	SoundEarth	<1	5.3	<1	<1	<0.2
	MW34-20220607	06/07/22	SoundEarth	<1	5.9	<1	<1	<0.02
	MW34-20221214	12/14/22	SoundEarth	<1	5.2	<1	<1	<0.02
	MW34-20230621	06/21/23	SoundEarth	<1	4.8	<1	<1	<0.02
	MW34-20231206	12/06/23	SoundEarth	<1	6.4	<1	<1	<0.2
	Well not sampled 2024, per Ecology							
Thomas Street								
MW14	MW14-20111020	10/20/11	SoundEarth	<1	<1	<1	<1	<0.2
	MW14-20130911	09/11/13	SoundEarth	<1	<1	<1	<1	<0.2
	DECOMMISSIONED 2013							
MW16	MW16-20121211	12/11/12	SoundEarth	16	12	220	<1	0.69
	MW16-20130911	09/11/13	SoundEarth	6.4	5.0	610	<1	1.9
	MW16-20150508	05/08/15	SoundEarth	7.5	7.6	640	<1	2.8
	MW16-20150805	08/05/15	SoundEarth	7.8	7.3	550	<1	2.4
	MW16-20151210	12/10/15	SoundEarth	5.3	4.5	510	<1	3.2
	MW16-20160308	03/08/16	SoundEarth	3.7	2.0	190	<1	1.3
	MW16-20160712	07/12/16	SoundEarth	<1	<1	160	<1	2.0
	MW16-20161019	10/19/16	SoundEarth	5.0	5.4	170	<1	1.2
	MW16-20170125	01/25/17	SoundEarth	6.4	6.8	220	<1	0.98
	MW16-20170531	05/31/17	SoundEarth	5.7	4.4	100	<1	0.49
	MW16-20170922	09/22/17	SoundEarth	5.4	5.2	78	<1	0.40
	MW16-20171229	12/29/17	SoundEarth	7.2	6.4	150	<1	0.89
	MW16-20180309	03/09/18	SoundEarth	7.3	5.5	80	<1	0.35
	WELL DAMAGED 2018							
Commercial Worker Groundwater Remediation Level at the Property[2]				**120**	**12**	**1,600**	**650**	**1.6**
Roadway Excavation Worker Groundwater Remediation Level in ROWs[2]				**760**	**40**	**10,000**	**NA**	**9.9**
MTCA Cleanup Level				**5[3]**	**5[3]**	**16[4]**	**160[4]**	**0.2[3]**

SoundEarth Strategies

Table 3
Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	PCE[1] (µg/L)	TCE[1] (µg/L)	cis-1-2-DCE[1] (µg/L)	trans-1-2-DCE[1] (µg/L)	Vinyl Chloride[1] (µg/L)
MW28	MW28-20190315	03/15/19	SoundEarth	**7.7**	4.7	**67**	<1	**0.47**
	MW28-20190613	06/13/19	SoundEarth	**9.0**	**5.7**	**80**	<1	**0.35**
	MW28-20191009	10/09/19	SoundEarth	**8.7**	**6.1**	**72**	<1	**0.31**
	MW28-20191204	12/04/19	SoundEarth	**8.4**	**4.9**	**52**	<1	**0.27**
	MW28-20200626	06/26/20	SoundEarth	**9.1**	**5.1**	**22**	<1	<0.2
	MW28-20201211	12/11/20	SoundEarth	**8.3**	4.9	**19**	<1	<0.2
	MW28-20210521	05/21/21	SoundEarth	**9.2**	4.3	**17**	<1	<0.2
	MW28-20210623	06/23/21	SoundEarth	**7.0**	3.5	14	<1	<0.2
	MW28-20210817	08/17/21	SoundEarth	**7.6**	3.9	**18**	<1	<0.2
	MW28-20210921	09/21/21	SoundEarth	**7.5**	3.4	15	<1	0.10
	MW28-20211216	12/16/21	SoundEarth	**5.2**	2.8	**17**	<1	<0.2
	MW28-20220609	06/09/22	SoundEarth	2.7	1.4	**23**	<1	0.082
	MW28-20221215	12/15/22	SoundEarth	2.9	1.2	**17**	<1	0.067
	MW28-20230621	06/21/23	SoundEarth	<1	<0.5	5.6	<1	<0.02
	MW28-20231204	12/04/23	SoundEarth	1.6	1.2	10	<1	<0.2
	MW28-20240624	06/24/24	SoundEarth	1.1	1.1	**18**	<1	<0.2
	MW28-20241216	12/16/24	SoundEarth	1.3	0.89	16	<1	<0.2
Fairview Avenue North								
MW-C	MW-C-20130911	09/11/13	SoundEarth	<1	<1	<1	<1	<0.2
Harrison Street								
MW01	MW01-20110525	05/25/11	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20111011	10/11/11	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20130910	09/10/13	SoundEarth	<1	1.4	<1	<1	<0.2
	MW01-20150806	08/06/15	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20160308	03/08/16	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20160712	07/12/16	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20161018	10/18/16	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20170124	01/24/17	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20170531	05/31/17	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20171214	12/14/17	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20180309	03/09/18	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20180628	06/28/18	SoundEarth	<1	1.1	<1	<1	<0.2
	MW01-20180920	09/20/18	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20181214	12/14/18	SoundEarth	<1	1.1	<1	<1	<0.2
	MW01-20190614	06/14/19	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20191205	12/05/19	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20200626	06/26/20	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20201211	12/11/20	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20210624	06/24/21	SoundEarth	<1	<1	<1	<1	<0.2
	MW01-20211215	12/15/21	SoundEarth	<1	0.50	<1	<1	<0.2
	MW01-20220607	06/07/22	SoundEarth	<1	0.73	<1	<1	<0.02
	MW01-20221214	12/14/22	SoundEarth	<1	<0.5	<1	<1	<0.02
	MW01-20230621	06/21/23	SoundEarth	<1	<0.5	<1	<1	<0.02
	MW01-20231206	12/06/23	SoundEarth	<1	<0.5	<1	<1	<0.2
	Well not sampled 2024, per Ecology							
MW02	MW02-20110525	05/25/11	SoundEarth	<1	**5.2**	<1	<1	<0.2
	MW02-20111011	10/11/11	SoundEarth	<1	3.0	<1	<1	<0.2
	MW02-20130911	09/11/13	SoundEarth	<1	3.6	<1	<1	<0.2
	DECOMMISSIONED 2015							
MW03	MW03-20110527	05/27/11	SoundEarth	<1	<1	<1	<1	<0.2
	MW03-20111011	10/11/11	SoundEarth	<1	<1	<1	<1	<0.2
	MW03-20130911	09/11/13	SoundEarth	<1	<1	<1	<1	<0.2
	DECOMMISSIONED 2015							
MW26	MW26-20151210	12/10/15	SoundEarth	<1	**11**	<1	<1	<0.2
	MW26-20160307	03/07/16	SoundEarth	<1	**10**	<1	<1	<0.2
	MW26-20160712	07/12/16	SoundEarth	<1	**12**	<1	<1	<0.2
	MW26-20161018	10/18/16	SoundEarth	<1	**12**	<1	<1	<0.2
	MW26-20170124	01/24/17	SoundEarth	<1	**13**	<1	<1	<0.2
	MW26-20170531	05/31/17	SoundEarth	<1	**7.9**	<1	<1	<0.2
	MW26-20170921	09/21/17	SoundEarth	<1	**7.1**	<1	<1	<0.2
	MW26-20171214	12/14/17	SoundEarth	<1	**15**	1.4	<1	<0.2
	MW26-20180309	03/09/18	SoundEarth	<1	**6.0**	<1	<1	<0.2
	MW26-20180628	06/28/18	SoundEarth	<1	**18**	<1	<1	<0.2
	MW26-20180920	09/20/18	SoundEarth	<1	**18**	<1	<1	<0.2
	MW26-20181214	12/14/18	SoundEarth	<1	**20**	<1	<1	<0.2
	MW26-20190614	06/14/19	SoundEarth	<1	**20**	<1	<1	<0.2
	MW26-20191205	12/05/19	SoundEarth	<1	**13**	<1	<1	<0.2
	MW26-20200626	06/26/20	SoundEarth	<1	**13**	<1	<1	<0.2
	MW26-20201211	12/11/20	SoundEarth	<1	4.0	<1	<1	<0.2
	MW26-20210624	06/24/21	SoundEarth	<1	**6.6**	<1	<1	<0.2
	MW26-20211215	12/15/21	SoundEarth	<1	**7.9**	<1	<1	<0.2
	MW26-20220608	06/08/22	SoundEarth	<1	3.5	<1	<1	0.038
	MW26-20221214	12/14/22	SoundEarth	<1	**10**	<1	<1	<0.2
	MW26-20230622	06/22/23	SoundEarth	<1	**11**	<1	<1	<0.02
	MW26-20231206	12/06/23	SoundEarth	<1	**5.8**	<1	<1	<0.2
	MW26-20240625	06/25/24	SoundEarth	<1	**11**	<1	<1	<0.2
	MW26-20241218	12/18/24	SoundEarth	<1	**15**	<1	<1	<0.2
Commercial Worker Groundwater Remediation Level at the Property[2]				**120**	**12**	**1,600**	**650**	**1.6**
Roadway Excavation Worker Groundwater Remediation Level in ROWs[2]				**760**	**40**	**10,000**	**NA**	**9.9**
MTCA Cleanup Level				**5[3]**	**5[3]**	**16[4]**	**160[4]**	**0.2[3]**

SoundEarth Strategies

Table 3
Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	PCE[1] (µg/L)	TCE[1] (µg/L)	cis-1-2-DCE[1] (µg/L)	trans-1-2-DCE[1] (µg/L)	Vinyl Chloride[1] (µg/L)
MW32	MW32-20191009	10/09/19	SoundEarth	<1	<1	<1	<1	<0.2
	MW32-20191205	12/05/19	SoundEarth	<1	<1	<1	<1	<0.2
	MW32-20200626	06/26/20	SoundEarth	<1	<1	<1	<1	<0.2
	MW32-20201212	12/12/20	SoundEarth	<1	<1	<1	<1	<0.2
	MW32-20210624	06/24/21	SoundEarth	<1	<1	<1	<1	<0.2
	MW32-20211215	12/15/21	SoundEarth	<1	<0.5	<1	<1	<0.2
	MW32-20220607	06/07/22	SoundEarth	<1	<0.5	<1	<1	<0.02
	MW32-20221214	12/14/22	SoundEarth	<1	<0.5	<1	<1	<0.02
	MW32-20230621	06/21/23	SoundEarth	<1	<0.5	<1	<1	<0.02
	MW32-20231205	12/05/23	SoundEarth	<1	<0.5	<1	<1	<0.2
	Well not sampled 2024, per Ecology							
MW33	MW33-20191009	10/09/19	SoundEarth	<1	<1	<1	<1	<0.2
	MW33-20191205	12/05/19	SoundEarth	<1	<1	<1	<1	<0.2
	--	06/26/20	SoundEarth	Well dry, unable to sample				
	--	12/10/20	SoundEarth	Well dry, unable to sample				
	MW33-20210624	06/24/21	SoundEarth	<1	<1	<1	<1	<0.2
	MW33-20211216	12/16/21	SoundEarth	<1	<0.5	<1	<1	<0.2
	MW33-20220607	06/07/22	SoundEarth	<1	<0.5	<1	<1	<0.02
	MW33-20221213	12/13/22	SoundEarth	<1	<0.5	<1	<1	<0.02
	MW33-20230620	06/20/23	SoundEarth	<1	<0.5	<1	<1	<0.02
	MW33-20231205	12/05/23	SoundEarth	<1	<0.5	<1	<1	<0.2
	Well not sampled 2024, per Ecology							
SMW06	SMW06-20130910	09/10/13	SoundEarth	<1	<1	<1	<1	<0.2
Westlake Avenue North								
SMW09	SMW09-20130910	09/10/13	SoundEarth	<1	<1	<1	<1	<0.2
Onni Property								
MW29	MW29-20191008	10/08/19	SoundEarth	8.6	9.4	52	<1	0.64
	MW29-20191204	12/04/19	SoundEarth	16	12	26	<1	0.40
	MW29-20200626	06/26/20	SoundEarth	18	13	16	<1	0.20
	MW29-20201210	12/10/20	SoundEarth	18	13	18	<1	<0.2
	MW29-20210622	06/22/21	SoundEarth	14	11	16	<1	<0.2
	MW29-20211215	12/15/21	SoundEarth	15	12	14	<1	<0.2
	MW29-20220607	06/07/22	SoundEarth	20	15	10	<1	0.13
	DECOMMISSIONED 2022							
MW30	MW30-20191008	10/08/19	SoundEarth	<1	3.6	24	<1	<0.2
	MW30-20191204	12/04/19	SoundEarth	<1	2.0	11	<1	<0.2
	MW30-20200626	06/26/20	SoundEarth	<1	1.0	3.6	<1	<0.2
	MW30-20201210	12/10/20	SoundEarth	<1	2.4	13	<1	<0.2
	MW30-20210623	06/23/21	SoundEarth	<1	2.0	7.4	<1	<0.2
	MW30-20211215	12/15/21	SoundEarth	<1	2.2	5.2	<1	<0.2
	MW30-20220606	06/06/22	SoundEarth	<1	2.3	3.5	<1	0.029
	DECOMMISSIONED 2022							
ONNI-MW-4	ONNI-MW-4-20191208	12/08/19	SoundEarth	<1	<1	<1	<1	<0.2
	ONNI-MW-4-20200625	06/25/20	SoundEarth	<1	<1	<1	<1	<0.2
	ONNI-MW-4-20201210	12/10/20	SoundEarth	<1	<1	<1	<1	<0.2
	ONNI-MW-4-20210622	06/22/21	SoundEarth	<1	<1	<1	<1	<0.2
	ONNI-MW-4-20211215	12/15/21	SoundEarth	<1	<0.5	<1	<1	<0.2
	DECOMMISSIONED 2022							
ONNI-MW-5	ONNI-MW-5-20191208	12/08/19	SoundEarth	<1	<1	<1	<1	0.28
	ONNI-MW-5-20200206	02/06/20	SoundEarth	<1	<1	<1	<1	<0.2
	ONNI-MW-5-20200625	06/25/20	SoundEarth	<1	<1	<1	<1	<0.2
	ONNI-MW-5-20201209	12/09/20	SoundEarth	<1	<1	<1	<1	<0.2
	ONNI-MW-5-20210623	06/23/21	SoundEarth	<1	<1	<1	<1	<0.2
	ONNI-MW-5-20211214	12/14/21	SoundEarth	<1	<0.5	<1	<1	<0.2
	DECOMMISSIONED 2022							
ONNI-MW-9	ONNI-MW-9-20211214	12/14/21	SoundEarth	<1	<0.5	1.3	<1	<0.2
	ONNI-MW-9-20220606	06/06/22	SoundEarth	<1	<0.5	<1	<1	<0.02
	DECOMMISSIONED 2022							
MW29R	MW29R-20230824	08/24/23	SoundEarth	18	11	33	<1	<0.2
	MW29R-20240105	01/05/24	SoundEarth	8.5	2.2	2.3	<1	<0.2
	MW29R-20240625	06/25/24	SoundEarth	11	5.7	4.6	<1	<0.2
	MW29R-20241217	12/17/24	SoundEarth	8.0	4.0	5.0	<1	<0.2
MW35	MW35-20230824	08/24/23	SoundEarth	<1	<0.5	<1	<1	<0.2
	MW35-20240105	01/05/24	SoundEarth	1.4	<0.5	<1	<1	<0.2
	MW35-20240625	06/25/24	SoundEarth	1.7	<0.5	<1	<1	<0.2
	MW35-20241217	12/17/24	SoundEarth	1.8	<0.5	<1	<1	<0.2
Commercial Worker Groundwater Remediation Level at the Property[2]				**120**	**12**	**1,600**	**650**	**1.6**
Roadway Excavation Worker Groundwater Remediation Level in ROWs[2]				**760**	**40**	**10,000**	**NA**	**9.9**
MTCA Cleanup Level				**5[3]**	**5[3]**	**16[4]**	**160[4]**	**0.2[3]**

Table 3
Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	PCE[1] (µg/L)	TCE[1] (µg/L)	cis-1-2-DCE[1] (µg/L)	trans-1-2-DCE[1] (µg/L)	Vinyl Chloride[1] (µg/L)
North-Adjoining Property								
SLU-MW01	MW01-20120229	02/29/12[5]	SoundEarth	<1	<1	<1	<1	<0.2
	DECOMMISSIONED 2013							
SLU-MW02	MW02-20120229	02/29/12[5]	SoundEarth	<1	<1	<1	<1	<0.2
	DECOMMISSIONED 2013							
Commercial Worker Groundwater Remediation Level at the Property[2]				**120**	**12**	**1,600**	**650**	**1.6**
Roadway Excavation Worker Groundwater Remediation Level in ROWs[2]				**760**	**40**	**10,000**	**NA**	**9.9**
MTCA Cleanup Level				**5[3]**	**5[3]**	**16[4]**	**160[4]**	**0.2[3]**

NOTES:

Red denotes concentrations exceeding the applicable MTCA cleanup level for groundwater.

Blue shading indicates concentrations exceeding the Commercial Worker Groundwater remediation level at the Property.

Yellow shading indicates concentrations exceeding the Roadway Excavation Worker Groundwater Remediation Level in ROWs.

[1]Analyzed by EPA Method 8260C, 8021B, or 8240.

[2]Table values in CLARC, Ecology's Guidance for Evaluating Vapor Intrusion in Washington State: Investigation and Remedial Action dated 2009, revised 2022 , and Ecology's South Lake Union Group Memorandum, dated December 14, 2022.

[3]MTCA Method A Cleanup Levels, Table 720-1 of WAC 173-340-900.

[4]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>.

[5]Sample data compiled from reports on file at the Washington State Department of Ecology.

Laboratory Notes:

[cv]The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

[d]The sample was centrifuged prior to analysis.

[ve]Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

[*]The sample was collected with a passive diffusion bag.

< = not detected at a concentration exceeding laboratory reporting limit
µg/L = micrograms per liter
CLARC = Cleanup Levels and Risk Calculations
CVOC = chlorinated volatile organic compound
DCE = dichloroethene
EPA = US Environmental Protection Agency
MTCA = Washington State Model Toxics Control Act
PCE = tetrachloroethene
SoundEarth = SoundEarth Strategies, Inc.
TCE = trichloroethene
WAC = Washington Administrative Code

Table 4
Summary of Groundwater Analytical Results for CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

NOTES:

🟩	Denotes CVOC concentration does not exceed the applicable MTCA cleanup level.
🟥	Denotes CVOC concentration exceeds the applicable MTCA cleanup level.
⬜	Denotes well not sampled and/or inaccessible.

Sample analyses conducted by Friedman & Bruya, Inc. of Seattle, Washington.

No trans-1,2-DCE has been detected above the reporting limit for samples collected at this site.

[1] Samples analyzed by EPA Method 8260C.

[2] DCE refers to the greater concentration of cis-1,2-DCE.

[3] Monitoring well MW16 destroyed during ROW construction in 2018, and replacement well MW28 installed.

[4] Monitoring well MW15 destroyed during construction in 2021, and replacement well MW34 installed.

CVOC = chlorinated volatile organic compound
DCE = dichloroethene
EPA = US Environmental Protection Agency
MTCA = Washington State Model Toxics Control Act
PCE = tetrachloroethene
ROW = right-of-way
TCE = trichloroethene
VC = vinyl chloride

SoundEarth Strategies

Table 5
Groundwater Analytical Results for Petroleum Hydrocarbons
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	DRPH[1] (µg/L)	ORPH[1] (µg/L)	GRPH[2] (µg/L)	Benzene[3] (µg/L)	Toluene[3] (µg/L)	Ethylbenzene[3] (µg/L)	Total Xylenes[3] (µg/L)
Troy Laundry Property										
MW06	MW06-20110531	05/31/11	SoundEarth	330[x]	<250	<100	<1	<1	<1	<3
	MW06-20111011	10/10/11	SoundEarth	83[x]	<250	<100	<1	<1	<1	<3
	MW06-20130909	09/09/13	SoundEarth	150[x]	<250	<100	<1	<1	<1	<3
	DECOMMISSIONED 2013									
MW08	MW08-20111013	10/13/11	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW08-20130910	09/10/13	SoundEarth	120[x]	<250	<100	<1	<1	<1	<3
	DECOMMISSIONED 2013									
MW09	MW09-20111013	10/13/11	SoundEarth	240[x]	<250	1,400	<1	<1	2.7	10
	MW09-20130910	09/10/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	DECOMMISSIONED 2013									
MW10	MW10-20111012	10/12/11	SoundEarth	68[x]	<250	<100	<1	<1	<1	<3
	MW10-20130909	09/09/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	DECOMMISSIONED 2013									
MW11	MW11-20111013	10/13/11	SoundEarth	110[x]	<250	<100	<1	<1	<1	<3
	MW11-20130909	09/09/13	SoundEarth	97[x]	<250	<100	<1	<1	<1	<3
	DECOMMISSIONED 2013									
MW12	MW12-20111017	10/17/11	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW12-20130909	09/09/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	DECOMMISSIONED 2013									
MW17	MW17-20150506	05/06/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW17-20150804	08/04/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW17-20151207	12/07/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW17-20160308	03/08/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW17-20160714	07/14/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW17-20161020	10/20/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW17-20170126	01/26/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW17-20170601	06/01/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW17-20170923	09/23/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW17-20171216	12/16/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW17-20180310	03/10/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW17-20180630	06/30/18	SoundEarth	<60	<300	<100	<1	<1	<1	<3
	MW17-20180922	09/22/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW17-20181215	12/15/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW17-20190615	06/15/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW17-20191207	12/07/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW17-20200627	06/27/20	SoundEarth	<50	<250	<100	<1	<1	<1	<3
MTCA Cleanup Level				**500[4]**	**500[4]**	**1,000/800[4] [5]**	**5[4]**	**1,000[4]**	**700[4]**	**1,000[4]**

SoundEarth Strategies

Table 5
Groundwater Analytical Results for Petroleum Hydrocarbons
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	DRPH[1] (µg/L)	ORPH[1] (µg/L)	GRPH[2] (µg/L)	Benzene[3] (µg/L)	Toluene[3] (µg/L)	Ethylbenzene[3] (µg/L)	Total Xylenes[3] (µg/L)
MW18	MW18-20150506	05/06/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW18-20150803	08/03/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW18-20151208	12/08/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW18-20160308	03/08/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW18-20160714	07/14/16	SoundEarth	31,000[x, ip]	5,100[x, ip]	<100	<0.35	<1	<1	<3
	MW18-20161020	10/20/16	SoundEarth	61,000[x, ip]	<8,400[x, ip]	1,100[x]	<0.35	<1	<1	<3
	MW18-20170126	01/26/17	SoundEarth	22,000[x, ip]	3,500[x, ip]	840	<0.35	<1	<1	<3
	MW18-20170601	06/01/17	SoundEarth	77,000[x, ip]	1,600[x, ip]	470	<0.35	<1	<1	<3
	MW18-20170923	09/23/17	SoundEarth	34,000[x]	<3,500	210	<0.35	<1	<1	<3
	MW18-20171216	12/16/17	SoundEarth	18,000[x, ip]	<2,500[ip]	380	<0.35	<1	<1	<3
	MW18-20180310	03/10/18	SoundEarth	6,000[x]	<2,500	390	<1	1.3	<1	<3
	MW18-20180630	06/30/18	SoundEarth	12,000[x]	1,600[x]	230	<1	1.3	<1	12
	MW18-20180922	09/22/18	SoundEarth	1,400[x, ip]	<2,500[ip]	290	<1	<1	<1	6.9
	MW18-20181215	12/15/18	SoundEarth	1,600[x]	490[x]	<100	<1	<1	<1	<3
	MW18-20190615	06/15/19	SoundEarth	1,100[x]	830[x]	<100	<1	<1	<1	<3
	MW18-20191207	12/07/19	SoundEarth	830[x]	480[x]	<100	<1	<1	<1	<3
	MW18-20200627	06/27/20	SoundEarth	260[x]	<250	<100	<1	<1	<1	<3
MW19	MW19-20150507	05/07/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW19-20150803	08/03/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW19-20151207	12/07/15	SoundEarth	85[x]	<250	<100	<0.35	<1	<1	<3
	MW19-20160308	03/08/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW19-20160713	07/13/16	SoundEarth	21,000[x, ip]	4,100[x, ip]	<100	<0.35	<1	<1	<3
	MW19-20161021	10/21/16	SoundEarth	18,000[x, ip]	2,300[x, ip]	<100	<0.35	<1	<1	<3
	MW19-20170125	01/25/17	SoundEarth	29,000[x]	4,400[x]	210[x]	<0.35	<1	<1	<3
	MW19-20170601	06/01/17	SoundEarth	31,000[x, ip]	3,400[x, ip]	180	<0.35	<1	<1	<3
	MW19-20170923	09/23/17	SoundEarth	27,000[x, ip]	<3,000[ip]	150	<0.35	<1	<1	<3
	MW19-20171216	12/16/17	SoundEarth	9,700[x, ip]	<2,500[ip]	470	<0.35	<1	<1	<3
	MW19-20180310	03/10/18	SoundEarth	1,600[x]	<2,500	250	<1	<1	<1	<3
	MW19-20180630	06/30/18	SoundEarth	13,000[x]	820[x]	310	<1	<1	<1	9.6
	MW19-20180922	09/22/18	SoundEarth	3,300[x, ip]	<2,500[ip]	300	<1	<1	<1	5.0
	MW19-20190615	06/15/19	SoundEarth	650[x]	430[x]	<100	<1	<1	<1	<3
	MW19-20191207	12/07/19	SoundEarth	610[x]	690[x]	<100	<1	<1	<1	<3
	MW19-20200627	06/27/20	SoundEarth	150[x]	380[x]	<100	<1	<1	<1	<3
MTCA Cleanup Level				**500[4]**	**500[4]**	**1,000/800[4] [5]**	**5[4]**	**1,000[4]**	**700[4]**	**1,000[4]**

SoundEarth Strategies

Table 5
Groundwater Analytical Results for Petroleum Hydrocarbons
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	DRPH[1] (µg/L)	ORPH[1] (µg/L)	GRPH[2] (µg/L)	Benzene[3] (µg/L)	Toluene[3] (µg/L)	Ethylbenzene[3] (µg/L)	Total Xylenes[3] (µg/L)
MW20	MW20-20150506	05/06/15	SoundEarth	120[x]	<250	<100	<0.35	<1	<1	<3
	MW20-20150803	08/03/15	SoundEarth	140[x]	<250	<100	<0.35	<1	<1	<3
	MW20-20151207	12/07/15	SoundEarth	84[x]	<250	<100	<0.35	<1	<1	<3
	MW20-20160309	03/09/16	SoundEarth	130[x]	<300	<100	<0.35	<1	<1	<3
	MW20-20160715	07/15/16	SoundEarth	150[x]	<250	<100	<0.35	<1	<1	<3
	MW20-20161020	10/20/16	SoundEarth	110[x]	<250	<100	<0.35	<1	<1	<3
	MW20-20170125	01/25/17	SoundEarth	64[x]	<250	<100	<0.35	<1	<1	<3
	MW20-20170601	06/01/17	SoundEarth	94[x]	<250	<100	<0.35	<1	<1	<3
	MW20-20170924	09/24/17	SoundEarth	130[x]	<300	<100	<0.35	<1	<1	<3
	MW20-20171216	12/16/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW20-20180310	03/10/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW20-20180630	06/30/18	SoundEarth	120[x]	<250	<100	<1	<1	<1	<3
	MW20-20180922	09/22/18	SoundEarth	100[x]	<250	<100	<1	<1	<1	<3
	MW20-20181215	12/15/18	SoundEarth	72[x]	<250	<100	<1	<1	<1	<3
	MW20-20190615	06/15/19	SoundEarth	140[x]	<250	<100	<1	<1	<1	<3
	MW20-20191207	12/07/19	SoundEarth	80[x]	<250	<100	<1	<1	<1	<3
	MW20-20200627	06/27/20	SoundEarth	91[x]	<250	<100	<1	<1	<1	<3
MW21	MW21-20150506	05/06/15	SoundEarth	160[x]	<250	<100	<0.35	<1	<1	<3
	MW21-20150804	08/04/15	SoundEarth	150[x]	<250	<100	<0.35	<1	<1	<3
	MW21-20151208	12/08/15	SoundEarth	110[x]	<250	<100	<0.35	<1	<1	<3
	MW21-20160309	03/09/16	SoundEarth	120[x]	<250	<100	<0.35	<1	<1	<3
	MW21-20160713	07/13/16	SoundEarth	12,000[x]	2,700[x]	<100	<0.35	<1	<1	<3
	MW21-20161020	10/20/16	SoundEarth	77,000[x, ip]	8,600[x, ip]	<100	<0.35	<1	<1	<3
	MW21-20170126	01/26/17	SoundEarth	16,000[x, ip]	10,000[x, ip]	<100	<0.35	<1	<1	<3
	MW21-20170601	06/01/17	SoundEarth	48,000[x, ip]	18,000[x, ip]	130	<0.35	<1	<1	<3
	MW21-20170923	09/23/17	SoundEarth	67,000[x, ip]	7,700[x, ip]	220	<0.35	<1	<1	<3
	MW21-20171216	12/16/17	SoundEarth	27,000[x]	<2,500	390	<0.35	<1	<1	<3
	MW21-20180310	03/10/18	SoundEarth	23,000[x]	<2,500	130	<1	<1	<1	<3
	MW21-2018630	06/30/18	SoundEarth	65,000[x, ip]	5,200[x, ip]	670	<1	3.0	11	11
	MW21-20180922	09/22/18	SoundEarth	53,000[x, ip]	8,600[x, ip]	400	<1	<1	<1	3.4
	MW21-20181215	12/15/18	SoundEarth	47,000[x]	2,100[x]	180	<1	<1	<1	6.5
	MW21-20190615	06/15/19	SoundEarth	6,400[x]	<2,500	<100	<1	<1	<1	3.8
	MW21-20191207	12/07/19	SoundEarth	21,000[x]	2,100[x]	300	<1	<1	<1	4.8
	MW21-20200627	06/27/20	SoundEarth	120,000[x]	3,500[x, ip]	1,100	1.8	5.9	<1	19
	MW21-20201212	12/12/20	SoundEarth	36,000[x]	6,500[x]	460	--	--	--	--
	MW21-20210625	06/25/21	SoundEarth	74,000[x,ve]	5,400[x]	1,000	--	--	--	--
	MW21-20211217	12/17/21	SoundEarth	48,000[x]	5,800[x]	<1,000	--	--	--	--
	MW21-20220609	06/09/22	SoundEarth	47,000[x]	3,700[x]	210	--	--	--	--
	MW21-20221215	12/15/22	SoundEarth	14,000[x]	4,200[x]	200	--	--	--	--
	MW21-20230623	06/23/23	SoundEarth	5,900[x]	3,800[x]	<100	--	--	--	--
	MW21-20231207	12/07/23	SoundEarth	8,500[x]	4,400[x]	<100	--	--	--	--
	MW21-20240627	06/27/24	SoundEarth	3,900[x]	850[x]	<100	--	--	--	--
	MW21-20241220	12/20/24	SoundEarth	4,400[x]	710[x]	130	--	--	--	--
MTCA Cleanup Level				**500[4]**	**500[4]**	**1,000/800[4] [5]**	**5[4]**	**1,000[4]**	**700[4]**	**1,000[4]**

SoundEarth Strategies

Table 5
Groundwater Analytical Results for Petroleum Hydrocarbons
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	DRPH[1] (µg/L)	ORPH[1] (µg/L)	GRPH[2] (µg/L)	Benzene[3] (µg/L)	Toluene[3] (µg/L)	Ethylbenzene[3] (µg/L)	Total Xylenes[3] (µg/L)
MW22	MW22-20150506	05/06/15	SoundEarth	97[x]	<250	<100	<0.35	<1	<1	<3
	MW22-20150804	08/05/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW22-20151208	12/08/15	SoundEarth	69[x]	<300	<100	<0.35	<1	<1	<3
	MW22-20160308	03/08/16	SoundEarth	110[x]	<250	<100	<0.35	<1	<1	<3
	MW22-20160713	07/13/16	SoundEarth	8,000[x, ip]	2,100[x, ip]	140	<0.35	<1	<1	<3
	MW22-20161020	10/20/16	SoundEarth	29,000[x, ip]	7,500[x, ip]	130	<0.35	<1	<1	<3
	MW22-20170126	01/26/17	SoundEarth	13,000[x, ip]	13,000[x, ip]	730	<0.35	<1	<1	<3
	MW22-20170601	06/01/17	SoundEarth	59,000[x]	8,700[x]	660	<0.35	<1	<1	<3
	MW22-20170923	09/23/17	SoundEarth	85,000[x,ip]	<2,500[ip]	390	<0.35	<1	<1	<3
	MW22-20171216	12/16/17	SoundEarth	58,000[x,ip]	<3,000[ip]	1,800	<0.35	<1	<1	<3
	MW22-20180310	03/10/18	SoundEarth	50,000[x]	<2,500	530	<0.35	<1	<1	10
	MW22-20180630	06/30/18	SoundEarth	86,000[x, ip]	4,500[x, ip]	620	<1	<1	<1	34
	MW22-20180922	09/22/18	SoundEarth	73,000[x, ip]	6,800[x, ip]	320	<1	<1	<1	21
	MW22-20181215	12/15/18	SoundEarth	49,000[x]	7,700[x]	180	<1	<1	<1	14
	MW22-20190615	06/15/19	SoundEarth	24,000[x]	4,600[x]	170	<1	<1	<1	21
	MW22-20191207	12/07/19	SoundEarth	40,000[x]	3,400[x]	810	<1	<1	<1	74
	MW22-20200627	06/27/20	SoundEarth	25,000[x]	1,100[x]	340	<1	<1	<1	4.3
	MW22-20201212	12/12/20	SoundEarth	12,000[x]	4,100[x]	570	--	--	--	--
	MW22-20210625	06/25/21	SoundEarth	20,000[x]	1,800[x]	540	--	--	--	--
	MW22-20211217	12/17/21	SoundEarth	47,000[x]	5,700[x]	<1,000	--	--	--	--
	MW22-20220609	06/09/22	SoundEarth	7,800[x]	630[x]	<100	--	--	--	--
	MW22-20221216	12/16/22	SoundEarth	12,000[x]	2,200[x]	150	--	--	--	--
	MW22-20230623	06/23/23	SoundEarth	2,900[x]	1,500[x]	120	--	--	--	--
	MW22-20231207	12/07/23	SoundEarth	3,100[x]	720[x]	<100	--	--	--	--
	MW22-20240627	06/27/24	SoundEarth	5,000[x]	490[x]	<100	--	--	--	--
	MW22-20241220	12/20/24	SoundEarth	4,500[x]	840[x]	120	--	--	--	--
MW23	MW23-20150507	05/07/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW23-20150804	08/04/15	SoundEarth	520[x]	<250	<100	<0.35	<1	<1	<3
	MW23-20151208	12/08/15	SoundEarth	190[x]	<300	<100	<0.35	<1	<1	<3
	MW23-20160308	03/08/16	SoundEarth	410[x]	<250	<100	<0.35	<1	<1	<3
	MW23-20160714	07/14/16	SoundEarth	26,000[x, ip]	1,500[x, ip]	190	<0.35	<1	<1	<3
	MW23-20161020	10/20/16	SoundEarth	80,000[x, ip]	<5,000[ip]	350	<0.35	<1	<1	<3
	MW23-20170126	01/26/17	SoundEarth	14,000[x, ip]	5,600[x, ip]	240	<0.35	<1	<1	<3
	MW23-20170601	06/01/17	SoundEarth	140,000[x, ip]	4,000[x, ip]	210	<0.35	<1	<1	<3
	MW23-20170923	09/23/17	SoundEarth	140,000[x]	<2,500	170	<0.35	<1	<1	<3
	MW23-20171216	12/16/17	SoundEarth	110,000[x, ip]	<2,500[ip]	2,200	<0.35	<1	<1	<3
	MW23-20180310	03/10/18	SoundEarth	11,000[x]	<2,500	600	<1	<1	<1	4.6
	MW23-20180630	06/30/18	SoundEarth	30,000[x]	1,000[x]	540	<1	<1	<1	31
	MW23-20180922	09/22/18	SoundEarth	19,000[x, ip]	<2,600[ip]	150	<1	<1	<1	11
	MW23-20181215	12/15/18	SoundEarth	14,000[x]	500[x]	180	<1	<1	<1	7.1
	MW23-20190615	06/15/19	SoundEarth	3,400[x]	<2,500	260	<1	<1	<1	7.1
	MW23-20191207	12/07/19	SoundEarth	1,400[x]	790[x]	<100	<1	<1	<1	<3
	MW23-20200627	06/27/20	SoundEarth	360[x]	<250	<100	<1	<1	<1	<3
MTCA Cleanup Level				**500[4]**	**500[4]**	**1,000/800[4] [5]**	**5[4]**	**1,000[4]**	**700[4]**	**1,000[4]**

SoundEarth Strategies

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Groundwater Analytical Results for Petroleum Hydrocarbons
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	DRPH[1] (µg/L)	ORPH[1] (µg/L)	GRPH[2] (µg/L)	Benzene[3] (µg/L)	Toluene[3] (µg/L)	Ethylbenzene[3] (µg/L)	Total Xylenes[3] (µg/L)
MW24	MW24-20150506	05/06/15	SoundEarth	93[x]	<250	<100	<0.35	<1	<1	<3
	MW24-20150804	08/04/15	SoundEarth	94[x]	<250	<100	<0.35	<1	<1	<3
	MW24-20151208	12/08/15	SoundEarth	240[x]	<250	<100	<0.35	<1	<1	<3
	MW24-20160309	03/09/16	SoundEarth	130[x]	<250	<100	<0.35	<1	<1	<3
	MW24-20160715	07/15/16	SoundEarth	13,000[x, ip]	1,400[x, ip]	<100	<0.35	<1	<1	<3
	MW98-20160715 (DUP)		SoundEarth	11,000[x, ip]	1,900[x, ip]	<100	<0.35	<1	<1	<3
	MW24-20161020	10/20/16	SoundEarth	3,200[x,ip]	1,900[x,ip]	<100	<0.35	<1	<1	<3
	MW24-20170125	01/25/17	SoundEarth	12,000[x]	2,000[x]	<100	<0.35	<1	<1	<3
	MW24-20170601	06/01/17	SoundEarth	510,000[x, ip]	27,000[x, ip]	<100	<0.35	<1	<1	<3
	MW24-20170601	09/24/17	SoundEarth	39,000[x, ip]	<3,000[ip]	250	<0.35	<1	<1	<3
	MW24-20171216	12/16/17	SoundEarth	10,000[x]	<3,000	990	<0.35	<1	<1	<3
	MW24-20180310	03/10/18	SoundEarth	990[x]	<2,500	460	<1	<1	<1	3.7
	MW24-20180630	06/30/18	SoundEarth	75,000[x, ip]	7,700[x,ip]	2,700	<1	3.6	6.5	110
	MW24-20180922	09/22/18	SoundEarth	7,800[x, ip]	<2,500[ip]	190	<1	<1	<1	7.5
	MW24-20181215	12/15/18	SoundEarth	20,000[x]	2,700[x]	<100	<1	<1	<1	<3
	MW24-20190615	06/15/19	SoundEarth	6,400[x]	<2,500	<100	<1	<1	<1	<3
	MW24-20191207	12/07/19	SoundEarth	7,100[x]	1,400[x]	<100	<1	<1	<1	<3
	MW24-20200627	06/27/20	SoundEarth	700[x, ip]	570[x, ip]	<100	<1	<1	<1	<3
MTCA Cleanup Level				**500[4]**	**500[4]**	**1,000/800[4] [5]**	**5[4]**	**1,000[4]**	**700[4]**	**1,000[4]**

SoundEarth Strategies

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Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	DRPH[1] (µg/L)	ORPH[1] (µg/L)	GRPH[2] (µg/L)	Benzene[3] (µg/L)	Toluene[3] (µg/L)	Ethylbenzene[3] (µg/L)	Total Xylenes[3] (µg/L)
MW25	MW25-20150507	05/07/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW99-20150507 (DUP)			<50	<250	<100	<0.35	<1	<1	<3
	MW25-20150805	08/05/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW99-20150805 (DUP)			<50	<250	<100	<0.35	<1	<1	<3
	MW25-20151209	12/09/15	SoundEarth	86[x]	<250	<100	<0.35	<1	<1	<3
	MW99-20151209 (DUP)			100[x]	<300	<100	<0.35	<1	<1	<3
	MW25-20160308	03/08/16	SoundEarth	190[x]	<250	<100	<0.35	<1	<1	<3
	MW99-20160308(DUP)			160[x]	<250	<100	<0.35	<1	<1	<3
	MW25-20160713	07/13/16	SoundEarth	**43,000**[x]	**5,000**[x]	110	<0.35	<1	<1	<3
	MW25-20161019	10/19/16	SoundEarth	**26,000**[x]	**1,500**[x]	160	--	--	--	--
	MW99-20161019(DUP)			**29,000**[x]	**1,600**[x]	160	--	--	--	--
	MW25-20170125	01/25/17	SoundEarth	**8,200**[x]	340[x]	120[x]	<0.35	<1	<1	<3
	MW99-20170125(DUP)			**6,900**[x]	350[x]	150[x]	<0.35	<1	<1	<3
	MW25-20170601	06/01/17	SoundEarth	**50,000**[x, ip]	**<1,000**[ip]	370	<0.35	<1	<1	<3
	MW99-20170601(DUP)			**46,000**[x, ip]	**<1,000**[ip]	410	<0.35	<1	<1	<3
	MW25-20170923	09/23/17	SoundEarth	**12,000**[x, ip]	**<2,500**[ip]	270	<0.35	<1	<1	<3
	MW99-20170923(DUP)			**13,000**[x, ip]	**<2,500**[ip]	220	<0.35	<1	<1	<3
	MW25-20171216	12/16/17	SoundEarth	**4,000**[x, ip]	**<3,000**[ip]	580	<0.35	<1	<1	<3
	MW99-20171216 (DUP)			**4,000**[x, ip]	**<3,000**[ip]	700	<0.35	<1	<1	<3
	MW25-20180310	03/10/18	SoundEarth	**3,300**[x]	**<2,500**	490	<1	<1	<1	4.7
	MW99-20180310 (DUP)			**3,800**[x]	**<2,500**	510	<1	<1	<1	4.5
	MW25-20180630	06/30/18	SoundEarth	**5,300**[x, ip]	**630**[x, ip]	490	<1	<1	<1	31
	MW99-20180630 (DUP)			**5,500**[x, ip]	410[x, ip]	340	<1	<1	<1	26
	MW25-20180922	09/22/18	SoundEarth	**1,500**[x, ip]	**<2,500**[ip]	300	<1	<1	<1	17
	MW99-20180922 (DUP)			**1,900**[x, ip]	**<2,500**[ip]	160	<1	<1	<1	13
	MW25-20181215	12/15/18	SoundEarth	**1,100**[x]	<250	<100	<1	<1	<1	<3
	MW99-20181215 (DUP)			**960**[x]	<250	<100	<1	<1	<1	<3
	MW25-20190615	06/15/19	SoundEarth	**1,000**[x]	**<2,500**	<100	<1	<1	<1	<3
	MW99-20190615 (DUP)			**1,100**[x]	**<2,500**	<100	<1	<1	<1	<3
	MW25-20191207	12/07/19	SoundEarth	240[x]	<250	<100	<1	<1	<1	<3
	MW99-20191207 (DUP)			300[x]	<250	<100	<1	<1	<1	<3
	MW25-20200627	06/27/20	SoundEarth	130[x]	<250	<100	<1	<1	<1	<3
	MW99-20200627 (DUP)			190[x]	<250	<100	<1	<1	<1	<3
MTCA Cleanup Level				**500**[4]	**500**[4]	**1,000/800**[4][5]	**5**[4]	**1,000**[4]	**700**[4]	**1,000**[4]

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Sample Location	Sample Identification	Sample Date	Sampled By	DRPH[1] (µg/L)	ORPH[1] (µg/L)	GRPH[2] (µg/L)	Benzene[3] (µg/L)	Toluene[3] (µg/L)	Ethylbenzene[3] (µg/L)	Total Xylenes[3] (µg/L)
IW04	IW04-20150508	05/08/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	IW04-20170601	06/01/17	SoundEarth	--	--	--	<0.35	<1	<1	<3
IW06	IW06-20150507	05/07/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
IW50	IW50-20150803	08/03/15	SoundEarth	5,000[x]	<250	<100	<0.35	<1	<1	<3
	IW50-20160715	07/15/16	SoundEarth	39,000[x]	1,900[x]	640	<0.35	<1	<1	<3
IW91	IW91-20150506	05/06/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	IW91-20150804	08/04/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	IW91-20151208	12/08/15	SoundEarth	<60	<300	<100	<0.35	<1	<1	<3
	IW91-20160309	03/09/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	IW91-20160714	07/14/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	IW91-20161020	10/20/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	IW91-20170126	01/26/17	SoundEarth	200[x]	<300	<100	<0.35	<1	<1	<3
	IW91-20170601	06/01/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	IW91-20170923	09/23/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	IW91-20171216	12/16/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	IW91-20180310	03/10/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	IW91-20180630	06/30/18	SoundEarth	<60	<300	<100	<1	<1	<1	<3
	IW91-20180922	09/22/18	SoundEarth	<60	<300	<100	<1	<1	<1	<3
	IW91-20181215	12/15/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	IW91-20190615	06/15/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	IW91-20191207	12/07/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	IW91-20200627	06/27/20	SoundEarth	60[x]	<250	<100	<1	<1	<1	<3
MTCA Cleanup Level				**500[4]**	**500[4]**	**1,000/800[4][5]**	**5[4]**	**1,000[4]**	**700[4]**	**1,000[4]**

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Sample Location	Sample Identification	Sample Date	Sampled By	DRPH[1] (µg/L)	ORPH[1] (µg/L)	GRPH[2] (µg/L)	Benzene[3] (µg/L)	Toluene[3] (µg/L)	Ethylbenzene[3] (µg/L)	Total Xylenes[3] (µg/L)
Boren Avenue North										
MW04	MW04-20110527	05/27/11	SoundEarth	<50	<250	<100	<1	1.3	<1	<3
	MW04-20111012	10/12/11	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW04-20130909	09/09/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW04-20150508	05/08/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW04-20150806	08/06/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW04-20151209	12/09/15	SoundEarth	<60	<300	<100	<0.35	<1	<1	<3
	MW04-20160308	03/08/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW04-20160713	07/13/16	SoundEarth	<56	<280	<100	<0.35	<1	<1	<3
	MW04-20161019	10/19/16	SoundEarth	<50	<250	<100	--	--	--	--
	MW04-20170124	01/24/17	SoundEarth	150[x]	<250	<100	<0.35	<1	<1	<3
	MW04-20170531	05/31/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW04-20170921	09/21/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW04-20171214	12/14/17	SoundEarth	<60	<300	<100	<0.35	<1	<1	<3
	MW04-20180309	03/09/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW04-20180629	06/29/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW04-20180920	09/20/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW04-20181214	12/14/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW04-20190614	06/14/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW04-20191205	12/05/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW04-20200626	06/26/20	SoundEarth	130[x]	<250	<100	<1	<1	<1	<3
MW05	MW05-20110527	05/27/11	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW05-20111012	10/12/11	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW05-20130910	09/10/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	DECOMMISSIONED 2015									
MTCA Cleanup Level				**500[4]**	**500[4]**	**1,000/800[4][5]**	**5[4]**	**1,000[4]**	**700[4]**	**1,000[4]**

SoundEarth Strategies

Table 5
Groundwater Analytical Results for Petroleum Hydrocarbons
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	DRPH[1] (µg/L)	ORPH[1] (µg/L)	GRPH[2] (µg/L)	Benzene[3] (µg/L)	Toluene[3] (µg/L)	Ethylbenzene[3] (µg/L)	Total Xylenes[3] (µg/L)
MW07	MW07-20110531	05/31/11	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW07-20111012	10/12/11	SoundEarth	240[x]	<250	<100	<1	<1	<1	<3
	MW07-20130909	09/09/13	SoundEarth	120[x]	<250	<100	<1	<1	<1	<3
	MW07-20150508	05/08/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW07-20150805	08/05/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW07-20151209	12/09/15	SoundEarth	<60	<300	<100	<0.35	<1	<1	<3
	MW07-20160308	03/08/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW07-20160713	07/13/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW07-20161019	10/19/16	SoundEarth	76[x]	<250	<100	--	--	--	--
	MW07-20170124	01/24/17	SoundEarth	120[x]	<250	<100	<0.35	<1	<1	<3
	MW07-20170531	05/31/17	SoundEarth	54[x]	<250	<100	<0.35	<1	<1	<3
	MW07-20180308	03/08/18	SoundEarth	<50	<250	<100	<1	<1	<1	<1
	MW07-20180629	06/29/18	SoundEarth	<60	<300	<100	<1	<1	<1	<3
	MW07-20180920	09/20/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW07-20181214	12/14/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW07-20190614	06/14/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW07-20191205	12/05/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW07-20200630	06/30/20	SoundEarth	<50	<250	<100	<1	<1	<1	<3
MW13	MW13-20111020	10/20/11	SoundEarth	150[x]	<250	<100	<1	<1	<1	<3
	MW13-20130910	09/10/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW13-20150511	05/11/15	SoundEarth	<70	<350	<100	<0.35[cf]	<1[cf]	<1[cf]	<3[cf]
	MW13-20150805	08/05/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW13-20151215	12/15/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW13-20160307	03/07/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW13-20160712	07/12/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW13-20161019	10/19/16	SoundEarth	<50	<250	<100	--	--	--	--
	MW13-20170124	01/24/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW13-20170531	05/31/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW13-20170921	09/21/17	SoundEarth	120[x]	<300	<100	<0.35	<1	<1	<3
	MW13-20171214	12/14/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW13-20180308	03/08/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW13-20180629	06/29/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW13-20180920	09/20/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW13-20181214	12/14/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW13-20190614	06/14/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW13-20191205	12/05/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW13-20200626	06/26/20	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW13-20201210	12/10/20	SoundEarth	80[x]	<250	<100	<1	<1	<1	<3
	MW13-20210623	06/23/21	SoundEarth	100[x]	<300	<100	<1	<1	<1	<3
	MW13-20211216	12/16/21	SoundEarth	<50	<250	<100	--	--	--	--
	MW13-20220608	06/08/22	SoundEarth	<50	<250	<100	--	--	--	--
	MW13-20221214	12/14/22	SoundEarth	88[x]	<280	<100	--	--	--	--
	MW13-20230622	06/22/23	SoundEarth	<50	<250	<100	--	--	--	--
	MW13-20231206	12/06/23	SoundEarth	<50	<250	<100	--	--	--	--
	MW13-20240626	06/26/24	SoundEarth	<50	<250	<100	--	--	--	--
	MW13-20241216	12/16/24	SoundEarth	<50	<250	<100	--	--	--	--
MTCA Cleanup Level				**500[4]**	**500[4]**	**1,000/800[4] [5]**	**5[4]**	**1,000[4]**	**700[4]**	**1,000[4]**

SoundEarth Strategies

Table 5
Groundwater Analytical Results for Petroleum Hydrocarbons
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	DRPH[1] (µg/L)	ORPH[1] (µg/L)	GRPH[2] (µg/L)	Benzene[3] (µg/L)	Toluene[3] (µg/L)	Ethylbenzene[3] (µg/L)	Total Xylenes[3] (µg/L)
MW27	MW27-20151210	12/10/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW27-20160307	03/07/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW27-20160713	07/13/16	SoundEarth	<52	<260	<100	<0.35	<1	<1	<3
	MW27-20161019	10/19/16	SoundEarth	<50	<250	<100	--	--	--	--
	MW27-20170124	01/24/17	SoundEarth	<60	<300	<100	<0.35	<1	<1	<3
	MW27-20170531	05/31/17	SoundEarth	<60	<300	<100	<0.35	<1	<1	<3
	MW27-20170921	09/21/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW27-20171214	12/14/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW27-20180308	03/08/18	SoundEarth	540[x]	<250	<100	<1	<1	<1	<3
	MW27-20180628	06/28/18	SoundEarth	<60	<300	<100	<1	<1	<1	<3
	MW27-20180920	09/20/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW27-20181214	12/14/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW27-20190614	06/14/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW27-20191205	12/05/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW27-20200626	06/26/20	SoundEarth	<50	<250	<100	<1	<1	<1	<3
Terry Avenue North										
MW15	MW15-20121211	12/11/12	SoundEarth	--	--	<100	<0.35	<1	<1	<3
	MW15-20130910	09/10/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW15-20150508	05/08/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW15-20150805	08/05/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW15-20151209	12/09/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW15-20160308	03/08/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW15-20160713	07/13/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW15-20161018	10/18/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW15-20170125	01/25/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW15-20170531	05/31/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW15-20170922	09/22/17	SoundEarth	<60	<300	<100	<0.35	<1	<1	<3
	MW15-20171215	12/15/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW15-20180309	03/09/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW15-20180629	06/29/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW15-20180920	09/20/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW15-20181214	12/14/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW15-20190613	06/13/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW15-20191205	12/05/19	SoundEarth	78[x]	<250	<100	<1	<1	<1	<3
	MW15-20200626	06/26/20	SoundEarth	<52	<250	<100	<1	<1	<1	<3
	Well Damaged 2021									
MTCA Cleanup Level				**500[4]**	**500[4]**	**1,000/800[4] [5]**	**5[4]**	**1,000[4]**	**700[4]**	**1,000[4]**

SoundEarth Strategies

Table 5
Groundwater Analytical Results for Petroleum Hydrocarbons
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	DRPH[1] (µg/L)	ORPH[1] (µg/L)	GRPH[2] (µg/L)	Benzene[3] (µg/L)	Toluene[3] (µg/L)	Ethylbenzene[3] (µg/L)	Total Xylenes[3] (µg/L)
Thomas Street										
MW14	MW14-20111020	10/20/11	SoundEarth	160[x]	<250	<100	<1	<1	<1	<3
	MW14-20130911	09/11/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	DECOMMISSIONED									
MW16	MW16-20121211	12/11/12	SoundEarth	420[x]	<250	640	<0.35	<1	<1	1.1
	MW16-20130911	09/11/13	SoundEarth	170[x]	<250	110	<1	<1	<1	<3
	MW16-20150508	05/08/15	SoundEarth	150[x]	<250	<100	<0.35	<1	<1	<3
	MW16-20150805	08/05/15	SoundEarth	210[x]	<250	<100	<0.35	<1	<1	<3
	MW16-20151210	12/10/15	SoundEarth	420[x]	<250	110	<0.35	<1	<1	<3
	MW16-20160308	03/08/16	SoundEarth	410[x]	<250	140	<0.35	<1	<1	<3
	MW16-20160712	07/12/16	SoundEarth	**510**[x]	<250	130	<0.35	<1	<1	<3
	MW16-20161019	10/19/16	SoundEarth	310[x]	<250	<100	--	--	--	--
	MW16-20170125	01/25/17	SoundEarth	140[x]	<250	<100	<0.35	<1	<1	<3
	MW16-20170531	05/31/17	SoundEarth	**740**[x]	<250	140	<0.35	<1	<1	<3
	MW16-20170922	09/22/17	SoundEarth	**570**	<250	130	<0.35	<1	<1	<3
	MW16-20171229	12/29/17	SoundEarth	160[x]	<250	120	<0.35	<1	<1	<3
	MW16-20180309	03/09/18	SoundEarth	260[x]	<250	120	<1	<1	<1	<3
	WELL DAMAGED 2018									
MW28	MW28-20190613	06/13/19	SoundEarth	140[x]	<250	160	<1	<1	<1	<3
	MW28-20191205	12/05/19	SoundEarth	98[x]	<250	150	<1	<1	<1	<3
	MW28-20200626	06/26/20	SoundEarth	120[x]	<250	140	<1	<1	<1	<3
	MW28-20201211	12/11/20	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW28-20210623	06/23/21	SoundEarth	120[x]	<250	<100	<1	<1	<1	<3
	MW28-20211216	12/16/21	SoundEarth	190[x]	600	<100	--	--	--	--
	MW28-20220609	06/09/22	SoundEarth	190	350	<100	--	--	--	--
	MW28-20221215	12/15/22	SoundEarth	160[x]	<260	<100	<0.35	<1	<1	<3
	MW28-20230621	06/21/23	SoundEarth	67[x]	<250	<100	--	--	--	--
	MW28-20231204	12/04/23	SoundEarth	54[x]	<250	<100	--	--	--	--
	MW28-20240624	06/24/24	SoundEarth	93[x]	<300	<100	--	--	--	--
	MW28-20241216	12/16/24	SoundEarth	**1,000**[x]	**4,300**	<100	--	--	--	--
Fairview Avenue North										
MW-C	MW-C-20130911	09/11/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
MTCA Cleanup Level				**500**[4]	**500**[4]	**1,000/800**[4] [5]	**5**[4]	**1,000**[4]	**700**[4]	**1,000**[4]

SoundEarth Strategies

Table 5
Groundwater Analytical Results for Petroleum Hydrocarbons
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	DRPH[1] (µg/L)	ORPH[1] (µg/L)	GRPH[2] (µg/L)	Benzene[3] (µg/L)	Toluene[3] (µg/L)	Ethylbenzene[3] (µg/L)	Total Xylenes[3] (µg/L)
Harrison Street										
MW01	MW01-20110525	05/25/11	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW01-20111011	10/11/11	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW01-20130910	09/10/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW01-20150806	08/06/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW01-20160308	03/08/16	SoundEarth	<65	<330	<100	<0.35	<1	<1	<3
	MW01-20160712	07/12/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW01-20161018	10/18/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW01-20170124	01/24/17	SoundEarth	<25	<125	<100	<0.35	<1	<1	<3
	MW01-20170531	05/31/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW01-20171214	12/14/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW01-20180309	03/09/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW01-20180628	06/28/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW01-20180920	09/20/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW01-20181214	12/14/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW01-20190614	06/14/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW01-20191205	12/05/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW01-20200626	06/26/20	SoundEarth	57[x]	<250	<100	<1	<1	<1	<3
MW02	MW02-20110525	05/25/11	SoundEarth	100[x]	<250	<100	<1	<1	<1	<3
	MW02-20111011	10/11/11	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW02-20130911	09/11/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	DECOMMISSIONED 2015									
MW03	MW03-20110527	05/27/11	SoundEarth	130[x]	<250	<100	<1	<1	<1	<3
	MW03-20111011	10/11/11	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW03-20130911	09/11/13	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	DECOMMISSIONED 2015									
MTCA Cleanup Level				**500[4]**	**500[4]**	**1,000/800[4][5]**	**5[4]**	**1,000[4]**	**700[4]**	**1,000[4]**

SoundEarth Strategies

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Groundwater Analytical Results for Petroleum Hydrocarbons
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Sample Location	Sample Identification	Sample Date	Sampled By	DRPH[1] (µg/L)	ORPH[1] (µg/L)	GRPH[2] (µg/L)	Benzene[3] (µg/L)	Toluene[3] (µg/L)	Ethylbenzene[3] (µg/L)	Total Xylenes[3] (µg/L)
MW26	MW26-20151210	12/10/15	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW26-20160307	03/07/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW26-20160712	07/12/16	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW26-20161018	10/18/16	SoundEarth	59[x]	<250	<100	<0.35	<1	<1	<3
	MW26-20170124	01/24/17	SoundEarth	<60	<300	<100	<0.35	<1	<1	<3
	MW26-20170531	05/31/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW26-20170921	09/21/17	SoundEarth	130[x]	<250	<100	<0.35	<1	<1	<3
	MW26-20171214	12/14/17	SoundEarth	<50	<250	<100	<0.35	<1	<1	<3
	MW26-20180309	03/09/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW26-20180628	06/28/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW26-20180920	09/20/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW26-20181214	12/14/18	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW26-20190614	06/14/19	SoundEarth	<50	<250	<100	<1	<1	<1	<3
	MW26-20191205	12/05/19	SoundEarth	**680**[x]	<250	<100	<1	<1	<1	<3
	MW26-20200626	06/26/20	SoundEarth	<50	<250	<100	<1	<1	<1	<3
SMW06	SMW06-20130910	09/10/13	SoundEarth	130[x]	<250	400	<1	<1	3.5	3.7
Westlake Avenue North										
SMW09	SMW09-20130910	09/10/13	SoundEarth	79[x]	<250	<100	<1	<1	<1	<3
North-Adjoining Property										
SLU-MW01	MW01-20120229	02/29/12[6]	SoundEarth	150	<250	--	--	--	--	--
	DECOMMISSIONED 2013									
SLU-MW02	MW02-20120229	02/29/12[6]	SoundEarth	<50	<250	--	--	--	--	--
	DECOMMISSIONED 2013									
MTCA Cleanup Level				**500[4]**	**500[4]**	**1,000/800[4][5]**	**5[4]**	**1,000[4]**	**700[4]**	**1,000[4]**

NOTES:

Red denotes concentrations exceeding the MTCA Method cleanup level for groundwater.

[1]Analyzed by Method NWTPH-Dx. The supply well samples collected in August 2010 were passed through a silica gel column prior to analysis to remove organic interference.

[2]Analyzed by EPA Method 418.1 or Method NWTPH-Gx.

[3]Analyzed by EPA Method 8260C, 8021B, or 8240.

[4]MTCA Method A Cleanup Levels, Table 720-1 of WAC 173-340-900.

[5]1,000 µg/L when benzene is not present and 800 µg/L when benzene is present.

[6]Sample data compiled from reports on file at the Washington State Department of Ecology.

Laboratory Notes:

[d]The sample was centrifuged prior to analysis.

[ip]Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

[ve]The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

[x]The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

-- = not analyzed, measured, or calculated

< = not detected at a concentration exceeding laboratory reporting limit

µg/L = micrograms per liter

DRPH = diesel-range petroleum hydrocarbons

EPA = US Environmental Protection Agency

GRPH = gasoline-range petroleum hydrocarbons

MTCA = Washington State Model Toxics Control Act

NWTPH = Northwest Total Petroleum Hydrocarbon

ORPH = heavy oil-range petroleum hydrocarbons

SoundEarth = SoundEarth Strategies, Inc.

WAC = Washington Administrative Code

Table 6
Groundwater Analytical Results for Natural Attenuation Parameters
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Well Identification	Sample Identification	Sample Date	Analytical Results									
			Dissolved Oxygen[1] (mg/L)	Nitrate[2] (mg/L)	Total Manganese[3] (µg/L)	Total Iron[3] (mg/L)	Ferrous Iron[4] (mg/L)	Ferric Iron[5] (mg/L)	Sulfate[2] (mg/L)	Methane[6] (µg/L)	Ethane[6] (µg/L)	Ethene[6] (µg/L)
Troy Laundry Property												
MW18	MW18-20150506	05/06/15	1.99	5.44	83.7	0.0919	0.0400	0.0519	47.0	<5	<10	<10
	MW18-20150803	08/03/15	2.66	--	--	--	--	--	--	--	--	--
	MW18-20151208	12/08/15	1.64	--	--	--	--	--	43.6	<5	<10	<10
	MW18-20160714	07/14/16	0.47	--	--	--	--	--	1.54	170	<10	<10
	MW18-20170126	01/26/17	1.50	--	--	--	--	--	--	2,200	<10	<10
	MW18-20170601	06/01/17	0.58	--	--	--	--	--	--	3,500	<10	<10
	MW18-20170923	09/23/17	0.48	--	--	--	--	--	--	3,900	<10	<10
	MW18-20171216	12/16/17	0.77	--	--	--	--	--	--	2,400	<10	<10
	MW18-20180310	03/10/18	0.38	--	--	--	--	--	--	4,700	<10	<10
	MW18-20180630	06/30/18	0.68	--	--	--	--	--	--	6,300	<10	<10
	MW18-20180922	09/22/18	0.19	--	--	--	--	--	--	4,200[ve]	<10	<10
	MW18-20181215	12/15/18	0.62	<1.00[D,H]	10,800	12.300	<0.0500[H]	12.3	<3.00[D]	6,400	<10	<10
	MW18-20190615	06/15/19	0.30	<0.100[H]	10,100	13.500	8.35[D,H]	5.2	0.422[H]	5,290[D]	<809[D]	<757[D]
	MW18-20191207	12/07/19	0.69	<0.100[H]	9,660	13.800	15.6[D,H]	--	<0.300	2,230[D]	<16.2	<15.1
	MW18-20200627	06/27/20	0.18	<0.100[H]	8,960	14.300	19.9[D,H]	--	0.479	5,520[D]	<16.2	<15.1
	MW18-20201212	12/12/20	2.98	<0.100[H]	7,980	12.900	17.6[D,H]	--	6.23	8,780[D]	<16.2	<15.1
	MW18-20210625	06/25/21	0.91	--	8,900	13.900	16.3[D,H]	--	<3.00[D]	5,190[D]	<15.1	<14.6
	MW18-20211217	12/17/21	0.13	<0.100[H]	9,610	15.700	11.0[D,H]	4.7	<0.600	8,110[D]	<15.1	<14.6
	MW18-20220609	06/09/22	0.30	<0.500[DH]	9,920	15.800	17.3[D,H]	--	<3.00[D]	12,900[D]	<15.1	<14.6
	MW18-20221215	12/15/22	0.16	<2.00[D]	9,320	18.200	1.19[D]	17.01	0.259[J]	6,840[D]	<15.1	<14.6
	MW18-20230622	06/22/23	0.18	<0.500[D,H]	7,740	18.600	18.4[D,H]	0.20	<3.00[D]	2,930[D]	<15.1	<14.6
	MW18-20231207	12/07/23	0.23	<0.100[H]	11,000	23.400	23.3[D,H]	0.10	<0.600	8,650[D]	<15.1	<14.6
	MW18-20240627	06/27/24	0.86	<2.00[D]	10,000	24.000	24.3[D,H]	--	2.39	9,170[D]	<10.0	<10.0
	MW18-20241219	12/19/24	0.17	<0.150[H]	7,800	29.000	28.1[DH]	0.9	2.09	9,420[D]	<10.0	<10.0
MW19	MW19-20150507	05/07/15	1.75	4.98	71.6	0.156	<0.0300	0.156	50.3	<5	<10	<10
	MW19-20150803	08/03/15	2.33	--	--	--	--	--	--	--	--	--
	MW19-20190615	06/15/19	0.28	<0.100[H]	11,400	10.000	7.81[D,H]	2.2	0.380[H]	2,530[D]	<324[D]	<303[D]
	MW19-20191207	12/07/19	0.54	<0.100[H]	9,030	13.300	12.6[D,H]	0.7	<0.300	6,520[D]	<16.2	<15.1
	MW19-20200627	06/27/20	0.27	<0.100[H]	14,000	18.100	24.3[D,H]	--	0.550	3,410[D]	<16.2	<15.1
	MW19-20201212	12/12/20	11.88*	<0.100[H]	14,400	16.700	22.3[D,H]	--	1.15	9,010[D]	<16.2	<15.1
	MW19-20210625	06/25/21	0.81	--	15,200	18.200	14.5[D,H]	3.7	<2.40[D]	5,840[D]	<15.1	<14.6
	MW19-20211217	12/17/21	0.08	<0.200[D,H]	12,600	15.900	14.1[D,H]	1.8	<1.20[D]	6,600[D]	<15.1	<14.6
	MW19-20220609	06/09/22	0.35	<0.500[D,H]	9,700	16.900	24.2[D,H]	--	<3.00[D]	6,700[D]	<15.1	<14.6
	MW19-20221216	12/16/22	0.19	<1.00[D,H]	4,460	10.100	23.3[D,H]	--	<6.00[D]	7,040[D]	<15.1	<14.6
	MW19-20230622	06/22/23	0.15	<0.500[D,H]	14,600	26.600	20.7[D,H]	5.9	<3.00[D]	2,370[D]	<15.1	<14.6
	MW19-20231207	12/07/23	0.62	<0.100[H]	10,300	22.200	21.2[D,H]	1.0	<0.600	8,620[D]	<15.1	<14.6
	MW19-20240627	06/27/24	0.16	<2.00[D]	9,300	20.000	19.9[D,H]	0.1	<10.0[D]	8,260[D]	<10.0	<10.0
	MW19-20241219	12/19/24	0.29	<0.300[DH]	11,000	23.000	22.2[DH]	0.8	<2.00[D]	9,020[D]	<10.0	<10.0
MW21	MW21-20170601	06/01/17	0.54	--	--	--	--	--	--	3,500	<10	<10
	MW21-20170923	09/23/17	0.69	--	--	--	--	--	--	4,000	<10	<10
	MW21-20171216	12/16/17	2.67	--	--	--	--	--	--	4,800	<10	<10
	MW21-20180310	03/10/18	0.71	--	--	--	--	--	--	5,400	<10	<10
	MW21-20180630	06/30/18	0.34	--	--	--	--	--	--	4,400	<10	<10
	MW21-20180922	09/22/18	0.33	--	--	--	--	--	--	2,800[ve]	<10	<10
	MW21-20181215	12/15/18	1.57	--	--	--	--	--	--	4,800	<10	<10
	MW21-20190615	06/15/19	0.19	--	--	--	--	--	--	2,460[D]	<809[D]	<757[D]
	MW21-20191207	12/07/19	0.77	--	--	--	--	--	--	3,980[D]	<16.2	<15.1
	MW21-20200627	06/27/20	0.17	--	--	--	--	--	--	1,790[D]	<16.2	<15.1
	MW21-20201212	12/12/20	0.20	--	--	--	--	--	--	7,520[D]	<16.2	<15.1
	MW21-20210625	06/25/21	0.49	--	--	--	--	--	--	4,970[D]	<15.1	<14.6
	MW21-20211217	12/17/21	0.68	--	--	--	--	--	--	5,020[D]	<15.1	<14.6
	MW21-20220609	06/09/22	0.30	--	--	--	--	--	--	6,570[D]	<15.1	<14.6
	MW21-20221215	12/15/22	0.14	--	--	--	--	--	--	3,230[D]	<15.1	<14.6
	MW21-20230623	06/23/23	0.20	--	--	--	--	--	--	1,870[D]	<15.1	<14.6
	MW21-20240627	06/27/24	0.63	--	--	--	--	--	--	5,570[D]	<10.0	<10.0
	MW21-20241220	12/20/24	0.33	--	--	--	--	--	--	5,260[D]	<10.0	<10.0
MW22	MW22-20181215	12/15/18	0.67	1.09[D,H]	13,000	6.010	4.06[D,H]	1.950	<3.00[D]	4,900	<10	<10
	MW22-20190615	06/15/19	0.38	<1.00[H]	11,400	11.200	11.6[D,H]	--	<0.300[H]	3,090[D]	<809[D]	<757[D]
	MW22-20191207	12/07/19	2.02	<0.200[DH]	10,900	8.010	7.41	0.6	0.762[D]	5,370[D]	<16.2	<15.1
	MW22-20200627	06/27/20	0.40	<0.200[DH]	9,810	8.000	11.0[DH]	--	<0.600[D]	1,780[D]	<16.2	<15.1
	MW22-20201212	12/12/20	0.31	<0.200[DH]	10,800	15.000	22.0[DH]	--	<0.600[D]	6,290[D]	<16.2	<15.1
	MW22-20210625	06/25/21	0.55	--	11,000	11.700	14.9[DH]	--	<6.00[D]	2,560[D]	<15.1	<14.6
	MW22-20211217	12/17/21	0.68	<0.500[DH]	10,600	11.800	16.4[DH]	--	<3.00[D]	4,510[D]	<15.1	<14.6
	MW22-20220609	06/09/22	0.35	<0.500[DH]	10,600	14.500	19.0[DH]	--	<3.00[D]	4,070[D]	<15.1	<14.6
	MW22-20221216	12/16/22	0.13	<1.00[DH]	5,010	5.820	15.0[DH]	--	<1.95[D,J]	5,190[D]	<15.1	<14.6
	MW22-20230623	06/23/23	0.13	<0.500[DH]	9,840	13.300	13.9[DH]	--	<3.00[D]	1,350[D]	<15.1	<14.6
	MW22-20231207	12/07/23	0.68	<0.100[H]	10,700	14.600	18.1[DH]	--	<0.600	3,330[D]	<15.1	<14.6
	MW22-20240627	06/27/24	0.08	<2.00[D]	9,800	22.000	15.4[D]	6.6	<10.0[D]	4,530[D]	<10.0	<10.0
	MW22-20241220	12/20/24	0.20	<0.150[H]	13,000	14.000	15.5[DH]	--	<1.00	8,560[D]	<10.0	<10.0
MW23	MW23-20150507	05/07/15	2.19	8.84	173	0.262	0.0800	0.182	49.2	<5	<10	<10
	MW23-20150804	08/04/15	0.73	--	--	--	--	--	--	--	--	--
	MW23-20170601	06/01/17	0.49	--	--	--	--	--	--	2,600	<10	<10
	MW23-20170923	09/23/17	0.46	--	--	--	--	--	--	1,700	<10	<10
	MW23-20171216	12/16/17	0.84	--	--	--	--	--	--	3,700	<10	<10
	MW23-20180310	03/10/18	2.25	--	--	--	--	--	--	3,900	<10	<10
	MW23-20180630	06/30/18	0.70	--	--	--	--	--	--	3,400	<10	<10
	MW23-20180922	09/22/18	0.31	--	--	--	--	--	--	4,600[ve]	<10	<10
	MW23-20181215	12/15/18	0.79	<1.00[D,H]	32,300	14.300	3.95[D,H]	10.4	<3.00[D]	3,800	<10	<10
	MW23-20190615	06/15/19	0.50	<0.100[H]	26,700	12.300	13.0[DH]	--	0.378[H]	2,900[D]	<809[D]	<757[D]
	MW23-20191207	12/07/19	2.12	<0.200[DH]	22,100	14.600	7.41[DH]	7.2	0.762[D]	5,370[D]	<16.2	<15.1
	MW23-20200627	06/27/20	0.18	<0.100[H]	16,500	9.070	12.6[DH]	--	0.508	4,590[D]	<16.2	<15.1
	MW23-20201212	12/12/20	0.29	<0.200[DH]	15,200	12.700	16.8[DH]	--	0.634[D]	10,100[D]	<16.2	<15.1
	MW23-20210625	06/25/21	0.29	--	14,600	10.400	13.6[DH]	--	<3.00[D]	3,840[D]	<15.1	<14.6
	MW23-20211217	12/17/21	0.39	<0.200[DH]	11,700	11.500	15.2[DH]	--	<1.20[D]	4,990[D]	<15.1	<14.6
	MW23-20240627	06/27/24	0.53	<2.00[D]	12,000	5.800	5.35[D]	0.5	1.33	10,100[D]	<10.0	<10.0
	MW23-20241219	12/19/24	0.92	<0.150[H]	12,000	5.900	6.05[DH]	--	1.91	10,000[D]	<10.0	<10.0

SoundEarth Strategies

Table 6
Groundwater Analytical Results for Natural Attenuation Parameters
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Well Identification	Sample Identification	Sample Date	Analytical Results									
			Dissolved Oxygen[1] (mg/L)	Nitrate[2] (mg/L)	Total Manganese[3] (µg/L)	Total Iron[3] (mg/L)	Ferrous Iron[4] (mg/L)	Ferric Iron[5] (mg/L)	Sulfate[2] (mg/L)	Methane[6] (µg/L)	Ethane[6] (µg/L)	Ethene[6] (µg/L)
MW24	MW24-20150506	05/06/15	1.04	1.93	18.2	0.0714	0.0300	0.041	16.3	<5	<10	<10
	MW24-20150804	08/04/15	0.45	--	--	--	--	--	--	--	--	--
	MW24-20151208	12/08/15	1.00	--	--	--	--	--	15.8	<5	<10	<10
	MW24-20160715	07/15/16	0.29	--	--	--	--	--	1.56	13[jl]	<10	<10
	MW24-20170125	01/25/17	1.10	--	--	--	--	--	<1.50	2,100	<10	<10
	MW24-20170601	06/01/17	0.38	--	--	--	--	--	--	4,500	<10	<10
	MW24-20170924	09/24/17	0.27	--	--	--	--	--	--	2,800	<10	<10
	MW24-20171216	12/16/17	2.69	--	--	--	--	--	--	3,600	<10	<10
	MW24-20180310	03/10/18	0.70	--	--	--	--	--	--	3,900[ve]	<10	<10
	MW24-20180630	06/30/18	0.44	--	--	--	--	--	--	1,800	<10	<10
	MW24-20180630	06/30/18	3.20	--	--	--	--	--	--	1,300	<10	<10
	MW24-20181215	12/15/18	0.44	<1.00[D,H]	17,400	11.300	1.53[H]	9.8	<3.00[D]	3,600	<10	<10
	MW24-20190615	06/15/19	0.29	<0.100[H]	21,900	11.600	11.1[DH]	0.5	0.348[H]	2,660[D]	<809[D]	<757[D]
	MW24-20191207	12/07/19	0.66	<0.100[H]	20,700	10.700	10.6[DH]	0.1	<0.300	3,960[D]	<16.2	<15.1
	MW24-20200627	06/27/20	0.26	<0.100[H]	21,900	9.830	15.9[DH]	--	0.309	5,460[D]	<16.2	<15.1
	MW24-20201212	12/12/20	2.03	<0.100[H]	20,900	13.500	17.8[DH]	--	0.300	4,170[D]	<16.2	<15.1
	MW24-20210625	06/25/21	0.93	--	24,500	18.300	21.9[DH]	--	<3.00[D]	6,190[D]	<15.1	<14.6
	MW24-20211217	12/17/21	0.12	<0.200[DH]	26,500	14.800	18.7[DH]	--	<1.20[D]	7,660[D]	<15.1	<14.6
	MW24-20220609	06/09/22	0.32	<0.500[DH]	20,800	12.600	16.3[DH]	--	<3.00[D]	5,440[D]	<15.1	<14.6
	MW24-20221216	12/16/22	0.23	<1.00[DH]	38,900	22.300	14.6[DH]	7.7	<6.00[D]	11,900[D]	<15.1	<14.6
	MW24-20230623	06/23/23	0.23	<0.500[DH]	22,700	12.800	12.3[DH]	0.5	<3.00[D]	4,020[D]	<15.1	<14.6
	MW24-20231207	12/07/23	0.88	<0.100[H]	22,900	12.700	12.7[DH]	0.0	1.92	4,340[D]	<15.1	<14.6
	MW24-20240627	06/27/24	1.53	<2.00[D]	19,000	13.000	11.7[DH]	1.3	2.96	9,810[D]	<10.0	<10.0
	MW24-20241220	12/20/24	1.08	<0.150[H]	9,700	6.800	14.8[DH]	--	3.06	7,700[D]	<10.0	<10.0
MW25	MW25-20150507	05/07/15	2.87	8.32	190	1.850	0.190[RA]	1.66	56.7	<5	<10	<10
	MW25-20150805	08/06/15	1.47	--	--	--	--	--	--	--	--	--
	MW25-20181215	12/15/18	0.69	<1.00[D,H]	14,600	9.970	<0.0500[H]	9.97	<3.00[D]	8,900	<10	<10
	MW25-20190615	06/15/19	0.59	<0.100[H]	9,560	12.300	7.60[DH]	4.7	0.380[H]	9,670[DE]	<324[D]	<303[D]
	MW25-20191207	12/07/19	0.63	<0.100[H]	6,850	13.500	13.8[DH]	--	<0.300	7,480[D]	<16.2	<15.1
	MW25-20200627	06/27/20	0.23	<0.100[H]	5,290	15.100	20.1[DH]	--	0.473	10,200[D]	<16.2	<15.1
	MW25-20201212	12/12/20	23.36*	<0.100[H]	7,390	16.200	21.6[DH]	--	0.342	5,690[D]	<16.2	<15.1
	MW25-20210625	06/25/21	0.82	--	8,010	19.300	25.6[DH]	--	<3.00[D]	7,390[D]	<15.1	<14.6
	MW25-20211217	12/17/21	0.24	<0.200[D,H]	8,390	15.500	18.8[DH]	--	4.71[D]	3,960[D]	<15.1	<14.6
	MW25-20220609	06/09/22	0.37	<0.500[D,H]	9,180	8.990	6.18[DH]	2.81	21.7[D]	6,990[D]	<15.1	<14.6
	MW25-20221216	12/16/22	0.17	<0.500[D,H]	7,600	5.620	5.54[DH]	0.08	28.6[D]	9,830[D]	<15.1	<14.6
	MW25-20230623	06/23/23	0.22	<0.100	5,980	4.730	4.43[DH]	0.30	31.1[D]	3,460[D]	<15.1	<14.6
	MW25-20231207	12/07/23	0.66	<0.100[H]	6,130	5.170	4.69[DH]	0.48	32.3[D]	4,570[D]	<15.1	<14.6
	MW25-20240627	06/27/24	0.42	<2.00[D]	5,300	5.500	5.96[DH]	--	35.6[D]	10,600[D]	<10.0	<10.0
	MW25-20241219	12/19/24	0.27	<0.150[H]	5,200	5.700	6.40[DH]	--	36.0	9,720[D]	<10.0	<10.0
IW04	IW04-20150508	05/08/15	6.28*	3.75	12.0	0.230	<0.0300	0.23	34.1	<5	<10	<10
	IW04-20181215	12/15/18	0.64	1.03[D,H]	11,800	19.700	0.169[H]	19.53	8.89[D]	--	--	--
	IW04-20190615	06/15/19	0.24	<0.100[H]	12,900	17.900	0.0865[H]	17.81	0.759	--	--	--
	IW04-20191207	12/07/19	0.98	<0.200[DH]	11,700	15.600	<0.0500	15.60	0.912[D]	--	--	--
	IW04-20200627	06/27/20	5.31*	<0.100[H]	10,600	16.400	25.3[DH]	--	0.492	--	--	--
	IW04-20201212	12/12/20	2.00	<0.100[H]	11,100	16.500	18.5[DH]	--	0.347	--	--	--
	IW04-20210625	06/25/21	0.76	--	11,200	16.800	23.3[DH]	--	<3.00[D]	--	--	--
	IW04-20211217	12/17/21	0.19	<0.100[H]	11,500	15.800	23.1[DH]	--	<0.600	--	--	--
	IW04-20220609	06/09/22	0.35	<0.500[DH]	10,600	16.200	22.2[DH]	--	<3.00[D]	--	--	--
	IW04-20221215	12/15/22	0.17	<2.00[D]	7,730	16.400	19.3[D]	--	0.970[D,J]	--	--	--
	IW04-20230622	06/22/23	0.23	<0.500[D,H]	6,030	15.500	19.4[D,H]	--	<3.00[D]	--	--	--
	IW04-20231207	12/07/23	0.68	<0.100[H]	6,060	16.400	18.5[D,H]	--	<0.600	--	--	--
	IW04-20240627	06/27/24	0.31	<2.00[D]	5,900	18.000	18.2[D,H]	--	<2.50[DH]	--	--	--
	IW04-20241219	12/19/24	0.41	<0.150[H]	5,600	19.000	20.3[DH]	--	6.25	--	--	--
IW50	IW50-20170602	06/02/17	0.60	--	--	--	--	--	--	3,700	<10	<10
	IW50-20170924	09/24/17	0.24	--	--	--	--	--	--	3,200	<10	<10
	IW50-20171216	12/16/17	2.71	--	--	--	--	--	--	5,900	<10	<10
	IW50-20180310	03/10/18	0.40	--	--	--	--	--	--	5,100	<10	<10
	IW50-20180630	06/30/18	0.31	--	--	--	--	--	--	2,700	<10	<10
	IW50-20180922	09/22/18	0.66	--	--	--	--	--	--	4,000[ve]	<10	<10
	IW50-20181215	12/15/18	1.28	<1.00[D,H]	11,900	10.300	1.88[H]	8.42	12.1[D]	6,100	<10	<10
	IW50-20190615	06/15/19	0.38	<0.100[H]	9,670	7.550	7.08[DH]	0.47	11.0	3,110[D]	<324[D]	<303[D]
	IW50-20191207	12/07/19	1.02	<0.100[H]	8,090	7.170	7.46[DH]	--	11.0	4,120[D]	<16.2	<15.1
	IW50-20200627	06/27/20	8.61*	0.232[H]	15,800	16.900	25.0[DH]	--	2.47	3,690[D]	<16.2	<15.1
	IW50-20201212	12/12/20	0.24	<0.400[DH]	13,200	18.000	24.2[DH]	--	1.34[D]	13.500[D]	<16.2	<15.1
	IW50-20210625	06/25/21	0.17	--	13,400	16.400	24.8[DH]	--	<3.00[D]	3,920[D]	<15.1	<14.6
	IW50-20211217	12/17/21	0.05	<0.200	15,500	17.000	22.4[DH]	--	<1.20D	6,890[D]	<15.1	<14.6
	IW50-20220609	06/09/22	0.32	<0.500[DH]	13,400	12.900	19.3[DH]	--	<3.00[D]	5,340[D]	<15.1	<14.6
	IW50-20221216	12/16/22	0.17	<0.500[DH]	5,070	4.160	11.2[DH]	--	4.19[D]	8,070[D]	<15.1	<14.6
	IW50-20230623	06/23/23	0.18	<0.500[DH]	9,670	9.540	13.2[DH]	--	8.06[D]	5,010[D]	<15.1	<14.6
	IW50-20231207	12/07/23	1.66	<0.100[H]	9,940	8.580	9.84[DH]	--	10.0	4,930[D]	<15.1	<14.6
	IW50-20240627	06/27/24	0.61	<2.00[D]	7,800	6.500	6.16[D]	0.34	16.4[D]	7,650[D]	<10.0	<10.0
	IW50-20241220	12/20/24	0.19	<0.150[H]	12,000	19.000	19.7[DH]	--	<1.00	5,910[D]	<10.0	<10.0
IW61	IW61-20170602	06/02/17	0.49	--	--	--	--	--	--	4,900	<10	<10
	IW61-20170923	09/23/17	0.79	--	--	--	--	--	--	4,400	<10	<10
	IW61-20171216	12/16/17	0.79	--	--	--	--	--	--	3,000	<10	<10
	IW61-20180310	03/10/18	1.28	--	--	--	--	--	--	3,400	<10	<10
	IW61-20180630	06/30/18	0.39	--	--	--	--	--	--	2,900	<10	<10
	IW61-20180922	09/22/18	0.17	--	--	--	--	--	--	5,400[ve]	<10	<10
	IW61-20181215	12/15/18	0.73	<1.00[D,H]	20,100	50.500	8.83[D,H]	41.67	<3.00[D]	5,500	<10	<10
	IW61-20190615	06/15/19	0.32	<0.100[H]	11,800	25.500	30.5[D,H]	--	0.338	2,440[D]	<324[D]	<303[D]
	IW61-20191207	12/07/19	0.82	<0.100[H]	11,000	22.300	24.8[D,H]	--	<0.300	3,860[D]	<16.2	<15.1
	IW61-20200627	06/27/20	0.23	<0.100[H]	10,300	24.400	38.1[D,H]	--	0.615	3,100[D]	<16.2	<15.1
	IW61-20201212	12/12/20	0.34	<0.100[H]	12,600	25.700	32.8[D,H]	--	<0.300	4,580[D]	<16.2	<15.1
	IW61-20210625	06/25/21	0.25	--	13,000	24.500	31.5[D,H]	--	<3.00[D]	2,430[D]	<15.1	<14.6
	IW61-20211217	12/17/21	0.43	0.248[D,H]	12,300	20.600	30.4[D,H]	--	<1.20[D]	5,040[D]	<15.1	<14.6
	IW61-20220609	06/09/22	0.78	<0.500[D,H]	13,200	20.700	29.0[D,H]	--	<3.00[D]	4,120[D]	<15.1	<14.6
	IW61-20221216	12/16/22	0.25	<1.00[D,H]	23,600	34.100	22.1[D,H]	12.0	<6.00[D]	5,120[D]	<15.1	<14.6
	IW61-20230623	06/23/23	0.18	<0.500[D,H]	14,400	17.600	21.4[D,H]	--	<3.00[D]	2,360[D]	<15.1	<14.6
	IW61-20231207	12/07/23	0.64	<0.100[H]	13,100	13.400	17.4[D,H]	--	<0.600	3,910[D]	<15.1	<14.6
	IW61-20240627	06/27/24	0.34	<2.00[D]	13,000	11.000	11.7[D]	--	<10.0[D]	9,220[D]	<10.0	<10.0
	IW61-20241220	12/20/24	0.56	<0.150[H]	14,000	16.000	15.8[DH]	0.20	<1.00	8,930[D]	<10.0	<10.0

Table 6
Groundwater Analytical Results for Natural Attenuation Parameters
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Well Identification	Sample Identification	Sample Date	Analytical Results									
			Dissolved Oxygen[1] (mg/L)	Nitrate[2] (mg/L)	Total Manganese[3] (µg/L)	Total Iron[3] (mg/L)	Ferrous Iron[4] (mg/L)	Ferric Iron[5] (mg/L)	Sulfate[2] (mg/L)	Methane[6] (µg/L)	Ethane[6] (µg/L)	Ethene[6] (µg/L)
Boren Avenue North												
MW04	MW04-20110527	05/27/11	6.24	--	--	--	--	--	--	--	--	--
	MW04-20111012	10/12/11	6.17	--	--	--	--	--	--	--	--	--
	MW04-20130909	09/09/13	5.49	--	--	--	--	--	--	--	--	--
	MW04-20150508	05/08/15	0.433	16.7	3.32	0.0667	<0.0300	0.0667	45.6	<5	<10	<10
	MW04-20150806	08/06/15	6.09	--	--	--	--	--	--	--	--	--
	MW04-20181214	12/14/18	4.83	17.9[D,H]	22.9	0.506	0.0677[H]	0.4383	43.2[D]	<5	<10	<10
	MW04-20190614	06/14/19	4.15	14.8[D,H]	15.9	0.327	0.129	0.198	46.7[D]	<8.63	<16.2	<15.1
	MW04-20191205	12/05/19	7.97	24.4[D,H]	7.59	0.254	<0.0500	0.254	41.4[D]	<8.63	<16.2	<15.1
	MW04-20200626	06/26/20	7.78	6.32[D,H]	3.63	0.158	<0.0500[H]	0.158	40.7[D]	107	<16.2	<15.1
	MW04-20201211	12/11/20	6.63	7.14[D,H]	11.6	0.388	<0.0500[H]	0.388	40.0[D]	<8.63	<16.2	<15.1
	MW04-20210623	06/23/21	2.23	4.86[D]	24.1	1.630	<0.100[H]	1.63	41.9[D]	<6.75	<15.1	<14.6
	MW04-20211215	12/15/21	1.07	9.95[D,H]	2.26	0.104	<0.100	0.104	33.1[D]	<6.75	<15.1	<14.6
	MW04-20220607	06/07/22	5.75	24.6[D,H]	<10	<0.5	<0.100	<0.5	35.7[D]	<6.75	<15.1	<14.6
	MW04-20221214	12/14/22	8.16	24.4[D,H]	7.44	0.203	0.0682[J,H]	0.1348	36.7[D]	<6.75	<15.1	<14.6
	MW04-20230622	06/22/23	7.79	21.8[D,H]	<1	0.123	<0.150[H]	0.123	41.4[D]	<6.75	<15.1	<14.6
	MW04-20231208	12/08/23	7.52	17.2[D,H]	1.68	0.0888	<0.150[H]	0.089	42.8[D]	<6.75	<15.1	<14.6
	MW04-20240626	06/26/24	7.62	18.7[D]	7.2	0.160	<1.50[DH]	0.160	47.4[D]	<5.0	<10.0	<10.0
	MW04-20241218	12/18/24	6.36	13.4[D]	11	0.220	<0.150	0.220	49.4[D]	<5.0	<10.0	<10.0
MW07	MW07-20110531	05/31/11	5.70	--	--	--	--	--	--	--	--	--
	MW07-20111012	10/12/11	2.92	--	--	--	--	--	--	--	--	--
	MW07-20130909	09/09/13	2.71	--	--	--	--	--	--	--	--	--
	MW07-20150508	05/08/15	4.79	30.1	18.2	0.0825	<0.0300	0.0825	41.1	<5	<10	<10
	MW07-20150805	08/05/15	4.65	--	--	--	--	--	--	--	--	--
	MW07-20170531	05/31/17	4.45	--	--	--	--	--	--	<5	<10	<10
	MW07-20180308	03/08/18	7.75	--	--	--	--	--	--	<5	<10	<10
	MW07-20180629	06/29/18	7.38	--	--	--	--	--	--	<5	<10	<10
	MW07-20180920	09/20/18	8.76	--	--	--	--	--	--	<5	<10	<10
	MW07-20181214	12/14/18	7.57	26.5[D,H]	13.5	0.117	0.0959[H]	0.021	56.1[D]	<5	<10	<10
	MW07-20190614	06/14/19	7.91	29.1[D,H]	9.26	0.225	0.0818	0.143	51.0[D]	<8.63	<16.2	<15.1
	MW07-20191205	12/05/19	6.85	34.9[D,H]	5.89	0.203	0.0654[H]	0.138	49.6[D]	<8.63	<16.2	<15.1
	MW07-20200630	06/30/20	4.95	--	6.24	0.111	<0.0500[H]	0.111	41.7[D]	<8.63	<16.2	<15.1
	MW07-20201210	12/10/20	1.39	13.4[D,H]	3.91	0.0926	<0.0500[H]	0.093	30.7[D]	328[D]	<16.2	<15.1
	MW07-20210623	06/23/21	4.91	14.0[D,H]	15.2	0.166	<0.100[H]	0.166	32.0[D]	317[D]	<15.1	<14.6
	MW07-20211215	12/15/21	1.12	9.72[D,H]	8.50	0.133	<0.100	0.133	17.4[D]	<6.75	<15.1	<14.6
	MW07-20220607	06/07/22	7.57	34.8[D,H]	86.5	<0.5	<0.100	--	38.7[D]	<6.75	<15.1	<14.6
	MW07-20221214	12/14/22	8.46	34.2[D,H]	28.0	0.327	0.205[H]	0.122	39.9[D]	<6.75	<15.1	<14.6
	MW07-20230622	06/22/23	6.97	31.0[D,H]	9.04	0.293	<0.150[H]	0.293	41.7[D]	<6.75	<15.1	<14.6
	MW07-20231208	12/08/23	8.22	27.9[D,H]	10.5	0.280	<0.150[H]	0.280	32.6[D]	<6.75	<15.1	<14.6
	MW07-20240626	06/26/24	6.91	30.2[D]	4.2	0.110	<1.50[DH]	0.110	38.0[D]	<5.0	<10	<10
	MW07-20241218	12/18/24	7.28	20.8[D]	8.7	0.110	<0.150	0.110	33.8[D]	<5.0	<10	<10
MW13	MW13-20111020	10/20/11	2.12	--	--	--	--	--	--	--	--	--
	MW13-20130910	09/10/13	3.67	--	--	--	--	--	--	--	--	--
	MW13-20150511	05/11/15	4.71	5.07	2.770	73.200	4.60	68.60	44.5	<5	<10	<10
	MW13-20150805	08/05/15	3.91	--	--	--	--	--	--	--	--	--
	MW13-20211216	12/16/21	4.30	--	--	--	--	--	--	--	--	--
Thomas Street												
MW16	MW16-20130911	09/11/13	3.64	--	--	--	--	--	--	--	--	--
	MW16-20150508	05/08/15	0.68	0.694	484	0.488	0.0700	0.418	7.28	<5	<10	<10
	MW16-20150805	08/05/15	0.40	--	--	--	--	--	--	--	--	--
	MW16-20151210	12/10/15	0.73	--	--	--	--	--	8.09	<5	<10	<10
	MW16-20160712	07/12/16	0.47	--	--	--	--	--	4.57	2,500[ve]	<10	<10
	MW16-20170125	01/25/17	0.46	--	--	--	--	--	14.2	530	<10	<10
	MW16-20170531	05/31/17	0.65	--	--	--	--	--	--	25	<10	<10
	MW16-20170922	09/22/17	0.72	--	--	--	--	--	--	8	<10	<10
	MW16-20171229	12/29/17	2.13	--	--	--	--	--	--	340	<10	<10
	MW16-20180309	03/09/18	0.23	--	--	--	--	--	--	6.5	<10	<10
	WELL DAMAGED 2018											
MW28	MW28-20190613	06/13/19	1.08	<0.500[D,H]	1,140	1.100	1.02[H]	0.080	2.10[D]	15.3	<16.2	<15.1
	MW28-20191204	12/04/19	0.24	<0.200[D,H]	651	1.550	1.26[H]	0.290	<0.600[D]	59	<16.2	<15.1
	MW28-20200626	06/26/20	0.55	<0.200[D,H]	452	1.450	1.48[H]	--	0.391	43.8	<16.2	<15.1
	MW28-20201211	12/11/20	1.47	<0.200[D,H]	470	0.576	0.359[H]	0.217	0.748[D]	72.3	<16.2	<15.1
	MW28-20210623	06/23/21	3.67	<0.100[H]	617	1.340	1.28[H]	0.060	9.58	53.2	<15.1	<14.6
	MW28-20211216	12/16/21	0.44	0.110[J,D,H]	744	7.380	1.17[H]	6.210	8.39[D]	143	<15.1	<14.6
	MW28-20220609	06/09/22	1.12	<0.500[D,H]	678	2.840	1.14[H]	1.700	7.32[D]	34.3	<15.1	<14.6
	MW28-20221215	12/15/22	2.17	<2.00[D]	512	1.340	0.826[H]	0.514	1.59	13.1	<15.1	<14.6
	MW28-20230621	06/21/23	7.75	0.136[H]	321	2.600	0.305[H]	2.295	3.31	7.82	<15.1	<14.6
	MW28-20231204	12/04/23	9.35	<10.0[D]	563	0.904	<0.150[H]	0.904	<60.0[D*]	55.4	<15.1	<14.6
	MW28-20240624	06/24/24	8.39	0.668[H]	1,800	2.600	0.155[H]	2.445	5.15	34.1	<10.0	<10.0
	MW28-20241216	12/16/24	8.48	<0.150[H]	1,200	29.00	3.79[DH]	25.2	3.15	59.90	<10.0	<10.0

Table 6
Groundwater Analytical Results for Natural Attenuation Parameters
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Well Identification	Sample Identification	Sample Date	Analytical Results									
			Dissolved Oxygen[1] (mg/L)	Nitrate[2] (mg/L)	Total Manganese[3] (µg/L)	Total Iron[3] (mg/L)	Ferrous Iron[4] (mg/L)	Ferric Iron[5] (mg/L)	Sulfate[2] (mg/L)	Methane[6] (µg/L)	Ethane[6] (µg/L)	Ethene[6] (µg/L)
Harrison Street												
MW26	MW26-20181214	12/14/18	0.62	5.06^{D,H}	35.4	0.134	0.133^{H}	0.001	34.2^{D}	1,500	<10	<10
	MW26-20190614	06/14/19	0.59	7.10^{D,H}	62.1	0.29	0.136	0.154	45.0^{D}	4,120^{D}	<324^{D}	<303^{D}
	MW26-20191205	12/05/19	0.7	1.74^{D}	906	4.830	6.12^{D,H}	--	27.8^{D}	3.80^{D}	<16.2	<15.1
	MW26-20200626	06/26/20	0.19	0.208^{H}	806	0.656	0.595^{H}	0.061	37.4^{D}	1,340^{D}	<16.2	<15.1
	MW26-20201211	12/11/20	0.64	<0.100^{H}	605	0.230	0.195^{H}	0.035	19.5^{D}	263^{D}	<16.2	<15.1
	MW26-20210623	06/23/21	0.33	<0.400^{D,H}	579	0.497	0.382^{H}	0.115	32.5^{D}	12.9	<15.1	<14.6
	MW26-20211215	12/15/21	0.55	<0.100^{H}	496	0.371	0.126^{H}	0.245	29.3^{D}	83.7	<15.1	<14.6
	MW26-20220608	06/08/22	5.92	<3.00^{D,H}	587	7.330	1.17^{H}	6.160	17.8^{D}	8.05	<15.1	<14.6
	MW26-20221214	12/14/22	3.27	0.189^{H}	1,270	28.10	1.42^{D,H}	26.680	30.1^{D,B}	13.9	<15.1	<14.6
	MW26-20230622	06/22/23	2.01	0.133^{H}	842	4.320	0.476^{H}	3.844	32.1^{D}	<6.75	<15.1	<14.6
	MW26-20231206	12/06/23	9.56	<0.100^{H}	281	1.730	<0.150	1.730	13.2^{H}	<6.75	<15.1	<14.6
	MW26-20240625	06/25/24	3.91	<0.200	1,200	20.00	1.35^{DH}	18.65	33.5^{D}	11.3	<10.0	<10.0
	MW26-20241218	12/18/24	0.71	0.827^{H}	920	2.100	0.330	1.77	36.7^{H}	<5.0	<10.0	<10.0

NOTES:

Analyses performed by Friedman & Bruya, Inc. or Fremont Analytical Inc. of Seattle, Washington.

[1]Parameter is measured in the field using water quality meter with flow-through cell. The reported value is the last reading prior to sampling groundwater.

[2]Analyzed by EPA Method 300.0.

[3]Analyzed by EPA Method 200.8.

[4]Analyzed by Standard Method 3500-Fe B.

[5]Ferric iron concentration = total iron concentration – ferrous iron concentration.

[6]Analyzed by Method RSK-175.

Laboratory Notes:

[B]Indicates a detection in the ICB or CCB.

[D]Dilution was required.

[H]Holding times for preparation or analysis exceeded.

[J]Analyte detected below Reporting Limit.

[jl] The analyte result in the laboratory control sample is out of control limits. The reported concentrations is an estimate.

[RA] Indicates reanalysis with background correction for turbidity.

[ve] The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

* Flagged value is not within established control limits.

* Anomalous reading, attributed to meter error.

-- = not measured/ not applicable

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

µg/L = micrograms per liter

CCB = Continued Calibration Blank

EPA = US Environmental Protection Agency

ICB = Initial Calibration Blank

mg/L = milligrams per liter

Table 7
Groundwater Geochemical and Water Quality Parameters
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Well Identification	Sample Identification	Sample Date	pH[1]	ORP[1] (mV)	Dissolved Oxygen[1] (mg/L)	Specific Conductivity[1] (mS/cm)	Turbidity[1] (NTU)	Temperature[1] (°C)	Alkalinity[2] (mg/L $CaCO_3$)	Total Organic Carbon[3] (mg/L)
Troy Laundry Property										
MW17	MW17-20150506	05/06/15	6.87	169.0	3.30	0.387	1.01	14.53	--	--
	MW17-20150804	08/04/15	6.17	129.0	4.45	0.477	2.61	15.52	--	--
	MW17-20151207	12/07/15	6.89	221.5	4.12	0.398	3.3	14.60	--	--
	MW17-20160308	03/08/16	6.67	160	1.39	0.365	0.8	14.30	--	--
	MW17-20160714	07/14/16	6.62	51.1	3.59	0.355	1.19	14.36	--	--
	MW17-20161020	10/20/16	6.75	203.3	0.84	0.384	2.72	14.44	--	--
	MW17-20170126	01/26/17	6.66	-40.7	0.57	0.386	2.24	14.14	--	--
	MW17-20170601	06/01/17	6.50	-147.6	0.54	0.375	12.61	14.48	--	--
	MW17-20170923	09/23/17	6.34	170.4	0.31	0.509	3.96	15.13	--	--
	MW17-20171216	12/16/17	6.82	22.3	0.26	0.501	3.37	12.60	--	--
	MW17-20180310	03/10/18	6.82	22.3	0.26	0.501	3.37	12.60	--	--
	MW17-20180630	06/30/18	6.85	14.8	1.07	0.723	8.60	14.87	--	--
	MW17-20180922	09/22/18	6.79	16.9	0.17	0.710	9.38	15.20	--	--
	MW17-20181215	12/15/18	6.58	18.8	0.41	0.677	6.70	14.77	--	--
	MW17-20190615	06/15/19	6.67	83.8	0.36	0.634	3.81	14.90	--	--
	MW17-20191207	12/07/19	6.62	-9.8	1.34	0.581	2.12	11.32	--	--
	MW17-20200627	06/27/20	6.68	-82.3	3.82	0.537	9.64	15.00	--	--
	MW17-20201212	12/12/20	6.58	-19.6	1.09	0.526	9.28	14.38	--	--
	MW17-20210625	06/25/21	6.67	-110.6	0.94	0.507	1.42	14.71	--	--
	MW17-20211217	12/17/21	6.74	-41.9	0.12	0.670	--	14.50	--	--
MW18	MW18-20150506	05/06/15	6.52	172.5	1.99	0.480	0.88	14.34	142	<0.500
	MW18-20150803	08/03/15	5.75	82.2	2.66	0.598	2.74	15.70	--	--
	MW18-20151208	12/08/15	7.74	115.6	1.64	0.594	1.85	14.08	--	--
	MW18-20160308	03/08/16	6.41	156.7	1.30	0.469	1.3	14.26	--	1.01
	MW18-20160608	06/08/16	6.66	8.8	1.5	--	--	--	--	--
	MW18-20160616	06/16/16	6.2	0.8	1.4	--	--	--	--	--
	MW18-20160623	06/23/16	5.87	-57.9	0.43	--	--	--	--	--
	MW18-20160629	06/29/16	5.43	-33	1.08	--	--	--	--	--
	MW18-20160706	07/06/16	5.29	-33.7	1.8	--	--	--	--	--
	MW18-20160714	07/14/16	5.43	8.7	0.47	0.883	9.3	14.89	--	2,300
	MW18-20160825	08/25/16	4.97	38.9	0.55	--	--	--	--	--
	MW18-20161020	10/20/16	5.46	65.5	0.79	1.220	7.69	14.83	--	1,900
	MW18-20170126	01/26/17	5.65	7.2	1.50	0.956	8.1	13.85	--	823
	MW18-20170601	06/01/17	6.19	-167.3	0.58	1.284	6.02	15.21	--	1,090[D]
	MW18-20170923	09/23/17	6.13	48.1	0.48	1.014	55.7	16.37	--	253[D]
	MW18-20171216	12/16/17	6.52	-21.2	0.77	0.911	40.9	12.04	--	173[D]
	MW18-20180310	03/10/18	6.18	-8.0	0.38	0.833	27.1	14.73	--	108[D]
	MW18-20180630	06/30/18	6.30	-31.9	0.68	1.008	12.4	15.49	--	47.2[D]
	MW18-20180922	09/22/18	6.31	-18.7	0.19	1.000	20.8	16.10	--	37.8[D]
	MW18-20181215	12/15/18	6.6	-4.0	0.62	0.980	9.34	15.39	533	16.9
	MW18-20190615	06/15/19	6.23	69.2	0.30	1.043	10.98	15.71	531	10.6
	MW18-20191207	12/07/19	5.82	-137.4	0.69	0.870	15.0	15.00	497	9.61[B]
	MW18-20200627	06/27/20	6.41	-85.1	0.18	0.950	9.46	15.70	536	5.95
	MW18-20201212	12/12/20	6.21	-88.1	2.98	0.889	4.65	14.98	451	4.30
	MW18-20210625	06/25/21	6.29	-86.0	0.91	0.873	7.91	15.35	454[H]	6.85
	MW18-20211217	12/17/21	6.20	-52.8	0.13	1.080	--	14.9	503	11.9
	MW18-20220609	06/09/22	6.30	-19.1	0.30	0.870	16.50	14.3	487	7.97
	MW18-20221215	12/15/22	6.17	-59.7	0.16	0.860	22.40	14.3	449	6.18
	MW18-20230622	06/22/23	6.27	-60.6	0.18	0.832	13.10	15.2	419	5.69
	MW18-20231207	12/07/23	6.14	-75.5	0.23	1.060	8.76	14.9	537	5.31
	MW18-20240627	06/27/24	6.17	-63.7	0.86	1.092	8.99	15.22	565	4.16
	MW18-20241219	12/19/24	6.22	-84.4	0.17	0.857	11.2	15.01	430[D]	3.97
MW19	MW19-20150507	05/07/15	6.68	156.1	1.75	0.502	1.27	14.44	144	<0.500
	MW19-20150803	08/03/15	5.67	222.2	2.33	0.523	5.8	15.47	--	--
	MW19-20151207	12/07/15	7.08	95.6	0.99	0.685	4.29	14.64	--	--
	MW19-20160308	03/08/16	6.27	154.7	1.29	0.613	0.84	14.73	--	--
	MW19-20160713	07/13/16	5.62	5.7	0.32	0.821	1017	15.59	--	--
	MW19-20160825	08/25/16	4.82	31.4	0.73	--	--	--	--	--
	MW19-20161021	10/21/16	5.62	27.0	0.15	1.404	3.00	15.59	--	--
	MW19-20170125	01/25/17	5.40	-10.4	0.40	1.120	7.98	14.40	--	--
	MW19-20170601	06/01/17	5.34	-148.6	0.53	0.963	4.02	15.99	--	--
	MW19-20170923	09/23/17	5.47	169.2	0.77	0.816	17.8	18.07	--	--
	MW19-20171216	12/16/17	6.39	-30.9	0.58	0.602	4.92	13.43	--	--
	MW19-20180310	03/10/18	6.06	-14.3	0.26	0.542	14.0	15.36	--	--
	MW19-20180630	06/30/18	6.15	-22.7	0.86	0.744	9.95	16.54	--	--
	MW19-20180922	09/22/18	6.23	-26.7	0.16	0.800	37.30	16.90	--	--
	MW19-20190615	06/15/19	6.24	40.6	0.28	1.060	11.4	16.41	556	--
	MW19-20191207	12/07/19	5.57	-134.0	0.54	0.785	--	15.75	473	--
	MW19-20200627	06/27/20	6.40	-70.4	0.27	1.000	39.1	16.60	570	--
	MW19-20201212	12/12/20	9.26	-275.8	11.88*	0.100	4.9	15.79	412	--
	MW19-20210625	06/25/21	6.33	-67.2	0.81	0.964	26.2	16.19	520[H]	--
	MW19-20211217	12/17/21	6.20	-25.4	0.08	1.070	--	15.7	488	--
	MW19-20220609	06/09/22	6.21	-18.6	0.35	0.720	8.47	15.2	373	--
	MW19-20221216	12/16/22	6.17	-49.4	0.19	0.699	12.10	15.4	328	--
	MW19-20230622	06/22/23	6.15	-17.7	0.15	1.410	32.90	15.7	396	--
	MW19-20231207	12/07/23	6.03	-271.8	0.62	0.843	73.70	15.21	346	--
	MW19-20240627	06/27/24	6.12	-20.4	0.16	0.828	41.8	16.0	380	--
	MW19-20241219	12/19/24	6.22	-8.7	0.29	0.855	41.4	15.6	423[D]	--

Table 7
Groundwater Geochemical and Water Quality Parameters
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Well Identification	Sample Identification	Sample Date	pH[1]	ORP[1] (mV)	Dissolved Oxygen[1] (mg/L)	Specific Conductivity[1] (mS/cm)	Turbidity[1] (NTU)	Temperature[1] (°C)	Alkalinity[2] (mg/L $CaCO_3$)	Total Organic Carbon[3] (mg/L)
MW20	MW20-20150506	05/06/15	6.91	287.1	0.59	0.678	0.00	13.68	--	--
	MW20-20150803	08/03/15	6.11	175.6	1.11	0.784	9.4	14.45	--	--
	MW20-20151207	12/07/15	6.86	228.5	0.85	0.716	9.0	13.81	--	--
	MW20-20160309	03/09/16	6.72	66.1	0.41	0.711	1.2	13.81	--	--
	MW20-20160715	07/15/16	6.71	201.4	0.64	0.726	2.14	14.28	--	--
	MW20-20161020	10/20/16	6.96	92.0	0.92	0.731	1.90	14.30	--	--
	MW20-20170125	01/25/17	6.82	-0.1	0.67	0.732	0.56	0.67	--	--
	MW20-20170601	06/01/17	6.68	-175.7	0.85	0.735	3.07	14.38	--	--
	MW20-20170924	09/24/17	6.63	177.6	0.57	0.779	2.12	15.25	--	--
	MW20-20171216	12/16/17	6.36	47.0	0.27	0.895	2.14	12.31	--	--
	MW20-20180310	03/10/18	6.71	61.4	0.26	0.855	6.07	14.16	--	--
	MW20-20180630	06/30/18	6.71	21.7	1.64	0.884	3.18	15.06	--	--
	MW20-20180922	09/22/18	6.80	13.9	0.19	0.850	3.18	15.10	--	--
	MW20-20181215	12/15/18	6.61	28.0	0.37	0.827	0.73	14.56	--	--
	MW20-20190615	06/15/19	6.72	95.1	0.50	0.928	1.70	14.94	--	--
	MW20-20191207	12/07/19	6.66	-14.9	1.23	0.883	0.99	11.37	--	--
	MW20-20200627	06/27/20	6.66	-58.2	1.60	0.970	2.15	14.90	--	--
	MW20-20201212	12/12/20	6.79	135.9	0.42	1.131	1.63	14.39	--	--
	MW20-20210625	06/25/21	6.54	-46.0	1.20	0.984	1.07	14.71	--	--
	MW20-20211217	12/17/21	6.58	-9.0	0.18	1.150	--	14.40	--	--
MW21	MW21-20150506	05/06/15	6.58	295.0	0.45	0.675	0.00	14.06	--	--
	MW21-20150804	08/04/15	6.09	77.5	0.68	0.980	2.61	15.13	--	--
	MW21-20151208	12/08/15	7.91	96.8	0.78	1.486	0.83	14.03	--	--
	MW21-20160309	03/09/16	5.03	137.3	1.84	0.879	1.28	14.19	--	2.29
	MW21-20160608	06/08/16	6.28	-0.5	2.46	--	--	--	--	--
	MW21-20160616	06/16/16	--	--	--	--	--	--	--	--
	MW21-20160623	06/23/16	--	--	--	--	--	--	--	--
	MW21-20160629	06/29/16	5.5	52.6	1.95	--	--	--	--	--
	MW21-20160706	07/06/16	5.27	47.1	2.16	--	--	--	--	--
	MW21-20160713	07/13/16	5.41	61.2	0.45	1.104	10.3	14.73	--	1,800
	MW21-20160825	08/25/16	4.97	67.9	0.48	--	--	--	--	--
	MW21-20161020	10/20/16	5.64	71.7	1.26	1.268	>2000	14.61	--	1,800
	MW21-20170126	01/26/17	5.78	-22.0	0.50	0.846	3.59	13.78	--	884
	MW21-20170601	06/01/17	5.69	246.8	0.54	0.920	5.90	14.94	--	755[D]
	MW21-20170923	09/23/17	5.36	14.9	0.69	1.180	4.42	14.67	--	871[D]
	MW21-20171216	12/16/17	5.54	26.3	2.67	1.146	6.00	14.81	--	722[D]
	MW21-20180310	03/10/18	5.27	58.1	0.71	1.102	4.29	14.43	--	466[D]
	MW21-20180630	06/30/18	5.18	49.5	0.34	1.546	4.05	14.94	--	718[D]
	MW21-20180922	09/22/18	5.72	97.2	0.33	1.090	6.84	16.00	--	549[D]
	MW21-20181215	12/15/18	5.67	-20.1	1.57	1.041	6.10	15.41	--	124[D]
	MW21-20190615	06/15/19	5.84	1.0	0.19	1.023	2.81	15.27	--	163[D]
	MW21-20191207	12/07/19	5.55	-142.2	0.77	0.913	7.64	14.81	--	110
	MW21-20200627	06/27/20	5.26	83.0	0.17	0.930	61.80	15.80	--	--
	MW21-20201212	12/12/20	5.8	157.2	0.20	0.934	15.30	14.84	--	191[D]
	MW21-20210625	06/25/21	5.57	12.9	0.49	0.836	4.84	15.20	--	349[D]
	MW21-20211217	12/17/21	8.69	-25.8	0.68	0.963	--	14.44	--	330
	MW21-20220609	06/09/22	5.75	-13.0	0.30	0.840	25.0	14.64	--	123
	MW21-20221215	12/15/22	6.82	118.4	0.14	1.650	38.1	14.30	--	104[D]
	MW21-20230623	06/23/23	6.12	0.6	0.20	1.010	16.6	14.90	--	25.5
	MW21-20231207	12/07/23	5.96	-1.8	0.35	0.980	31.5	14.50	--	109
	MW21-20240627	06/27/24	5.97	10.8	0.63	0.988	19.1	15.08	--	21.8
	MW21-20241220	12/20/24	6.22	4.9	0.33	0.948	8.32	14.87	--	103[D]
MW22	MW22-20150506	05/06/15	6.34	280.6	0.30	0.707	0.00	14.4	--	--
	MW22-20150804	08/04/15	6.29	103.9	0.96	0.794	6.8	15.05	--	--
	MW22-20151208	12/08/15	5.91	212.8	2.18	0.702	0.4	14.49	--	--
	MW22-20160308	03/08/16	6.34	153.8	0.54	0.579	0.81	14.46	--	--
	MW22-20160608	06/08/16	6	-3.2	1.55	--	--	--	--	--
	MW22-20160616	06/16/16	4.99	95.2	1.65	--	--	--	--	--
	MW22-20160623	06/23/16	5.1	64	0.68	--	--	--	--	--
	MW22-20160629	06/29/16	5.22	84.8	1.85	--	--	--	--	--
	MW22-20160706	07/06/16	5.17	26.1	1.88	--	--	--	--	--
	MW22-20160713	07/13/16	5.55	88.1	0.42	1.276	7.26	14.85	--	--
	MW22-20160825	08/25/16	5.06	21.2	0.42	--	--	--	--	--
	MW22-20161020	10/20/16	5.48	108.8	0.24	1.408	8.66	14.86	--	--
	MW22-20170126	1/26/2017	5.55	21.2	0.27	1.185	4.83	14.23	--	--
	MW22-20170601	06/01/17	5.67	239.2	0.62	1.118	5.32	15.32	--	--
	MW22-20170923	09/23/17	5.38	104.1	0.27	1.290	3.52	15.12	--	--
	MW22-20171216	12/16/17	5.44	84.2	0.64	1.186	7.21	14.83	--	--
	MW22-20180310	03/10/18	5.32	82	6.61	0.868	4.57	14.44	--	--
	MW22-20180630	06/30/18	5.47	41.9	0.23	1.128	5.12	15.74	--	--
	MW22-20180922	09/22/18	5.94	73.1	0.38	0.820	5.67	17.00	--	--
	MW22-20181215	12/15/18	5.67	18.4	0.67	0.817	8.6	15.50	269	388[D]
	MW22-20190615	06/15/19	5.68	106.8	0.38	0.858	7.40	15.63	273	286[D]
	MW22-20191207	12/07/19	5.69	-76.4	2.02	0.803	71.20	12.14	283	255
	MW22-20200627	06/27/20	5.82	3.4	0.40	0.720	83.30	15.90	182	206[D]
	MW22-20201212	12/12/20	6.01	154.5	0.31	0.817	25.80	14.97	500	95.5[D]
	MW22-20210625	06/25/21	5.91	-4.9	0.55	0.679	8.34	15.30	243[H]	150[D]
	MW22-20211217	12/17/21	9.01	-48.1	0.68	0.749	--	14.33	287	133[D]
	MW22-20220609	06/09/22	5.95	13.8	0.35	0.673	6.70	14.73	304	42
	MW22-20221216	12/16/22	6.09	-13	0.13	0.749	35.60	14.40	289	105[D]
	MW22-20230623	06/23/23	6.2	-37.1	0.13	0.827	15.40	15.30	317	82.7
	MW22-20231207	12/07/23	5.97	-229.7	0.68	0.943	15.10	14.53	346	76.8
	MW22-20240627	06/27/24	6.09	-13.8	0.08	0.955	11.7	15.1	399	81.2
	MW22-20241220	12/20/24	6.22	1.7	0.20	0.976	13.1	14.95	528[D]	85.1[D]

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300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Well Identification	Sample Identification	Sample Date	pH[1]	ORP[1] (mV)	Dissolved Oxygen[1] (mg/L)	Specific Conductivity[1] (mS/cm)	Turbidity[1] (NTU)	Temperature[1] (°C)	Alkalinity[2] (mg/L $CaCO_3$)	Total Organic Carbon[3] (mg/L)
MW23	MW23-20150507	05/07/15	6.09	223.7	2.19	0.452	0.00	14.65	106	<0.500
	MW23-20150804	08/04/15	6.40	105.5	0.73	0.582	6.8	15.42	--	--
	MW23-20151208	12/08/15	5.80	197	2.12	0.548	12.6	15.10	--	--
	MW23-20160308	03/08/16	6.30	92.5	0.49	0.575	1.2	14.78	--	3.14
	MW23-20160608	06/08/16	5.14	66.9	3.15	--	--	--	--	--
	MW23-20160616	06/16/16	4.77	109.5	2.00	--	--	--	--	--
	MW23-20160623	06/23/16	4.75	58.8	0.94	--	--	--	--	--
	MW23-20160629	06/29/16	4.73	92.3	2.40	--	--	--	--	--
	MW23-20160706	07/06/16	4.74	42	2.04	--	--	--	--	--
	MW23-20160714	07/14/16	5.26	38	0.23	1.339	8.0	15.06	--	2,300
	MW23-20160825	08/25/16	4.68	64.2	0.69	--	--	--	--	--
	MW23-20161020	10/20/16	5.38	45.5	0.20	1.637	2.53	15.12	--	2,300
	MW23-20170126	01/26/17	5.71	-43.40	14.39	0.878	8.03	14.39	--	520.00
	MW23-20170601	06/01/17	5.80	232.1	0.49	1.542	5.60	15.60	--	1,620[D]
	MW23-20170923	09/23/17	5.69	-4.4	0.46	1.362	7.30	15.45	--	1,160[D]
	MW23-20171216	12/16/17	5.96	-6.3	0.84	0.973	18.0	15.23	--	865[D]
	MW23-20180310	03/10/18	5.85	-1.4	2.25	0.802	34.1	14.92	--	127[D]
	MW23-20180630	06/30/18	6.15	-82.6	0.70	1.228	178.0	15.80	--	198[D]
	MW23-20180922	09/22/18	6.52	11.1	0.31	0.950	17.5	17.00	--	159[D]
	MW23-20181215	12/15/18	6.30	-72.9	0.79	1.118	40.8	15.89	600	148[D]
	MW23-20190615	06/15/19	6.20	89.0	0.50	1.219	20.0	15.96	639	60.7[D]
	MW23-20191207	12/07/19	6.24	-42.8	2.12	1.070	33.3	12.50	614	17.4[B]
	MW23-20200627	06/27/20	6.13	-21.8	0.18	0.950	7.24	16.00	481	6.41
	MW23-20201212	12/12/20	6.33	136.3	0.29	0.885	12.60	15.16	436	7.90
	MW23-20210625	06/25/21	6.29	-43.7	0.29	0.763	6.04	15.80	382[H]	6.65
	MW23-20211217	12/17/21	9.28	-129.2	0.39	0.787	--	14.47	374	6.10
	MW23-20240627	06/27/24	6.28	-31.0	0.53	0.942	7.25	15.35	440	2.98
	MW23-20241219	12/19/24	6.42	-52.1	0.92	0.809	1.39	15.23	491[D]	3.40
MW24	MW24-20150506	05/06/15	6.03	182.9	1.04	0.454	1.81	14.91	172	1.12
	MW24-20150804	08/04/15	5.80	83.7	0.45	0.563	2.89	16.05	--	--
	MW24-20151208	12/08/15	7.62	120.8	1.00	0.685	1.29	15.10	--	--
	MW24-20160309	03/09/16	6.27	113.7	0.38	0.589	1	15.07	--	2.19
	MW24-20160608	06/08/16	6.73	-69.2	2.34	--	--	--	--	--
	MW24-20160616	06/16/16	5.92	-3	1.59	--	--	--	--	--
	MW24-20160623	06/23/16	5.83	-20	0.87	--	--	--	--	--
	MW24-20160629	06/29/16	5.83	36.1	1.54	--	--	--	--	--
	MW24-20160706	07/06/16	5.67	19.7	1.54	--	--	--	--	--
	MW24-20160715	07/15/16	6.00	31.9	0.29	1.142	8	15.39	--	1,000
	MW24-20160825	08/25/16	5.30	30.5	0.24	--	--	--	--	--
	MW24-20161020	10/20/16	5.93	27.5	0.94	1.440	3.56	15.22	--	640
	MW24-20170125	01/25/17	5.49	-33.5	1.10	0.917	589	14.56	--	375
	MW24-20170601	06/01/17	5.75	240.7	0.38	0.998	3034	15.38	--	1,470[D]
	MW24-20170924	09/24/17	5.54	76.3	0.27	0.641	122	16.06	--	390[D]
	MW24-20171216	12/16/17	5.93	-33.4	2.69	0.579	50.2	14.83	--	233[D]
	MW24-20180310	03/10/18	5.73	17.4	0.70	0.614	72.4	14.77	--	22.1[D]
	MW24-20180630	06/30/18	5.60	-43.1	0.44	1.393	15.1	15.81	--	770[D]
	MW24-20180922	09/22/18	6.08	18.9	3.20	0.760	92.4	17.10	--	45.5[D]
	MW24-20181215	12/15/18	6.08	-0.7	0.44	0.735	72.8	15.44	358	52.2[D]
	MW24-20190615	06/15/19	5.93	-2.8	0.29	0.798	7.68	16.00	414	20.5
	MW24-20191207	12/07/19	5.66	-139.0	0.66	0.779	20.4	15.21	434	12.6[B]
	MW24-20200627	06/27/20	6.24	-47.0	0.26	0.860	15.9	15.90	468	8.44
	MW24-20201212	12/12/20	6.08	-26.1	2.03	0.809	4.85	15.09	436	6.95
	MW24-20210625	06/25/21	6.16	-56.4	0.93	0.862	6.98	15.50	401[H]	7.52
	MW24-20211217	12/17/21	6.16	-36.0	0.12	1.110	--	15.00	488	<0.500
	MW24-20220609	06/09/22	6.19	-16.8	0.32	0.723	0.3	15.01	442	5.79
	MW24-20221216	12/16/22	6.26	-24.7	0.23	0.837	9.43	14.70	440	8.08[B]
	MW24-20230623	06/23/23	6.37	-23.1	0.23	0.920	6.78	15.10	431	4.60
	MW24-20231207	12/07/23	6.21	-53.5	0.88	0.910	3.57	14.90	446	4.24
	MW24-20240627	06/27/24	6.26	-43.5	1.53	0.994	19.4	15.28	501	3.13
	MW24-20241220	12/20/24	6.30	-81.0	1.08	0.812	3.67	15.00	435[D]	3.07
MW25	MW25-20150507	05/07/15	6.31	140.5	2.87	0.498	76.5	14.54	112	<0.500
	MW25-20150805	08/05/15	5.67	158.1	1.47	0.667	2.3	15.16	--	--
	MW25-20151209	12/09/15	7.94	114.9	1.55	0.881	7.6	15.12	--	--
	MW25-20160308	03/08/16	6.25	171.8	0.79	0.524	1.2	15.05	--	--
	MW25-20160713	07/13/16	5.60	-13.5	0.29	0.933	>2,000	15.39	--	--
	MW25-20161019	10/19/16	5.40	22.2	0.18	1.304	9.14	15.48	--	--
	MW25-20170125	01/25/17	5.77	-134.5	0.37	0.712	4.18	14.68	--	--
	MW25-20170601	06/01/17	5.81	-136.3	0.31	1.140	4.82	15.67	--	--
	MW25-20170923	09/23/17	6.17	66.3	0.37	1.103	14.6	16.86	--	--
	MW25-20171216	12/16/17	6.61	-35.3	0.50	1.052	8.68	13.67	--	--
	MW25-20180310	03/10/18	6.22	-19.9	0.32	0.890	9.10	15.52	--	--
	MW25-20180630	06/30/18	6.48	-55.4	0.67	1.381	13.10	16.15	--	--
	MW25-20180922	09/22/18	6.48	-51.4	0.09	1.380	17.50	16.20	--	--
	MW25-20181215	12/15/18	6.42	-2.4	0.69	1.306	5.21	15.84	745	18.4
	MW25-20190615	06/15/19	6.22	-48.1	0.59	1.067	3.92	16.27	575	25.8
	MW25-20191207	12/07/19	6.16	-16.5	0.63	0.810	7.61	17.58	424	6.87[B]
	MW25-20200627	06/27/20	6.2	-37.5	0.23	0.657	14.6	16.20	322	5.21
	MW25-20201212	12/12/20	6.25	-52.3	23.36*	0.806	15.0	15.50	412	9.57
	MW25-20210625	06/25/21	6.19	-113.2	0.82	0.799	7.0	15.90	377[H]	7.50
	MW25-20211217	12/17/21	6.35	-56.5	0.24	1.020	--	15.80	431	4.18
	MW25-20220609	06/09/22	6.54	-22.1	0.37	0.760	16.5	15.20	352	2.29
	MW25-20221216	12/16/22	6.41	-60.2	0.17	0.614	3.2	15.50	260	1.16
	MW25-20230623	06/23/23	6.52	-85.1	0.22	0.581	3.31	16.30	218	1.56
	MW25-20231207	12/07/23	6.26	-295.1	0.66	0.618	5.66	15.46	205	1.59
	MW25-20240627	06/27/24	6.32	-26.3	0.42	0.565	5.21	16.1	210	1.42
	MW25-20241219	12/19/24	6.40	-58.4	0.27	0.547	9.19	15.82	237[D]	1.37

Table 7
Groundwater Geochemical and Water Quality Parameters
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Well Identification	Sample Identification	Sample Date	pH[1]	ORP[1] (mV)	Dissolved Oxygen[1] (mg/L)	Specific Conductivity[1] (mS/cm)	Turbidity[1] (NTU)	Temperature[1] (°C)	Alkalinity[2] (mg/L $CaCO_3$)	Total Organic Carbon[3] (mg/L)
IW04	IW04-20150508	05/08/15	6.58	160.2	6.28*	0.322	15.1	14.80	88.0	<0.500
	IW04-20160309	03/09/16	6.08	-18.6	0.55	0.579	3.5	14.18	--	--
	IW04-20160714	07/14/16	5.17	58.2	0.43	1.401	19.8	14.76	--	--
	IW04-20161021	10/21/16	5.30	27.5	0.10	1.575	7.71	15.01	--	--
	IW04-20170126	01/26/17	5.40	-18.0	0.71	1.288	17.7	14.11	--	--
	IW04-20170601	06/01/17	5.78	-151.8	0.62	0.809	12.7	14.99	--	--
	IW04-20170923	09/23/17	5.99	2.7	0.84	1.189	21.7	18.00	--	--
	IW04-20171216	12/16/17	6.37	-47.8	0.37	0.940	18.8	13.01	--	--
	IW04-20180310	03/10/18	6.22	-40.3	0.82	0.792	56.3	14.77	--	--
	IW04-20180630	06/30/18	6.29	-59.3	0.89	0.914	18	15.59	--	--
	IW04-20180922	09/22/18	6.13	26.1	0.21	0.318	5.1	16.20	--	--
	IW04-20181215	12/15/18	6.32	-26.6	0.64	0.969	14.7	15.27	478	157[D]
	IW04-20190615	06/15/19	6.32	-60.8	0.24	1.112	13.2	15.48	611	148[D]
	IW04-20191207	12/07/19	6.41	-24.1	0.98	1.059	22.6	11.91	595	94.8
	IW04-20200627	06/27/20	6.12	-0.8	5.31*	0.960	9.17	15.40	517	88.7[D]
	IW04-20201212	12/12/20	9.08	-194.2	2.00	0.910	11.48	15.07	500	90.3[D]
	IW04-20210625	06/25/21	6.39	-93	0.76	0.865	24.4	15.23	450[H]	93.1[D]
	IW04-20211217	12/17/21	6.30	-68.3	0.19	1.040	--	15.00	458	101[D]
	IW04-20220609	06/09/22	6.42	-37.1	0.35	0.880	14.4	14.30	460	75.6[D]
	IW04-20221215	12/15/22	6.21	-97.1	0.17	0.813	9.96	14.50	312	30.5[D]
	IW04-20230622	06/22/23	6.36	-118.9	0.23	0.762	7.63	15.30	285	24.3
	IW04-20231207	12/07/23	5.96	-273.6	0.68	0.819	5.42	14.66	260	21.5
	IW04-20240626	06/26/24	6.30	-78.6	0.31	0.773	4.34	15.5	248	15.3
	IW04-20241219	12/19/24	6.18	-117.8	0.41	0.794	5.33	15.18	216[D]	16.6
IW06	IW06-20150507	05/07/15	6.70	262.1	7.55*	0.224	17.83	15.02	--	--
	IW06-20180310	03/10/18	5.97	-162.5	0.34	0.284	8.41	14.84	--	--
	IW06-20180630	06/30/18	6.25	-95.9	0.67	0.312	6.99	15.87	--	--
	IW06-20180922	09/22/18	6.35	-55.9	0.17	0.920	43.3	16.20	--	--
	IW06-20181215	12/15/18	6.20	-9.7	0.43	0.297	5.60	15.51	--	--
	IW06-20190615	06/15/19	5.96	67.7	0.58	0.471	11.50	15.81	--	--
	IW06-20191207	12/07/19	6.45	-4.5	0.88	0.446	0.21	12.05	--	--
	IW06-20200627	06/27/20	6.07	-41.9	5.72*	0.749	12.1	15.50	--	--
	IW06-20201212	12/12/20	8.35	-201.9	1.95	0.541	3.66	15.24	--	--
	IW06-20210625	06/25/21	6.09	-98.5	1.16	0.656	11.90	15.38	--	--
	IW06-20211217	12/17/21	6.15	58.2	0.60	0.605	--	15.10	--	--
	IW06-20220609	06/09/22	6.38	217.1	0.53	0.510	7.26	14.20	--	--
	IW06-20221215	12/15/22	7.30	189.9	0.19	1.020	32.60	15.00	--	--
	IW06-20230622	06/22/23	6.61	199.6	0.41	1.080	3.32	15.00	--	--
	IW06-20231207	12/07/23	6.31	91.5	0.17	0.650	5.93	15.00	--	--
	IW06-20240626	06/26/24	6.40	-34.8	0.52	0.578	9.45	15.21	--	--
IW07	IW07-20160825	08/25/16	5.15	-11.4	0.61	--	--	--	--	--
IW15	IW15-20160608	06/08/16	5.19	86.6	2.75	--	--	--	--	--
	IW15-20160616	06/16/16	7.59	70.1	1.95	--	--	--	--	--
	IW15-20160623	06/23/16	5.07	16.6	1.05	--	--	--	--	--
	IW15-20160629	06/29/16	5.11	47.3	1.38	--	--	--	--	--
	IW15-20160706	07/06/16	5.09	28.6	1.55	--	--	--	--	--
	IW15-20160825	08/25/16	4.96	35.9	0.58	--	--	--	--	--
	IW15-20161021	10/21/16	5.42	-16.6	0.12	2.065	3.75	15.46	--	--
	IW15-20170602	06/02/17	5.65	-217.5	0.49	1.001	9.42	15.68	--	--
IW38	IW38-20160608	06/08/16	5.53	57.9	2.4	--	--	--	--	--
	IW38-20160616	06/16/16	5.05	91.4	2	--	--	--	--	--
	IW38-20160623	06/23/16	5.1	39	0.73	--	--	--	--	--
	IW38-20160629	06/29/16	5.13	80.6	1.45	--	--	--	--	--
	IW38-20160706	07/06/16	5.06	49.1	1.65	--	--	--	--	--
	IW38-20160825	08/25/16	4.8	73.4	0.29	--	--	--	--	--
	IW38-20161021	10/21/16	5.06	77.7	0.59	2.068	2.19	15.40	--	--
	IW38-20170602	06/02/17	5.72	-234.3	0.46	0.838	2.80	15.69	--	--
IW50	IW50-20151208	12/08/15	7.44	122.1	0.56	0.984	2.68	14.71	--	--
	IW50-20160309	03/09/16	3.46	149.7	0.70	0.726	3.01	14.52	--	115
	IW50-20160715	07/15/16	5.45	40.6	0.44	1.350	4.77	14.80	--	1,100
	IW50-20161021	10/21/16	5.69	43.7	0.83	2.055	11.8	14.79	--	1,600
	IW50-20170126	01/26/17	6.43	-59.5	0.80	1.058	43.2	14.46	--	391
	IW50-20170602	06/02/17	6.34	198.5	0.60	0.688	17.4	14.98	--	85.2[D]
	IW50-20170923	09/23/17	6.29	-103.0	0.24	1.004	24.1	15.29	--	214[D]
	IW50-20171216	12/16/17	6.30	-72.4	2.71	1.048	106	14.99	--	224[D]
	IW50-20180310	03/10/18	6.34	-43.1	0.40	1.038	76.8	14.81	--	55.0[D]
	IW50-20180630	06/30/18	6.41	-115.4	0.31	1.204	11.35	15.21	--	41.9[D]
	IW50-20180922	09/22/18	6.65	-37.4	0.66	0.760	5.81	17.40	--	29.6[D]
	IW50-20181215	12/15/18	6.35	-120.3	1.28	0.681	4.74	15.50	338	12.2
	IW50-20190615	06/15/19	6.26	65.8	0.38	0.670	5.18	15.86	299	7.56
	IW50-20191207	12/07/19	6.24	-30.3	1.02	0.618	5.33	12.31	288	6.72[B]
	IW50-20200627	06/27/20	6.08	-13.8	8.61*	0.939	4.91	15.70	497	18.2
	IW50-20201212	12/12/20	6.43	91.8	0.24	1.071	14.1	15.24	544	13.7
	IW50-20210625	06/25/21	6.5	-92.6	0.17	1.016	9.79	15.40	449[H]	16.1
	IW50-20211217	12/17/21	6.29	-61.9	0.05	1.060	--	15.20	468	38.1
	IW50-20220609	06/09/22	6.30	-59.0	0.32	0.749	16.80	14.78	477	13.5
	IW50-20221216	12/16/22	7.32	32.2	0.17	1.250	7.40	14.70	400	5.66
	IW50-20230623	06/23/23	6.49	-80.1	0.18	0.850	19.20	14.80	410	6.25
	IW50-20231207	12/07/23	6.35	-62.1	1.66	0.790	3.11	14.80	382	5.03
	IW50-20240627	06/27/24	6.35	-50.1	0.61	0.785	9.69	15.17	367	3.72
	IW50-20241220	12/20/24	6.38	-53.6	0.19	1.042	14.30	15.16	614[D]	16.6
IW57	IW57-20160608	06/08/16	4.46	138.7	5.59	--	--	--	--	--
	IW57-20160616	06/16/16	4.51	109.9	2.28	--	--	--	--	--
	IW57-20160623	06/23/16	4.48	56.2	1.88	--	--	--	--	--
	IW57-20160629	06/29/16	4.45	105.5	2.41	--	--	--	--	--
	IW57-20160706	07/06/16	4.56	41.7	2.68	--	--	--	--	--
	IW57-20160825	08/25/16	4.52	38.0	1.01	--	--	--	--	--
	IW57-20161021	10/21/16	5.44	28.9	0.81	2.085	4.16	14.85	--	--
	IW57-20170602	06/02/17	5.76	-242.1	0.33	0.808	22.5	15.25	--	--

Table 7
Groundwater Geochemical and Water Quality Parameters
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Well Identification	Sample Identification	Sample Date	pH[1]	ORP[1] (mV)	Dissolved Oxygen[1] (mg/L)	Specific Conductivity[1] (mS/cm)	Turbidity[1] (NTU)	Temperature[1] (°C)	Alkalinity[2] (mg/L $CaCO_3$)	Total Organic Carbon[3] (mg/L)
IW61	IW61-20151208	12/08/16	4.27	200.3	3.34	0.655	24.2	14.25	--	--
	IW61-20160309	03/09/16	6.12	-17.9	1.40	0.650	30.1	14.35	--	114
	IW61-20160714	07/14/16	5.31	39.7	0.56	1.624	52.4	15.38	--	2,900
	IW61-20161021	10/21/16	5.63	48.5	0.81	2.283	4.53	15.09	--	3,000
	IW61-20170126	01/26/17	5.89	-47.9	0.41	1.326	1.96	14.27	--	1,300
	IW61-20170602	06/02/17	6.00	219.6	0.49	0.812	7.57	15.42	--	908[D]
	IW61-20170923	09/23/17	5.28	-9.6	0.79	2.264	7.67	15.55	--	1,490[D]
	IW61-20171216	12/16/17	6.07	-66.1	0.79	1.158	510	15.28	--	765[D]
	IW61-20180310	03/10/18	5.80	-1.5	1.28	0.911	185	14.39	--	432[D]
	IW61-20180630	06/30/18	6.02	-92.1	0.39	1.127	22.0	15.72	--	406[D]
	IW61-20180922	09/22/18	6.38	-3.8	0.17	0.750	13.5	16.50	--	228[D]
	IW61-20181215	12/15/18	6.82	-45.1	0.73	1.171	22.0	15.96	494	628[D]
	IW61-20190615	06/15/19	5.94	-21.1	0.32	0.913	12.60	15.97	429	140[D]
	IW61-20191207	12/07/19	5.61	-131.0	0.82	0.819	37.2	15.39	444	103
	IW61-20200627	06/27/20	6.09	-45.1	0.23	0.859	13.2	16.20	419	55.4[D]
	IW61-20201212	12/12/20	6.22	115.9	0.34	0.960	60.0	15.01	471	60.6[D]
	IW61-20210625	06/25/21	6.32	-72.2	0.25	0.866	64.0	15.80	423[H]	66.2[D]
	IW61-20211217	12/17/21	9.21	-99.4	0.43	0.941	--	14.69	460[H]	72.6[D]
	IW61-20220609	06/09/22	6.23	-23.9	0.70	0.882	34.2	14.98	472[H]	81.8[D]
	IW61-20221216	12/16/22	7.2	26.7	0.25	1.530	164.0	14.90	474	81.4[D]
	IW61-20230623	06/23/23	6.54	-73.4	0.18	1.053	69.4	15.40	487	80.4
	IW61-20231207	12/07/23	6.33	-207.3	0.64	1.179	60.2	14.54	540	81.3
	IW61-20240627	06/27/24	6.38	-56.9	0.34	1.117	75.9	15.40	571	66.0
	IW61-20241220	12/20/24	7.42	-90.8	0.56	1.108	65.9	15.16	687[D]	55.4[D]
IW64	IW64-20160608	06/08/16	5.22	69.8	3.25	--	--	--	--	--
	IW64-20160616	06/16/16	4.97	94.3	2.27	--	--	--	--	--
	IW64-20160623	06/23/16	5.04	41.5	1.15	--	--	--	--	--
	IW64-20160629	06/29/16	5.09	80.3	2.25	--	--	--	--	--
	IW64-20160706	07/06/16	5.03	36.4	2.05	--	--	--	--	--
	IW64-20160825	08/25/16	5.03	37.0	0.87	--	--	--	--	--
	IW64-20161021	10/21/16	5.70	33.2	0.99	1.980	32.0	15.22	--	--
	IW64-20170602	06/02/17	5.86	-242.4	0.34	0.981	12.6	15.10	--	--
IW91	IW91-20150506	05/06/15	6.54	171.4	1.57	0.300	0.19	14.35	--	--
	IW91-20150804	08/04/15	6.11	143.7	2.26	0.363	1.91	14.66	--	--
	IW91-20151208	12/08/15	5.88	218.9	5.23	0.342	8.2	14.18	--	--
	IW91-20160309	03/09/16	6.87	209.2	3.99	0.325	2.98	14.15	--	--
	IW91-20160714	07/14/16	6.79	118	5.51	0.299	0.81	14.60	--	--
	IW91-20161020	10/20/16	6.62	143.2	0.25	0.509	6.69	14.68	--	--
	IW91-20170126	01/26/17	6.93	-65.2	0.35	0.461	3.99	14.17	--	--
	IW91-20170601	06/01/17	6.92	192.4	1.90	0.442	3.57	14.54	--	--
	IW91-20170923	09/23/17	6.92	173.0	2.21	0.433	5.16	14.64	--	--
	IW91-20171216	12/16/17	7.09	223.6	2.10	0.337	23.0	14.49	--	--
	IW91-20180310	03/10/18	6.68	196.6	5.81	0.385	20.1	14.55	--	--
	IW91-20180630	06/30/18	6.67	22.4	12.00	0.563	2.52	14.34	--	--
	IW91-20180922	09/22/18	7.00	199.8	5.59	0.462	2.17	15.70	--	--
	IW91-20181215	12/15/18	6.94	12.5	6.43	0.524	0.97	14.99	--	--
	IW91-20190615	06/15/19	6.51	25.1	9.86	0.557	2.27	15.30	--	--
	IW91-20191207	12/07/19	6.63	-131.6	4.45	0.585	1.98	14.62	--	--
	IW91-20200627	06/27/20	6.72	11.7	22.14*	0.457	4.02	15.30	--	--
	IW91-20201212	12/12/20	7.39	177.9	10.84*	0.553	12.70	15.02	--	--
	IW91-20210625	06/25/21	7.35	99.0	17.23	0.433	4.13	14.90	--	--
	IW91-20211217	12/17/21	9.44	6.5	6.05	0.546	--	14.39	--	--
AIW02	AIW02-20160825	08/25/16	4.88	15.3	0.77	--	--	--	--	--
AIW05	AIW05-20160825	08/25/16	4.89	31.5	1.77	--	--	--	--	--
Boren Avenue North										
MW04	MW04-20110527	05/27/11	6.93	11	6.24	0.330	122	15.09	--	--
	MW04-20111012	10/12/11	6.46	201.6	6.17	0.252	25.1	15.0	--	--
	MW04-20130909	09/09/13	6.15	-136.0	5.49	0.305	>200	17.6	--	--
	MW04-20150508	05/08/15	6.76	287.3	0.433	0.433	0.00	17.03	54.0	<0.500
	MW04-20150806	08/06/15	6.39	111.2	6.09	0.350	0.9	18.01	--	--
	MW04-20151209	12/09/15	6.49	221.3	7.48	0.344	1.1	16.74	--	--
	MW04-20160308	03/08/16	6.60	136.4	3.56	0.292	1.46	16.11	--	--
	MW04-20160713	07/13/16	6.48	-1.3	0.99	0.392	1.06	16.78	--	--
	MW04-20161019	10/19/16	7.18	190.7	3.15	0.300	4.06	15.98	--	--
	MW04-20170124	01/24/17	6.91	-1.1	2.95	0.237	3.22	14.74	--	--
	MW04-20170531	05/31/17	6.93	219.6	7.11	0.453	6.06	15.70	--	--
	MW04-20170921	09/21/17	6.71	120.3	8.65	0.460	6.82	15.49	--	--
	MW04-20171214	12/14/17	7.13	237.0	8.36	0.465	3.01	13.12	--	--
	MW04-20180309	03/09/18	6.60	159.4	1.80	0.290	3.01	14.96	--	--
	MW04-20180629	06/29/18	6.61	132.9	4.55	0.351	1.50	15.78	--	--
	MW04-20180920	09/20/18	6.55	189.1	7.07	0.387	1.27	15.80	--	--
	MW04-20181214	12/14/18	6.47	38.2	4.83	0.388	0.73	14.58	41.0	--
	MW04-20190614	06/14/19	6.58	100.0	4.15	0.386	3.98	16.50	66.3	--
	MW04-20191205	12/05/19	6.68	-64.1	7.97	0.463	2.67	14.07	45.8	--
	MW04-20200626	06/26/20	6.37	185.2	7.78	0.391	7.72	16.70	115	--
	MW04-20201211	12/11/20	9.57	-11.2	6.63	0.409	4.75	12.10	103	--
	MW04-20210623	06/23/21	6.35	-16.3	2.23	0.480	6.14	15.96	137	--
	MW04-20211215	12/15/21	6.95	126.9	1.07	0.495	2.55	14.90	74.0	0.965
	MW04-20220607	06/07/22	6.54	326.5	5.75	0.700	7.06	15.00	61.6	0.633
	MW04-20221214	12/14/22	6.48	183.3	8.16	0.582	9.11	14.10	211	0.761
	MW04-20230622	06/22/23	6.80	263.5	7.79	0.950	2.28	14.80	57.8	0.919
	MW04-20231208	12/08/23	6.56	217.1	7.52	0.445	0.93	14.70	66.6	<0.700
	MW04-20240626	06/26/24	6.52	201.7	7.62	0.455	7.89	15.62	60.5	0.740
	MW04-20241218	12/18/24	6.66	214.4	6.36	0.431	5.08	14.36	70.0[D]	<0.700

Table 7
Groundwater Geochemical and Water Quality Parameters
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Well Identification	Sample Identification	Sample Date	pH[1]	ORP[1] (mV)	Dissolved Oxygen[1] (mg/L)	Specific Conductivity[1] (mS/cm)	Turbidity[1] (NTU)	Temperature[1] (°C)	Alkalinity[2] (mg/L $CaCO_3$)	Total Organic Carbon[3] (mg/L)
MW07	MW07-20110531	05/31/11	6.63	26	5.70	0.281	--	14.71	--	--
	MW07-20111012	10/12/11	6.36	166.4	2.92	0.181	14.9	15.2	--	--
	MW07-20130909	09/09/13	6.48	124.5	2.71	0.373	17.1	18.0	--	--
	MW07-20150508	05/08/15	5.94	304.5	4.79	0.491	5.34	17.19	39.0	<0.500
	MW07-20150805	08/05/15	6.22	84.4	4.65	0.597	0.96	18.43	--	--
	MW07-20151209	12/09/15	6.59	210.8	3.10	0.446	4.4	16.86	--	--
	MW07-20160308	03/08/16	6.42	252.3	3.78	0.375	8.12	15.00	--	0.862
	MW07-20160713	07/13/16	6.44	222.8	0.77	0.330	1.01	16.82	--	0.83
	MW07-20161019	10/19/16	6.79	120.8	2.96	0.328	4.00	16.24	--	1.70
	MW07-20170124	01/24/17	6.68	-36.8	4.92	0.275	12.21	13.47	--	4.25
	MW07-20170531	05/31/17	6.32	-76.4	4.45	0.474	7.21	15.95	--	4.58
	MW07-20180308	03/08/18	6.47	124.4	7.75	0.374	2.75	14.33	--	0.877
	MW07-20180629	06/29/18	6.32	176.2	7.38	0.509	1.43	16.31	--	1.80
	MW07-20180920	09/20/18	6.42	198.7	8.76	0.486	6.50	16.30	--	0.963
	MW07-20181214	12/14/18	6.32	55.0	7.57	0.465	3.86	15.59	25.5	0.942
	MW07-20190614	06/14/19	6.12	115.9	7.91	0.469	5.23	15.86	23.4	0.869
	MW07-20191205	12/05/19	6.41	-71.1	6.85	0.531	6.35	14.45	20.5	0.736
	MW07-20200630	06/30/20	6.41	125.4	4.95	0.414	4.14	15.88	--	0.789
	MW07-20201210	12/10/20	6.41	131.6	1.39	0.439	3.36	15.00	83.3	0.969
	MW07-20210623	06/23/21	6.39	-40.6	4.91	0.504	3.48	16.11	99.4	0.949
	MW07-20211215	12/15/21	6.89	130.1	1.12	0.483	1.12	14.80	60.5	0.884
	MW07-20220607	06/07/22	6.36	62.1	7.57	0.489	8.6	15.69	32.5	0.772
	MW07-20221214	12/14/22	6.81	323.7	8.46	0.970	15.1	14.80	32.7	0.756
	MW07-20230622	06/22/23	6.50	239.2	6.97	1.140	1.41	15.40	29.2	0.895
	MW07-20231208	12/08/23	6.09	-97.3	8.22	0.543	2.14	14.38	25.2	1.70
	MW07-20240626	06/26/24	6.55	211.9	6.91	0.546	2.07	15.8	24.5	0.794
	MW07-20241218	12/18/24	6.47	255.7	7.28	0.408	2.28	14.9	<2.50	<0.700
MW13	MW13-20111020	10/20/11	7.10	138.0	2.12	1.040	21.8	15.9	--	--
	MW13-20130910	09/10/13	6.50	34.9	3.67	0.256	>200	18.4	--	--
	MW13-20150511	05/11/15	6.83	107.0	4.71	0.367	131.0	17.13	40.0	<0.500
	MW13-20150805	08/05/15	6.50	97.7	3.91	0.400	>200	17.82	--	--
	MW13-20151215	12/15/15	8.72	91.8	3.61	0.384	51.2	15.53	--	--
	MW13-20160307	03/07/16	6.80	190.3	2.94	0.348	4.06	15.83	--	--
	MW13-20160712	07/12/16	6.67	82.4	4.29	0.386	6.65	17.75	--	--
	MW13-20161019	10/19/16	6.50	161.4	4.95	0.339	33.4	16.74	--	--
	MW13-20170124	01/24/17	6.78	-58.5	4.44	0.359	8.68	14.96	--	--
	MW13-20170531	05/31/17	6.59	-84.5	2.38	0.353	8.31	16.32	--	--
	MW13-20170921	09/21/17	6.27	351.8	6.20	0.337	89.7	15.74	--	--
	MW13-20171214	12/14/17	6.83	122.5	3.81	0.363	overrange	12.39	--	--
	MW13-20180308	03/08/18	6.57	186.2	5.98	0.331	40.5	15.22	--	--
	MW13-20180629	06/29/18	6.68	76.4	3.66	0.396	18.2	16.34	--	--
	MW13-20180920	09/20/18	6.64	157.6	4.38	312.500	26.7	16.20	--	--
	MW13-20181214	12/14/18	6.49	22.2	3.30	0.320	38.0	14.93	--	--
	MW13-20190614	06/14/19	6.41	106.2	4.31	0.315	9.63	15.83	--	--
	MW13-20191205	12/05/19	6.28	-0.2	7.31	0.214	18.60	11.38	--	--
	MW13-20200626	06/26/20	6.57	211.1	7.12	0.334	26.40	15.70	--	--
	MW13-20201210	12/10/20	6.65	194.4	5.39	0.354	9.24	14.63	--	--
	MW13-20210623	06/23/21	6.73	203.9	2.82	0.294	9.16	16.50	--	--
	MW13-20211216	12/16/21	7.02	92.2	4.30	0.310	6.09	13.95	--	1.17
	MW13-20220608	06/08/22	6.27	319.0	5.50	0.329	9.85	14.90	--	--
	MW13-20221214	12/14/22	6.27	189.7	6.58	0.411	9.39	14.80	--	--
	MW13-20230622	06/22/23	6.64	186.1	6.58	0.438	6.14	15.30	--	--
	MW13-20231206	12/06/23	5.70	29.2	8.14	0.408	4.26	14.58	--	--
	MW13-20240626	06/26/24	6.40	257.1	5.53	0.461	7.08	15.5	--	--
	MW13-20241218	12/18/24	6.37	289.5	5.83	0.426	7.87	15.05	--	--
MW27	MW27-20151210	12/10/15	6.75	217.6	5.56	0.417	4.5	16.74	--	--
	MW27-20160309	03/07/16	6.51	214.9	3.31	0.406	3.12	16.09	--	114
	MW27-20160713	07/13/16	6.47	78.8	2.60	0.414	5.17	17.36	--	--
	MW27-20161019	10/19/16	6.66	97.6	0.89	0.420	0.77	16.82	--	--
	MW27-20170124	01/24/17	6.55	113.9	0.68	0.617	4.01	0.68	--	--
	MW27-20170531	05/31/17	6.89	195.9	1.96	0.377	1.98	16.42	--	--
	MW27-20170921	09/21/17	6.51	126.3	2.39	0.365	2.27	15.64	--	--
	MW27-20171214	12/14/17	6.42	92.3	0.32	0.532	0.41	15.82	--	--
	MW27-20180308	03/08/18	6.46	-24.8	0.54	0.289	12.4	14.35	--	--
	MW27-20180628	06/28/18	6.32	-12.8	0.77	0.455	1.30	16.40	--	--
	MW27-20180920	09/20/18	6.42	40.9	0.21	0.388	1.34	16.80	--	--
	MW27-20181214	12/14/18	6.32	39.7	1.58	0.359	0.85	15.52	--	--
	MW27-20190614	06/14/19	6.44	49.6	3.22	0.360	1.47	15.92	--	--
	MW27-20191205	12/05/19	6.75	-69.3	5.25	0.372	1.68	14.20	--	--
	MW27-20200626	6/26/2020	6.20	197.9	0.32	0.442	3.42	16.10	--	--
	MW27-20201210	12/10/20	6.37	163.2	2.04	0.475	4.18	15.13	--	--
	MW27-20210623	06/23/21	6.55	12.7	0.22	0.535	6.11	16.70	--	--
	MW27-20211215	12/15/21	6.94	-62.8	0.06	0.567	5.31	15.30	--	--
	MW27-20220608	06/08/22	6.40	-29.5	0.42	0.432	1.10	15.57	--	--
	MW27-20221215	12/15/22	6.43	182.6	0.46	0.497	1.46	14.40	--	--
	MW27-20230621	06/21/23	6.67	31.8	0.19	0.367	3.15	15.60	--	--
	MW27-20231206	12/06/23	6.51	-51.8	2.47	0.110	11.3	14.90	--	--
	MW27-20240626	06/26/24	6.47	100.6	1.54	0.388	4.75	16.06	--	--
	MW27-20241217	12/17/24	6.46	113	5.13	0.346	33.7	15.12	--	--
MW31	MW31-20191009	10/09/19	9.75	100.2	4.02	0.230	16.2	15.02	--	--
	MW31-20191205	12/05/19	6.45	4.1	6.75	0.159	13.6	11.29	--	--
	MW31-20200630	6/30/2020	6.12	232.7	4.32	0.311	2,491[4]	16.06	--	--
	MW31-20201211	12/11/20	6.77	146.9	3.77	0.343	2,950[4]	12.14	--	--
	MW31-20210624	06/24/21	6.39	-13.1	8.62	0.286	24.1	16.59	--	--
	MW31-20211215	12/15/21	6.5	-6.4	4.73	0.381	9.3	14.38	--	--
	MW31-20220607	06/07/22	6.48	73.4	6.48	0.267	7.4	15.8	--	--
	MW31-20221214	12/14/22	6.37	176.2	7.41	0.311	32.6	14.8	--	--
	MW31-20230621	06/21/23	6.84	167	7.94	0.300	6.1	15.5	--	--
	MW31-20231206	12/06/23	6.43	266.8	7.64	0.127	8.98	15.2	--	--
	MW31-20240626	06/26/24	6.35	187.6	7.85	0.386	11.2	15.87	--	--

Table 7
Groundwater Geochemical and Water Quality Parameters
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Well Identification	Sample Identification	Sample Date	pH[1]	ORP[1] (mV)	Dissolved Oxygen[1] (mg/L)	Specific Conductivity[1] (mS/cm)	Turbidity[1] (NTU)	Temperature[1] (°C)	Alkalinity[2] (mg/L $CaCO_3$)	Total Organic Carbon[3] (mg/L)
Terry Avenue North										
MW15	MW15-20150508	05/08/15	6.09	167.7	8.25	0.135	4.07	15.35	--	--
	MW15-20150805	08/05/15	6.16	134.1	8.64	0.163	0.5	15.90	--	--
	MW15-20151209	12/09/15	7.33	164.8	7.53	0.169	2.57	14.58	--	--
	MW15-20160308	03/08/16	6.19	181.1	7.26	0.197	2.63	14.44	--	--
	MW15-20160713	07/13/16	6.28	196.9	4.62	0.341	1.28	15.40	--	--
	MW15-20161018	10/18/16	6.41	192.6	4.75	0.289	6.48	15.35	--	--
	MW15-20170125	01/25/17	6.14	70.2	4.21	0.159	1.78	1.88	--	--
	MW15-20170531	05/31/17	5.67	-48.0	9.71	0.126	7.01	15.22	--	--
	MW15-20170922	09/22/17	5.81	382.3	7.69	0.156	1.72	15.06	--	--
	MW15-20171215	12/15/17	6.50	117.0	5.31	0.251	4.84	12.66	--	--
	MW15-20171215	12/15/17	6.50	117.0	5.31	0.251	4.84	12.66	--	--
	MW15-20180309	03/09/18	6.30	44.5	0.36	0.359	6.01	14.13	--	--
	MW15-20180629	06/29/18	6.14	36.2	4.13	0.228	11.55	14.39	--	--
	MW15-20180920	09/20/18	5.88	169.7	7.66	0.273	14.3	15.70	--	--
	MW15-20181214	12/14/18	6.00	46.7	6.24	0.238	5.61	14.60	--	--
	MW15-20190613	06/13/19	5.97	128.9	5.70	0.154	5.95	16.27	--	--
	MW15-20191205	12/05/19	6.84	-85.7	4.43	0.235	29.20	13.62	--	--
	MW15-20200626	6/26/2020	6.17	134.0	3.24	0.433	3.86	15.90	--	--
	MW15-20201211	12/11/20	6.35	102.6	4.9	0.599	3.13	14.02	--	--
	WELL DAMAGED 2021									
MW34	MW34-20211216	12/16/21	7.15	195.3	1.51	0.432	18.5	16.6	--	--
	MW34-20220607	06/07/22	6.41	298.9	7.73	0.360	23.3	14.6	--	--
	MW34-20221214	12/14/22	6.78	321.9	9.82	0.700	29	14.8	--	--
	MW34-20230621	06/21/23	6.09	150.2	8.14	0.488	7.19	15.6	--	--
	MW34-20231206	12/06/23	5.84	-85.8	10.43	0.428	8.93	14.41	--	--
Thomas Street										
MW16	MW16-20130911	09/11/13	7.22	48.0	3.64	0.686	162.0	19.04	--	--
	MW16-20150508	05/08/15	6.40	145.4	0.68	0.676	22.1	15.59	266	0.961
	MW16-20150805	08/05/15	6.10	34.4	0.40	0.771	1.45	16.37	--	--
	MW16-20151210	12/10/15	7.80	114.5	0.73	0.789	1.34	14.90	--	--
	MW16-20160308	03/08/16	6.60	15.7	0.89	0.753	0.72	14.65	--	--
	MW16-20160712	07/12/16	6.68	-90.8	0.47	0.928	0.47	17.38	--	--
	MW16-20161019	10/19/16	6.49	-56.3	0.41	0.788	8.32	15.66	--	9.4
	MW16-20170125	01/25/17	6.57	112.90	0.46	0.703	1.98	14.20	--	13.50
	MW16-20170531	05/31/17	6.71	-106.2	0.65	0.985	3.81	16.63	--	46.0[D]
	MW16-20170922	09/22/17	6.62	189.4	0.72	0.995	1.35	16.96	--	92.1[D]
	MW16-20171229	12/29/17	6.87	96.9	2.13	0.830	1.95	14.11	--	93.5[D]
	MW16-20180309	03/09/18	6.70	68.4	0.23	0.941	7.98	15.28	--	1.87
	WELL DAMAGED 2018									
MW28	MW28-20190613	06/13/19	6.62	81.3	1.08	0.867	4.22	18.72	424	--
	MW28-20191009	10/09/19	8.1	87.4	1.58	0.789	5.72	16.13	--	--
	MW28-20191204	12/04/19	6.68	161.5	0.24	0.790	7.72	15.49	391	--
	MW28-20200626	06/26/20	6.70	-71.0	0.55	0.734	6.51	16.60	351	--
	MW28-20201211	12/11/20	6.89	158.9	1.47	0.634	18.9	14.37	304	--
	MW28-20210623	06/23/21	6.69	-48.1	3.67	0.723	7.71	19.66	292	--
	MW28-20211216	12/16/21	7.34	85.3	0.44	0.532	--	14.40	223	--
	MW28-20220609	06/09/22	6.79	81.4	1.20	0.600	16.3	15.10	267	--
	MW28-20221215	12/15/22	7.48	175.9	2.17	0.910	47.5	14.90	248	--
	MW28-20230621	06/21/23	7.21	106.2	7.75	0.318	84.1	15.90	160	--
	MW28-20231204	12/04/23	6.62	-117.7	9.35	0.492	33.1	15.15	237	--
	MW28-20240624	06/24/24	7.03	119.0	8.39	0.530	36.5	19.60	244	--
	MW28-20241216	12/16/24	7.17	39.2	8.48	0.584	851	14.94	253[D]	--
Harrison Street										
MW01	MW01-20150806	08/06/15	5.71	126.9	9.20	0.308	3.41	21.37	--	--
	MW01-20160308	03/08/16	6.63	157.2	7.20	0.215	--	13.07	--	--
	MW01-20160712	07/12/16	6.69	157.7	7.48	0.225	24.9	17.28	--	--
	MW01-20161018	10/18/16	6.73	125.0	8.01	0.228	3.90	15.31	--	--
	MW01-20170124	01/24/17	6.72	144.0	8.00	0.222	2.270	13.25	--	--
	MW01-20170531	05/31/17	6.15	-30.9	8.24	0.262	8.660	15.17	--	--
	MW01-20171214	12/14/17	6.23	73.1	4.89	0.253	26.8	11.21	--	--
	MW01-20180309	03/09/18	6.34	185.7	5.40	0.219	5.27	12.87	--	--
	MW01-20180628	06/28/18	6.37	112.2	3.85	0.255	2.32	15.93	--	--
	MW01-20180920	09/20/18	6.35	179.8	5.91	0.260	2.82	16.10	--	--
	MW01-20181214	12/14/18	6.45	114.3	6.46	0.244	2.90	14.44	--	--
	MW01-20190614	06/14/19	6.30	111.2	8.19	0.288	1.73	15.45	--	--
	MW01-20191205	12/05/19	6.65	-80.8	7.20	0.325	2.61	13.81	--	--
	MW01-20200626	06/26/20	6.29	170.2	6.86	0.381	23.7	16.60	--	--
	MW01-20201211	12/11/20	6.36	187.7	11.11	0.442	4.37	14.11	--	--
	MW01-20210624	06/24/21	6.12	12.8	7.96	0.467	7.13	16.94	--	--
	MW01-20211215	12/15/21	6.41	5.4	7.07	0.536	3.30	14.01	--	--
	MW01-20220607	06/07/22	6.34	44.0	7.60	0.417	3.1	15.67	--	--
	MW01-20221214	12/14/22	6.39	184.7	8.34	0.283	5.7	14.90	--	--
	MW01-20230621	06/21/23	6.69	196.9	8.35	0.453	4.4	15.90	--	--
	MW01-20231206	12/06/23	6.34	258.7	8.02	0.471	3.09	15.3	--	--
MW26	MW26-20151210	12/10/15	8.26	142.3	4.58	0.359	34.8	14.39	--	--
	MW26-20160307	03/07/16	6.54	108.6	0.93	0.234	3.21	14.20	--	--
	MW26-20160712	07/12/16	6.28	101.8	5.39	0.313	1.30	16.08	--	--
	MW26-20161018	10/18/16	6.39	181.0	5.55	0.312	7.52	14.69	--	--
	MW26-20170124	01/24/17	6.49	75.0	0.88	0.316	2.67	13.80	--	--
	MW26-20170531	05/31/17	6.50	213.1	0.86	0.230	2.97	14.82	--	--
	MW26-20170921	09/21/17	6.15	182.7	0.35	0.268	5.98	14.91	--	--
	MW26-20171214	12/14/17	6.06	163.4	0.32	0.354	2.66	12.65	--	--
	MW26-20180309	03/09/18	6.39	166.2	0.28	0.281	8.47	13.37	--	--
	MW26-20180628	06/28/18	6.21	68.0	0.28	0.379	8.52	15.44	--	--
	MW26-20180920	09/20/18	6.23	174.5	0.28	0.359	3.98	15.90	--	--
	MW26-20181214	12/14/18	6.23	23.8	0.62	0.196	5.96	13.96	103	1.23
	MW26-20190614	06/14/19	6.27	83.0	0.59	0.370	6.41	15.73	78.0	1.13
	MW26-20191205	12/05/19	6.58	-107.00	0.70	0.279	7.07	14.04	103	21.2[B]
	MW26-20200626	06/26/20	6.17	10.50	0.19	0.369	7.84	15.50	124	1.39
	MW26-20201211	12/11/20	6.46	184.90	0.64	0.196	4.67	13.27	93.1	1.02
	MW26-20210623	06/23/21	6.6	14.90	0.33	0.303	7.36	16.10	114	1.30
	MW26-20211215	12/15/21	6.87	-23.60	0.55	0.356	5.80	13.71	127	0.900
	MW26-20220608	06/08/22	6.3	224.50	5.92	0.500	60	15.50	85.5	1.99
	MW26-20221214	12/14/22	6.93	291.60	3.27	0.750	>200	15.30	139	1.06
	MW26-20230622	06/22/23	6.55	68.10	2.01	0.429	143	16.40	147	1.08
	MW26-20231206	12/06/23	6.24	-73.30	9.56	0.100	113	14.64	63.0	1.03
	MW26-20240625	06/25/24	6.38	242.40	3.91	0.463	>2000	18.20	163	1.04
	MW26-20241218	12/18/24	6.41	109.60	0.71	0.469	87.3	15.07	166[D]	0.746

Table 7
Groundwater Geochemical and Water Quality Parameters
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Well Identification	Sample Identification	Sample Date	pH[1]	ORP[1] (mV)	Dissolved Oxygen[1] (mg/L)	Specific Conductivity[1] (mS/cm)	Turbidity[1] (NTU)	Temperature[1] (°C)	Alkalinity[2] (mg/L $CaCO_3$)	Total Organic Carbon[3] (mg/L)
MW32	MW32-20191009	10/09/19	6.16	-39.9	2.22	0.208	9.71	13.35	--	--
	MW32-20191205	12/05/19	5.92	-9.0	2.26	0.167	23.6	10.44	--	--
	MW32-20200626	06/26/20	5.98	118.9	3.54	0.251	6.92	15.20	--	--
	MW32-20201212	12/12/20	6.48	169.0	5.04	0.334	36.6	14.48	--	--
	MW32-20210624	06/24/21	6.37	156.4	2.79	0.271	14.9	15.80	--	--
	MW32-20211215	12/15/21	6.36	-36.9	0.86	0.280	11.0	14.16	--	--
	MW32-20220607	06/07/22	6.25	292.8	0.54	0.289	57.4	14.50	--	--
	MW32-20221214	12/14/22	7.1	279.9	2.60	0.479	146.0	14.50	--	--
	MW32-20230621	06/21/23	6.47	137.0	4.66	0.329	61.3	15.40	--	--
	MW32-20231205	12/05/23	6.32	190.5	3.18	0.342	336	12.97	--	--
MW33	MW33-20191009	10/09/19	8.03	97.2	4.32	0.257	7.3	15.85	--	--
	MW33-20191205	12/05/19	6.38	-25.6	5.79	0.170	3.43	11.28	--	--
	--	06/26/20	WELL DRY, UNABLE TO SAMPLE							
	--	12/10/20	WELL DRY, UNABLE TO SAMPLE							
	MW33-20210624	06/24/21	6.91	181.6	7.75	0.387	22.8	16.7	--	--
	MW33-20211216	12/16/21	7.26	213.1	1.38	0.371	35.9	14.7	--	--
	MW33-20220607	06/07/22	6.75	222.8	7.15	0.299	12.7	14.8	--	--
	MW33-20221213	12/13/22	6.75	133.3	7.56	0.527	29.2	14.6	--	--
	MW33-20230620	06/20/23	6.75	204.6	7.46	0.594	58.5	15.5	--	--
	MW33-20231205	12/05/23	6.11	223.8	6.84	0.206	23.2	11.51	--	--
Onni Property										
MW29	MW29-20191008	10/08/19	6.55	-146.2	1.67	0.777	32	14.09	--	--
	MW29-20191204	12/04/19	6.28	155.3	0.56	0.937	9.23	15.10	--	--
	MW29-20200625	06/25/20	6.59	33.2	0.70	0.960	9.70	16.70	--	--
	MW29-20201210	12/10/20	6.69	81.3	1.58	0.872	5.87	15.03	--	--
	MW29-20210622	06/22/21	6.59	45.5	4.96	0.870	3.10	17.99	--	--
	MW29-20211215	12/15/21	7.15	110.8	0.36	0.860	7.79	14.60	--	--
	MW29-20220607	06/07/22	6.7	55.7	1.03	0.700	8.5	15.31	--	--
	WELL DECOMISSIONED 2022									
MW29R	MW29R-20230824	08/24/23	6.46	-61.9	0.18	0.85	19.9	17.9	--	--
	MW29R-20240105	01/05/24	7.47	137.7	2.97	0.574	9.13	14.4	--	--
	MW29R-20240625	06/25/24	6.81	202.5	2.27	0.664	3.62	16.8	--	--
	MW29R-20241217	12/17/24	6.84	46.1	3.11	0.534	6.48	14.17	--	--
MW30	MW30-20191008	10/08/19	2.98	133.8	2.30	0.495	158	15.29	--	--
	MW30-20191204	12/04/19	5.88	173.1	0.4	0.440	13.9	14.30	--	--
	MW30-20200625	06/25/20	6.12	61.9	5.92	0.488	22.7	20.10	--	--
	MW30-20201210	12/10/20	6.17	125	2.18	0.475	38.0	14.36	--	--
	MW30-20210623	06/23/21	6.30	136.3	1.29	0.419	113.0	17.90	--	--
	MW30-20211215	12/15/21	6.63	72.8	0.70	0.471	26.4	14.90	--	--
	MW30-20220606	06/06/22	6.19	69.8	1.29	0.338	130	15.20	--	--
	WELL DECOMISSIONED 2022									
MW35	MW35-20230824	08/24/23	5.82	105.9	1.30	0.480	18.9	17.6	--	--
	MW35-20240105	01/05/24	6.91	174.6	2.34	0.467	8.82	14.3	--	--
	MW35-20240625	06/25/24	6.39	281.7	6.93	0.456	204	17.3	--	--
	MW35-20241217	12/17/24	6.60	123.6	5.35	0.432	>2000	13.23	--	--
ONNI-MW-4	ONNI-MW-4-20191208	12/08/19	6.46	-157.2	1.40	0.469	49.0	13.69	--	--
	ONNI-MW-4-20200625	06/25/20	6.97	-12.1	4.20	0.507	91.0	16.70	--	--
	ONNI-MW-4-20201210	12/10/20	7.06	182	1.99	0.472	245.0	13.15	--	--
	ONNI-MW-4-20210622	06/22/21	7.18	180.9	1.84	0.530	3713.0	23.30	--	--
	ONNI-MW-4-20211215	12/15/21	7.54	118.4	0.60	0.540	51.7	14.40	--	--
	WELL DECOMISSIONED 2022									
ONNI-MW-5	ONNI-MW-5-20191208	12/08/19	6.92	-176.5	1.7	0.423	45.0	12.75	--	--
	ONNI-MW-5-20200206	02/06/20	7.11	-38.1	1.17	0.368	20.5	14.79	--	--
	ONNI-MW-5-20200625	06/25/20	7.24	33.1	2.12	0.436	39.3	15.70	--	--
	ONNI-MW-5-20201209	12/09/20	7.21	131.6	0.38	0.405	15.0	14.81	--	--
	ONNI-MW-5-20210623	06/23/21	7.43	27.9	1.74	0.412	overrange	17.53	--	--
	ONNI-MW-5-20211214	12/14/21	7.41	-155.7	0.25	0.343	125	14.10	--	--
	WELL DECOMISSIONED 2022									
ONNI-MW-9	ONNI-MW-9-20211214	12/14/21	6.37	20.5	0.4	0.379	115	13.2	--	--
	ONNI-MW-9-20220606	06/06/22	6.27	329.1	15.41	0.550	55.1	15.3	--	--
	WELL DECOMISSIONED 2022									

NOTES:

Analyses performed by Friedman & Bruya, Inc., Fremont Analytical Inc., or Aquatic Research Inc., of Seattle, Washington; or Amtest Inc. of Kirkland, Washington.

[1]Parameter is measured in the field using water quality meter with flow-through cell. The reported value is the last reading prior to sampling groundwater.

[2]Analyzed by SM 2320B.

[3]Analyzed by SM 5310C.

[4]Elevated turbidity measurement as groundwater was purged from the base of the well.

Laboratory Notes:

[D]Dilution was required.

[B]Analyte detected in the associated Method Blank.

[H]Holding times for preparation or analysis exceeded.

*Anomalous reading, attributed to meter error.

-- = not measured/ not applicable

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

°C = degrees Celius

$CaCO_3$ = calcium carbonate

mg/L = milligrams per liter

mS/cm = milliSiemen per centimeter

mV = millivolts

NTU = nephelometric turbidity unit

ORP = oxidation-reduction potential

SM = Standard Method

SoundEarth Strategies

Table 8
Groundwater Analytical Results for Volatile Fatty Acids
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Well Identification	Sample Identification	Sample Date	Lactate[1] (mg/L)	Acetate[1] (mg/L)	Propionate[1] (mg/L)	Formate[1] (mg/L)	Butyrate[1] (mg/L)	Pyruvate[1] (mg/L)	Lactic[2] (mg/L)	Acetic[3] (mg/L)	Total Organic Carbon[4] (mg/L)
MW07	MW07-20160308	03/08/16	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	0.862
	MW07-20160713	07/16/16	--	--	--	--	--	--	<20	<20[X,D]	0.83
	MW07-20161019	10/19/16	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	1.7
	MW07-20170124	01/24/17	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	4.25
	MW07-20170531	05/31/17	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	4.58
	MW07-20180308	03/08/18	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	0.877
	MW07-20180629	06/29/18	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	1.80
	MW07-20180920	09/20/18	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	0.963
MW16	MW16-20161019	10/19/16	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	9.4
	MW16-20170125	01/25/17	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	13.5
	MW16-20170531	05/31/17	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	46.0[D]
	MW16-20170922	09/22/17	<0.39	1.1	<0.31	2	<0.41	<0.69	--	--	92.1[D]
	MW16-20171229	12/29/17	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	93.5[D]
	MW16-20180309	03/09/18	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	1.87
	WELL DAMAGED 2018										
MW18	MW18-20150506	05/06/15	--	--	--	--	--	--	--	--	<0.500
	MW18-20160308	03/08/16	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	1.01
	MW18-20160714	07/14/16	--	--	--	--	--	--	<100	64[X,D]	2,300
	MW18-20161020	10/20/16	<7.8	959	494	<4.4	131	<14	--	--	1,900
	MW18-20170126	01/26/17	<7.8	830	200	<4.4	121	<14	--	--	823
	MW18-20170601	06/01/17	<7.8	512	300	<4.4	115	<14	--	--	1,090[D]
	MW18-20170923	09/23/17	<0.39	25	232	<0.22	<0.41	2	--	--	253[D]
	MW18-20171216	12/16/17	<0.39	<0.54	81	0.79	<0.41	<0.69	--	--	173[D]
	MW18-20180310	03/10/18	<0.39	193	79	0.55	1.6	1.7	--	--	108[D]
	MW18-20180630	06/30/18	<0.39	28	53	<0.22	<0.41	<0.69	--	--	47.2[D]
	MW18-20180922	09/22/18	<0.39	26	5.4	<0.22	<0.41	<0.69	--	--	37.8[D]
	MW18-20190615	06/15/19	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	11
	MW18-20191207	12/07/19	<0.39	10	<0.31	<0.22	<0.41	<0.69	--	--	--
	MW18-20200627	06/27/20	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	5.95
	MW18-20201212	12/12/20	<0.69	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	4.30
	MW18-20210625	06/25/21	<0.39	1.8	<0.31	<0.22	<0.41	<0.69	--	--	6.85
	MW18-20211217	12/17/21	<0.39	<0.54	<0.31	<0.22	<0.47	<0.69	--	--	11.9
	MW18-20220609	06/09/22	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	7.97
	MW18-20221215	12/15/22	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	6.18
	MW18-20230622	06/22/23	1.6[J]	<1.4	<0.10	0.42	<0.06	<0.15	--	--	5.69
	MW18-20231207	12/07/23	<0.50	0.42[J]	<0.26	<0.25	<0.06	<0.75	--	--	5.31
	MW18-20240627	06/27/24	<0.50	<0.30	<0.26	<0.25	<0.06	<0.75	--	--	4.16

SoundEarth Strategies

Table 8
Groundwater Analytical Results for Volatile Fatty Acids
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Well Identification	Sample Identification	Sample Date	Lactate[1] (mg/L)	Acetate[1] (mg/L)	Propionate[1] (mg/L)	Formate[1] (mg/L)	Butyrate[1] (mg/L)	Pyruvate[1] (mg/L)	Lactic[2] (mg/L)	Acetic[3] (mg/L)	Total Organic Carbon[4] (mg/L)
MW21	MW21-20160309	03/09/16	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	2.29
	MW21-20160713	07/13/16	--	--	--	--	--	--	<100	<100[X,D]	1,800
	MW21-20161020	10/20/16	<7.8	509	1,032	<4.4	43	<14	--	--	1,800
	MW21-20170126	01/26/17	<0.39	201	311	1.1	31	0.91	--	--	884
	MW21-20170601	06/01/17	<7.8	682	393	<4.4	88	<14	--	--	755[D]
	MW21-20170924	09/24/17	<7.8	880	507	<4.4	148	<14	--	--	871[D]
	MW21-20171216	12/16/17	<7.8	630	151	45	148	13	--	--	722[D]
	MW21-20180310	03/10/18	<0.39	490	124	1.0	73	16	--	--	466[D]
	MW21-20180630	06/30/18	<7.8	811	278	<4.4	151	28	--	--	718[D]
	MW21-20180922	09/22/18	<0.39	460	173	<0.22	114	<0.69	--	--	549[D]
	MW21-20190615	06/15/19	<0.39	140	66	<0.22	12	4	--	--	163[D]
	MW21-20191207	12/07/19	<0.39	116	7.2	<0.22	13	12	--	--	--
	MW21-20200627	06/27/20	<0.39	249	144	20	79	19	--	--	--
	MW21-20201212	12/12/20	<0.69	157	89	0.72	36	9.1	--	--	191[D]
	MW21-20210625	6/25/21	<0.39	189	85	<0.22	50	15	--	--	349[D]
	MW21-20211217	12/17/21	<0.39	174	62	1.5	31	16	--	--	330
	MW21-20220609	06/09/22	<0.39	<0.54	<0.31	0.64	<0.41	<0.69	--	--	123[D]
	MW21-20221215	12/15/22	<0.39	161	6.1	<0.22	14	4.1	--	--	104[D]
	MW21-20230623	06/23/23	<0.62	136	7.4	<1.3	8.7	0.93[J]	--	--	25.5
	MW21-20231207	12/07/23	<0.50	213	<0.26	9.0	9.3	<0.75	--	--	109
	MW21-20240627	06/27/24	<0.50	117	5.8	<0.25	6.7	<0.75	--	--	21.8
MW22	MW22-20190615	06/15/19	<0.39	270	150	<0.22	39	13	--	--	286[D]
	MW22-20191207	12/07/19	<0.39	418	134	<0.22	42	13	--	--	--
	MW22-20200627	06/27/20	<0.39	283	56	<0.22	21	7.3	--	--	206[D]
	MW22-20201212	12/12/20	<0.69	142	22	`	8.8	1.2	--	--	95.5[D]
	MW22-20210625	06/25/21	<0.39	254	14	<0.22	36	2.4	--	--	349[D]
	MW22-20211217	12/17/21	<0.39	169	16	<0.22	14	1.9	--	--	133[D]
	MW22-20220609	06/09/22	<0.39	168	17	0.6	12	1.3	--	--	42.0
	MW22-20221216	12/16/22	<0.39	191	1.5	<0.22	20	2.5	--	--	105[D]
	MW22-20230623	06/23/23	<0.62	173	5.0	3.6	12	1.7[J]	--	--	82.7
	MW22-20231207	12/07/23	<0.50	218	2.8	<0.25	7.2	<0.75			76.8
	MW22-20240627	06/27/24	<0.50	153	9.9	1.2[J]	8.9	<0.75			81.2

SoundEarth Strategies

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Groundwater Analytical Results for Volatile Fatty Acids
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Well Identification	Sample Identification	Sample Date	Lactate[1] (mg/L)	Acetate[1] (mg/L)	Propionate[1] (mg/L)	Formate[1] (mg/L)	Butyrate[1] (mg/L)	Pyruvate[1] (mg/L)	Lactic[2] (mg/L)	Acetic[3] (mg/L)	Total Organic Carbon[4] (mg/L)
MW23	MW23-20150507	05/07/15	--	--	--	--	--	--	--	--	<0.500
	MW23-20160308	03/08/16	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	3.14
	MW23-20160714	07/14/16	--	--	--	--	--	--	<100	<100[X]	2,300
	MW23-20161020	10/20/16	<7.8	986	1,229	<4.4	144	<14	--	--	2,300
	MW23-20170126	01/26/17	<7.8	613	256	<4.4	57	<14	--	--	520
	MW23-20170601	06/01/17	<7.8	1,300	656	<4.4	280	<14	--	--	1,620[D]
	MW23-20170923	09/23/17	<7.8	705	388	<4.4	295	59	--	--	1,160[D]
	MW23-20171216	12/16/17	<0.39	131	176	8.0	106	31	--	--	865[D]
	MW23-20180310	03/10/18	<0.39	25	151	2.8	<0.41	7.2	--	--	127[D]
	MW23-20180630	06/30/18	<0.39	52	213	<0.22	<0.41	8.5	--	--	198[D]
	MW23-20180922	09/22/18	<0.39	26	230	<0.22	<0.41	<0.69	--	--	159[D]
	MW23-20190615	06/15/19	<0.39	19	86	<0.22	0.42	1.8	--	--	60.7[D]
	MW23-20191207	12/07/19	<0.39	24	<0.31	2.7	<0.41	<0.69	--	--	--
	MW23-20200627	06/27/20	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	6.41
	MW23-20201212	12/12/20	<0.69	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	7.90
	MW23-20210625	06/25/21	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	6.65
	MW23-20211217	12/17/21	<0.39	<0.54	<0.31	<0.22	<0.47	<0.69	--	--	6.10
	MW23-20240627	06/27/24	<0.50	<0.30	<0.26	1.0[J]	<0.06	<0.75	--	--	2.98
MW24	MW24-20150506	05/06/15	--	--	--	--	--	--	--	--	1.12
	MW24-20160309	03/09/16	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	2.19
	MW24-20160715	07/15/16	--	--	--	--	--	--	<100	56.7[X,D]	1,000
	MW24-20161020	10/20/16	<7.8	1,431	143	<4.4	20	<14	--	--	640
	MW24-20170126	01/26/17	<7.8	901	133	<4.4	34	<14	--	--	375
	MW24-20170601	06/01/17	<7.8	1,036	204	78	251	<14	--	--	1,470[D]
	MW24-20170924	09/24/17	<0.39	28	140	4.2	38	7.9	--	--	390[D]
	MW24-20171216	12/16/17	<0.39	12	70	1.2	2.0	0.80	--	--	233[D]
	MW24-20180310	03/10/18	<0.39	8.0	10	<0.22	<0.41	<0.69	--	--	22.1[D]
	MW24-20180630	06/30/18	<7.8	681	164	<4.4	123	<13.8	--	--	770[D]
	MW24-20180922	09/22/18	<0.39	26	10	<0.22	1	<0.69	--	--	45.5[D]
	MW24-20190615	06/15/19	<0.39	39	5.6	<0.22	0.46	<0.69	--	--	20.5
	MW24-20191207	12/07/19	5.7	29	<0.31	3.0	<0.41	<0.69	--	--	--
	MW24-20200627	06/27/20	<0.39	<0.54	0.60	<0.22	<0.41	<0.69	--	--	8.44
	MW24-20201212	12/12/20	<0.69	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	6.95
	MW24-20210625	06/25/21	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	7.52
	MW24-20211217	12/17/21	<0.39	<0.54	<0.31	1.7	<0.47	<0.69	--	--	<0.500
	MW24-20220609	06/09/22	<0.39	1.0	<0.31	0.92	<0.41	<0.69	--	--	5.79
	MW24-20221216	12/16/22	<0.39	9.4	<0.31	<0.22	<0.41	<0.69	--	--	8.08[D]
	MW24-20230623	06/23/23	<0.62	<1.4	<0.10	<1.3	<0.06	<0.15	--	--	4.60
	MW24-20231207	12/07/23	<0.50	0.38[J]	<0.26	<0.25	<0.06	<0.75			4.24
	MW24-20240627	06/27/24	<0.50	1.5[J]	<0.26	0.99[J]	<0.06	<0.75			3.13

SoundEarth Strategies

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Seattle, Washington

Well Identification	Sample Identification	Sample Date	Lactate[1] (mg/L)	Acetate[1] (mg/L)	Propionate[1] (mg/L)	Formate[1] (mg/L)	Butyrate[1] (mg/L)	Pyruvate[1] (mg/L)	Lactic[2] (mg/L)	Acetic[3] (mg/L)	Total Organic Carbon[4] (mg/L)
MW25	MW25-20150507	05/07/15	--	--	--	--	--	--	--	--	<0.500
	MW25-20190615	06/15/19	<0.39	45	1.3	<0.22	1.3	<0.69	--	--	25.80
	MW25-20191207	12/07/19	<0.39	21	<0.31	2.9	<0.41	<0.69	--	--	--
	MW25-20200627	06/27/20	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	5.21
	MW25-20201212	12/12/20	<0.69	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	9.57
	MW25-20210625	06/25/21	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	7.50
	MW25-20211217	12/17/21	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	4.18
	MW25-20220609	06/09/22	<0.39	<0.54	<0.31	0.80	<0.41	<0.69	--	--	2.29
	MW25-20221216	12/16/22	<0.39	6.5	<0.31	<0.22	<0.41	<0.69	--	--	1.16
	MW25-20230623	06/23/23	1.7[J]	<1.4	<0.10	<1.3	<0.06	<0.15	--	--	1.56
	MW25-20231207	12/07/23	<0.50	0.38[J]	<0.26	<0.25	<0.06	<0.75	--	--	1.59
	MW25-20240627	06/27/24	<0.50	<0.30	<0.26	0.98[J]	<0.06	<0.75	--	--	1.42
IW04	IW04-20150508	05/08/15	--	--	--	--	--	--	--	--	<0.500
	IW04-20190615	06/15/19	<0.39	31	6.1	<0.22	3.2	0.42	--	--	148[D]
	IW04-20191207	12/07/19	<0.39	25	<0.31	3.3	<0.41	<0.69	--	--	--
	IW04-20200627	06/27/20	<0.39	8.2	1.5	<0.22	1.5	<0.69	--	--	88.7[D]
	IW04-20201212	12/12/20	<0.69	6.2	3.1	<0.22	2.1	<0.69	--	--	90.3[D]
	IW04-20210625	06/25/21	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	93.1[D]
	IW04-20211217	12/17/21	<0.39	2.4	1.2	<0.22	<0.47	<0.69	--	--	101[D]
	IW04-20220609	06/09/22	<0.39	178	45	5.9	29	16	--	--	75.6[D]
	IW04-20221215	12/15/22	<0.39	7.2	<0.31	<0.22	<0.41	<0.69	--	--	30.5[D]
	IW04-20230622	06/22/23	<0.62	<1.4	<0.10	<1.3	<0.06	<0.15	--	--	24.3
	IW04-20231207	12/07/23	<0.50	0.60[J]	<0.26	<0.25	<0.06	<0.75	--	--	21.5
	IW04-20240626	06/26/24	<0.50	<0.30	<0.26	<0.25	<0.06	<0.75	--	--	15.3
IW50	IW50-20160309	03/09/16	<0.39	358	82	1.1	22	<0.69	--	--	115
	IW50-20160715	07/15/16	--	--	--	--	--	--	<100	<100[X,D]	1,100
	IW50-20161021	10/21/16	<7.8	1,492	683	8.2	476	<14	--	--	1,600
	IW50-20170126	01/26/17	<0.39	73	102	4.0	61	9.4	--	--	391
	IW50-20170602	06/02/17	<0.39	39	5.2	<0.22	1.3	<0.69	--	--	85.2[D]
	IW50-20170924	09/24/17	<0.39	87	108	<0.22	4.2	2.5	--	--	214[D]
	IW50-20171216	12/16/17	`	43	8.0	<0.22	<0.41	<0.69	--	--	224[D]
	IW50-20180310	03/10/18	<0.39	41	3.1	<0.22	0.79	<0.69	--	--	55.0[D]
	IW50-20180630	06/30/18	<0.39	4.9	<0.31	<0.22	<0.41	<0.69	--	--	41.9[D]
	IW50-20180922	09/22/18	<0.39	2.3	<0.31	<0.22	<0.41	<0.69	--	--	29.6[D]
	IW50-20190615	06/15/19	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	7.56
	IW50-20191207	12/07/19	<0.39	18	<0.31	3.3	<0.41	<0.69	--	--	--
	IW50-20200627	06/27/20	<0.39	2.8	<0.31	<0.22	<0.41	<0.69	--	--	18.2
	IW50-20201212	12/12/20	<0.69	1.6	<0.31	<0.22	<0.41	<0.69	--	--	13.7
	IW50-20210625	06/25/21	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	16.1
	IW50-20211217	12/17/21	<0.39	9.2	1.3	<0.22	<0.47	<0.69	--	--	38.1
	IW50-20220609	06/09/22	--	--	--	--	--	--	--	--	13.5
	IW50-20221216	12/16/22	<0.39	7.4	<0.31	<0.22	<0.41	<0.69	--	--	5.66
	IW50-20230623	06/23/23	<0.62	<1.4	<0.10	<1.3	<0.06	<0.15	--	--	6.25
	IW50-20231207	12/07/23	<0.50	0.88[J]	<0.26	<0.25	<0.06	<0.75	--	--	5.03
	IW50-20240627	06/27/24	<0.50	<0.30	<0.26	<0.25	<0.06	<0.75	--	--	3.72

SoundEarth Strategies

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IW61	IW61-20160309	03/09/16	<0.39	368	51	0.69	28	<0.69	--	--	114
	IW61-20160713	07/13/16	--	--	--	--	--	--	<100	217[X,D]	2,900
	IW61-20161021	10/21/16	<7.8	1,543	538	122	837	<14	--	--	3,000
	IW61-20170126	01/26/17	<7.8	612	253	38	363	<14	--	--	1,300
	IW61-20170602	06/02/17	<0.39	171	118	<0.22	189	<0.69	--	--	908[D]
	IW6120170923	09/23/17	<7.8	2,589	231	37	705	19	--	--	1,490[D]
	IW61-20171216	12/16/17	<0.39	235	151	45	148	13	--	--	765[D]
	IW61-20180310	03/10/18	<0.39	184	176	31	92	16	--	--	432[D]
	IW61-20180630	06/30/18	<0.39	111	200	<0.22	44	14	--	--	406[D]
	IW61-20180922	09/22/18	<0.39	71	170	14	21	<0.69	--	--	228[D]
	IW61-20190615	06/15/19	<0.39	88	72	<0.22	4.4	0.58	--	--	140[D]
	IW61-20191207	12/07/19	<0.39	98	7.2	1.8	5	<0.69	--	--	--
	IW61-20200627	06/27/20	<0.39	13	0.62	<0.22	<0.41	<0.69	--	--	55.4[D]
	IW61-20201212	12/12/20	<0.69	5	<0.31	0.60	<0.41	<0.69	--	--	60.6[D]
	IW61-20210625	06/25/21	<0.39	<0.54	<0.31	<0.22	<0.41	<0.69	--	--	66.2[D]
	IW61-20211217	12/17/21	<0.39	4.5	<0.31	<0.22	<0.47	<0.69	--	--	72.6[D]
	IW61-20211217	06/09/22	<0.39	1.4	<0.31	<0.22	2.5	<0.69	--	--	81.8[D]
	IW61-20221216	12/16/22	<0.39	12	<0.31	<0.22	<0.41	<0.69	--	--	81.4[D]
	IW61-20230623	06/23/23	2.0	4.4	<0.10	1.9[J]	<0.06	<0.15	--	--	80.4
	IW61-20231207	12/07/23	<0.50	<0.30	<0.26	<0.25	<0.06	<0.75	--	--	81.3
	IW61-20240627	06/27/24	<0.50	3.9	<0.26	<0.25	<0.06	<0.75	--	--	66.0

NOTES:

[1]Analyzed by Ion Chromatography.

[2]Analyzed by EPA Method 300.0.

[3]Analyzed by EPA Method 300.0 modified.

[4]Analyzed by SM 5310C or EPA Method 300.0 modified.

Laboratory Notes:

[D]The reported value is from a dilution.

[X]Acetic and proprionic acids co-eluted. Results are quantitated at acetic acid.

[J]The associated value is an estimated result between the QL and the RL.

-- = not measured/ not applicable

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

EPA = US Environmental Protection Agency

mg/L = milligrams per liter

SM = Standard Method

QL = quantitation limit

RL = reporting Limit

Table 9
Indoor and Outdoor Air Analytical Results for Petroleum Hydrocarbons and CVOCs
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Sample ID	Sample Name	Sample Location	Sampled By	Sample Type	Sample Date Range	Analytical Results (µg/m^3)								
						APH EC5-8 aliphatics[1]	APH EC9-12 aliphatics[1]	APH EC9-10 aromatics[1]	TPH	PCE[2]	TCE[2]	cis-1,2-DCE[2]	trans-1,2-DCE[2]	Vinyl Chloride[2]
2018 Indoor Air Sampling Event														
OA01	OA01-20180304	Outdoor - HVAC Intake	SoundEarth	Outdoor Air (24 hours)	03/04/18–03/05/18	54	<35	<25	54	<1.7	<0.27	<0.2	<0.2	<0.13
IA01	IA01-20180304	P5 - North Wall		Indoor Air (24 hours)		67	<35	<25	67	--	--	--	--	--
IA02	IA02-20180304	P5 - Interior Stairway - North				130	36	<25	166	6.2	0.27	<0.2	<0.2	<0.13
IA03	IA03-20180304	P5 - West Wall				49	<35	<25	49	<1.7	<0.27	<0.2	<0.2	<0.13
IA04	IA04-20180304	P5 - West Wall				--	--	--	--	<1.7	<0.27	<0.2	<0.2	<0.13
IA05	IA05-20180307	P5 - South Tower Parking Elevator Shaft			03/07/18–03/08/18	--	--	--	--	<1.7	<0.27	<0.2	<0.2	<0.13
IA06	IA06-20180304	P5 - Elevator Lobby			03/04/18–03/05/18	--	--	--	--	<1.7	<0.27	<0.2	<0.2	<0.13
IA07	IA07-20180304	North Wall				--	--	--	--	<1.7	<0.27	<0.2	<0.2	<0.13
IA08	IA08-20180304	P4 - West Wall				69	<35	<25	69	<1.7	<0.27	<0.2	<0.2	<0.13
IA09	IA09-20180304	P4 - West Wall				--	--	--	--	<1.7	<0.27	<0.2	<0.2	<0.13
IA10	IA10-20180304	P4 - South Wall				--	--	--	--	<1.7	<0.27	<0.2	<0.2	<0.13
IA11	IA11-20180304	P3 - West Wall				84	35	<25	119	<1.7	<0.27	<0.2	<0.2	<0.13
IA12	IA12-20180304	P3 - West Wall				--	--	--	--	<1.7	<0.27	<0.2	<0.2	<0.13
IA13	IA13-20180304	P3 - East Wall				140	<35	<25	140	--	--	--	--	--
IA14	IA14-20180304	P2 - West Wall				65	<35	<25	65	--	--	--	--	--
IA15	IA15-20180304	P2 - West Wall				62	<35	<25	62	<1.7	<0.27	<0.2	<0.2	<0.13
IA16	IA16-20180304	P2 - South Wall				--	--	--	--	<1.7	<0.27	<0.2	<0.2	<0.13
IA19	IA19-20180304	P1 - South Wall				--	--	--	--	<1.7	<0.27	<0.2	<0.2	<0.13
IA20	IA20-20180304	P1 - Interior Stairway - North				86	47	<25	133	2.4	0.34	<0.2	<0.2	0.13
2019 Supplemental Indoor Air Sampling Event														
OA02	OA02-20190217	Outdoor - HVAC Intake	SoundEarth	Outdoor Air (24 hours)	02/17/19–02/18/19	--	--	--	--	<6.8	<0.27	<0.4	<0.4	<0.26
IA21	IA21-20190217	P5 - Interior Stairway - North		Indoor Air (24 hours		--	--	--	--	<6.8	<0.27	<0.4	<0.4	<0.26
IA22	IA22-20190219	P5 - South Tower Parking Elevator Shaft		Indoor Air (3 weeks)	02/19/19–03/12/19	--	--	--	--	<0.42	**<0.64**	<0.87	<2.1	**<5.5**
IA23	IA23-20190217	P5 - Interior Stairway - South Tower		Indoor Air (24 hours)	02/17/19–02/18/19	--	--	--	--	<6.8	<0.27	<0.4	<0.4	<0.26
IA24	IA24-20190217	P1 - Interior Stairway - North				--	--	--	--	<6.8	<0.27	<0.4	<0.4	<0.26
IA25	IA25-20190217	P1 - Interior Stairway - South Tower				--	--	--	--	<6.8	<0.27	<0.4	<0.4	<0.26
MTCA Indoor Air Screening Level for Commercial Workers									**390**[4]	**45**[3]	**2.8**[3]	**160**[4]	**160**[4]	**1.3**[3]

NOTES:

Bold indicates laboratory detection limit exceeds MTCA Method B Indoor Air Cleanup Level but is below the MTCA Indoor Air Screening Level for Commercial Workers.

Yellow shading indicates concentration exceeds MTCA Method B Indoor Air Cleanup Level but is below MTCA Indoor Air Screening Level for Commercial Workers

Sample analysis performed by Friedman & Bruya, Inc., Seattle, Washington, or Eurofins Air Toxics, Inc. of Folsom, California.

[1]Analyzed by Method MA-APH.

[2]Analyzed by EPA Method TO-15 or Modified Method TO-17.

[3]Indoor Air Screening Level for Commercial Worker, Cancer, CLARC database, CLARC Website <https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>.

[4]Indoor Air Screening Level for Commercial Worker, Noncancer, CLARC database, CLARC Website <https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>.

-- = not tested
< = not detected at a concentration exceeding the laboratory reporting limit
µg/m^3 = micrograms per cubic meter
APH = air-phase hydrocarbons
CVOC = chlorinated volatile organic compound
DCE = dichloroethene
EPA = US Environmental Protection Agency
MTCA = Washington State Model Toxics Control Act
PCE = tetrachloroethene
SoundEarth = SoundEarth Strategies, Inc.
TCE = trichloroethene
TPH = total petroleum hydrocarbons

Table 10
Summary of Indoor and Outdoor Air Analytical Results for APH
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Sample ID	Sample Name	Sample Location	Sampled By	Sample Type	Sample Date Range	Analytical Results[1] (µg/m^3)		
						APH EC5-8 aliphatics	APH EC9-12 aliphatics	APH EC9-10 aromatics
2018 Indoor Air Sampling Event								
OA01	OA01-20180304	Outdoor - HVAC Intake	SoundEarth	Outdoor Air (24 hours)	03/04/18–03/05/18	**54**	<35	<25
IA01	IA01-20180304	P5 - North Wall	SoundEarth	Indoor Air (24 hours)	03/04/18–03/05/18	**67**	<35	<25
IA02	IA02-20180304	P5 - Interior Stairway - North	SoundEarth	Indoor Air (24 hours)	03/04/18–03/05/18	**130**	**36**	<25
IA03	IA03-20180304	P5 - West Wall	SoundEarth	Indoor Air (24 hours)	03/04/18–03/05/18	**49**	<35	<25
IA04	IA04-20180304	P5 - West Wall	SoundEarth	Indoor Air (24 hours)	03/04/18–03/05/18	--	--	--
IA05	IA05-20180307	P5 - South Tower Parking Elevator Shaft	SoundEarth	Indoor Air (24 hours)	03/07/18–03/08/18	--	--	--
IA06	IA06-20180304	P5 - Elevator Lobby	SoundEarth	Indoor Air (24 hours)	03/04/18–03/05/18	--	--	--
IA07	IA07-20180304	North Wall	SoundEarth	Indoor Air (24 hours)	03/04/18–03/05/18	--	--	--
IA08	IA08-20180304	P4- West Wall	SoundEarth	Indoor Air (24 hours)	03/04/18–03/05/18	**69**	<35	<25
IA09	IA09-20180304	P4 - West Wall	SoundEarth	Indoor Air (24 hours)	03/04/18–03/05/18	--	--	--
IA10	IA10-20180304	P4 - South Wall	SoundEarth	Indoor Air (24 hours)	03/04/18–03/05/18	--	--	--
IA11	IA11-20180304	P3 - West Wall	SoundEarth	Indoor Air (24 hours)	03/04/18–03/05/18	**84**	**35**	<25
IA12	IA12-20180304	P3 - West Wall	SoundEarth	Indoor Air (24 hours)	03/04/18–03/05/18	--	--	--
IA13	IA13-20180304	P3 - East Wall	SoundEarth	Indoor Air (24 hours)	03/04/18–03/05/18	**140**	<35	<25
IA14	IA14-20180304	P2 - West Wall	SoundEarth	Indoor Air (24 hours)	03/04/18–03/05/18	**65**	<35	<25
IA15	IA15-20180304	P2 - West Wall	SoundEarth	Indoor Air (24 hours)	03/04/18–03/05/18	**62**	<35	<25
IA16	IA16-20180304	P2 - South Wall	SoundEarth	Indoor Air (24 hours)	03/04/18–03/05/18	--	--	--
IA19	IA19-20180304	P1 - South Wall	SoundEarth	Indoor Air (24 hours)	03/04/18–03/05/18	--	--	--
IA20	IA20-20180304	P1 - Interior Stairway - North	SoundEarth	Indoor Air (24 hours)	03/04/18–03/05/18	**86**	**47**	<25
MTCA Method B Indoor Air Cleanup Levels[2]						**2,700**	**140**	**180**
Modified Method B Indoor Remediation Levels[3]						**113,400**	**5,880**	**7,560**

NOTES:

Bold indicates concentration exceeds laboratory detection limits.

Sample analysis performed by Friedman & Bruya, Inc. of Seattle, Washington.

[1]Analyzed by Method MA-APH.

[2]MTCA Method B Indoor Air Cleanup Levels, Noncancer, Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action, dated October 2009 and updated in March 2022.

[3]Modified Method B Indoor Remediation Levels, calculated from MTCA Equation 750-2; assumes an exposure frequency of 5 days per week, 1 hour per day, and 52 weeks per year.

-- = not tested

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

µg/m^3 = micrograms per cubic meter

APH = air-phase hydrocarbons

MTCA = Washington State Model Toxics Control Act

SoundEarth = SoundEarth Strategies, Inc.

Table 11
Cleanup Action Alternatives Screening Summary
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Cleanup Action Alternatives	Remedial Details	Cost	Washington State Department of Ecology Evaluation Criteria/Relative Ranking (1 = Low; 10 = High)						Ranking Score[1]
			Weighting Factors for Evaluation Criteria						
			20%	20%	20%	20%	20%		
			Protectiveness	Permanence	Effectiveness over the Long Term	Management of Short-Term Risks	Technical and Administrative Implementability	Consideration of Public Concerns	
1. Monitored Natural Attenuation and Environmental Covenant	Reliance on natural attenuation processes to attain compliance with the proposed groundwater cleanup levels.	$1,272,000	9	9	9	9	9	9	**9.0**
2. In Situ Reductive Dechlorination and Environmental Covenant	Injection of emulsified oil to provide a substrate for the native microbial population (i.e., biostimulation) and to promote the bioremediation of chlorinated volatile organic compounds present in the saturated zone soil and groundwater via the anaerobic reductive dichlorination pathway.	$2,715,000	9	9	5	7	5	6	**7.0**
3. In Situ Powdered Activated Carbon Adsoption and Environmental Covenant	Injection of powdered activated carbon to adsorb and immobilize chlorinated volatile organic compounds in the saturated zone soil and groundwater.	$2,625,000	9	9	9	7	5	7	**7.8**

NOTES:

[1]The ranking score for each alternative is the average of the weighted score for five of the six evaluation criteria. Consideration of Public Concerns is not included in the ranking score.

Table 12
Feasibility Level Cost Estimate
Cleanup Action Alternative 1
MNA and Environmental Covenant
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

CAPITAL COST ITEM	QTY	UNIT	UNIT PRICE	COST	TOTALS
Cleanup Action Plan					
Cleanup Action Plan	1	ls	$ 23,000	$ 23,000	
Subtotal					$ 23,000
Project Management and Reporting					
Project Management	1	year	$ 12,000	$ 12,000	
Cleanup Action Report	1	report	$ 21,000	$ 21,000	
Environmental Covenant	1	ls	$ 10,000	$ 10,000	
Regulatory Closure Support	1	ls	$ 20,000	$ 20,000	
Subtotal			.		$ 63,000
TOTAL CAPITAL COST					**$ 86,000**

FUTURE O&M AND OTHER DIRECT COST ITEMS[1]	ANNUAL COST[2]	PRESENT WORTH OF ANNUAL AND FUTURE CAPITAL COST	
Seminnual Groundwater Monitoring and Reporting (Years 1 and 2)	$ 82,600	Discount Rate = 1.3%	$ 162,034
Annual Groundwater Monitoring and Reporting (Years 2 trough 30)	$ 41,300	Discount Rate = 1.3%	$ 939,536
Well Decommissioning (Year 30)	$ 125,000	Discount Rate = 1.3%	$ 84,845
TOTAL PRESENT WORTH COST			**$ 1,186,400**
TOTAL PRESENT WORTH COST OF CLEANUP ACTION ALTERNATIVE 1			**$ 1,272,000**

NOTES:

Cost rounded up to nearest $1,000.

[1]Additional direct costs, such as project management, regulatory communications and reporting, and other technical support services not specifically listed, are not included in any future annual costs.

[2]Annual cost is year 2024 cost.

% = percent
ls = lump sum
O&M = operation and maintenance
QTY = quantity

Table 13
Groundwater Monitoring and Sampling Program
Troy Laundry Seattle Site
300 Boren Avenue North, 399 Fairview Avenue North, and 1120 John Street
Seattle, Washington

Monitoring or Injection Well ID	CVOCs[1]	Total Manganese[2]	Ferous Iron[3]	Nitrate and Sulfate[4]	Methane[5]
Troy Laundry Property					
MW18	X	X	X	X	X
MW19	X	X	X	X	X
MW21	X				X
MW22	X	X	X	X	X
MW23	X	X	X	X	X
MW24	X	X	X	X	X
MW25	X	X	X	X	X
IW04	X	X	X	X	
IW50	X	X	X	X	X
IW61	X	X	X	X	X
Boren Avenue					
MW04	X	X	X	X	X
MW07	X	X	X	X	X
MW13	X	X	X	X	X
MW27	X				
Terry Avenue North					
MW34	X				
Thomas Street					
MW28	X	X	X	X	X
Harrison Street					
MW26	X				
Onni Property					
MW29R	X				
MW35	X				

NOTES:

[1] CVOCs, including tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, and vinyl chloride, analyzed by EPA Method 8260D.

[2] Total iron and manganese analyzed by EPA Method 200.8.

[3] Ferrous iron analyzed by Method SM3500.

[4] Nitrate and sulfate analyzed by EPA Method 300.0.

[5] Methane analyzed by Method RSK 175.

CVOCs = chlorinated volatile organic compounds
EPA = US Environmental Protection Agency
SM = Stanadard Method

Appendix A

SoundEarth Strategies, Inc.
2320 West Commodore Way, Suite 110
Seattle, Washington 98199

COMPLIANCE MONITORING AND CONTINGENCY PLAN

Property:
Troy Laundry Seattle Site
300 Boren Avenue North and 399 Fairview Avenue North
Seattle, Washington
Ecology Facility ID: 19135499

Prepared for:
Touchstone SLU LLC
1425 Fourth Avenue, Suite 200
Seattle, Washington

TB TS/RELP LLC
9830 Colonnade Boulevard, Suite 600
San Antonio, Texas

Report Date:
January 27, 2026

Compliance Monitoring and Contingency Plan

Appendix A of Draft Cleanup Action Plan
Prepared for:

Touchstone SLU LLC
1425 Fourth Avenue, Suite 200
Seattle, Washington 98101

TB TS/RELP LLC
9830 Colonnade Boulevard, Suite 600
San Antonio, Texas 78230

Troy Laundry Seattle Site
300 Boren Avenue North and
399 Fairview Avenue North
Seattle, Washington 98121
Ecology Facility ID: 19135499

Project No.: 0731-004

Prepared by:

_____
Levi Fernandes, PE
Principal Engineer

Reviewed by:

_____
Thomas Cammarata, LHG, LG
Principal Geochemist

January 27, 2026

SoundEarth Strategies

TABLE OF CONTENTS

ACRONYMS AND ABBREVIATIONS

CVOC	chlorinated volatile organic compound
DCAP	Draft Cleanup Action Plan
Ecology	Washington State Department of Ecology
EPA	US Environmental Protection Agency
FC	field coordinator
IRA	interim remedial action
MTCA	Washington State Model Toxics Control Act
Property	Troy Laundry Seattle Site located at 300 Boren Avenue North and 399 Fairview Avenue North in Seattle, Washington
QA/QC	quality assurance/quality control
QAPP	Quality Assurance Project Plan
RI	Remedial Investigation
ROW	right-of-way
SAP	Sampling and Analysis Plan
SoundEarth	SoundEarth Strategies, Inc.
TCE	trichloroethene
Touchstone	Touchstone SLU LLC and TB TS/RELP LLC
WAC	Washington Administrative Code

1.0 INTRODUCTION

SoundEarth Strategies, Inc. (SoundEarth) has prepared this Compliance Monitoring Plan (CMP) for Touchstone SLU LLC and TB TS/RELP LLC (collectively Touchstone) for the Troy Laundry Seattle Site located at 300 Boren Avenue North and 399 Fairview Avenue North in Seattle, Washington (Property; Figure A-1). Troy Laundry Seattle Site at 300 Boren Avenue North and 399 Fairview Avenue North, which encompasses the Property; portions of the rights-of-way (ROWs) to the north, south, and west of the Property; and the northern portion of the Onni property located to the south across the Thomas Street ROW where groundwater contaminated with tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, and/or vinyl chloride originating from the Property has come to be located.

In accordance with the Washington State Model Toxics Control Act (MTCA) Cleanup Regulations, this CMP was developed to supplement the requirements of the Draft Cleanup Action Plan (DCAP) and to meet the requirements of a Sampling and Analysis Plan (SAP)/Quality Assurance Project Plan (QAPP), as defined by MTCA (Chapter 173-340-820 of the Washington Administrative Code [WAC Chapter 173-340-820]) and the guidance provided in the US Environmental Protection Agency's (EPA's) *Guidance Document for Quality Assurance Project Plans* (EPA 2002b).

1.1 PURPOSE AND OBJECTIVES

The purpose of the CMP is to describe the sample collection, frequency, handling, and analysis procedures to be implemented during the selected cleanup action in accordance with WAC 173-340-820. The selected cleanup action includes implementing engineering and/or institutional controls, and performance and confirmation groundwater monitoring and sampling.

This CMP outlines specific sampling and analysis protocols, the project schedule, and organizational structure and responsibilities. It also provides detailed information regarding the sampling and data quality objectives, sample location and frequency, equipment, and procedures to be used during the cleanup action, as well as sample handling and analysis procedures, procedures for managing waste, quality assurance protocols for field activities and laboratory analysis, and reporting requirements. A detailed SAP is presented in Appendix A of CMP. A Health and Safety Plan for the CMP is presented in Appendix B of CMP.

1.2 SAMPLING AND ANALYSIS PLAN ORGANIZATION

The SAP/QAPP is organized into the following sections:

- **Section 2.0, Project Organization and Management.** This section presents the project team, including field personnel and management.
- **Section 3.0, Troy Seattle Site Remedial Action.** This section presents the cleanup action objectives, field activity summary, and project schedule.
- **Section 4.0, Conceptual Site Model Summary.** This section provides a summary of the Conceptual Site Model for the Troy Laundry Seattle Site.
- **Section 5.0, Groundwater Monitoring and Points of Compliance.** This section describes the monitoring network and points of compliance for the Troy Laundry Seattle Time Site.
- **Section 6.0, Performance Monitoring Schedule.** This section describes the schedule for performance monitoring at the Troy Laundry Seattle Time Site.

- **Section 7.0, Limitations.** This section details limitations specific to this document.
- **Section 8.0, References.** This section provides a list of the source material used in the preparation of this document.

2.0 PROJECT ORGANIZATION AND MANAGEMENT

The cleanup action is being conducted by SoundEarth on behalf of Touchstone. This section describes the overall project management strategy for implementing the cleanup action.

To ensure efficient decision-making for field sampling and laboratory analysis, key data collection decisions, decision criteria, processes for decision-making, quality assurance/quality control (QA/QC) procedures, and responsibilities are described below. These decisions and communication plans will be followed by field personnel under the direction of the field coordinator (FC) and task manager. Quality control measures to ensure proper communication and adherence to this SAP/QAPP are discussed in Section 9.0, Data Collection.

The following key project roles have been identified for the project:

- **Regulatory Agency.** The Washington State Department of Ecology (Ecology) is the lead regulatory agency for the cleanup action, as promulgated in the MTCA Cleanup Regulation.
- **Property Owner.** The Property owner is the main property contact for access to the parcels.
- **Project Principal.** The project principal from SoundEarth provides oversight of all project activities and reviews all data and deliverables before their submittal to the project contact or regulatory agency.
- **Project Manager.** The SoundEarth project manager has overall responsibility for developing the SAP/QAPP, monitoring the quality of the technical and managerial aspects of the cleanup action, and implementing the SAP/QAPP and corresponding corrective measures, where necessary.
- **Laboratory Project Manager.** The laboratory project manager will provide analytical support and will be responsible for providing certified, precleaned sample containers and sample preservatives (as appropriate) and for ensuring that all chemical analyses meet the project quality specifications detailed in this SAP/QAPP.
- **Project QA/QC Officer.** The project QA/QC officer has the responsibility to monitor and verify that the work is performed in accordance with the SAP/QAPP and other applicable procedures. The project QA/QC officer has the responsibility to assess the effectiveness of the QA/QC program and to recommend modifications to the program when applicable. The project QA/QC officer is responsible for assuring that the personnel assigned to the project are trained relative to the requirements of the QA/QC program and for reviewing and verifying the disposition of nonconformance and corrective action reports.
- **Field Coordinator.** The FC will supervise field collection of all samples. The FC will ensure proper recording of sample locations, depths, and identification; sampling and handling requirements, including field decontamination procedures; physical evaluation and logging of samples; and completing the chain-of-custody forms. The FC will ensure that all field staff follow the SAP/QAPP and that standardized methods for sample acceptability and physical description of samples be followed. The FC will ensure that field staff maintains records of field sampling events using the forms included as Attachment A of this SAP/QAPP. The FC will be responsible for proper completion and storage of field forms.

- **Field Staff.** Members of the field staff must understand and implement the QA/QC program, coordinate and participate in the field sampling activities, coordinate sample deliveries to the laboratory, and report any deviations from project plans as they relate to the cleanup action objectives as presented in the SAP/QAPP. Major deviations from the SAP/QAPP, such as the inability to collect a sample from a specific sampling location, obtaining an insufficient sample volume for the required analyses, or a change in sampling method, must be reported to the project manager.
- **Subcontractors.** All subcontractors will follow the protocols outlined in this SAP/QAPP and will be overseen and directed by SoundEarth. Subcontractors are to be determined.

The project contact for the Property is:

Dirk P. D. Mosis III
Corsair Interests LLC
14603 Huebner Road, Building #3
San Antonio, Texas 78230
210-204-0352
dmosis3@outlook.com

The Project Principal and Project Manager for SoundEarth is:

Thomas Cammarata
1011 Southwest Klickitat Way, Suite 212
Seattle, Washington 98134
206-306-1900
tcammarata@soundearthinc.com

The Project QA/QC Officer for SoundEarth is:

Levi Fernandes
1011 Southwest Klickitat Way, Suite 212
Seattle, Washington 98134
206-306-1900
lfernandes@soundearthinc.com

The laboratory contacts for the Laboratory Project Managers are:

Mike Erdahl
Friedman & Bruya, Inc.
5500 4th Avenue South
Seattle, Washington 98108
206-285-8282
merdahl@friedmanandbruya.com

3.0 TROY LAUNDRY SEATTLE SITE REMEDIAL ACTIONS

An interim remedial action (IRA) was conducted at the Troy Laundry Seattle Site between 2014 and 2017 in conjunction with the redevelopment of the Property. The redevelopment required a lot line–to–lot line excavation that extended to approximately 70 feet below street grade. The IRA included the removal of underground storage tanks containing solvents and petroleum hydrocarbons and 97,000 tons of

chlorinated solvent-contaminated soil as part of the Property development mass excavation. The IRA also included treating groundwater containing chlorinated volatile organic compounds (CVOCs) using enhanced reductive dechlorination technology that included the injection of edible oil substrate into groundwater in May and June 2015 and in April and May 2016, followed by bioaugmentation in June 2017.

The Troy Laundry Seattle Site Remedial Investigation Report (RI Report; SoundEarth 2020) defined the extent of CVOC-contaminated groundwater at the Site after implementation of the IRA. In addition, the RI Report documented through two indoor air sampling events that the vapor intrusion pathway is incomplete and indoor air is not a medium of concern for the Site. The final cleanup action for the Troy Laundry Seattle Site, designated as Cleanup Action Alternative 1 in the DCAP, includes continued groundwater monitoring and sampling, data analysis to confirm that the footprint of the CVOC groundwater plume remains stable or continues to decline over time. The recording of an environmental covenant with institutional control to ensure there is no direct contact with or ingestion of contaminated groundwater.

4.0 CONCEPTUAL SITE MODEL SUMMARY

The results of the RI and IRAs conducted at the Troy Laundry Seattle Site indicate that the CVOC and petroleum hydrocarbon impacts detected in soil and groundwater beneath the Property, in a portion of the south-adjacent Thomas Street ROW, in the west-adjacent Boren Avenue ROW, in the north-adjacent Harrison Street ROW, and on the northern portion of the Onni property are primarily the result of releases from the laundry and dry cleaning facility that operated on the Property from 1927 through 1985. Historical building plans indicate that the bulk of the dry-cleaning operations after the mid-1960s were conducted on the southwestern portion of the Property.

The highest concentrations of chlorinated solvents in soil were historically located near the center of the Property in the vicinity of the former loading dock, and the highest concentrations of GRPH as Stoddard solvent were observed to the south of the three closed-in-place underground storage tanks under the former Troy Building on the southwestern portion of the Property. The distribution of CVOCs in soil and groundwater on the Property and in groundwater in the ROWs and on the northern portion of the Onni property indicates that the primary sources of the releases were at the loading dock and underground storage tanks on the Property, although additional smaller releases may have contributed to shallow solvent contamination elsewhere on the Property.

Based on the findings of the RI, the contaminants of concern at the Troy Laundry Seattle Site consist of tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, and VC in groundwater located beneath the Property, portions of the adjoining ROWs, and the northern portion of the Onni Site. The primary regional water-bearing zone at the Troy Laundry Seattle Site contains one or more CVOCs at concentrations exceeding the cleanup levels. However, the mechanisms for exposure to CVOCs in groundwater have been eliminated, including direct contact, ingestion, and inhalation pathways. A detailed discussion of the Conceptual Site Model for the Troy Laundry Seattle Site is presented in 3.3 of the Final Feasibility Study Report (SoundEarth 2020).

5.0 GROUNDWATER MONITORING NETWORK AND POINTS OF COMPLIANCE

The following section describes the groundwater monitoring and points of compliance for the Troy Seattle Site Cleanup Action. The SAP activities for the Troy Laundry Seattle Site is presented in Appendix A. The

QAPP for Site is presented in Appendix B. The schedule for performance monitoring is presented below in Exhibit A.

5.1 GROUNDWATER MONITORING

Touchstone will perform groundwater monitoring events semiannually for the first 2 years (2025 and 2026). If the plume under the Property, the ROWs, and the Onni property is stable or decreasing based on statistical trend analyses for the Onni Property and ROWs and statistically significance increase testing on the Property, the frequency of monitoring may be reduced to annual (alternating between June [second quarter] and December [fourth quarter]) for the third, fourth, fifth, sixth, and seventh years. Long-term groundwater monitoring and statistical evaluation will be performed in consultation with Ecology.

The compliance groundwater monitoring well network is shown on Figure 2 of the DCAP and includes the following 19 monitoring and injection wells:

- On the Property: MW18, MW19, MW21, MW22, MW23, MW24, MW25, IW04, IW50, and IW61
- Onni Property: MW29R and MW35
- Harrison Street ROW: MW26
- Boren Avenue North ROW: MW04, MW07, MW13, and MW27
- Thomas Street ROW: MW28
- Terry Avenue North: MW34

5.2 POINTS OF COMPLIANCE

Regulatory compliance with MTCA groundwater cleanup standards at the Troy Laundry Seattle Site will be achieved when CVOCs are detected at concentrations below cleanup levels (Exhibit 3-2 of the DCAP) in groundwater samples collected from the conditional point of compliance wells (MW04, MW07, MW13, MW26, MW27, and MW28) for four consecutive groundwater monitoring events. At that time, Touchstone will consult with Ecology regarding the necessity for ongoing compliance groundwater monitoring and sampling as part of the periodic review process.

Groundwater compliance for protection of the inhalation pathway for commercial workers at the Property and the roadway excavation workers in the ROWs is achieved when CVOCs are detected at concentrations below the proposed RLs in samples collected during groundwater monitoring events (Exhibit 3-3 of the DCAP).

Currently, in MW29R, the PCE concentration is less than the groundwater screening level (25 µg/L) for the protection of indoor air for a residential exposure scenario and also less than the groundwater RL for the protection of indoor air for a commercial exposure scenario (120 ug/L) but exceeds the groundwater cleanup level (5 µg/L) and is out of compliance with the MTCA cleanup level.

If monitoring wells MW29R and MW35 do not meet the groundwater cleanup levels presented in Exhibit 3-2 before 2035, Touchstone will propose for Ecology review and approval of groundwater treatment options, such as in-situ bioremediation. If Ecology approves a groundwater treatment option, Touchstone will implement Ecology's chosen option.

6.0 PERFORMANCE MONITORING SCHEDULE

Touchstone will perform groundwater monitoring events semiannually for the first 2 years (2025 and 2026). If the plume under the Property, the ROWs, and the Onni property is stable or decreasing based on statistical trend analyses for the Onni Property and ROWs and statistically significance increase testing on the Property, the frequency of monitoring may be reduced to annual (alternating between June [second quarter] and December [fourth quarter]) for the third, fourth, fifth, sixth, and seventh years. Long-term groundwater monitoring and statistical evaluation will be performed in consultation with Ecology.

Exhibit A. Performance Monitoring Schedule

Scope of Work[1]	Schedule [2]
Compliance groundwater monitoring and sampling	Second and fourth quarters of 2025 and 2026
Compliance Monitoring Report	Annual Report submitted 12 weeks after the fourth quarter sampling event
Compliance groundwater monitoring and sampling	Second and fourth quarters of 2027 and 2031[1]
Compliance Monitoring Report	Annual Report submitted 12 weeks after the fourth quarter sampling event

(1) The frequency of monitoring may be reduced to annual (alternating between June [second quarter] and December [fourth quarter]) for the third, fourth, fifth, sixth, and seventh years. Long-term groundwater monitoring and statistical evaluation will be performed in consultation with Ecology.

7.0 CONTINGENCY ACTIONS

The projected restoration time for the Site based on the preferred remedial action (natural attenuation remedy with ECs) is 30 years. In this time frame, the CVOC concentrations in the groundwater at the Site are anticipated to reach compliance with groundwater cleanup levels at the CPOC wells.

On the Property, compliance will be achieved when CVOC concentrations in the groundwater are less than RLs for the protection of indoor air for a commercial exposure scenario. On the Onni Property, compliance will be achieved when CVOC concentrations are less than groundwater cleanup levels.

CVOC concentrations in the groundwater are expected to fluctuate and decrease over time due to a variety of factors, including: (1) a potential ongoing unresolved source of TCE in the groundwater in areas upgradient of the Boren Avenue ROW, (2) sampling and analytical variability, (3) seasonal fluctuations in the groundwater elevations, and (4) desorption of CVOCs from soil to the groundwater where it can degrade in the dissolved phase.

Touchstone is prepared to implement contingency actions if concentrations of CVOCs in the groundwater indicate there is potential for vapor intrusion of CVOCs at the Troy Property and Seattle Time Property (Onni Development). These contingency actions include mitigation measures, if deemed necessary and appropriate, to protect indoor air quality. The potential contingency actions and their triggers are described below.

7.1 6.1 TROY PROPERTY

The chemistry of the groundwater beneath the Property is expected to change over time from anaerobic to aerobic due to the continuing decline of anthropogenic carbon substrate injected in 2015 to 2016 to the groundwater. Under aerobic conditions, VC in the groundwater will mineralize to nontoxic end products.

However, since VC concentrations are increasing with time and currently exceed the commercial groundwater RL (Exhibit 3-3) for the protection of indoor air, a contingency plan will be implemented if there is a statistically significant increase (SSI) in the VC concentrations in the groundwater. To be declared an SSI, the change in VC concentrations must be significant after accounting for anticipated variability in the sample data due to the factors outlined previously.

To determine if an SSI has occurred for VC results, Touchstone will follow guidance presented in EPA's *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities* (EPA 2009), and perform analysis for SSI testing using ProUCL version 5.2.00. The SSI test will assess variability over time in groundwater beneath the Property. The results from the SSI test will be more representative of the overall stability of the plume than changes in VC concentrations at individual wells and will, therefore, be the trigger for any contingent actions.

Analytical results at groundwater monitoring wells with VC concentrations exceeding the groundwater RL or showing an increasing statistical trend as of June 2024 will act as the baseline to determine if SSI has occurred in the future. Baseline results will be compared to groundwater analytical results for samples collected after June 2024. As with the baseline results, concentrations of VC that exceed the groundwater RL or show an increasing statistical trend at monitoring wells at the Property will be used to determine if SSI has occurred. No SSI will have occurred if the mean of the VC baseline is greater than or equal to the future VC sample results at the 95 percent level of significance (baseline VC mean >= future VC result). An SSI will occur if the mean of the baseline is less than the future VC sample results at the 95 percent level of significance (baseline VC mean < future VC result) over two consecutive groundwater sample events. If an SSI is verified, Touchstone will implement a contingency action(s) as described below.

The first stage of the contingency action will include two semiannual indoor air sampling events at the Property. Touchstone will perform indoor air sampling following procedures presented in SoundEarth's Vapor Intrusion Assessment Work Plan, dated January 25, 2018, and SoundEarth's Supplemental Vapor Intrusion Assessment Work Plan, dated February 12, 2019 (SoundEarth 2018a, 2019a).

If results from the two indoor air sampling events indicate VC concentrations are below indoor air cleanup levels for protection of commercial workers, no mitigation measures are required.

If results from the two indoor air sampling events indicate VC concentrations exceed indoor air cleanup standards, Touchstone will confer with Ecology to determine if a second stage contingency action must be implemented to alleviate potential risk to human health. If Ecology determines a

second stage contingency action must be implemented, it may require Touchstone to implement any of the following mitigation measures:

- Modifying or upgrading the parking garage ventilation system.
- Installing and maintaining a sub-slab depressurization system (e.g., extracting soil gas from select existing injection wells).
- Implementing in situ groundwater remediation, such as: (a) carbon substrate addition and bioaugmentation (i.e., anaerobic reductive dechlorination), or (b) oxygen enhancement of aerobic oxidation.

At 6 and 12 months after implementation of a mitigation measure, Touchstone will perform two indoor air sampling events to confirm the efficacy of mitigation measures on indoor air quality. If the results of these air sampling events demonstrate that VC concentrations are below screening levels, no further mitigation will be required if indoor air results are below screening levels. If exceedances persist, Touchstone will propose additional mitigation measures will be proposed for Ecology review and approval and, after Ecology approval, Touchstone will implement additional mitigation measure(s).

7.2 ONNI PROPERTY

After the Onni Development is completed, Ecology will require Touchstone to conduct or arrange for the conduction of 2 years of semiannual indoor air monitoring on the Onni property portion of the Site. If 2 years of indoor air sampling demonstrate that concentrations of CVOCs in indoor air are below the residential indoor air cleanup levels shown in Exhibit B, no further additional indoor air monitoring will be performed. However, if concentrations of CVOCs in the indoor air exceed cleanup levels presented in Exhibit B, Touchstone will implement a contingency action to mitigate the potential impacts to indoor air quality in the parking garage at the Onni Development.

Exhibit B: Indoor Air Cleanup Levels — Onni Development

Unrestricted Use		
Contaminant of Concern	**Indoor Air Cleanup Level** ($\mu g/m^3$)	**Regulations**
PCE	9.62	Table values in CLARC database 2024
TCE	0.334	
cis-1,2-DCE	18.3	
VC	0.284	

8.0 LIMITATIONS

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, expressed or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our 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. We do not warrant and are not responsible for the accuracy or validity of work performed by others, nor from the impacts of changes in environmental standards, practices, or regulations after performance of services. We do not warrant the use of segregated portions of this report.

9.0 REFERENCES

SoundEarth Strategies, Inc. (SoundEarth). 2020. *Final Remedial Investigation Report, Troy Laundry Seattle Site, 300 Boren Avenue North and 399 Fairview Avenue North, Seattle, Washington.* August 20.

_____. 2026. *Final Feasibility Study Report, 300 Boren Avenue North and 399 Fairview Avenue North, Seattle, Washington.* March 26.

State of Washington King County Superior Court. 2016. Consent Decree No. 16-2-13117-4 with the Washington State Department of Ecology and The Lutheran Retirement Home of Greater Seattle (d/b/a The Hearthstone Retirement Living). June 3.

US Environmental Protection Agency (EPA). 2002. *Guidance on Environmental Data Verification and Data Validation, EPA QA/G-8*. EPA/240/R-02/004. November.

FIGURES

APPENDIX A
SAMPLING AND ANALYSIS PLAN

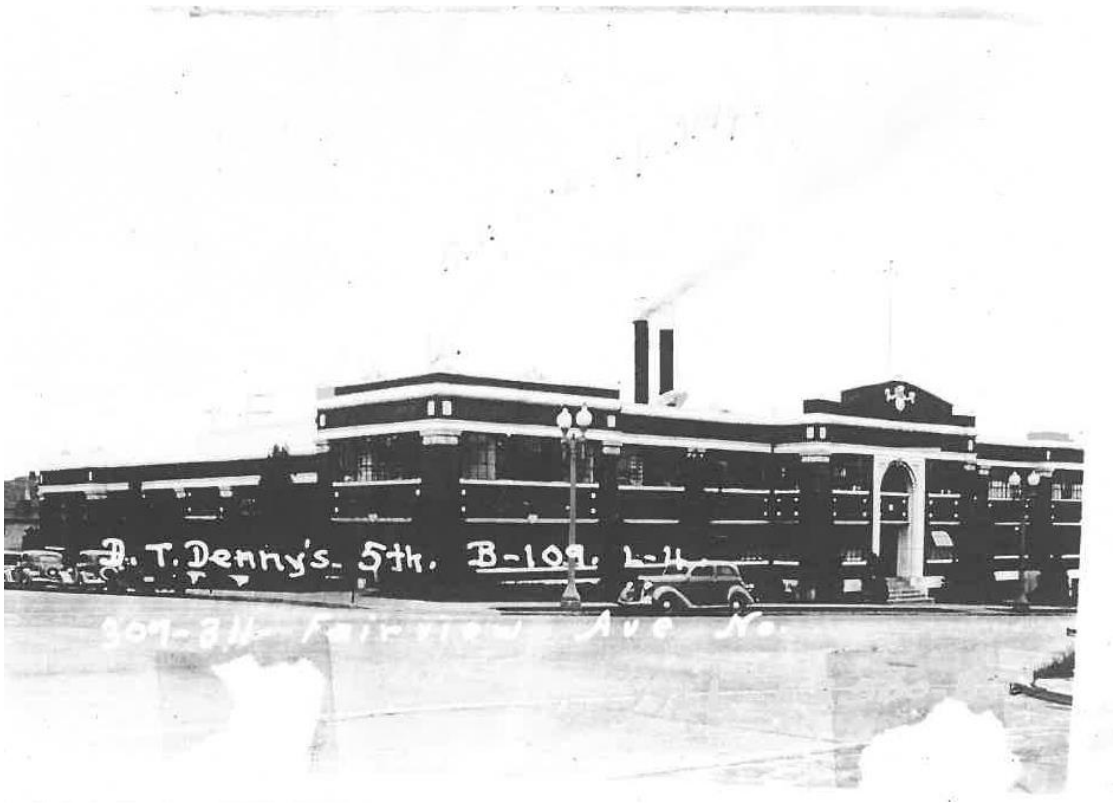
APPENDIX B

QUALITY ASSURANCE PROJECT PLAN

Appendix B

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

SITE-SPECIFIC HEALTH AND SAFETY PLAN



Property:
Troy Laundry Property
300 Boren Avenue North and
399 Fairview Avenue North
Seattle, Washington
Ecology Facility ID: 19135499

Date:
April 25, 2025

Prepared for:
Touchstone SLU LLC & TB TS/RELP LLC
1425 Fourth Avenue, Suite 200
Seattle, Washington

TB TS/RELP LLC
9830 Colonnade Blvd, Ste 600
San Antonio, TX 78230

Site-Specific Health and Safety Plan

Prepared for:

Touchstone SLU LLC & TB TS/RELP LLC
1425 Fourth Avenue, Suite 200
Seattle, Washington

TB TS/RELP LLC
9830 Colonnade Blvd, Ste 600
San Antonio, TX 78230

Troy Laundry Property
300 Boren Avenue North and
399 Fairview Avenue North
Seattle, Washington 98109
Ecology Facility ID: 19135499

Project No.: 0731-004

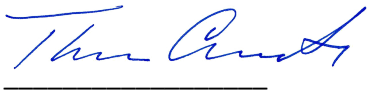
Prepared by:

Linnea Coleman, GIT
Staff Geologist

Reviewed by:

Clare Tochilin, LG
Senior Geologist

Reviewed by:



Thomas Cammarata, LHG, LG
Principal Geochemist

Initiation Date: April 25, 2025
Expiration Date: April 24, 2026

SoundEarth Strategies

TABLE OF CONTENTS

FIGURES

ATTACHMENTS

EMERGENCY INFORMATION

Personnel should call 911 for a critical emergency. The hospital route, Attachment A, provides the site location and driving directions to a nearby hospital or medical clinic. The route must be posted at the site.

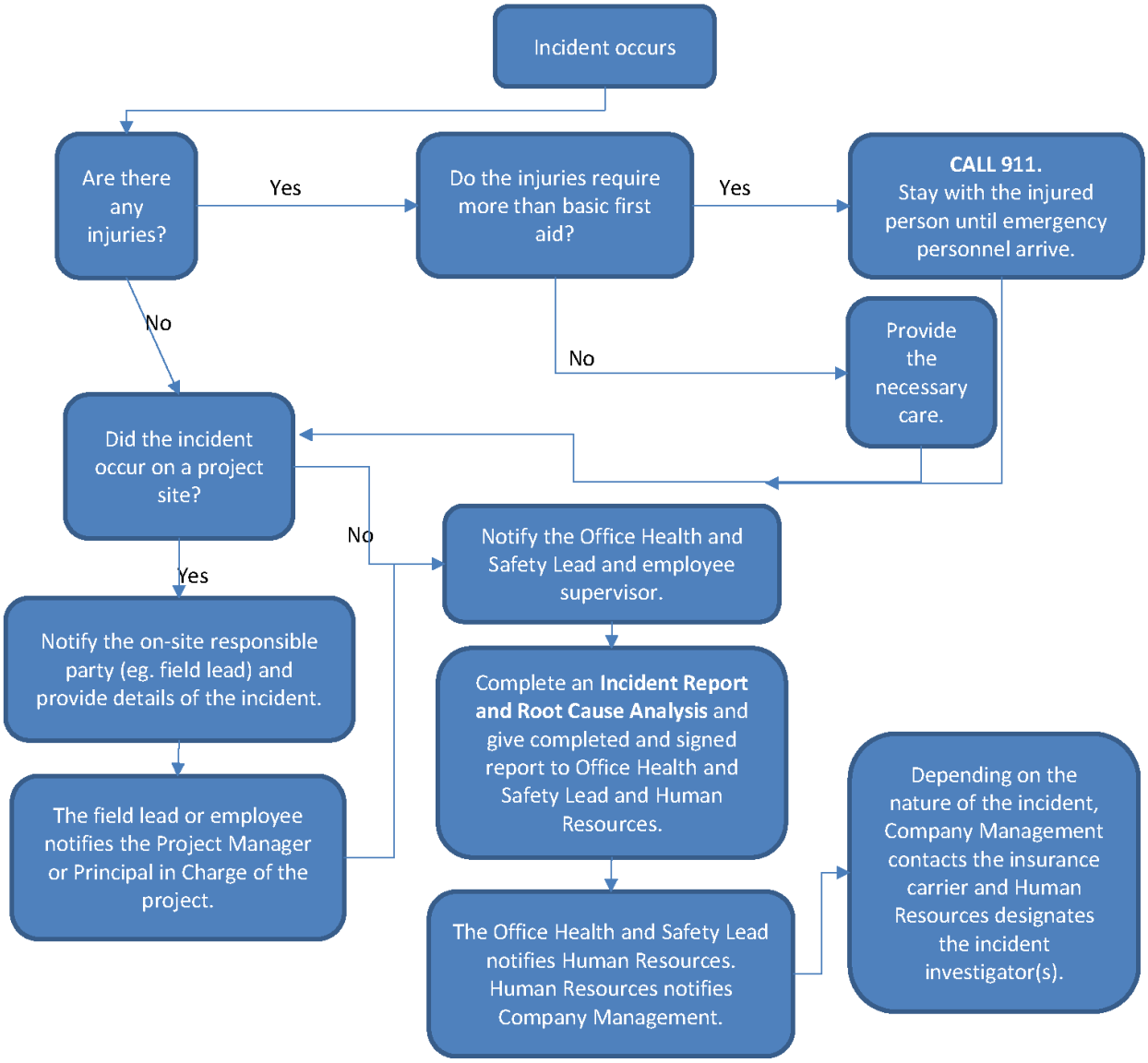
Note that a SoundEarth employee **may not** transport a non-SoundEarth employee for medical attention.

Local Emergency Numbers		
Institution/Department	**Name and Address**	**Phone Number**
Hospital	**Virginia Mason Hospital** 925 Seneca Street (or 1100 9th Avenue for Virginia Mason Medical Center) Seattle, Washington	911 206-223-6600
Ambulance	--	911
Police/Sheriff	**West Precinct – Seattle Police Department** 810 Virginia Street Seattle, Washington	911 206-625-5011
Fire	**Seattle Fire Station #2** 2320 4th Avenue Seattle, Washington	911 206-386-1400

Project Emergency Numbers		
Title	**Name**	**Phone Number**
Project Manager	Levi Fernandes	C: 503-830-8397
Site Manager	Linnea Coleman	C: 206-321-4343
Principal in Charge	Thomas Cammarata	O: 206-436-5940 C: 206-261-8046

INCIDENT DECISION TREE

In the event of an incident at a site, employees should follow the procedures listed in the Incident Decision Tree below.



ACKNOWLEDGMENT AND AGREEMENT FORM

Project Name:_____

Project Number:_____

I acknowledge that I have reviewed a copy of the Health and Safety Plan for this project, that I understand it, and that I agree to comply with all of its provisions. I also understand that I could be prohibited by the Site Manager/Health and Safety Officer or other SoundEarth personnel from working on this project if I fail to comply with any aspect of this Health and Safety Plan:

Name	*Signature*	*Company*	*Date*
Name	*Signature*	*Company*	*Date*
Name	*Signature*	*Company*	*Date*
Name	*Signature*	*Company*	*Date*
Name	*Signature*	*Company*	*Date*
Name	*Signature*	*Company*	*Date*
Name	*Signature*	*Company*	*Date*
Name	*Signature*	*Company*	*Date*
Name	*Signature*	*Company*	*Date*
Name	*Signature*	*Company*	*Date*

1.0 INTRODUCTION

SoundEarth Strategies, Inc. (SoundEarth) has prepared this Site-Specific Health and Safety Plan (HASP) for Touchstone SLU LLC and TB/TS RELP LLC (collectively, Touchstone) Troy Laundry Property, located at 300 Boren Avenue North and 399 Fairview Avenue North in Seattle, Washington (the Property). This HASP was written in general accordance with the Washington State Model Toxics Control Act (MTCA) as promulgated in Chapter 173-340-350 of the Washington Administrative Code.

For the purposes of this HASP, the "site" is defined as those areas where field activities related to the scope of the investigation are performed.

This HASP was written for the use of SoundEarth and its employees. The health and safety and emergency response protocols outlined in this plan are designed to ensure compliance with state and federal regulations governing worker safety on hazardous waste sites. The US 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. In 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 the Federal Resource Conservation and Recovery Act of 1976 and/or MTCA.

Subcontractors to SoundEarth and other contractors performing work within the exclusion zone of the site are required to prepare and effectively implement their own HASP based on their unique scope of work and professional expertise. Each contractor's HASP must comply with all applicable federal, state, and local regulations. The contractor's HASP should employ appropriate best practices to protect all personnel working on the site, as well as the public, and to prevent negative impacts to the project or site.

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.

This plan is active for this site until SoundEarth implements a scope of work change not covered by this HASP, after which time it must be reviewed and extended.

2.0 FIELD ACTIVITIES

The following field activities are covered under this HASP:

- Groundwater sampling and monitoring
- Well drilling and installation

3.0 PROPERTY AND PROJECT INFORMATION

Property Name	Troy Laundry Property
Property Address	300 Boren Avenue North and 399 Fairview Avenue North
Property Owner	Touchstone SLU LLC and TB TS/RELP LLC
Property Tenant	Amazon, Inc.
Historical and Current Activities at the Property	Historical operation of a laundry and dry cleaning facility with at least 15 underground storage tanks containing oil, fuel, and solvents. Currently the Troy Block development includes two office towers and a 5-level underground parking garage.

Figure 1 shows the site location. Figure 2 shows the site exploration plan.

4.0 PROJECT RESPONSIBILITIES

Site personnel shall acknowledge that they have reviewed a copy of the HASP for this project, that they understand it, and that they agree to comply with all of its provisions by signing and dating the Acknowledgement and Agreement Form at the beginning of this document.

A daily health and safety tailgate meeting shall take place at the start of every day in the field. Persons attending this meeting are to print and sign their name on the Daily Health and Safety Tailgate Meeting Form presented in Attachment B.

Project Manager	**Levi Fernandes**
Field Lead/Health and Safety Officer	Linnea Coleman
Principal in Charge	Thomas Cammarata

5.0 SITE HAZARD ANALYSIS

This section is used to determine the project's potential health and safety hazards specifically as they relate to the site where the work will occur. Activity-related hazards are summarized in Section 6.1, Site-Specific Activity Hazard Analysis.

5.1 SITE HAZARD ANALYSIS—CHEMICAL

This section describes and identifies potential and known chemical hazards that may be encountered at the Site.

5.1.1 Summary of Potential Chemicals of Concern

Known or suspected chemicals of concern (COCs) have been identified at the site and in the media listed below. Information about these COCs are listed in Attachment C, Site-Specific COC Quick References.

- Tetrachloroethene (PCE) is soil, groundwater, and soil vapor
- Trichloroethene (TCE) in soil, groundwater, and soil vapor
- Cis-1,2-dichloroethene (cis-1,2-DCE) in groundwater and soil vapor
- Vinyl chloride (VC) in groundwater
- Gasoline-range petroleum hydrocarbons (GRPH) as Stoddard solvents in soil, groundwater, and soil vapor
- Diesel-range petroleum hydrocarbons (DRPH) in soil and groundwater
- Oil-range petroleum hydrocarbons (ORPH) in soil and groundwater

5.1.2 Chemicals on Site

The following chemicals are expected to be used during field activities. Safety Data Sheets for the chemicals are included as Attachment D.

- Alconox
- Hydrochloric acid
- Nitric acid
- Sulfuric acid

5.1.3 Past Opportunities for Contamination

The Property was used as a retail and industrial laundry and dry-cleaner. Both chlorinated- and petroleum-based dry-cleaning solvents were used and stored at the Property. Petroleum hydrocarbons also were used and stored on the Property.

5.1.4 Reports that Provide Chemical Data

The following report(s) containing analytical data for COCs were provided to SoundEarth or prepared for the site:

- 2022 Groundwater Monitoring Report, Troy Laundry Seattle Site, 300 Boren Avenue North and 399 Fairview Avenue North, Seattle, Washington, prepared by SoundEarth, dated February 21, 2023
- 2020 Final Remedial Investigation Report, Troy Laundry Seattle Site, 300 Boren Avenue North and 399 Fairview Avenue North, Seattle, Washington, prepared by SoundEarth, dated August 20, 2020
- 2013-2024 Groundwater Monitoring Reports, Troy Laundry Seattle Site, prepared by SoundEarth, various dates

Chemical analytical results can be found as attachments to the report(s) noted above.

5.1.5 Opportunities for Unknown or Unidentified Chemical Contamination

No sources of unknown or unidentified chemical contamination at the site have been identified at this time.

5.2 SITE HAZARD ANALYSIS—PHYSICAL

This section addresses known and potential physical hazards specific to the site. Site documents provided by the client, owner, or tenant such as non-SoundEarth HASPs, traffic control plans, and operation and maintenance plans can be helpful to identify site-specific hazards.

5.2.1 Site-Specific Physical Hazards

Described below are physical hazards that may be encountered while on the site:

- COVID-19
- Ergonomic hazards
- Excavation and trenching/excavation collapse
- Heavy equipment/moving machinery
- Mechanical failures
- Noise exposure
- Overhead utilities and features
- Pressurized air
- Pressurized liquid
- Unstable ground; slips, trips, falls, and cuts
- Spills
- Struck by or struck against heavy machinery or similar and pinch points
- Traffic and moving equipment
- Unsecure/uncontrolled site
- Weather exposure: temperature, wind, lightning, rain, ice, and/or snow

5.2.2 Utility Hazards

Described below are utility hazards that may be present at the site. In order to locate utilities, the Utilities Underground Location Center should be called at 800-424-5555, a private locate should be scheduled (as appropriate), side sewer cards should be reviewed, owner or tenant documents should be reviewed, and the site should be visually inspected.

5.2.2.1 Underground Utilities

The following underground utilities are likely located on site or in the surrounding right of way: sanitary sewer lines, water mains, gas lines, electrical lines, telephone lines, electrical conduits, and storm drains. Other underground utilities may present as well.

5.2.2.2 Overhead Utilities

Based on field observations at the time of this report the following overhead utilities have been identified. Additional overhead utilities may be present, and the site should be visually inspected prior to conducting work.

- Overhead power and telephone lines are present above the sidewalks that run north-south along Boren Avenue North, east-west along Harrison Street, and east-west along Thomas Street.
- Bus wires are present above the southern lane of Harrison Street.
- Guy poles are present in the north and south sidewalks of Harrison Street. Guy wires cross Harrison Street and connect to the poles.

6.0 TASK-RELATED SITE HAZARD ANALYSIS

This section outlines the health and safety hazards that may be present on the site as a result of the tasks to be performed by SoundEarth or subcontractors as they relate to the chemical and physical hazards identified in Sections 5.1 and 5.2 above. A summary of the controls specific to the site is presented in Section 7.0, Task-Related Site Hazard Controls.

6.1 SITE-SPECIFIC ACTIVITY HAZARD ANALYSIS

The site-specific activity hazard analyses (AHAs) listed below are included in Attachment E. The AHAs contain detailed information and instructions for protecting SoundEarth employees from chemical and physical hazards applicable to this HASP.

- Mobilization/Demobilization
- Drilling Observation and Sampling
- Groundwater Monitoring

7.0 TASK-RELATED SITE HAZARD CONTROLS

7.1 EXISTING CONTROLS IN PLACE

The following existing controls are present at the site:

- Most of the site is capped by asphalt and concrete, which prevents direct contact with and ingestion of contaminated soil and/or groundwater.

7.2 CONTROLS FOR PERSONNEL

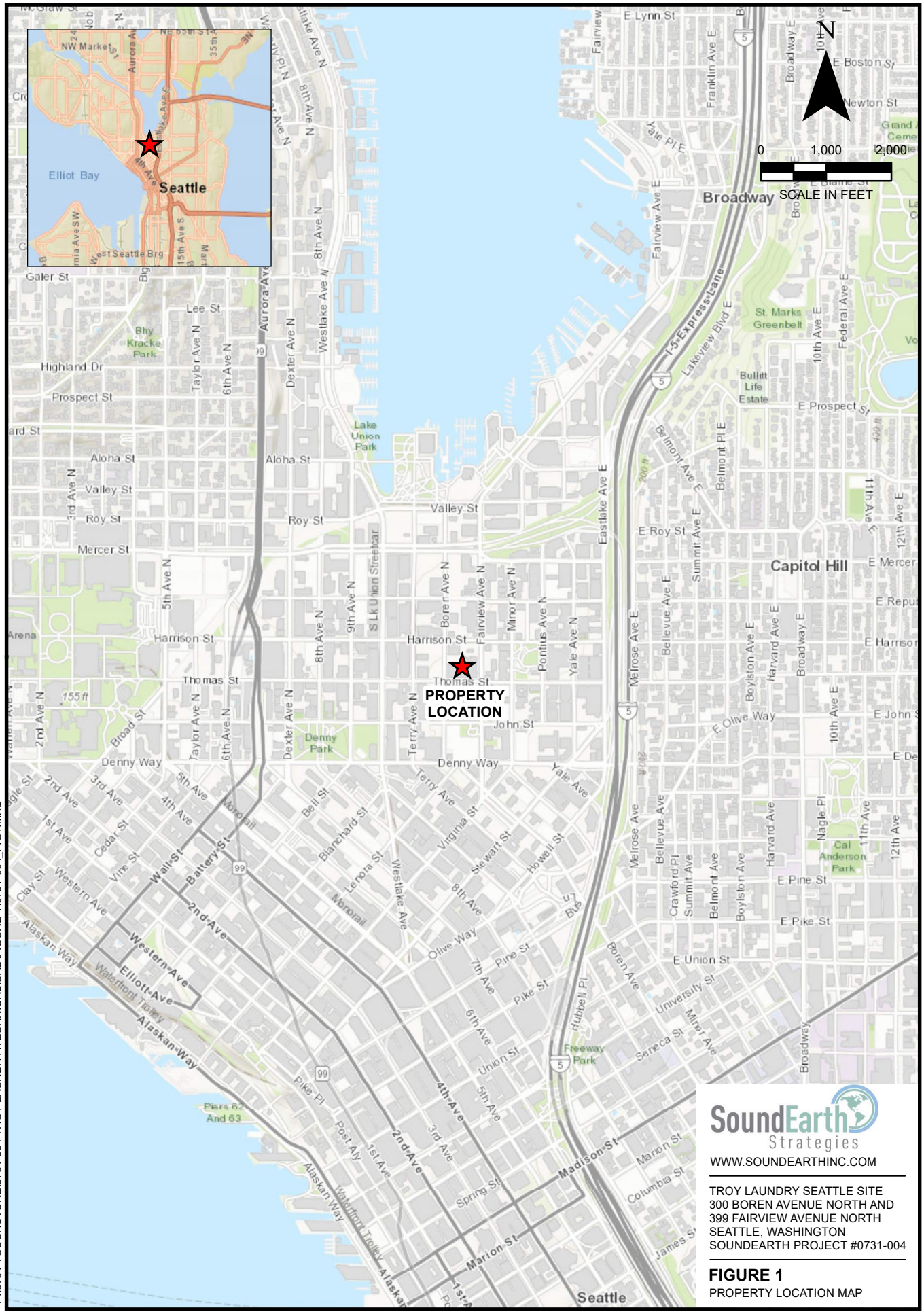
The following controls are required for SoundEarth employees while performing work on the site:

- Wear Level D PPE, which includes hard hats, steel-toed boots, safety glasses, nitrile gloves, and a reflective safety vest.
- Wear clothing appropriate for cold or wet conditions, layered under appropriate PPE.
- Use delineators and caution tape for traffic control, supplemented by vehicle barricades, as necessary.

The following COVID-19 mitigation hazard control is also recommended for SoundEarth employees while performing work on the site:

- Maintain a minimum physical distance of 6 feet from other workers and contractors, wear nitrile gloves, and wear a mask as needed. Equipment and tools should not be shared.

FIGURES



SoundEarth Strategies

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TROY LAUNDRY SEATTLE SITE
300 BOREN AVENUE NORTH AND
399 FAIRVIEW AVENUE NORTH
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #0731-004

FIGURE 1
PROPERTY LOCATION MAP

P:\0731 TOUCHSTONE\0731-004 TROY LAUNDRY\TECHNICAL\CAD\FIGURE 1\0731-004_FIG1.MXD

4/26/2023

P:\0731 TOUCHSTONE\0731-004 TROY LAUNDRY\TECHNICAL\CAD\2023\HASP\0731-004_2023_FS_RI-EXPL-LOC-MAP.DWG

N

0 40 80

APPROXIMATE SCALE IN FEET

HARRISON STREET

TERRY AVENUE NORTH

BOREN AVENUE NORTH

FAIRVIEW AVENUE NORTH

THOMAS STREET

TROY LAUNDRY PROPERTY

HISTORICAL BUILDING FACADE

HISTORICAL BUILDING FACADE

BRAVEHORSE TAVERN

AMAZON BUILDING

SOUTH LAKE UNION HOTEL LLC

FORMER SEATTLE TIMES SITE

B56/MW31

B58/MW33

B08/MW01

MW26

B09/ MW02

B57/MW32

B10/ MW03

B11/MW04

B15/MW07

B37/MW13

MW34

B49/MW15

MW27

B12/ MW05

MW25

B33

P14

P13

B32

MW17

B34

P01

B35

MW18

B29

P02

B13/ MW06

B31/ MW12

P11

P12

B14

B28/ MW10

MW19

P03

MW20

P10

B01

B36

MW24

B30/ MW11

B44

B43

B07

B45

B48

B26/ MW08

B06

B39

P08

P09

B17

B41

B40

B42

B04

B02

MW21

B25

MW25

B03

B05

B46

B16

P06

B18

B47

B24

P07

B19

P05

B20

B23

MW22

P04

B27/ MW09

MW23

B21

B22

IW91

B38/ MW14

B50/ MW16

MW28

B55/MW30

B54/MW29

MW-A

MW-B

MW-C

ONNI MW-9

ONNI MW-4

ONNI MW-5

LEGEND

- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- REDEVELOPMENT EXCAVATION AREA
- MW20 — MONITORING WELL
- MW-5 — MONITORING WELL (ENVIRONMENTAL PARTNERS INC)
- IW91 — INJECTION WELL CONVERTED TO MONITORING WELL
- DECOMMISSIONED/DESTROYED MONITORING WELL
- B25 — SOIL BORING
- B46 — POST-SVE CONFIRMATIONAL SOIL BORING
- SVE — SOIL VAPOR EXTRACTION

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TROY LAUNDRY SEATTLE SITE
300 BOREN AVENUE NORTH AND
399 FAIRVIEW AVENUE NORTH
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #0731-004

FIGURE 2
SITE EXPLORATION PLAN

ATTACHMENT A

Hospital Route

6 min (1.0 mile)

via Boren Ave

Fastest route, lighter traffic than usual

Troy Block

300 Boren Ave N, Seattle, WA 98109

- Head south toward Thomas St

  112 ft
- Turn left at the 1st cross street onto Thomas St

  374 ft
- Turn right at the 1st cross street onto Fairview Ave N

  0.2 mi
- Use any lane to turn left onto Boren Ave

  0.6 mi
- Turn right onto Seneca St

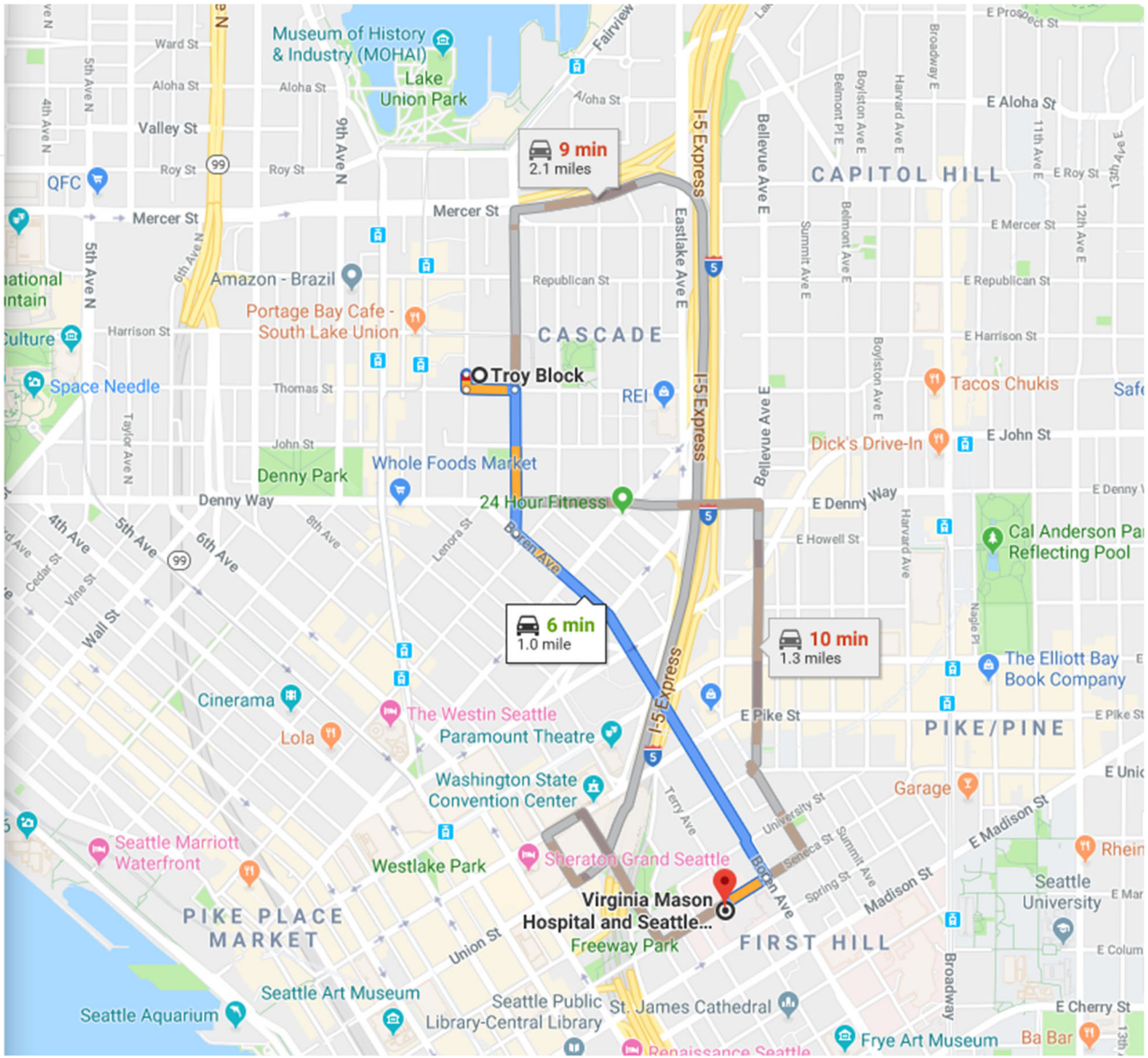
  Destination will be on the left

  322 ft

Virginia Mason Hospital and Seattle Medical Center

1100 9th Ave, Seattle, WA 98101

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.



10 min (2.5 miles)

via I-5 S

Heavy traffic, as usual

Troy Block

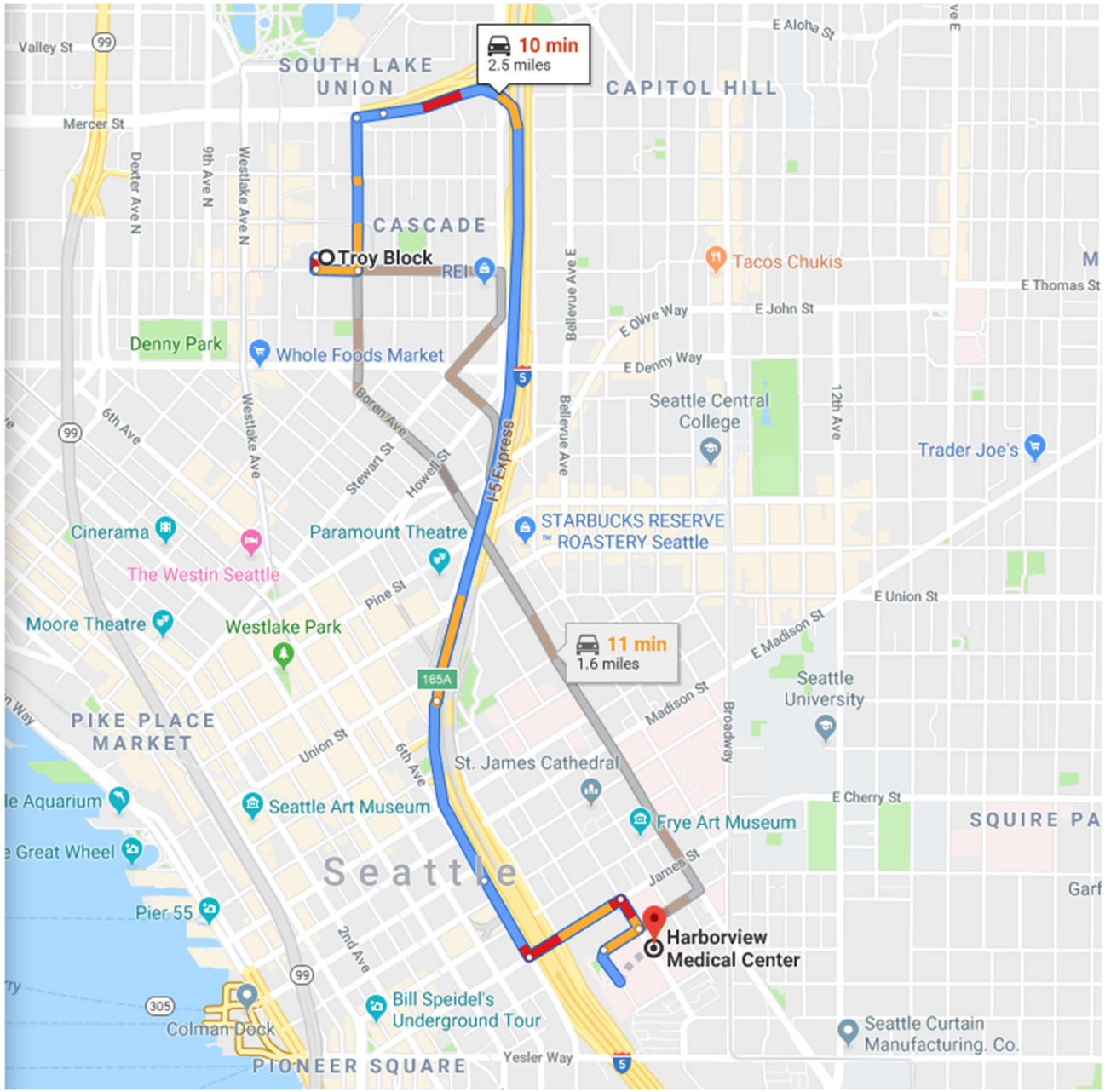
300 Boren Ave N, Seattle, WA 98109

- Take Thomas St to Fairview Ave N
  54 s (486 ft)
- Take I-5 S and Exit 165A to Jefferson St
  7 min (2.3 mi)
- Continue on Jefferson St. Drive to 8th Ave
  1 min (0.1 mi)

Harborview Medical Center

325 9th Ave, Seattle, WA 98104

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.



ATTACHMENT B

Daily Health and Safety Tailgate Meeting Form

SoundEarth Strategies

DAILY HEALTH AND SAFETY TAILGATE MEETING FORM

Project Number:	Date:
Site Safety Officer:	Time:
Project Address:	

Scope of Work:

Subjects Discussed:

☐	Slips, trips and falls	☐	Excavation/trenching safety
☐	PPE	☐	Overhead and underground utilities
☐	COCs	☐	Ladder safety
☐	Site control and visitors	☐	Hand tool safety
☐	Weather exposure, hydration	☐	Emergency meeting locations
☐	Traffic and moving equipment	☐	Hospital location and 911
☐	Heavy equipment	☐	Eyewash/fire extinguisher locations
☐	Lifting techniques	☐	Spill kit location
☐	Air quality	☐	First aid kit locations
☐	Noise	☐	General contractor-specific safety items
☐	COVID-19 Risk Level and Mitigation	☐	Other:

Additional Notes:

Attendees:

Print Name	

ATTACHMENT C

Site-Specific COC Quick References

1,2-DICHLOROETHENE

Chemical or Class (Synonyms or Isomers): 1,2-Dichloroethene, 1,2-DCE; includes cis- or trans-isomers

Properties

- Slightly acidic, chloroform-like odor

Protection

Recommended PPE	Respiratory Protection
▪ Impermeable, chemical-resistant, disposable clothing ▪ Silver Shield/composite gloves	If PEL is exceeded: minimum SA continuous flow or PAPR OV cartridge

First Aid

Routes of Exposure	Treatment Action	Target Organs
Skin contact	Soap wash promptly	▪ Central nervous system ▪ Eyes ▪ Respiratory system
Eye contact	Irrigate immediately	
Inhalation	Respiratory support	
Ingestion	Medical attention immediately	

Exposure Symptoms

- Central nervous system depression
- Eye and respiratory system irritation

Recommended Monitoring (if potential for exposure exists)

- Initiate personal air monitoring; perform additional monitoring if necessary based on initial results.
- Verify method with laboratory prior to ordering media and equipment.
- Real time monitoring equipment should include:
  - Detector tube(s)
  - 10.2 or 10.6 eV PID

Limits

Permissible Exposure Limits, Action Limits, and Other Limits	
DOSH PEL	200 ppm TWA 250 ppm STEL
NIOSH REL	200 ppm TWA
IDLH	1,000 ppm
FP	36-39°F
LEL	5.6%

DIESEL-RANGE PETROLEUM HYDROCARBONS

Chemical or Class (Synonyms or Isomers): Diesel-range petroleum hydrocarbons, DRPH (as Diesel Fuel #2 and petroleum distillates)

Properties

- Gasoline or kerosene-like odor
- Floats on water
- Clear, yellow-brown liquid

Special Characteristics

- Carcinogen
- Combustible liquid

Protection

Recommended PPE	Respiratory Protection
▪ Impermeable, chemical-resistant, disposable clothing ▪ Nitrile or neoprene gloves	If PEL is exceeded: any SA respirator

First Aid

Routes of Exposure	Treatment Action	Target Organs
Skin contact	Remove contaminated clothing and shoes. Wash contaminated areas thoroughly with soap and water. Obtain medical attention if irritation or redness develops.	▪ Central nervous system ▪ Eyes ▪ Kidneys ▪ Respiratory system ▪ Skin
Eye contact	Flush with clean, low-pressure water for at least 15 minutes	
Inhalation	Respiratory support	
Ingestion	Aspiration hazard. Do not induce vomiting or give liquids. Obtain immediate medical attention.	

Exposure Symptoms

- Dermatitis, Dry cracked skin
- Dizziness, Drowsiness
- Headache
- Inflammation of lungs
- Irritation of eyes, noses, and throat
- Nausea
- Skin reddening

Recommended Monitoring (if potential for exposure exists)

- Initiate personal air monitoring; perform additional monitoring if necessary based on initial results.
- Verify method with laboratory prior to ordering media and equipment.
- Real time monitoring equipment should include:
  - 10.2 or 10.6 eV PID

Limits

Permissible Exposure Limits, Action Limits, and Other Limits	
DOSH PEL	100 ppm TWA 150 ppm STEL
OSHA PEL	500 ppm
NIOSH REL	86 ppm TWA 444 ppm STEL
ACGIH TLV	100 mg/m^3 TWA
IDLH	1,100 ppm
FP	-40 to -86^{o}F
LEL	1.1%

GASOLINE-RANGE PETROLEUM HYDROCARBONS

Chemical or Class (Synonyms or Isomers): Gasoline-range petroleum hydrocarbons, GRPH (motor fuel, motor spirits, gasoline, TPH)

Properties

- Characteristic odor
- Rainbow sheen

Special Characteristics

- Carcinogen

Protection

Recommended PPE	Respiratory Protection
▪ Impermeable, chemical-resistant, disposable clothing ▪ Nitrile gloves	If PEL is exceeded: minimum full-face SA respirator in PP/PD mode

First Aid

Routes of Exposure	Treatment Action	Target Organs
Skin contact	Soap wash promptly	▪ Central nervous system ▪ Eyes ▪ Kidneys ▪ Liver ▪ Respiratory system ▪ Skin
Eye contact	Irrigate immediately	
Inhalation	Respiratory support	
Ingestion	Medical attention immediately	

Exposure Symptoms

- Blurred vision
- Confusion
- Convulsions
- Dizziness, slurred speech
- Exhaustion
- Headache
- Inflammation of skin and lungs
- Irritation of eyes, skin, and mucous membranes
- Possible liver and kidney damage
- Weakness
- (Potential occupational carcinogen)

Recommended Monitoring (if potential for exposure exists)

- Initiate personal air monitoring; perform additional monitoring if necessary based on initial results.
- Verify method with laboratory prior to ordering media and equipment.
- Real time monitoring equipment should include:
  - Detector tube(s)
  - 10.2 and 10.6 eV PID

Limits

Permissible Exposure Limits, Action Limits, and Other Limits	
DOSH PEL	300 ppm TWA 500 ppm STEL
ACGIH TLV	300 ppm TWA 500 ppm STEL
FP	-45°F
LEL	1.4%

TETRACHLOROETHYLENE

Chemical or Class (Synonyms or Isomers): PCE, tetrachlorethylene, perchloroethylene, perchlorethylene

Properties

- Mild, chloroform-like odor

Special Characteristics

- Carcinogen

Protection

Recommended PPE	Respiratory Protection
▪ Impermeable, chemical-resistant, disposable clothing ▪ Nitrile or neoprene gloves	If PEL is exceeded: any full-face SA respirator in PP/PD mode

First Aid

Routes of Exposure	Treatment Action	Target Organs
Skin contact	Soap wash promptly	▪ Central nervous system ▪ Eyes ▪ Kidneys ▪ Liver ▪ Respiratory system ▪ Skin
Eye contact	Irrigate immediately	
Inhalation	Respiratory support	
Ingestion	Medical attention immediately	

Exposure Symptoms

- Dizziness, incoordination
- Flushed face, neck
- Headache, drowsiness
- Irritations of eyes, skin, nose, throat, respiratory system
- Liver damage
- Nausea
- Skin erythema (skin redness)
- (Potential occupational carcinogen)

Recommended Monitoring (if potential for exposure exists)

- Initiate personal air monitoring; perform additional monitoring if necessary based on initial results.
- Verify method with laboratory prior to ordering media and equipment.
- Real time monitoring equipment should include:
  - 10.2 or 10.6 eV PID

Limits

Permissible Exposure Limits, Action Limits, and Other Limits	
DOSH PEL	25 ppm TWA 38 ppm STEL
OSHA PEL	100 ppm TWA 200 ppm C (5 minutes in 3-hour period) 300 ppm (5-min maximum peak)
ACGIH TLV	25 ppm TWA 100 ppm STEL
IDLH	150 ppm

TRICHLOROETHENE

Chemical or Class (Synonyms or Isomers): Trichloroethene, TCE, trichloroethylene, ethylene trichloride

Properties

- Chloroform-like odor

Protection

Recommended PPE	Respiratory Protection
▪ Impermeable, chemical-resistant, disposable clothing ▪ Nitrile gloves	If PEL is exceeded: minimum full-face SA respirator in PP/PD mode

First Aid

Routes of Exposure	Treatment Action	Target Organs
Skin contact	Soap wash promptly	▪ Central nervous system ▪ Eyes ▪ Heart ▪ Kidneys ▪ Liver ▪ Respiratory system ▪ Skin
Eye contact	Irrigate immediately	
Inhalation	Respiratory support	
Ingestion	Medical attention immediately	

Exposure Symptoms

- Cardiac arrhythmias
- Dizziness, drowsiness, or nausea
- Exhaustion or weakness
- Headache
- Irritation of eyes and skin
- Liver injury
- Tingling, pricking, and inflammation of skin
- Tremor
- Visual disturbance
- Vomiting
- (Potential occupational carcinogen)

Recommended Monitoring (if potential for exposure exists)

- Initiate personal air monitoring; perform additional monitoring if necessary based on initial results.
- Verify method with laboratory prior to ordering media and equipment.
- Real time monitoring equipment should include:
  - 10.2 or 10.6 eV PID

Limits

Permissible Exposure Limits, Action Limits, and Other Limits	
DOSH PEL	50 ppm TWA 200 ppm STEL
OSHA PEL	100 ppm TWA 200 ppm C 300 ppm peak (5 minutes)
IDLH	1,000 ppm
LEL	8%

VINYL CHLORIDE

Chemical or Class (Synonyms or Isomers): Vinyl chloride (chloroethylene)

Properties

- Pleasant odor at high concentrations

Special Characteristics

- Carcinogen
- Attacks iron and steel in the presence of moisture
- Polymerizes in air and sunlight
- Flammable gas at standard temperature and pressure

Protection

Recommended PPE	Respiratory Protection
▪ Impermeable, chemical-resistant, disposable clothing ▪ Silver Shield/composite gloves	If PEL is exceeded: any SA respirator in PP/PD mode

First Aid

Routes of Exposure	Treatment Action	Target Organs
Skin contact	If frostbite has occurred, seek medical attention immediately; if tissue is not frozen, immediately flush with water for a minimum of 15 minutes.	▪ Blood ▪ Central nervous system ▪ Liver ▪ Lymphatic system ▪ Respiratory system
Eye contact		
Inhalation	Respiratory support	
Ingestion	Not a likely exposure route	

Exposure Symptoms

- Abdominal pain, gastrointestinal bleeding
- Enlarged liver
- Frostbite (liquid)
- Lassitude (weakness, exhaustion)
- Pallor or cyanosis of extremities
- (Potential occupational carcinogen)

Recommended Monitoring (if potential for exposure exists)

- Initiate personal air monitoring; perform additional monitoring if necessary based on initial results.
- Verify method with laboratory prior to ordering media and equipment.
- Real time monitoring equipment should include:
  - 10.2 or 10.6 eV PID

Limits

Permissible Exposure Limits, Action Limits, and Other Limits	
DOSH PEL	1 ppm TWA 5 ppm STEL
OSHA PEL	0.5 ppm AL
LEL	3.6%

ATTACHMENT D

Chemical Safety Data Sheets

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015 **Revision** : 12.10.2015

Trade Name: Alconox

1 Identification of the substance/mixture and of the supplier

1.1 Product identifier

Trade Name: Alconox
Synonyms:
Product number: Alconox

1.2 Application of the substance / the mixture : Cleaning material/Detergent

1.3 Details of the supplier of the Safety Data Sheet

Manufacturer	Supplier
Alconox, Inc. 30 Glenn Street White Plains, NY 10603 1-914-948-4040	Not Applicable

Emergency telephone number:
ChemTel Inc
North America: 1-800-255-3924
International: 01-813-248-0585

2 Hazards identification

2.1 Classification of the substance or mixture:

In compliance with EC regulation No. 1272/2008, 29CFR1910/1200 and GHS Rev. 3 and amendments.

Hazard-determining components of labeling:
Tetrasodium Pyrophosphate
Sodium tripolyphosphate
Sodium Alkylbenzene Sulfonate

2.2 Label elements:

Skin irritation, category 2.
Eye irritation, category 2A.

Hazard pictograms:

Signal word: Warning

Hazard statements:
H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statements:
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 If on skin: Wash with soap and water.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P321 Specific treatment (see supplemental first aid instructions on this label).
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P501 Dispose of contents and container as instructed in Section 13.

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015 **Revision** : 12.10.2015

Trade Name: Alconox

Additional information: None.

Hazard description

Hazards Not Otherwise Classified (HNOC): None

Information concerning particular hazards for humans and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is according to EC regulation No. 1272/2008, 29CFR1910/1200 and GHS Rev. 3 and amendments, and extended by company and literature data. The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

3 Composition/information on ingredients

3.1 Chemical characterization : None

3.2 Description : None

3.3 Hazardous components (percentages by weight)

Identification	Chemical Name	Classification	Wt. %
CAS number: 7758-29-4	Sodium tripolyphosphate	Skin Irrit. 2 ; H315 Eye Irrit. 2; H319	12-28
CAS number: 68081-81-2	Sodium Alkylbenzene Sulfonate	Acute Tox. 4; H303 Skin Irrit. 2 ; H315 Eye Irrit. 2; H319	8-22
CAS number: 7722-88-5	Tetrasodium Pyrophosphate	Skin Irrit. 2 ; H315 Eye Irrit. 2; H319	2-16

3.4 Additional Information : None.

4 First aid measures

4.1 Description of first aid measures

General information: None.

After inhalation:

Maintain an unobstructed airway.

Loosen clothing as necessary and position individual in a comfortable position.

After skin contact:

Wash affected area with soap and water.

Seek medical attention if symptoms develop or persist.

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes.

Remove contact lens(es) if able to do so during rinsing.

Seek medical attention if irritation persists or if concerned.

After swallowing:

Rinse mouth thoroughly.

Seek medical attention if irritation, discomfort, or vomiting persists.

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015 **Revision** : 12.10.2015

Trade Name: Alconox

4.2 Most important symptoms and effects, both acute and delayed

None

4.3 Indication of any immediate medical attention and special treatment needed:

No additional information.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition.

For safety reasons unsuitable extinguishing agents : None

5.2 Special hazards arising from the substance or mixture :

Thermal decomposition can lead to release of irritating gases and vapors.

5.3 Advice for firefighters

Protective equipment:

Wear protective eye wear, gloves and clothing.
Refer to Section 8.

5.4 Additional information :

Avoid inhaling gases, fumes, dust, mist, vapor and aerosols.
Avoid contact with skin, eyes and clothing.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures :

Ensure adequate ventilation.
Ensure air handling systems are operational.

6.2 Environmental precautions :

Should not be released into the environment.
Prevent from reaching drains, sewer or waterway.

6.3 Methods and material for containment and cleaning up :

Wear protective eye wear, gloves and clothing.

6.4 Reference to other sections : None

7 Handling and storage

7.1 Precautions for safe handling :

Avoid breathing mist or vapor.
Do not eat, drink, smoke or use personal products when handling chemical substances.

7.2 Conditions for safe storage, including any incompatibilities :

Store in a cool, well-ventilated area.

7.3 Specific end use(s):

No additional information.

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015 **Revision** : 12.10.2015

Trade Name: Alconox

8 Exposure controls/personal protection

8.1 Control parameters :

7722-88-5, Tetrasodium Pyrophosphate, OSHA TWA 5 mg/m3.

8.2 Exposure controls

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Respiratory protection:

Not needed under normal conditions.

Protection of skin:

Select glove material impermeable and resistant to the substance.

Eye protection:

Safety goggles or glasses, or appropriate eye protection.

General hygienic measures:

Wash hands before breaks and at the end of work.
Avoid contact with skin, eyes and clothing.

9 Physical and chemical properties

Appearance (physical state, color):	White and cream colored flakes - powder	**Explosion limit lower**: **Explosion limit upper**:	Not determined or not available. Not determined or not available.
Odor:	Not determined or not available.	**Vapor pressure at 20°C**:	Not determined or not available.
Odor threshold:	Not determined or not available.	**Vapor density**:	Not determined or not available.
pH-value:	9.5 (aqueous solution)	**Relative density**:	Not determined or not available.
Melting/Freezing point:	Not determined or not available.	**Solubilities**:	Not determined or not available.
Boiling point/Boiling range:	Not determined or not available.	**Partition coefficient (n-octanol/water)**:	Not determined or not available.
Flash point (closed cup):	Not determined or not available.	**Auto/Self-ignition temperature**:	Not determined or not available.
Evaporation rate:	Not determined or not available.	**Decomposition temperature**:	Not determined or not available.

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015 **Revision** : 12.10.2015

Trade Name: Alconox

Flammability (solid, gaseous):	Not determined or not available.	**Viscosity**:	a. Kinematic: Not determined or not available. b. Dynamic: Not determined or not available.
Density at 20°C:	Not determined or not available.		

10 Stability and reactivity

10.1 Reactivity : None

10.2 Chemical stability : None

10.3 Possibility hazardous reactions : None

10.4 Conditions to avoid : None

10.5 Incompatible materials : None

10.6 Hazardous decomposition products : None

11 Toxicological information

11.1 Information on toxicological effects :

Acute Toxicity:

Oral:

: LD50 > 5000 mg/kg oral rat - Product .

Chronic Toxicity: No additional information.

Skin corrosion/irritation:

Sodium Alkylbenzene Sulfonate: Causes skin irritation. .

Serious eye damage/irritation:

Sodium Alkylbenzene Sulfonate: Causes serious eye irritation .

Tetrasodium Pyrophosphate: Rabbit - Risk of serious damage to eyes .

Respiratory or skin sensitization: No additional information.

Carcinogenicity: No additional information.

IARC (International Agency for Research on Cancer): None of the ingredients are listed.

NTP (National Toxicology Program): None of the ingredients are listed.

Germ cell mutagenicity: No additional information.

Reproductive toxicity: No additional information.

STOT-single and repeated exposure: No additional information.

Additional toxicological information: No additional information.

12 Ecological information

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015 **Revision** : 12.10.2015

Trade Name: Alconox

12.1 Toxicity:

Sodium Alkylbenzene Sulfonate: Fish, LC50 1.67 mg/l, 96 hours.
Sodium Alkylbenzene Sulfonate: Aquatic invertebrates, EC50 Daphnia 2.4 mg/l, 48 hours.
Sodium Alkylbenzene Sulfonate: Aquatic Plants, EC50 Algae 29 mg/l, 96 hours.
Tetrasodium Pyrophosphate: Fish, LC50 - other fish - 1,380 mg/l - 96 h.
Tetrasodium Pyrophosphate: Aquatic invertebrates, EC50 - Daphnia magna (Water flea) - 391 mg/l - 48 h.

12.2 Persistence and degradability: No additional information.

12.3 Bioaccumulative potential: No additional information.

12.4 Mobility in soil: No additional information.

General notes: No additional information.

12.5 Results of PBT and vPvB assessment:

PBT: No additional information.

vPvB: No additional information.

12.6 Other adverse effects: No additional information.

13 Disposal considerations

13.1 Waste treatment methods (consult local, regional and national authorities for proper disposal)

Relevant Information:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities. (US 40CFR262.11).

14 Transport information

14.1 UN Number: None
ADR, ADN, DOT, IMDG, IATA

14.2 UN Proper shipping name: None
ADR, ADN, DOT, IMDG, IATA

14.3 Transport hazard classes:
ADR, ADN, DOT, IMDG, IATA

Class: None
Label: None
LTD. QTY: None

US DOT
Limited Quantity Exception: None

Bulk:
RQ (if applicable): None
Proper shipping Name: None
Hazard Class: None
Packing Group: None
Marine Pollutant (if applicable): No additional information.

Non Bulk:
RQ (if applicable): None
Proper shipping Name: None
Hazard Class: None
Packing Group: None
Marine Pollutant (if applicable): No additional information.

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015 **Revision** : 12.10.2015

Trade Name: Alconox

	Comments: None	**Comments:** None
14.4	**Packing group:** ADR, ADN, DOT, IMDG, IATA	None
14.5	**Environmental hazards** :	None
14.6	**Special precautions for user:**	None
	Danger code (Kemler):	None
	EMS number:	None
	Segregation groups:	None
14.7	**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:**	Not applicable.
14.8	**Transport/Additional information:**	
	Transport category:	None
	Tunnel restriction code:	None
	UN "Model Regulation":	None

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.

North American

SARA

Section 313 (specific toxic chemical listings): None of the ingredients are listed.
Section 302 (extremely hazardous substances): None of the ingredients are listed.

CERCLA (Comprehensive Environmental Response, Clean up and Liability Act) Reportable

Spill Quantity: None of the ingredients are listed.

TSCA (Toxic Substances Control Act):

Inventory: All ingredients are listed.
Rules and Orders: Not applicable.

Proposition 65 (California):

Chemicals known to cause cancer: None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females: None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males: None of the ingredients are listed.

Chemicals known to cause developmental toxicity: None of the ingredients are listed.

Canadian

Canadian Domestic Substances List (DSL):
All ingredients are listed.

EU

REACH Article 57 (SVHC): None of the ingredients are listed.

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015 **Revision** : 12.10.2015

Trade Name: Alconox

Germany MAK: Not classified.

Asia Pacific

Australia

Australian Inventory of Chemical Substances (AICS): All ingredients are listed.

China

Inventory of Existing Chemical Substances in China (IECSC): All ingredients are listed.

Japan

Inventory of Existing and New Chemical Substances (ENCS): All ingredients are listed.

Korea

Existing Chemicals List (ECL): All ingredients are listed.

New Zealand

New Zealand Inventory of Chemicals (NZOIC): All ingredients are listed.

Philippines

Philippine Inventory of Chemicals and Chemical Substances (PICCS): All ingredients are listed.

Taiwan

Taiwan Chemical Substance Inventory (TSCI): All ingredients are listed.

16 Other information

Abbreviations and Acronyms: None

Summary of Phrases

Hazard statements:

H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statements:

P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 If on skin: Wash with soap and water.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P321 Specific treatment (see supplemental first aid instructions on this label).
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P501 Dispose of contents and container as instructed in Section 13.

Manufacturer Statement:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

NFPA: 1-0-0

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015 **Revision** : 12.10.2015

Trade Name: Alconox

HMIS: 1-0-0

SAFETY DATA SHEET

Version 6.9
Revision Date 03/18/2023
Print Date 04/22/2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Hydrochloric acid

Product Number : H1758
Brand : Sigma
Index-No. : 017-002-01-X
CAS-No. : 7647-01-0

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Corrosive to Metals (Category 1), H290
Skin corrosion (Category 1B), H314
Serious eye damage (Category 1), H318
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal Word Danger

Hazard statement(s)	
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.

Precautionary statement(s)	
P234	Keep only in original container.
P261	Avoid breathing mist or vapors.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P406	Store in corrosive resistant container with a resistant inner liner.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Component		Classification	Concentration
Hydrochloric Acid			
CAS-No. EC-No. Index-No. Registration number	7647-01-0 231-595-7 017-002-01-X 01-2119484862-27-XXXX	Met. Corr. 1; Skin Corr. 1B; Eye Dam. 1; STOT SE 3; H290, H314, H318, H335 Concentration limits: >= 0.1 %: Met. Corr. 1, H290; >= 25 %: Skin Corr. 1B, H314; 10 - < 25 %: Skin Irrit. 2, H315; 10 - < 25 %: Eye Irrit. 2, H319; >= 10 %: STOT SE 3, H335;	>= 30 - < 50 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air. Call in physician.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

In case of eye contact
After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

If swallowed
After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture
Hydrogen chloride gas
Hydrogen chloride gas
Not combustible.
Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information
Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent and neutralising material (e.g. Chemizorb® H^+, Merck Art. No. 101595). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
No metal containers.
Tightly closed.

Storage class
Storage class (TRGS 510): 8B: Non-combustible, corrosive hazardous materials

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Hydrochloric Acid	7647-01-0	C	2 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Not classifiable as a human carcinogen		

		C	5 ppm 7 mg/m3	USA. NIOSH Recommended Exposure Limits
		C	5 ppm 7 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		PEL	0.3 ppm 0.45 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		C	2 ppm	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

8.2 Exposure controls

Appropriate engineering controls
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

Skin protection
This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Splash contact
Material: Latex gloves
Minimum layer thickness: 0.6 mm
Break through time: 120 min
Material tested:Lapren® (KCL 706 / Aldrich Z677558, Size M)

Body Protection
Acid-resistant protective clothing

Respiratory protection
required when vapours/aerosols are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid Color: light yellow
b)	Odor	pungent
c)	Odor Threshold	No data available
d)	pH	< 1 at 20 °C (68 °F)
e)	Melting point/freezing point	-30 °C (-22 °F)
f)	Initial boiling point and boiling range	> 100 °C > 212 °F - lit.
g)	Flash point	()Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	227 hPa at 21.1 °C (70.0 °F) 547 hPa at 37.7 °C(99.9 °F)
l)	Vapor density	No data available
m)	Density	1.2 g/cm3 at 25 °C (77 °F) - lit.
	Relative density	No data available
n)	Water solubility	soluble
o)	Partition coefficient: n-octanol/water	No data available
p)	Autoignition temperature	Not applicable
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	Not classified as explosive.
t)	Oxidizing properties	none

9.2 Other safety information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
no information available

10.5 Incompatible materials
Bases, Amines, Alkali metals, Metals, permanganates, for example potassium permanganate, Fluorine, metal acetylides, hexalithium disilicideMetals

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Mixture

Acute toxicity
Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.
Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract
Dermal: No data available

Skin corrosion/irritation
Remarks: Mixture causes burns.

Serious eye damage/eye irritation
Remarks: Mixture causes serious eye damage.
Risk of blindness!

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
Mixture may cause respiratory irritation.

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information

RTECS: MW4025000
Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

Components

Hydrochloric Acid

Acute toxicity
Oral: No data available
Inhalation: Cough Difficulty in breathing
Inhalation: absorption
Inhalation: Corrosive to respiratory system.
Symptoms: mucosal irritations, Cough, Shortness of breath, Inhalation may lead to the formation of oedemas in the respiratory tract., Possible damages:, damage of respiratory tract, tissue damage
Dermal: No data available

Skin corrosion/irritation
Skin - reconstructed human epidermis (RhE)
Result: Corrosive
(OECD Test Guideline 431)

Serious eye damage/eye irritation
Eyes - Bovine cornea
Result: Corrosive
(OECD Test Guideline 437)

Respiratory or skin sensitization
Maximization Test - Guinea pig
Result: negative
(OECD Test Guideline 406)

Germ cell mutagenicity
Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Result: Conflicting results have been seen in different studies.

Carcinogenicity
Carcinogenicity - Did not show carcinogenic effects in animal experiments. (IUCLID)

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
May cause respiratory irritation.
The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

Acute inhalation toxicity - mucosal irritations, Cough, Shortness of breath, Inhalation may lead to the formation of oedemas in the respiratory tract., Possible damages:, damage of respiratory tract, tissue damage

Specific target organ toxicity - repeated exposure
The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard
No aspiration toxicity classification

SECTION 12: Ecological information

12.1 Toxicity

Mixture
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties
No data available

12.7 Other adverse effects
No data available

Components

Hydrochloric Acid
No data available

Toxicity to fish	LC50 - Gambusia affinis (Mosquito fish) - 282 mg/l - 96 h Remarks: (IUCLID)

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14: Transport information

DOT (US)
UN number: 1789 Class: 8 Packing group: II
Proper shipping name: Hydrochloric acid
Reportable Quantity (RQ):
Poison Inhalation Hazard: No

IMDG
UN number: 1789 Class: 8 Packing group: II EMS-No: F-A, S-B
Proper shipping name: HYDROCHLORIC ACID

IATA
UN number: 1789 Class: 8 Packing group: II
Proper shipping name: Hydrochloric acid

SECTION 15: Regulatory information

SARA 302 Components
This material does not contain any components with a section 302 EHS TPQ.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Hydrochloric Acid	7647-01-0	2013-02-08

SARA 311/312 Hazards
Acute Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
water	7732-18-5	
Hydrochloric Acid	7647-01-0	2013-02-08

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Hydrochloric Acid	7647-01-0	2013-02-08

SECTION 16: Other information

Further information
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See

www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com.

Version: 6.9 Revision Date: 03/18/2023 Print Date: 04/22/2023

SAFETY DATA SHEET

Creation Date 12-Mar-2009 **Revision Date** 24-Dec-2021 **Revision Number** 9

1. Identification

Product Name **Nitric acid (67 - 70%)**

Cat No. : **A467-1, A467-2, A467-250, A467-500**

CAS No 7697-37-2
Synonyms Azotic acid; Engraver's acid; Aqua fortis

Recommended Use Laboratory chemicals.
Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company
Fisher Scientific Company
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Emergency Telephone Number Chemtrec US: (800) 424-9300
Chemtrec EU: 001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Oxidizing liquids	Category 3
Corrosive to metals	Category 1
Acute Inhalation Toxicity - Vapors	Category 3
Skin Corrosion/Irritation	Category 1 A
Serious Eye Damage/Eye Irritation	Category 1

Label Elements

Signal Word
Danger

Hazard Statements
May intensify fire; oxidizer
May be corrosive to metals
Causes severe skin burns and eye damage

Toxic if inhaled
Corrosive to the respiratory tract

Precautionary Statements
Prevention
Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep/Store away from clothing/ other combustible materials
Take any precaution to avoid mixing with combustibles
Keep only in original container
Wear respiratory protection
Response
Immediately call a POISON CENTER or doctor/physician
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a POISON CENTER or doctor/physician
Skin
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Ingestion
IF SWALLOWED: Rinse mouth. DO NOT induce vomiting
Fire
In case of fire: Use CO2, dry chemical, or foam for extinction
Spills
Absorb spillage to prevent material damage
Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Store in a dry place
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Corrosive to the respiratory tract

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Nitric acid …% [C ≤ 70 %]	7697-37-2	65 - 70
Water	7732-18-5	30 - 35

4. First-aid measures

General Advice Immediate medical attention is required. Show this safety data sheet to the doctor in

attendance.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Call a physician immediately.

Inhalation If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Remove from exposure, lie down. Call a physician immediately.

Ingestion Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Clean mouth with water. Call a physician immediately.

Most important symptoms and effects Causes burns by all exposure routes. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media CO_2, dry chemical, dry sand, alcohol-resistant foam.

Unsuitable Extinguishing Media No information available

Flash Point Not applicable
Method - No information available

Autoignition Temperature No information available
Explosion Limits
Upper No data available
Lower No data available
Oxidizing Properties Oxidizer

Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes. Oxidizer: Contact with combustible/organic material may cause fire. May ignite combustibles (wood paper, oil, clothing, etc.).

Hazardous Combustion Products
Nitrogen oxides (NOx). Thermal decomposition can lead to release of irritating gases and vapors.
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

Health	Flammability	Instability	Physical hazards
4	0	0	OX

6. Accidental release measures

Personal Precautions Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Use personal protective equipment as required.

Environmental Precautions Should not be released into the environment. Do not flush into surface water or sanitary sewer system. See Section 12 for additional Ecological Information.

Methods for Containment and Clean Up Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Sweep up and shovel into suitable containers for disposal. Wear self-contained breathing apparatus and protective suit.

7. Handling and storage

Handling Use only under a chemical fume hood. Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Do not ingest. If swallowed then seek immediate medical assistance. Do not breathe mist/vapors/spray. Keep away from clothing and other combustible materials.

Storage. Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store near combustible materials. Do not store in metal containers. Keep in properly labeled containers. Corrosives area. Incompatible Materials. Combustible material. Strong bases. Reducing Agent. Metals. Finely powdered metals. Organic materials. Aldehydes. Alcohols. Cyanides. Ammonia. Strong reducing agents.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Nitric acid …% [C ≤ 70 %]	TWA: 2 ppm STEL: 4 ppm	(Vacated) TWA: 2 ppm (Vacated) TWA: 5 mg/m³ (Vacated) STEL: 4 ppm (Vacated) STEL: 10 mg/m³ TWA: 2 ppm TWA: 5 mg/m³	IDLH: 25 ppm TWA: 2 ppm TWA: 5 mg/m³ STEL: 4 ppm STEL: 10 mg/m³	TWA: 2 ppm STEL: 4 ppm

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Tight sealing safety goggles. Face protection shield.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Provide regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes or clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wear suitable gloves and eye/face protection.

9. Physical and chemical properties

Physical State	Liquid
Appearance	Clear Colorless, Light yellow
Odor	Strong Acrid
Odor Threshold	No information available
pH	< 1.0 (0.1M)
Melting Point/Range	-41 °C / -41.8 °F
Boiling Point/Range	Not applicable
Flash Point	Not applicable
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	0.94 kPa (20°C)
Vapor Density	No information available
Specific Gravity	1.40
Solubility	miscible
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	HNO3
Molecular Weight	63.01

10. Stability and reactivity

Reactive Hazard Yes

Stability Oxidizer: Contact with combustible/organic material may cause fire.

Conditions to Avoid Incompatible products. Combustible material. Excess heat. Exposure to air or moisture over prolonged periods.

Incompatible Materials Combustible material, Strong bases, Reducing Agent, Metals, Finely powdered metals, Organic materials, Aldehydes, Alcohols, Cyanides, Ammonia, Strong reducing agents

Hazardous Decomposition Products Nitrogen oxides (NOx), Thermal decomposition can lead to release of irritating gases and vapors

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Oral LD50	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
Dermal LD50	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
Mist LC50	Category 3. ATE = 1 - 5 mg/l. Category 4.
Vapor LC50	Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Nitric acid …% [C ≤ 70 %]	Not listed	Not listed	LC50 = 2500 ppm. (Rat) 1h
Water	-	-	-

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Causes severe burns by all exposure routes

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Nitric acid …% [C ≤ 70 %]	7697-37-2	Not listed	Not listed	Not listed	Not listed	Not listed
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known
STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity
Do not empty into drains. Large amounts will affect pH and harm aquatic organisms.

Persistence and Degradability Miscible with water Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation No information available.

Mobility Will likely be mobile in the environment due to its water solubility.

Component	log Pow
Nitric acid …% [C ≤ 70 %]	-2.3

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT
UN-No UN2031
Proper Shipping Name NITRIC ACID
Hazard Class 8
Subsidiary Hazard Class 5.1
Packing Group II

TDG
UN-No UN2031

Proper Shipping Name NITRIC ACID
Hazard Class 8
Subsidiary Hazard Class 5.1
Packing Group II

IATA

UN-No UN2031
Proper Shipping Name NITRIC ACID
Hazard Class 8
Subsidiary Hazard Class 5.1
Packing Group II

IMDG/IMO

UN-No UN2031
Proper Shipping Name NITRIC ACID
Hazard Class 8
Subsidiary Hazard Class 5.1
Packing Group II

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Nitric acid …% [C ≤ 70 %]	7697-37-2	X	ACTIVE	-
Water	7732-18-5	X	ACTIVE	-

Legend:
TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)
X - Listed
'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories
Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Nitric acid …% [C ≤ 70 %]	7697-37-2	X	-	231-714-2	X	X	X	X	X	KE-25911
Water	7732-18-5	X	-	231-791-2	X	X		X	X	KE-35400

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

Component	CAS No	Weight %	SARA 313 - Threshold Values %
Nitric acid …% [C ≤ 70 %]	7697-37-2	65 - 70	1.0

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Nitric acid …% [C ≤ 70 %]	X	1000 lb	-	-

Clean Air Act Not applicable

OSHA - Occupational Safety and Health Administration

Component	Specifically Regulated Chemicals	Highly Hazardous Chemicals
Nitric acid …% [C ≤ 70 %]	-	TQ: 500 lb

CERCLA This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Nitric acid …% [C ≤ 70 %]	1000 lb	1000 lb

California Proposition 65 This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Nitric acid …% [C ≤ 70 %]	X	X	X	X	X
Water	-	-	X	-	-

U.S. Department of Transportation
Reportable Quantity (RQ): Y
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security This product contains the following DHS chemicals:
Legend - STQs = Screening Threshold Quantities, APA = A placarded amount

Component	DHS Chemical Facility Anti-Terrorism Standard
Nitric acid …% [C ≤ 70 %]	Release STQs - 15000lb Theft STQs - 400lb

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Nitric acid …% [C ≤ 70 %]	-	Use restricted. See item 75. (see link for restriction details)	-

https://echa.europa.eu/substances-restricted-under-reach

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Nitric acid …% [C ≤ 70 %]	7697-37-2	Listed	Not applicable	Not applicable	Not applicable
Water	7732-18-5	Listed	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Nitric acid …% [C ≤ 70 %]	7697-37-2	Not applicable	Not applicable	Not applicable	Annex I - Y34
Water	7732-18-5	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

Prepared By
Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date 12-Mar-2009
Revision Date 24-Dec-2021
Print Date 24-Dec-2021
Revision Summary SDS sections updated. 2. 11.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS

SAFETY DATA SHEET

Version 6.15
Revision Date 04/10/2023
Print Date 04/22/2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Sulfuric acid

Product Number : 339741
Brand : Aldrich
Index-No. : 016-020-00-8
CAS-No. : 7664-93-9

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Corrosive to Metals (Category 1), H290
Skin corrosion (Category 1A), H314
Serious eye damage (Category 1), H318

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal Word Danger

Hazard statement(s)

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.

Precautionary statement(s)

P234	Keep only in original container.
P264	Wash skin thoroughly after handling.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P405	Store locked up.
P406	Store in corrosive resistant container with a resistant inner liner.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula	:	H_2O_4S
Molecular weight	:	98.08 g/mol
CAS-No.	:	7664-93-9
EC-No.	:	231-639-5
Index-No.	:	016-020-00-8

Component	Classification	Concentration
sulphuric acid		
	Met. Corr. 1; Skin Corr. 1A; Eye Dam. 1; H290, H314, H318 Concentration limits: >= 0.3 %: Met. Corr. 1, H290; >= 15 %: Skin Corr. 1A, H314; 5 - < 15 %: Skin Irrit. 2, H315; 5 - < 15 %: Eye Irrit. 2, H319;	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air. Call in physician.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

In case of eye contact
After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

If swallowed
After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture
Sulfur oxides
Not combustible.
Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information
Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent and neutralising material (e.g. Chemizorb® H^+, Merck Art. No. 101595). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
No metal containers.
Tightly closed.

Storage class
Storage class (TRGS 510): 8B: Non-combustible, corrosive hazardous materials

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
sulphuric acid	7664-93-9	TWA	0.2 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		TWA	1 mg/m3	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
		TWA	1 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

8.2 Exposure controls

Appropriate engineering controls
Change contaminated clothing and immerse in water. Preventive skin protection Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

Skin protection
This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Full contact
Material: Viton®
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Splash contact
Material: butyl-rubber
Minimum layer thickness: 0.7 mm
Break through time: 120 min
Material tested:Butoject® (KCL 898)

Body Protection
Acid-resistant protective clothing

Respiratory protection
required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: clear, liquid Color: colorless
b)	Odor	odorless
c)	Odor Threshold	Not applicable
d)	pH	1.2 at 5 g/l
e)	Melting point/freezing point	Melting point: 10.31 °C (50.56 °F)
f)	Initial boiling point and boiling range	290 °C 554 °F - lit.
g)	Flash point	()No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	1.33 hPa at 145.8 °C (294.4 °F)
l)	Vapor density	3.39 - (Air = 1.0)
m)	Density	1.84 g/cm3 at 25 °C (77 °F) - lit.
	Relative density	No data available
n)	Water solubility	soluble
o)	Partition coefficient: n-octanol/water	Not applicable for inorganic substances
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	none

9.2 Other safety information

Surface tension	55.1 mN/m at 20 °C (68 °F)
Relative vapor density	3.39 - (Air = 1.0)

SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions
A risk of explosion and/or of toxic gas formation exists with the following substances:
Water
Alkali metals
alkali compounds
Ammonia
Aldehydes
acetonitrile
Alkaline earth metals
alkalines
Acids
alkaline earth compounds
Metals
metal alloys
Oxides of phosphorus
phosphorus
hydrides
halogen-halogen compounds
oxyhalogenic compounds
permanganates
nitrates
carbides
combustible substances
organic solvent
acetylidene
Nitriles
organic nitro compounds
anilines
Peroxides
picrates
nitrides
lithium silicide
iron(III) compounds
bromates
chlorates
Amines
perchlorates
hydrogen peroxide

10.4 Conditions to avoid
no information available

10.5 Incompatible materials
animal/vegetable tissuesContact with metals liberates hydrogen gas.

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - male and female - 2,140 mg/kg
Remarks: (ECHA)
Inhalation: Corrosive to respiratory system.
Dermal: No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Extremely corrosive and destructive to tissue.
Remarks: (IUCLID)

Serious eye damage/eye irritation
Remarks: Causes serious eye damage.

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
Test Type: Ames test
Test system: Salmonella typhimurium
Result: negative
Remarks: (HSDB)

Carcinogenicity
No data available

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information

RTECS: WS5600000
Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Pulmonary edema. Effects may be delayed.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

After inhalation of aerosols: damage to the affected mucous membranes. After skin contact: severe burns with formation of scabs. After eye contact: burns, corneal lesions. After swallowing: severe pain (risk of perforation!), nausea, vomiting and diarrhoea. After a latency period of several weeks possibly pyloric stenosis.

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae	static test ErC50 - Desmodesmus subspicatus (green algae) - > 100 mg/l - 72 h (OECD Test Guideline 201)

12.2 Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

Biological effects:
Harmful effect due to pH shift.
Caustic even in diluted form.
Does not cause biological oxygen deficit.
Endangers drinking-water supplies if allowed to enter soil and/or waters in large quantities.
Neutralisation possible in waste water treatment plants.
Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14: Transport information

DOT (US)
UN number: 1830 Class: 8 Packing group: II
Proper shipping name: Sulfuric acid
Reportable Quantity (RQ): 1000 lbs
Poison Inhalation Hazard: No

IMDG
UN number: 1830 Class: 8 Packing group: II EMS-No: F-A, S-B
Proper shipping name: SULPHURIC ACID

IATA
UN number: 1830 Class: 8 Packing group: II
Proper shipping name: Sulphuric acid

SECTION 15: Regulatory information

SARA 302 Components

	CAS-No.	Revision Date
sulphuric acid	7664-93-9	2007-07-01

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
sulphuric acid	7664-93-9	2007-07-01

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
sulphuric acid	7664-93-9	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
sulphuric acid	7664-93-9	2007-07-01

California Prop. 65 Components

, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.sulphuric acid	CAS-No. 7664-93-9	Revision Date 2007-09-28

SECTION 16: Other information

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com.

Version: 6.15 Revision Date: 04/10/2023 Print Date: 04/22/2023

ATTACHMENT E

Activity Hazard Analyses

Activity Hazard Analysis:
Drilling Observation and Sampling in Excavation

Activity/Work Task:	**Drilling Observation and Sampling**		
Project Location:	300 Boren Avenue North and 399 Fairview Avenue North		
Project Number:	0731-004		
Date Prepared:	4/23/2025	**Review Date:**	4/25/2025
Prepared by (Name, Title):	Linnea Coleman, Staff Geologist		
Reviewed by (Name, Title):	Clare Tochilin, Senior Geologist		

This AHA involves the following:
- Establishing site-specific measures.

Equipment to be used:
- Level D PPE
- Photoionization detector

Inspection requirements:
- Inspect equipment daily per manufacturer's instructions. Tag tools that are defective and remove them from service.
- Inspect all PPE prior to use.

Training requirements:	Competent/qualified personnel:
• Orientation to Site-Specific HASP • Daily Health and Safety Tailgate Meeting Form	• Linnea Coleman

Overall Risk Assessment Code for this AHA (most severe or probable hazard): **H**

Risk Assessment Code Matrix

Severity	Probability				
	Frequent	Likely	Occasional	Seldom	Unlikely
Catastrophic	E	E	H	H	M
Critical	E	H	H	M	L
Marginal	H	M	M	L	L
Negligible	M	L	L	L	L

Step 1: Review each **hazard** and its identified **safety controls** and determine its Risk Assessment Code using the matrix above. **Probability** is the likelihood the hazard may cause an incident, near miss, or accident. (Options are frequent, likely, occasional, seldom, or unlikely.) **Severity** is the outcome/degree if an incident, near miss, or accident did occur. (Options are catastrophic, critical, marginal, or negligible.)

Step 2: Identify the Risk Assessment Code (i.e., the intersection of probability and severity) as E, H, M, or L for each hazard identified in this AHA. The Risk Assessment Code for the most severe or probable hazard is considered the overall Risk Assessment Code for this AHA. Note the letter at the top of this AHA.

Risk Assessment Code Chart

- **E = Extremely High Risk**
- **H = High Risk**
- **M = Moderate Risk**
- **L = Low Risk**

Activity Hazard Analysis:
Drilling Observation and Sampling in Excavation

Job Steps	Hazards	Controls	RAC
1 Perform site walk upon arrival.	Site hazards or conditions not identifed in the HASP	Perform site walks daily or if conditions change to identify hazards. • Communicate what is found to site personnel at the tailgate safety meeting. • Correct what you can safely. • Discuss how to accomplish the corrections safely. • Call the PM if more assistance, equipment, or PPE is needed to correct any issues. • Notify the PM of all changes.	L
2 Establish work zone(s) and set up tools, equipment, and sampling containers.	Equipment failure	Perform equipment and tool checks per the mobilization/demobilization AHA and calibrate any equipment per manufacturer instructions.	H
	Site security	Utilize appropriate site control devices such as cones, vehicle tape, or caution tape per HASP or site needs to delineate the work zone. Check in with building tenant.	
	Work in a trench/excavation	Discuss appropriate excavation entrance and exits with site general contractor. If using a ladder to enter excavation, maintain 3 points of contact at all times. Minimize amount of equipment being carried down ladder – use a bucket to lower equipment or ask excavator to move equipment for you.	
	Slips, trips, and falls	Do not leave tools or equipment on the ground to prevent tripping hazards.	
	Heavy equipment strike	• Discuss the order of sampling locations with the driller and ensure you are out of the way while the driller sets up and moves between locations. • Set up in the support zone at least 15 feet away from the drill rig. When selecting the support zone location, also consider earthquake safety, exit routes, and the likely radius and direction of any drill rig equipment failure.	

Activity Hazard Analysis:
Drilling Observation and Sampling in Excavation

3 Complete boring or moitoring well drilling and collect soil or reconnaissance groundwater samples.	Slips, trips, and falls	Always watch your footing: • Slow down and use extra caution around logs, rocks, and animal holes. • Consider an alternate route around extremely steep slopes (>50 percent grade), which can be hazardous under wet or dry conditions. • Watch for morning dew on grass and weeds, which makes slopes or smooth surfaces slippery. • Take another path or use extreme caution when walking on vegetative mats use for erosion control on slopes; these are trip-and-fall hazards. • Wear laced boots with a minimum 6-inch-high upper and non-skid Vibram-type lug soles for ankle support and traction on natural surfaces. • Ensure all boring locations are backfilled or covered to protect against falls.	M
	Muscle strain or sprain	Use your legs and avoid using your back while hand augering. Switch the task to another staff member or take a break if needed.	
	Work in a trench/excavation	If using a ladder to enter excavation, maintain 3 points of contact at all times. Avoid standing near exvavation walls in case of collapse.	
	Cross contamination	Use plastic to protect the ground or table from soil that is generated and do not place sample containers or lids on the ground.	
	Utility strike	Arrange for public utility locates to be performed at least two days before borings are advanced. Use a private utility locate service for borings advanced on private property.	
	Heavy equipment strike	Discuss boring locations with the equipment operator, determine a safe spot to stand, and determine how you will approach the operator to provide requests for sampling locations. Do not approach the operator if you do not have eye contact or have not used hand signals indicating it is safe to approach.	
	Chemical action levels exceeded	Monitor the air sampling equipment, such as the photoionization detector, for action levels related to the chemicals of concern listed in the HASP.	
	Equipment leak	Ensure a spill kit is present in the exclusion zone to allow the driller and support personnel to react quickly to contain the spill after equipment shutoff.	
	Contact with chemicals	Use chemical-resistant gloves while sampling soil or groundwater or handling sampling containers, especially those that may contain an acid preservative. Level D PPE should be used at all times while on site.	
4 Demobilize from the site.	Site security	Ensure tools, equipment, and samples are put away promptly and securely per the mobilization/demobilization AHA. If there are any property fences or doors that need to be secured, check that all entry points are secured.	L
	Equipment or sample containers left on site	Check the work area before you leave to ensure conditions are safe if someone were to access the area and that equipment and samples were not left behind inadvertently. Ensure all site trash generated is properly disposed of.	

	Muscle strain or sprain	When moving equipment or sample coolers, ensure you lift with your legs, not your back, or get an assistant to help with heavy items.	

Note: This AHA is not an exhaustive summary of all hazards associated with the site. Refer to the Site-Specific Health and Safety Plan for additional requirements. Follow general site safety controls for slips, trips, and falls; biological hazards; cuts, lacerations, and pinch points; and emergency procedures.

Activity Hazard Analysis: Groundwater Monitoring

Activity/Work Task:	**Groundwater Monitoring**		
Project Location:	300 Boren Avenue North and 399 Fairview Avenue North		
Project Number:	0731-004		
Date Prepared:	4/23/2025	**Review Date:**	4/25/2025
Prepared by (Name/Title):	Linnea Coleman, Staff Geologist		
Reviewed by (Name/Title):	Clare Tochilin, Senior Geologist		

This AHA involves the following:

- Establishing site-specific measures.

Equipment to be used:

- Level D PPE
- Water level meter
- Water quality meter
- Turbidity meter
- Peristaltic Pump
- Bladder pump
- Generator
- Air Compressor

Inspection requirements:

- Inspect equipment daily per manufacturer's instructions. Tag tools that are defective and remove them from service.
- Inspect all PPE prior to use.

Training requirements:	Competent/qualified personnel:
• Orientation to Site-Specific HASP • Daily Health and Safety Tailgate Meeting Form	• Linnea Coleman

Overall Risk Assessment Code for this AHA (most severe or probable hazard): **M**

Risk Assessment Code Matrix

Severity	Probability				
	Frequent	Likely	Occasional	Seldom	Unlikely
Catastrophic	E	E	H	H	M
Critical	E	H	H	M	L
Marginal	H	M	M	L	L
Negligible	M	L	L	L	L

Step 1: Review each **hazard** and its identified **safety controls** and determine its Risk Assessment Code using the matrix above. **Probability** is the likelihood the hazard may cause an incident, near miss, or accident. (Options are frequent, likely, occasional, seldom, or unlikely.) **Severity** is the outcome/degree if an incident, near miss, or accident did occur. (Options are catastrophic, critical, marginal, or negligible.)

Step 2: Identify the Risk Assessment Code (i.e., the intersection of probability and severity) as E, H, M, or L for each hazard identified in this AHA. The Risk Assessment Code for the most severe or probable hazard is considered the overall Risk Assessment Code for this AHA. Note the letter at the top of this AHA.

Risk Assessment Code Chart

- **E = Extremely High Risk**
- **H = High Risk**
- **M = Moderate Risk**
- **L = Low Risk**

SoundEarth Strategies

Activity Hazard Analysis: Groundwater Monitoring

	Job Steps	Hazards	Controls	RAC
1	Perform site walk upon arrival.	Site hazards or conditions not identifed in the HASP	Perform site walks daily or if conditions change to identify hazards. • Communicate what is found to site personnel at the tailgate safety meeting. • Correct what you can safely. • Discuss how to accomplish the corrections safely. • Call the PM if more assistance, equipment, or PPE is needed to correct any issues. • Notify the PM of all changes.	L
2	Establish work zone(s) and set up tools, equipment, and sampling containers.	Equipment failure	Perform equipment and tool checks per the mobilization/demobilization AHA and calibrate any equipment per manufacturer instructions.	L
		Site security	Utilize appropriate site control devices such as cones, vehicle tape, or caution tape per HASP or site needs to delineate the work zone. Check in with building tenant.	
		Slips, trips, and falls	Do not leave tools or equipment on the ground to prevent tripping hazards.	
		Traffic	Use cones and caution tape to mark out work area. Use field vehicle as a barrier/blockade especially at MW28. Have one person as a spotter watching for cars/busses, especially at MW33.	
3	Conduct depth to water measurements.	Slips, trips, and falls	Always watch your footing. Wear laced boots with a minimum 6-inch-high upper and non-skid Vibram-type lug soles for ankle support and traction on natural surfaces.	L
		Muscle strain or sprain	Use your legs and avoid using your back while opening well lids. Use the correct tool for the job.	
		Cross contamination	Clean the water level meter between all measuring locations.	
		Heavy equipment or vehicle strike	Be aware of your surroundings and any vehicle hazards that may be present on site and ensure the work zone is adequately delineated while mobilizing to all site wells.	
4	Collect groundwater samples per the project work plan.	Site security	Be aware of your surroundings and any vehicle hazards that may be present on site and ensure the work zone is adequately delineated while mobilizing to all site wells.	M
		Traffic	Use cones and caution tape to mark out work area. Use field vehicle as a barrier/blockade especially at MW28. Have one person as a spotter watching for cars/busses, especially at MW33.	
		Equipment or sample containers left on site	Check the work area before you leave to ensure conditions are safe if someone were to access the area and that equipment and samples were not left behind inadvertently.	
		Muscle strain or sprain	Use your legs and avoid using your back while opening well lids. Use the correct tool for the job. When moving equipment or sample coolers, ensure you lift with your legs, not your back, or get an assistant to help with heavy items.	
		Cross contamination	Clean the water level meter and all sampling equipment between all well locations. Collect samples by working from cleanest to dirtiest locations, if possible.	

	Contact with chemicals	Wear chemical-resistant PPE and all Level D PPE as described in the HASP to prevent contact with contaminants in groundwater and acid preservatives in sampling containers.	
	Generator Use	Point the exhaust vent away from the work area.	
	Air Compressor Use	Stand back when depressurizing air compressor after use. Read pressure gauges on air compressor to be aware of how much pressure it is under. Empty condensation in chamber after use (after depressurizing).	
5 Demobilize from the site.	Site security	Ensure tools, equipment, and samples are put away promptly and securely per the mobilization/demobilization AHA. If there are any property fences or doors that need to be secured, check that all entry points are secured.	**L**
	Slips, trips, and falls	Check the work area before you leave to ensure conditions are safe if someone were to access the area.	
	Equipment or sample containers left on site	Check the work area before you leave to ensure sampling equipment or samples were not left behind inadvertently. Ensure all site trash generated is properly disposed of.	
	Strain or sprain	When moving equipment or sample coolers, ensure you lift with your legs, not your back, or get an assistant to help with heavy items.	

Note: This AHA is not an exhaustive summary of all hazards associated with the site. Refer to the Site-Specific Health and Safety Plan for additional requirements. Follow general site safety controls for slips, trips, and falls; biological hazards; cuts, lacerations, and pinch points; and emergency procedures.

Activity Hazard Analysis: Mobilization/Demobilization and Site Preparation

Activity/Work Task:	**Mobilization/Demobilization and Site Preparation**		
Project Location:	300 Boren Avenue North and 399 Fairview Avenue North		
Project Number:	0731-004		
Date Prepared:	4/23/2025	**Review Date:**	4/25/2025
Prepared by (Name, Title):	Linnea Coleman, Staff Geologist		
Reviewed by (Name, Title):	Clare Tochilin, Senior Geologist		

This AHA involves the following:

- Establishing site-specific measures.

Equipment to be used:

- Level D PPE (hard hat, safety glasses, gloves, steel-toed work boots, high-visibility safety vest, hearing protection)
- Hand tools
- Field vehicle

Inspection requirements:

- Inspect equipment daily per manufacturer's instructions. Tag tools that are defective and remove them from service.
- Inspect all PPE prior to use.

Training requirements:	Competent/qualified personnel:
• Orientation to Site-Specific HASP • Daily Health and Safety Tailgate Meeting Form	• Linnea Coleman

Overall Risk Assessment Code for this AHA (most severe or probable hazard): **M**

Risk Assessment Code Matrix

Severity	Probability				
	Frequent	Likely	Occasional	Seldom	Unlikely
Catastrophic	E	E	H	H	M
Critical	E	H	H	M	L
Marginal	H	M	M	L	L
Negligible	M	L	L	L	L

Step 1: Review each **hazard** and its identified **safety controls** and determine its Risk Assessment Code using the matrix above. **Probability** is the likelihood the hazard may cause an incident, near miss, or accident. (Options are frequent, likely, occasional, seldom, or unlikely.) **Severity** is the outcome/degree if an incident, near miss, or accident did occur. (Options are catastrophic, critical, marginal, or negligible.)

Step 2: Identify the Risk Assessment Code (i.e., the intersection of probability and severity) as E, H, M, or L for each hazard identified in this AHA. The Risk Assessment Code for the most severe or probable hazard is considered the overall Risk Assessment Code for this AHA. Note the letter at the top of this AHA.

Risk Assessment Code Chart

- **E = Extremely High Risk**
- **H = High Risk**
- **M = Moderate Risk**
- **L = Low Risk**

Activity Hazard Analysis:
Mobilization/Demobilization and Site Preparation

Job Steps	Hazards	Controls	RAC
1 Prepare for mobilization	N/A	Prior to leaving for the site: • Obtain and review HASP prior to site visit, if possible. • Determine PPE needs and bring required PPE to the site, if items are not otherwise being provided at the site (e.g., steel-toed boots). • Determine training and medical monitoring needs and ensure all required health and safety training and medical monitoring has been received and is current. • Ensure all workers are fit for duty (i.e., alert, well rested, and mentally and physically fit to perform the work assignment). • Ensure that respirator training and fit testing has occurred within the past year if respiratory protection is required or potentially required. • Familiarize yourself with the route to the site.	L
	Vehicle defects	Use the field vehicle checklist and inspect the company-owned or -leased vehicle (if being used) for defects such as: • Flat tires • Worn or torn windshield wipers • Oil puddles under vehicle • Inoperable headlights, brake lights, and/or turn signals	
	Insufficient emergency equipment and unsecured loads	• Ensure the vehicle has a first aid kit. • Ensure the vehicle is equipped with warning flashers and/or flares that the warning flashers are operational. • Ideally bring a charged cell phone to call for help in the event of an emergency. • Properly secure all tools. • Equip the vehicle with chocks if the vehicle is to be left running unattended. • Ensure there is sufficient gasoline or diesel in the vehicle's tank.	
	Vehicle Clearance	• Ensure the vehicle used for site activities maintains a clearance lower than all clearance levels on site. • Ensure vehicle is clearly marked with this clearance and all operators of the vehicle are aware of the clearance.	

2	Operate the vehicle.	Collisions or unsafe driving conditions	Drive defensively: • Use a seat belt at all times when operating any vehicle on company business. • Drive at safe speeds for road conditions. • Maintain adequate following distances. • Pull over and stop if you have to look at a map. • Park to avoid needing to back up to leave the site. ○ If backing into a parking spot, walk around the vehicle to identify any hazards that might be present, espeically low-level hazards that may be difficult to see from inside the vehicle. Use a spotter if necessary.	**M**
3	Drive to the job site.	Dusty, winding, and/or narrow roads	• Drive confidently and defensively at all times. • Go slow around corners, occasionally clearing the windshield.	**M**

	Rocky or one-lane roads	• Stay clear of gullies and trenches, and drive slowly over rocks. • Yield the right-of-way to oncoming vehicles and find a safe place to pull over if needed.	
	Stormy weather and proximity to other motorists	• Inquire about or check weather conditions before leaving. • Be aware of oncoming storms. • Drive to avoid accidents or other situations created by mistakes of other motorists.	
	Anger or irritation before driving	Adjust your attitude, change the subject, or work out the problem before driving the vehicle. Consider letting someone else drive.	
	Turnaround on narrow roads	• Safely turn around with as much room as possible. • Know what is ahead and behind the vehicle. • Use a backer if available.	
	Sick or medicated	Let others on the work crew know you do not feel well and consider letting someone else drive.	
	Wet or slimy roads	Drive slow and safe and wear a seatbelt.	
	Animals on the road	• Drive slowly and watch for other animals nearby. • Be alert for animals darting out of wooded areas.	
	Ovehead power lines	• Use a spotter to ensure clearance when passing under overhead power lines. • Keep the spotter in clear sight in order to observe their signals at all times. • Use an atlernate route if necessary.	
	Driving in low-clearance zones (ie. parking garage)	• Be aware of vehicle height restrictions on site • Use shortest vehicle • Drive slowly in height restricted zones and listen for anything hitting top of the vehicle • Have one person outside the vehicle spotting	
4 Gain permission to enter the site.	Hostile landowner(s), livestock, or pets	• Talk to landowner and be courteous and diplomatic. • Ensure all animals on site have been secured away from the work area.	**L**

SoundEarth Strategies

Activity Hazard Analysis: Mobilization/Demobilization and Site Preparation

5	Mobilize equipment and supplies.	Struck by heavy equipment or vehicles	• Be aware of heavy equipment operations. • Do not stand directly behind heavy equipment when it is in operation. • Keep out of the swing radius of heavy equipment. • Be aware of the heavy equipment's counterweight swing and maintain an adequate buffer zone. • Be within the view of the operator when you are in the vicinity of heavy equipment. • Wear a high-visibility vest or T-shirt on site during daytime and a reflective vest on site at night.	M
		Struck by equipment or supplies	• Maintain proper space around work areas. If someone enters a work area, stop work. • When entering another worker's work area, give a verbal warning to let them know you are there.	
		Overexertion during unloading or loading of supplies	• Train workers or receive training on proper body mechanics. Do not bend or twist at the waist while exerting force or lifting. • Tightly secure all loads to truck beds to avoid loads shifting while in transit.	
		Caught in, on, or between equipment or supplies	Do not place yourself between two vehicles or between a vehicle and a fixed object.	
		Slips, trips, and falls	• Maintain three-point contact when mounting or dismounting vehicles or equipment. • Check surfaces before exiting vehicles or equipment and step down instead of jumping down. • Mark all holes and low spots in the area with banner tape and instruct personnel to avoid these areas.	
		Vehicle accident	Follow company vehicle operation policies and be aware of all stationary and mobile vehicles.	
6	Prepare the site.	Slips, trips, and falls	Mark all holes and low spots in the area with banner tape and instruct personnel to avoid these areas.	L
7	Install soil erosion and sediment controls.	Overexertion	• Train workers or receive training on the proper method of placing erosion controls. • Do not bend and twist at the wasit while lifting or exerting force.	M
		Struck by equipment or supplies	• Maintain proper space around work areas. If someone enters a work area, stop work. • When entering another worker's work area, give a verbal warning to let them know you are there.	
8	Drive back from the job site.	See hazards listed under item no. 3 above.	• Follow safe work practices under item no. 3 above.	M

Note: This AHA is not an exhaustive summary of all hazards associated with the site. Refer to the Site-Specific Health and Safety Plan for additional requirements. Follow general site safety controls for slips, trips, and falls; biological hazards; cuts, lacerations, and pinch points; and emergency procedures.