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7 **STATE OF WASHINGTON**
8 **KING COUNTY SUPERIOR COURT**

9 STATE OF WASHINGTON,
10 DEPARTMENT OF ECOLOGY,

11 Plaintiff,

12 v.

13 TOUCHSTONE SLU LLC, a
14 Washington limited liability company,
15 and TB TS/RELP LLC, a Washington
16 limited liability company,

17 Defendants.

NO.

CONSENT DECREE

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1 **I. INTRODUCTION**

2 1. The mutual objective of the State of Washington, Department of Ecology
3 (Ecology) and Touchstone SLU LLC and TB TS/RELP LLC (Defendants) under this Decree is
4 to provide for remedial action at a facility where there has been a release or threatened release
5 of hazardous substances. This Decree requires Defendants to conduct a cleanup action at the
6 Troy Laundry Seattle Site (Site) in accordance with the Cleanup Action Plan (CAP) attached
7 and incorporated into this Decree as Exhibit B and the Schedule attached and incorporated into
8 this Decree as Exhibit C, as well as any other requirements identified in this Decree and all
9 exhibits thereto.

10 2. Ecology has determined that these actions are necessary to protect human health
11 and the environment.

12 3. The Complaint in this action is being filed simultaneously with this Decree. An
13 Answer has not been filed, and there has not been a trial on any issue of fact or law in this case.
14 However, the Parties wish to resolve the issues raised by Ecology’s Complaint. In addition, the
15 Parties agree that settlement of these matters without litigation is reasonable and in the public
16 interest, and that entry of this Decree is the most appropriate means of resolving these matters.

17 4. By signing this Decree, the Parties agree to its entry and agree to be bound by its
18 terms.

19 5. By entering into this Decree, the Parties do not intend to discharge non-settling
20 parties from any liability they may have with respect to matters alleged in the Complaint. The
21 Parties retain the right to seek reimbursement, in whole or in part, from any liable persons for
22 sums expended under this Decree.

23 6. This Decree shall not be construed as proof of liability or responsibility for any
24 releases of hazardous substances or cost for remedial action nor an admission of any facts;
25 provided, however, that Defendants shall not challenge the authority of the Attorney General
26 and Ecology to enforce this Decree.

1 7. The Court is fully advised of the reasons for entry of this Decree, and good cause
2 having been shown:

3 Now, therefore, it is HEREBY ORDERED, ADJUDGED, AND DECREED as follows:

4 **II. JURISDICTION**

5 1. This Court has jurisdiction over the subject matter and over the Parties pursuant
6 to the Model Toxics Control Act (MTCA), RCW 70A.305.

7 2. Authority is conferred upon the Washington State Attorney General by
8 RCW 70A.305.040(4)(a) to agree to a settlement with any potentially liable person (PLP) if,
9 after public notice and any required public meeting, Ecology finds the proposed settlement
10 would lead to a more expeditious cleanup of hazardous substances. RCW 70A.305.040(4)(b)
11 requires that such a settlement be entered as a consent decree issued by a court of competent
12 jurisdiction.

13 3. Ecology has determined that a release or threatened release of hazardous
14 substances has occurred at the Site that is the subject of this Decree.

15 4. Ecology has given notice to Defendants of Ecology's determination that
16 Defendants are PLPs for the Site, as required by RCW 70A.305.020(26) and WAC 173-340-500.

17 5. The actions to be taken pursuant to this Decree are necessary to protect public
18 health and the environment.

19 6. This Decree has been subject to public notice and comment.

20 7. Ecology finds that this Decree will lead to a more expeditious cleanup of
21 hazardous substances at the Site in compliance with the cleanup standards established under
22 RCW 70A.305.030(2)(e) and WAC 173-340.

23 8. Defendants have agreed to undertake the actions specified in this Decree and
24 consent to the entry of this Decree under MTCA.

1 **III. PARTIES BOUND**

2 1. This Decree shall apply to and be binding upon the Parties to this Decree, their
3 successors and assigns. The undersigned representative of each party hereby certifies that they
4 are fully authorized to enter into this Decree and to execute and legally bind such party to comply
5 with this Decree. Defendants agree to undertake all actions required by the terms and conditions
6 of this Decree. No change in ownership or corporate status shall alter Defendants' responsibility
7 under this Decree. Defendants shall provide a copy of this Decree to all agents, contractors, and
8 subcontractors retained to perform work required by this Decree, and Defendants shall ensure
9 that all work undertaken by such agents, contractors, and subcontractors complies with this
10 Decree.

11 **IV. DEFINITIONS**

12 1. Unless otherwise specified herein, all definitions in RCW 70A.305.020, and
13 WAC 173-340 shall control the meanings of the terms in this Decree.

14 A. Site: The Site is referred to as the Troy Laundry Seattle Site, Cleanup Site
15 Identification #11690, Facility Site Identification #19135499. The Site constitutes a
16 facility under RCW 70A.305.020(8). The Site is defined by where a hazardous substance,
17 other than a consumer product in consumer use, has been deposited, stored, disposed of,
18 or placed, or otherwise come to be located.

19 B. Consent Decree or Decree: Refers to this Consent Decree and each of the
20 exhibits to this Decree. All exhibits are integral and enforceable parts of this Consent
21 Decree.

22 C. Defendants: Refers to Touchstone SLU LLC and TB TS/RELP LLC.

23 D. Parties: Refers to the State of Washington, Department of Ecology and
24 Defendants.

1 **V. FINDINGS OF FACT**

2 1. Ecology makes the following findings of fact without any express or implied
3 admissions of such facts by Defendants.

4 A. Based upon factors currently known to Ecology, the Site is generally
5 located at 300 Boren Avenue North, 399 Fairview Avenue North and 1120 John Street
6 in Seattle, Washington (Exhibit A). The Site includes the former Troy Laundry facility
7 property located at 300 Boren Avenue North (Troy Property), part of the property to the
8 south of the Troy Property located at 1120 John Street (Onni Property), and rights-of-
9 way in the 1100 block of Harrison Street to the north, in the 300 block of Boren Avenue
10 North to the west, and in the 1100 block of Thomas Street to the south.

11 B. Between approximately 1926 and 1985, the Troy Property was used as an
12 industrial laundry and dry cleaning facility. As many as nineteen (19) storage tanks (both
13 aboveground and underground) were used to store hazardous substances on the Troy
14 Property. Contamination at the Site is related to the use and storage of dry cleaning
15 solvents, heating oil, and gasoline products on the Troy Property.

16 C. Releases of dry cleaning solvents, including petroleum-based Stoddard
17 solvents and tetrachloroethene (PCE)-based chlorinated solvents, to soil and groundwater
18 have been confirmed to have occurred at the Site. Contaminants of concern identified in
19 soil and groundwater during investigations of the Site include gasoline, diesel, and oil-
20 range petroleum hydrocarbons, PCE, trichloroethylene (TCE), cis-1-2-dichloroethene
21 (DCE), and vinyl chloride (VC). The following hazardous substances at the Site were
22 detected at concentrations above MTCA cleanup levels: (1) gasoline, diesel, and oil-
23 range petroleum hydrocarbons, and chlorinated volatile organic compounds (CVOCs—
24 specifically PCE and its degradation compounds TCE, DCE, and VC) in soil; and
25 (2) CVOCs (specifically PCE and its degradation compounds TCE, DCE, and VC) in
26 groundwater.

1 D. The Seattle Times Company purchased the Troy Property in 1985.

2 E. The Seattle Times Company installed and operated a soil vapor extraction
3 (SVE) system at the Troy Property from February 2011 through December 2011.

4 F. Touchstone SLU LLC purchased the Troy Property from the Seattle
5 Times Company in June 2011.

6 G. In May 2012, Touchstone SLU LLC and Ecology entered into an Agreed
7 Order for the Site. The Agreed Order required Touchstone SLU LLC to prepare and
8 submit a Remedial Investigation and Feasibility Study Report (RI/FS Report) and a Draft
9 Cleanup Action Plan (Draft CAP) for the Site.

10 H. Multiple environmental investigations and analyses of the Site have been
11 performed. The investigations identified concentrations of PCE, total petroleum
12 hydrocarbons (including Stoddard Solvent), and other hazardous substances above
13 applicable regulatory cleanup and/or screening levels in the soil, groundwater, and soil
14 gas. Concentrations of PCE, TCE, and petroleum hydrocarbons (gasoline, diesel, and oil-
15 range) above applicable regulatory cleanup levels were detected in soil at variable depths
16 at the Site.

17 I. In August 2013, Touchstone SLU LLC and Ecology entered into a First
18 Amendment of the Agreed Order (First Amended Order). Pursuant to the First Amended
19 Order, Touchstone SLU LLC agreed to perform an interim action in conjunction with the
20 redevelopment of the Troy Property. The Interim Action included the following remedial
21 activities: (1) excavation and off-site disposal of soil with concentrations of PCE,
22 petroleum hydrocarbons, and other hazardous substances both above the regulatory
23 cleanup levels and above laboratory detection levels but below the MTCA Method A
24 cleanup levels; (2) installation of an in-situ groundwater injection well network in the
25 primary groundwater-bearing zone beneath and immediately adjacent to the former Troy
26 Property; and (3) post-development indoor air vapor assessment activities.

1 J. From July 2014 through February 2015, over 96,000 tons of contaminated
2 soils were excavated from the Site pursuant to the First Amended Order.

3 K. An in-situ groundwater injection well network was installed during
4 redevelopment in order to implement an Enhanced Reductive Dechlorination (ERD)
5 groundwater treatment program. The ERD treatment system consisted of 38 interior
6 injection wells, 53 perimeter injection wells, and 12 angled injection wells which extend
7 into the adjacent rights-of-way.

8 L. Three separate groundwater treatment injection events were performed to
9 remediate the contaminated groundwater at the Site. The groundwater treatment
10 injections were comprised of edible oil substrate and microbial consortium for
11 bioaugmentation to promote complete reductive dechlorination.

12 M. During redevelopment of the Troy Property, a 5-inch thick concrete slab-
13 on-grade (with a 6-foot, 6-inch-thick concrete mat slab underneath the elevator cores of
14 each building) foundation was installed beneath the five levels of below-ground parking,
15 along with a full-time active ventilation system (HVAC System) that creates positive
16 pressure in all elevator shafts and occupied building spaces. The HVAC System for the
17 parking garage is separate from the HVAC System for the overlying buildings, and the
18 HVAC System is connected to the emergency power generator for operation during
19 power outages. Additionally, a 15-mm vapor barrier was installed under the slab-on-
20 grade foundation of the entire development.

21 N. On March 26, 2013, Touchstone SLU LLC and US RELP TB LLC
22 formed TB TS/RELP LLC, a Washington limited liability company. On March 28, 2013,
23 Touchstone SLU LLC transferred ownership of the former Troy Laundry property to TB
24 TS/RELP LLC.

25 O. On March 13, 2015, the Agreed Order was amended a second time to add
26 TB TS/RELP LLC as a party to the Order (Second Amendment).

1 P. In accordance with the Vapor Intrusion Assessment Plan prepared under
2 as part of the Interim Action Work Plan, indoor air sampling was conducted in February
3 2018 to determine if vapor intrusion could be present on the Troy Property due to
4 groundwater contamination and residual soil contamination along the western sidewall.
5 Analytical results obtained in March 2018 indicate no exceedances of any Method B
6 cleanup levels for any contaminants of concern in indoor air on the Troy Property. In
7 February 2019, supplemental indoor air sampling was performed in five specific and
8 discrete areas to ensure that the results were temporally and technically consistent with
9 current conditions.

10 Q. Following performance of the previously-described remedial activities,
11 CVOCs (specifically PCE and its degradation compounds TCE, DCE, and VC) in
12 groundwater are the primary contaminants of concern, although there were sporadic and
13 minor detections of hazardous substances in soil along the sidewalls of the excavation in
14 areas outside of the former Troy Laundry property boundary. These hazardous
15 substances have been, and may continue to be, released at the Site into the environment.

16 R. On March 2019, Ecology entered into a Prospective Purchaser Consent
17 Decree (PPCD) with Ponte Gadea Seattle, LLC (Ponte Gadea). The PPCD required Ponte
18 Gadea to (1) monitor groundwater quality beneath the Troy Property and the adjacent
19 Boren Avenue, Thomas Street, and Harrison Street rights-of-way; and (2) perform
20 additional remedial actions, if necessary, to remediate groundwater contamination
21 beneath the Troy Property and the Boren Avenue and Thomas Street rights-of-way.

22 S. In March 2019, TB TS/RELP LLC sold the Troy Property to Ponte Gadea.

23 T. As documented in the CAP (Exhibit B), Ecology has chosen a final
24 cleanup action to be implemented at the Site.
25
26

1 **VI. WORK TO BE PERFORMED**

2 1. This Decree contains a process designed to protect human health and the
3 environment from the known release, or threatened release, of hazardous substances at, on, or
4 from the Site. All remedial action(s) conducted by Defendants at the Site shall be done in
5 accordance with WAC 173-340.

6 2. The Defendants shall implement the CAP (Exhibit B) in accordance with the
7 Schedule (Exhibit C) attached to this Decree. If necessary, Ecology may require the Defendants
8 to evaluate and implement contingency remedial actions.

9 3. Defendant TB TS/RELP LLC has elected to take the lead in performing various
10 aspects of the work required under this Decree. Language in this Decree, and the exhibits
11 attached hereto, may reflect this agreement among the Defendants. However, the Defendants
12 remain strictly, jointly, and severally liable for the performance of any and all obligations under
13 this Decree. In the event the party identified as a lead should fail to timely and properly complete
14 performance of all or any portion of its work, all Defendants must perform that remaining work,
15 if any.

16 4. All plans or other deliverables submitted by Defendants for Ecology’s review and
17 approval under the CAP (Exhibit B) or Schedule (Exhibit C) shall, upon Ecology’s approval,
18 become integral and enforceable parts of this Decree.

19 5. If Defendants learn of a significant change in conditions at the Site, including but
20 not limited to a statistically significant increase in contaminant and/or chemical concentrations
21 in media (e.g., groundwater and/or indoor air), Defendants, within seven (7) days of learning of
22 the change in condition, shall notify Ecology in writing of said change and provide Ecology with
23 any reports or records (including laboratory analyses, sampling results) relating to the change in
24 conditions.

25 6. Pursuant to WAC 173-340-440(11), Defendants shall maintain sufficient and
26 adequate financial assurance mechanisms to cover all costs associated with the operation and

1 maintenance of the remedial action at the Site, including institutional controls, compliance
2 monitoring, and corrective measures.

3 A. Within sixty (60) days of the effective date of this Decree, Defendants
4 shall submit to Ecology for review and approval an estimate of the costs associated with
5 the operation and maintenance of the remedial action at the Site that it will incur in
6 carrying out the terms of this Decree. Within sixty (60) days after Ecology approves the
7 aforementioned cost estimate, Defendants shall provide proof of financial assurances
8 sufficient to cover those costs in a form acceptable to Ecology.

9 B. Defendants shall adjust the financial assurance coverage and provide
10 Ecology's project coordinator with documentation of the updated financial assurance for:

11 i. Inflation, annually, within thirty (30) days of the anniversary date
12 of the entry of this Decree; or if applicable, the modified anniversary date
13 established in accordance with this section, or if applicable, ninety (90) days after
14 the close of Defendants' fiscal year if the financial test or corporate guarantee is
15 used.

16 ii. Changes in cost estimates, within thirty (30) days of issuance of
17 Ecology's approval of a modification or revision to the CAP that result in
18 increases to the cost or expected duration of remedial actions. Any adjustments
19 for inflation since the most recent preceding anniversary date shall be made
20 concurrent with adjustments for changes in cost estimates. The issuance of
21 Ecology's approval of a revised or modified CAP will revise the anniversary date
22 established under this section to become the date of issuance of such revised or
23 modified CAP.

24 C. The Financial Assurance Officer for Ecology shall work with the project
25 coordinators to review and approve financial assurance coverage pursuant to this Decree
26 and make determinations on any adjustments necessary based on the annual reporting.

1 As of the execution date of this Decree, Ecology’s Financial Assurance Officer is Joanna
2 Seymour, 360-485-5992 or joar461@ecy.wa.gov.

3 7. As detailed in the CAP, institutional controls are required at the Site.
4 Environmental (Restrictive) Covenants will be used to implement the institutional controls.

5 A. In consultation with Defendants, Ecology will prepare the Environmental
6 (Restrictive) Covenants consistent with WAC 173-340-440, RCW 64.70, and any
7 policies or procedures specified by Ecology. The Environmental (Restrictive) Covenants
8 shall restrict future activities and uses of the Site as agreed to by Ecology and Defendants.

9 B. After approval by Ecology, Defendants shall record the Environmental
10 (Restrictive) Covenant for the Troy Property with the office of the King County Auditor
11 as detailed in the Schedule (Exhibit D). Defendants shall provide Ecology with the
12 original recorded Environmental (Restrictive) Covenants within thirty (30) days of the
13 recording date.

14 C. As detailed in the CAP, as part of the remedial action for the Site,
15 institutional controls are required on the Onni Property, which is not owned by
16 Defendants. Defendants will ensure that the owner of the Onni Property records an
17 Ecology-approved Environmental (Restrictive) Covenant as detailed in the Schedule
18 (Exhibit D). Upon a showing that Defendants have made a good faith effort to secure an
19 Environmental (Restrictive) Covenant for the Onni Property, and failed to do so, Ecology
20 may provide assistance to Defendants. Unless Ecology determines otherwise, affected
21 properties include parcel number 1986200525. Defendants shall provide Ecology with
22 the original recorded Environmental (Restrictive) Covenant within thirty (30) days of the
23 recording date.

24 8. Unless otherwise directed by Ecology, Defendants shall submit to Ecology
25 written annual Progress Reports that describe the actions taken during the previous year to
26 implement the requirements of this Decree. All Progress Reports shall be submitted by the tenth

1 (10th) day of the 1st month of the calendar year following the effective date of this Decree. Unless
2 otherwise specified in writing by Ecology, Progress Reports and any other documents submitted
3 pursuant to this Decree shall be sent by electronic mail to Ecology's project coordinator. The
4 Progress Reports shall include the following:

5 A. A list of on-site activities that have taken place during the year.

6 B. Description of any sample results which deviate from the norm.

7 C. Detailed description of any deviations from required tasks not otherwise
8 documented in project plans or amendment requests.

9 D. Description of all deviations from the Schedule (Exhibit C) during the
10 current quarter and any planned deviations in the upcoming year.

11 E. For any deviations in schedule, a plan for recovering lost time and
12 maintaining compliance with the schedule.

13 F. All raw data (including laboratory analyses) received during the previous
14 quarter (if not previously submitted to Ecology), together with a detailed description of
15 the underlying samples collected.

16 G. A list of planned activities, if any, for the upcoming year.

17 9. Except in the case of an emergency, Defendants agree not to perform any
18 remedial actions at the Site outside the scope of this Decree without prior written approval of
19 Ecology. In the case of an emergency, Defendants must notify Ecology of the event and remedial
20 action(s) as soon as practical, but no later than twenty-four (24) hours after discovery of the
21 emergency.

22 VII. DESIGNATED PROJECT COORDINATORS

23 1. The project coordinator for Ecology is:

24 Sunny Becker
25 Department of Ecology
26 PO Box 330316
Shoreline, WA 98133-9716

1 425-457-3842
2 sunny.becker@ecy.wa.gov

3 2. The project coordinators for Defendants are:

4 Tom Cammarata
5 SoundEarth Strategies
6 2320 W Commodore Way
7 Seattle, WA 98199
8 206-306-1900
9 tcammarata@soundearthinc.com

10 Dirk Mosis III
11 Corsair Interests, LLC
12 101 Sunflower Lane
13 San Antonio TX 78213
14 210-204-0352
15 Dmosis3@outlook.com

16 3. Each project coordinator shall be responsible for overseeing the implementation
17 of this Decree. Ecology's project coordinator will be Ecology's designated representative for the
18 Site. To the maximum extent possible, communications between Ecology and Defendants and
19 all documents, including reports, approvals, and other correspondence concerning the activities
20 performed pursuant to the terms and conditions of this Decree shall be directed through the
21 project coordinators. The project coordinators may designate, in writing, working level staff
22 contacts for all or portions of the implementation of the work to be performed required by this
23 Decree.

24 4. Any party may change its respective project coordinator. Written notification
25 shall be given to the other party at least ten (10) calendar days prior to the change.

26 **VIII. PERFORMANCE**

1 Except as otherwise provided for by RCW 18.43 and 18.220, all geologic and
2 hydrogeologic work performed pursuant to this Decree shall be under the supervision and
3 direction of a geologist or hydrogeologist licensed by the State of Washington or under the direct
4 supervision of an engineer registered by the State of Washington.

1 2. Except as otherwise provided for by RCW 18.43.130, all engineering work
2 performed pursuant to this Decree shall be under the direct supervision of a professional engineer
3 registered by the State of Washington.

4 3. Except as otherwise provided for by RCW 18.43.130, all construction work
5 performed pursuant to this Decree shall be under the direct supervision of a professional engineer
6 registered by the State of Washington or a qualified technician under the direct supervision of a
7 professional engineer registered by the State of Washington.

8 4. As required by RCW 18.43 and 18.220, any documents submitted containing
9 geologic, hydrogeologic, or engineering work shall be under the seal of an appropriately licensed
10 professional.

11 5. Defendants shall notify Ecology in writing by mail or electronic mail of the
12 identity of any engineer(s) and geologist(s), contractor(s) and subcontractor(s), and other key
13 personnel to be used in carrying out the terms of this Decree, in advance of their involvement at
14 the Site.

15 IX. ACCESS

16 1. Ecology or any Ecology authorized representative shall have access to enter and
17 freely move about all property at the Site that Defendants have access rights to at all reasonable
18 times for the purposes of, *inter alia*: inspecting records, operation logs, and contracts related to
19 the work being performed pursuant to this Decree; reviewing Defendants' progress in carrying
20 out the terms of this Decree; conducting such tests or collecting such samples as Ecology may
21 deem necessary; using a camera, sound recording, or other documentary type equipment to
22 record work done pursuant to this Decree; and verifying the data submitted to Ecology by
23 Defendants.

24 2. Nothing in this Decree is intended by the Defendants to waive any right it may
25 have under applicable law to limit disclosure of documents protected by the attorney work-
26 product privilege and/or the attorney-client privilege. If Defendants withhold any requested

1 records based on an assertion of privilege, it shall provide Ecology with a privilege log specifying
2 the records withheld and the applicable privilege. No Site-related data collected pursuant to this
3 Decree shall be considered privileged.

4 3. Defendants shall make all reasonable efforts to secure access rights for those
5 properties within the Site not owned or controlled by Defendants where remedial activities or
6 investigations will be performed pursuant to this Decree.

7 4. Ecology or any Ecology authorized representative shall give reasonable notice
8 before entering any Site property owned or controlled by Defendants unless an emergency
9 prevents such notice. All Parties who access the Site pursuant to this section shall comply with
10 any applicable health and safety plan(s). Ecology employees and their representatives shall not
11 be required to sign any liability release or waiver as a condition of Site property access.

12 **X. SAMPLING, DATA SUBMITTAL, AND AVAILABILITY**

13 1. With respect to the implementation of this Decree, Defendants shall make the
14 results of all sampling, laboratory reports, and/or test results generated by it or on its behalf
15 available to Ecology by submitting data as detailed in this section. Pursuant to WAC 173-340-
16 840(5), all sampling data shall be submitted to Ecology in both printed and electronic formats in
17 accordance with paragraph 8 of Section VI (Work to be Performed), Ecology's Toxics Cleanup
18 Program Policy 840 (Data Submittal Requirements), and/or any subsequent procedures specified
19 by Ecology for data submittal.

20 2. If requested by Ecology, Defendants shall allow Ecology and/or its authorized
21 representative to take split or duplicate samples of any samples collected by Defendants pursuant
22 to the implementation of this Decree. Defendants shall notify Ecology seven (7) days in advance
23 of any sample collection or work activity at the Site. Ecology shall, upon request, allow
24 Defendants and/or its authorized representative to take split or duplicate samples of any samples
25 collected by Ecology pursuant to the implementation of this Decree, provided that doing so does
26 not interfere with Ecology's sampling. Without limitation on Ecology's rights under Section IX

1 (Access), Ecology shall notify Defendants in writing by electronic mail or hard copy prior to any
2 sample collection activity unless an emergency prevents such notice.

3 3. In accordance with WAC 173-340-830(2)(a), all hazardous substance analyses
4 shall be conducted by a laboratory accredited under WAC 173-50 for the specific analyses to be
5 conducted, unless otherwise approved by Ecology.

6 XI. ACCESS TO INFORMATION

7 1. Defendants shall provide to Ecology, upon request, copies of all records, reports,
8 documents, and other information (including records, reports, documents, and other information
9 in electronic form) (hereinafter referred to as "Records") within Defendants' possession or
10 control or that of their contractors or agents relating to activities at the Site or to the
11 implementation of this Decree, including, but not limited to, sampling, analysis, chain of custody
12 records, manifests, trucking logs, receipts, reports, sample traffic routing, correspondence, or
13 other documents or information regarding the work. Defendants shall also make available to
14 Ecology, for purposes of investigation, information gathering, or testimony, their employees,
15 agents, or representatives with knowledge of relevant facts concerning the performance of the
16 work.

17 2. Nothing in this Decree is intended to waive any right Defendants may have under
18 applicable law to limit disclosure of records protected by a privilege or confidentiality. If
19 Defendants withholds any requested Records based on an assertion of a claim of privilege or
20 confidentiality, Defendants shall provide Ecology with a privilege or confidentiality log
21 specifying the Records withheld and the applicable privilege. No Site-related data collected
22 pursuant to this Decree shall be considered privileged, including: (1) any data regarding the Site,
23 including, but not limited to, all sampling, analytical, monitoring, hydrogeologic, scientific,
24 chemical, radiological, biological, or engineering data, or the portion of any other record that
25 evidences conditions at or around the Site; or (2) the portion of any Record that Defendants are
26 required to create or generate pursuant to this Order.

1 3. Notwithstanding any provision of this Decree, Ecology retains all of its
2 information gathering and inspection authorities and rights, including enforcement actions
3 related thereto, under any other applicable statutes or regulations.

4 **XII. RETENTION OF RECORDS**

5 1. During the pendency of this Decree, and for ten (10) years from the date this
6 Decree is no longer in effect as provided in Section XXVI (Duration of Decree), Defendants
7 shall preserve all records, reports, documents, and underlying data in its possession relevant to
8 the implementation of this Decree and shall insert a similar record retention requirement into all
9 contracts with project contractors and subcontractors. Upon request of Ecology, Defendants shall
10 make all records available to Ecology and allow access for review within a reasonable time.

11 **XIII. TRANSFER OF INTEREST IN PROPERTY**

12 1. No voluntary conveyance or relinquishment of title, easement, leasehold, or other
13 interest in any portion of the Site shall be consummated without provision for continued
14 operation and maintenance of any containment system, treatment system, and/or monitoring
15 system installed or implemented pursuant to this Decree.

16 2. Prior to a transfer of any interest in the Troy Property, and during the effective
17 period of this Decree, Ponte Gadea Seattle LLC (the current owner of the Troy Property) shall
18 provide a copy of this Decree to any prospective purchaser, lessee, transferee, assignee, or other
19 successor in said interest. At least thirty (30) days prior to any transfer, Ponte Gadea Seattle LLC
20 shall notify Ecology of said transfer. Upon its transfer of any interest, Ponte Gadea Seattle LLC
21 shall notify all transferees of the restrictions on the activities and uses of the Troy Property under
22 this Decree and incorporate any such use restrictions into the transfer documents. The
23 requirements of this Section XIII are set forth in Section XIII of the separate Prospective
24 Purchaser Consent Decree for the Troy Property, filed in King County Superior Court on March
25 19, 2019 (King County Case No. 19-2-07344-6SEA).

1 **XIV. RESOLUTION OF DISPUTES**

2 1. In the event that Defendants elect to invoke dispute resolution, Defendants must
3 utilize the procedure set forth below.

4 A. Upon the triggering event (receipt of Ecology’s project coordinator’s
5 written decision or an itemized billing statement), Defendants have fourteen (14)
6 calendar days within which to notify Ecology’s project coordinator in writing of its
7 dispute (Informal Dispute Notice).

8 B. The Parties’ project coordinators shall then confer in an effort to resolve
9 the dispute informally. The parties shall informally confer for up to fourteen (14)
10 calendar days from receipt of the Informal Dispute Notice. If the project coordinators
11 cannot resolve the dispute within those 14 calendar days, then within seven (7) calendar
12 days Ecology’s project coordinator shall issue a written decision (Informal Dispute
13 Decision) stating: the nature of the dispute; the Defendant’s position with regards to the
14 dispute; Ecology’s position with regards to the dispute; and the extent of resolution
15 reached by informal discussion.

16 C. Defendants may then request regional management review of the dispute.
17 Defendants must submit this request (Formal Dispute Notice) in writing to the Northwest
18 Region Toxics Cleanup Section Manager within seven (7) calendar days of receipt of
19 Ecology’s Informal Dispute Decision. The Formal Dispute Notice shall include a written
20 statement of dispute setting forth: the nature of the dispute; the disputing Party’s position
21 with respect to the dispute; and the information relied upon to support its position.

22 D. The Section Manager shall conduct a review of the dispute and shall issue
23 a written decision regarding the dispute (Decision on Dispute) within thirty (30) calendar
24 days of receipt of the Formal Dispute Notice.

25 E. If Defendants find Ecology’s Region Section Manager’s decision of the
26 disputed matter unacceptable, Defendants may then request final management review of

1 that decision. Defendants must submit this request (Final Review Request) in writing to
2 the Toxics Cleanup Program Manager within seven (7) calendar days of Defendant's
3 receipt of the Decision on Dispute. The Final Review Request shall include a written
4 statement of dispute setting forth: the nature of the dispute; the disputing Defendant's
5 position with respect to the dispute; and the information relied upon to support its
6 position.

7 F. Ecology's Toxics Cleanup Program Manager shall conduct a review of
8 the dispute and shall issue a written decision regarding the dispute (Final Decision on
9 Dispute) within thirty (30) calendar days of receipt of the Final Review Request. The
10 Toxics Cleanup Program Manager's decision shall be Ecology's final decision on the
11 disputed matter.

12 2. If Ecology's Final Decision on Dispute is unacceptable to Defendants,
13 Defendants have the right to submit the dispute to the Court for resolution. The Parties agree that
14 one judge should retain jurisdiction over this case and shall, as necessary, resolve any dispute
15 arising under this Decree. Under RCW 70A.305.070, Ecology's investigative and remedial
16 decisions shall be upheld unless they are arbitrary and capricious.

17 3. The Parties agree to only utilize the dispute resolution process in good faith and
18 agree to expedite, to the extent possible, the dispute resolution process whenever it is used.
19 Where either party utilizes the dispute resolution process in bad faith or for purposes of delay,
20 the other party may seek sanctions.

21 4. Implementation of these dispute resolution procedures shall not provide a basis
22 for delay of any activities required in this Decree, unless Ecology agrees in writing to a schedule
23 extension or the Court so orders.

24 5. In case of a dispute, failure to either proceed with the work required by this
25 Decree or timely invoke dispute resolution may result in Ecology's determination that
26

1 insufficient progress is being made in preparation of a deliverable, and may result in Ecology
2 undertaking the work under Section XXIII (Implementation of Remedial Action).

3 **XV. AMENDMENT OF DECREE**

4 1. The Parties may agree to minor changes to the work to be performed without
5 formally amending this Decree. Minor changes will be documented in writing by Ecology.

6 2. Substantial changes to the work to be performed shall require formal amendment
7 of this Decree. This Decree may only be formally amended by a written stipulation among the
8 Parties that is entered by the Court, or by order of the Court. Ecology will provide its written
9 consent to a formal amendment only after public notice and opportunity to comment on the
10 formal amendment. Such amendment shall become effective upon entry by the Court.
11 Agreement to amend the Decree shall not be unreasonably withheld by any party.

12 3. When requesting a change to the Decree, Defendants shall submit a written
13 request to Ecology for approval. Ecology shall indicate its approval or disapproval in writing
14 and in a timely manner after the written request is received. If Ecology determines that the
15 change is substantial, then the Decree must be formally amended. Reasons for the disapproval
16 of a proposed change to this Decree shall be stated in writing. If Ecology does not agree to the
17 requested change, the disagreement may be addressed through the dispute resolution procedures
18 described in Section XIV (Resolution of Disputes).

19 **XVI. EXTENSION OF SCHEDULE**

20 1. Defendant's request for an extension of schedule shall be granted only when a
21 request for an extension is submitted in a timely fashion, generally at least thirty (30) days prior
22 to expiration of the deadline for which the extension is requested, and good cause exists for
23 granting the extension. All extensions shall be requested in writing. The request shall specify:

- 24 A. The deadline that is sought to be extended.
- 25 B. The length of the extension sought.
- 26 C. The reason(s) for the extension.

1 D. Any related deadline or schedule that would be affected if the extension
2 were granted.

3 2. The burden shall be on Defendants to demonstrate to the satisfaction of Ecology
4 that the request for such extension has been submitted in a timely fashion and that good cause
5 exists for granting the extension. Good cause may include, but may not be limited to:

6 A. Circumstances beyond the reasonable control and despite the due
7 diligence of Defendants including delays caused by unrelated third parties or Ecology,
8 such as (but not limited to) delays by Ecology in reviewing, approving, or modifying
9 documents submitted by Defendants.

10 B. A shelter in place or work stoppage mandated by state or local
11 government order due to public health and safety emergencies.

12 C. Acts of God, including fire, flood, blizzard, extreme temperatures, storm,
13 or other unavoidable casualty.

14 D. Endangerment as described in Section XVII (Endangerment).

15 3. However, neither increased costs of performance of the terms of this Decree nor
16 changed economic circumstances shall be considered circumstances beyond the reasonable
17 control of Defendants.

18 4. Ecology shall act upon any Defendant's written request for extension in a timely
19 fashion. Ecology shall give Defendants written notification of any extensions granted pursuant
20 to this Decree. A requested extension shall not be effective until approved by Ecology or, if
21 required, by the Court. Unless the extension is a substantial change, it shall not be necessary to
22 amend this Decree pursuant to Section XV (Amendment of Decree) when a schedule extension
23 is granted.

24 5. At Defendant's request an extension shall only be granted for such period of time
25 as Ecology determines is reasonable under the circumstances. Ecology may grant schedule
26 extensions exceeding ninety (90) days only as a result of one of the following:

1 A. Delays in the issuance of a necessary permit which was applied for in a
2 timely manner.

3 B. Other circumstances deemed exceptional or extraordinary by Ecology.

4 C. Endangerment as described in Section XVII (Endangerment).

5 **XVII. ENDANGERMENT**

6 1. In the event Ecology determines that any activity being performed at the Site
7 under this Decree is creating or has the potential to create a danger to human health or the
8 environment, Ecology may direct Defendants to cease such activities for such period of time as
9 it deems necessary to abate the danger. Defendants shall immediately comply with such
10 direction.

11 2. In the event Defendants determines that any activity being performed at the Site
12 under this Decree is creating or has the potential to create a danger to human health or the
13 environment, Defendants may cease such activities. Defendants shall notify Ecology's project
14 coordinator as soon as possible, but no later than twenty-four (24) hours after making such
15 determination or ceasing such activities. Upon Ecology's direction, Defendants shall provide
16 Ecology with documentation of the basis for the determination or cessation of such activities. If
17 Ecology disagrees with Defendant's cessation of activities, it may direct Defendants to resume
18 such activities.

19 3. If Ecology concurs with or orders a work stoppage pursuant to this section,
20 Defendant's obligations with respect to the ceased activities shall be suspended until Ecology
21 determines the danger is abated, and the time for performance of such activities, as well as the
22 time for any other work dependent upon such activities, shall be extended, in accordance with
23 Section XVI (Extension of Schedule), for such period of time as Ecology determines is
24 reasonable under the circumstances.

25 4. Nothing in this Decree shall limit the authority of Ecology, its employees, agents,
26 or contractors to take or require appropriate action in the event of an emergency.

1 **XVIII. COVENANT NOT TO SUE**

2 1. Covenant Not to Sue: In consideration of Defendant’s compliance with the terms
3 and conditions of this Decree, Ecology covenants not to institute legal or administrative actions
4 against Defendants regarding the release or threatened release of hazardous substances at the
5 Site, as described in Section V of the Findings of Fact and as described in the CAP (Exhibit B).
6 This Covenant Not to Sue does not cover any other hazardous substance(s) or area. Ecology
7 retains all of its authority relative to any hazardous substance(s) or area not covered by this
8 Decree.

9 This Covenant Not to Sue shall have no applicability whatsoever to:

- 10 A. Criminal liability.
11 B. Liability for damages to natural resources.
12 C. Any Ecology action, including cost recovery, against PLPs not a party to
13 this Decree.

14 2. Pursuant to RCW 70A.305.040(4)(c), the Court shall amend this Covenant Not
15 to Sue if factors not known at the time of entry of this Decree are discovered and present a
16 previously unknown threat to human health or the environment.

17 3. Reopeners: Ecology specifically reserves the right to institute legal or
18 administrative action against Defendants to require it to perform additional remedial actions at
19 the Site and to pursue appropriate cost recovery, pursuant to RCW 70A.305.050, under any of
20 the following circumstances:

- 21 A. Upon Defendant’s failure to meet the requirements of this Decree.
22 B. Failure of the remedial action to meet the cleanup standards identified in
23 the CAP (Exhibit B).
24 C. Upon Ecology’s determination that remedial action beyond the terms of
25 this Decree is necessary to abate an imminent and substantial endangerment to human
26 health or the environment.

1 D. Upon the availability of information previously unknown to Ecology
2 regarding Site factors including the nature, quantity, migration, pathway, or mobility of
3 hazardous substances, and Ecology's determination, in light of this information, that
4 further remedial action is necessary at the Site to protect human health or the
5 environment.

6 E. Upon Ecology's determination that additional remedial actions are
7 necessary to achieve cleanup standards within the reasonable restoration time frame set
8 forth in the CAP.

9 4. Except in the case of an emergency, prior to instituting legal or administrative
10 action against Defendants pursuant to this section, Ecology shall provide Defendants with fifteen
11 (15) calendar days' notice of such action.

12 **XIX. CONTRIBUTION PROTECTION**

13 1. With regard to claims for contribution against Defendants, the Parties agree that
14 Defendants are entitled to protection against claims for contribution for matters addressed in this
15 Decree as provided by RCW 70A.305.040(4)(d).

16 **XX. INDEMNIFICATION**

17 1. Defendants agree to indemnify and save and hold the State of Washington, its
18 employees, and agents harmless from any and all claims or causes of action (1) for death or
19 injuries to persons, or (2) for loss or damage to property to the extent arising from or on account
20 of acts or omissions of Defendants, its officers, employees, agents, or contractors in entering into
21 and implementing this Decree. However, Defendants shall not indemnify the State of
22 Washington nor save nor hold its employees and agents harmless from any claims or causes of
23 action to the extent arising out of the negligent acts or omissions of the State of Washington, or
24 the employees or agents of the State of Washington, in entering into or implementing this Decree.

XXI. COMPLIANCE WITH APPLICABLE LAWS

1
2 1. *Applicable Law.* All actions carried out by Defendants pursuant to this Decree
3 shall be done in accordance with all applicable federal, state, and local requirements, including
4 requirements to obtain necessary permits, except as provided in RCW 70A.305.090. The permits
5 or specific federal, state, or local requirements that the agency has determined are applicable and
6 that are known at the time of the execution of this Decree have been identified in Exhibit B.
7 Defendants have a continuing obligation to identify additional applicable federal, state, and local
8 requirements which apply to actions carried out pursuant to this Decree, and to comply with
9 those requirements. As additional federal, state, and local requirements are identified by Ecology
10 or the Defendants, Ecology will document in writing if they are applicable to actions carried out
11 pursuant to this Decree, and the Defendants must implement those requirements.

12 2. *Relevant and Appropriate Requirements.* All actions carried out by Defendants
13 pursuant to this Decree shall be done in accordance with relevant and appropriate requirements
14 identified by Ecology. The relevant and appropriate requirements that Ecology has determined
15 apply have been identified in Exhibit B. If additional relevant and appropriate requirements are
16 identified by Ecology or the Defendants, Ecology will document in writing if they are applicable
17 to actions carried out pursuant to this Decree and the Defendants must implement those
18 requirements.

19 3. Pursuant to RCW 70A.305.090(1), Defendants may be exempt from the
20 procedural requirements of RCW 70A.15, 70A.205, 70A.300, 77.55, 90.48, and 90.58 and of
21 any laws requiring or authorizing local government permits or approvals. However, Defendants
22 shall comply with the substantive requirements of such permits or approvals. For permits and
23 approvals covered under RCW 70A.305.090(1) that have been issued by local government, the
24 Parties agree that Ecology has the non-exclusive ability under this Decree to enforce those local
25 government permits and/or approvals. At this time, no state or local permits or approvals have
26 been identified as being applicable but procedurally exempt under this section.

1 4. Defendants have a continuing obligation to determine whether additional permits
2 or approvals addressed in RCW 70A.305.090(1) would otherwise be required for the remedial
3 action under this Decree. In the event either Ecology or Defendants determine that additional
4 permits or approvals addressed in RCW 70A.305.090(1) would otherwise be required for the
5 remedial action under this Decree, it shall promptly notify the other party of its determination.
6 Ecology shall determine whether Ecology or Defendants shall be responsible to contact the
7 appropriate state and/or local agencies. If Ecology so requires, Defendants shall promptly consult
8 with the appropriate state and/or local agencies and provide Ecology with written documentation
9 from those agencies of the substantive requirements those agencies believe are applicable to the
10 remedial action. Ecology shall make the final determination on the additional substantive
11 requirements that must be met by Defendants and on how Defendants must meet those
12 requirements. Ecology shall inform Defendants in writing of these requirements. Once
13 established by Ecology, the additional requirements shall be enforceable requirements of this
14 Decree. Defendants shall not begin or continue the remedial action potentially subject to the
15 additional requirements until Ecology makes its final determination.

16 5. Pursuant to RCW 70A.305.090(2), in the event Ecology determines that the
17 exemption from complying with the procedural requirements of the laws referenced in
18 RCW 70A.305.090(1) would result in the loss of approval from a federal agency that is necessary
19 for the state to administer any federal law, the exemption shall not apply and Defendants shall
20 comply with both the procedural and substantive requirements of the laws referenced in
21 RCW 70A.305.090(1), including any requirements to obtain permits or approvals.

22 **XXII. REMEDIAL ACTION COSTS**

23 1. Defendants shall pay Ecology costs incurred by Ecology pursuant to this Decree
24 and consistent with WAC 173-340-550(2). These costs shall include work performed by Ecology
25 or its contractors for, or on, the Site under RCW 70A.305, including remedial actions and Decree
26 preparation, negotiation, oversight, and administration. These costs shall include work

1 performed both prior to and after the entry of this Decree. Ecology's costs shall include costs of
2 direct activities and support costs of direct activities as defined in WAC 173-340-550(2). For all
3 costs incurred, Defendants shall pay the required amount within thirty (30) days of receiving
4 from Ecology an itemized statement of costs that includes a summary of costs incurred, an
5 identification of involved staff, and the amount of time spent by involved staff members on the
6 project. A general statement of work performed will be provided upon request. Itemized
7 statements shall be prepared annually. Pursuant to WAC 173-340-550(4), failure to pay
8 Ecology's costs within ninety (90) days of receipt of the itemized statement of costs will result
9 in interest charges at the rate of twelve percent (12%) per annum, compounded monthly.

10 2. In addition to other available relief, pursuant to RCW 19.16.500, Ecology may
11 utilize a collection agency and/or, pursuant to RCW 70A.305.060, file a lien against real property
12 subject to the remedial actions to recover unreimbursed remedial action costs.

13 **XXIII. IMPLEMENTATION OF REMEDIAL ACTION**

14 1. If Ecology determines that the Defendants have failed to make sufficient progress
15 or failed to implement the remedial action, in whole or in part, Ecology may, after written notice
16 to Defendants, perform any or all portions of the remedial action or at Ecology's discretion allow
17 the Defendants opportunity to correct. In an emergency, Ecology is not required to provide
18 written notice to Defendants, or an opportunity for dispute resolution. The Defendants shall
19 reimburse Ecology for the costs of doing such work in accordance with Section XXII (Remedial
20 Action Costs).

21 2. Except where necessary to abate an emergency or where required by law, the
22 Defendants shall not perform any remedial actions at the Site outside those remedial actions
23 required by this Decree to address the contamination that is the subject of this Decree, unless
24 Ecology concurs, in writing, with such additional remedial actions pursuant to Section XV
25 (Amendment of Decree). In the event of an emergency, or where actions are taken as required
26 by law, Defendants must notify Ecology in writing of the event and remedial action(s) planned

1 or taken as soon as practical but no later than within twenty-four (24) hours of the discovery of
2 the event.

3 **XXIV. PERIODIC REVIEW**

4 1. So long as remedial action continues at the Site, the Parties agree to review the
5 progress of remedial action at the Site, and to review the data accumulated as a result of
6 monitoring at the Site as often as is necessary and appropriate under the circumstances. Unless
7 otherwise agreed to by Ecology, at least every five (5) years after the initiation of cleanup action
8 at the Site the Parties shall confer regarding the status of the Site and the need, if any, for further
9 remedial action at the Site. At least ninety (90) days prior to each periodic review, Defendants
10 shall submit a report to Ecology that documents whether human health and the environment are
11 being protected based on the factors set forth in WAC 173-340-420(4). Under Section XVIII
12 (Covenant Not to Sue), Ecology reserves the right to require further remedial action at the Site
13 under appropriate circumstances. This provision shall remain in effect for the duration of this
14 Decree.

15 **XXV. PUBLIC PARTICIPATION**

16 1. Ecology shall maintain the responsibility for public participation at the Site.
17 However, Defendants shall cooperate with Ecology, and shall:

18 A. If agreed to by Ecology, develop appropriate mailing lists, prepare drafts
19 of public notices and fact sheets at important stages of the remedial action, such as the
20 submission of work plans, remedial investigation/feasibility study reports, cleanup action
21 plans, and engineering design reports. As appropriate, Ecology will edit, finalize, and
22 distribute such fact sheets and prepare and distribute public notices of Ecology's
23 presentations and meetings.

24 B. Notify Ecology's project coordinator prior to the preparation of all press
25 releases and fact sheets, and before meetings related to remedial action work to be
26 performed at the Site with the interested public and/or local governments. Likewise,

1 Ecology shall notify Defendants prior to the issuance of all press releases and fact sheets
2 related to remedial action work to be performed at the Site, and before meetings related
3 to remedial action work to be performed at the Site with the interested public and/or local
4 governments. For all press releases, fact sheets, meetings, and other outreach efforts by
5 Defendants that do not receive prior Ecology approval, Defendants shall clearly indicate
6 to its audience that the press release, fact sheet, meeting, or other outreach effort was not
7 sponsored or endorsed by Ecology.

8 C. When requested by Ecology, participate in public presentations on the
9 progress of the remedial action at the Site. Participation may be through attendance at
10 public meetings to assist in answering questions, or as a presenter.

11 D. When requested by Ecology, arrange and/or continue information
12 repositories at the following location:

- 13 i. Seattle Public Library
14 Central Library
15 1000 4th Avenue
16 Seattle, WA 98104

17 At a minimum, copies of all public notices, fact sheets, and documents relating to public
18 comment periods shall be promptly placed in this repository. A copy of all documents
19 related to this Site shall be maintained at Ecology's Northwest Region Office in
20 Shoreline, Washington.

21 **XXVI. DURATION OF DECREE**

22 1. The remedial process required pursuant to this Decree shall be maintained and
23 continued until Defendants have received written notification from Ecology that the
24 requirements of this Decree have been satisfactorily completed. This Decree shall remain in
25 effect until dismissed by the Court. When dismissed, Section XII (Retention of Records),
26 Section XVIII (Covenant Not to Sue), Section XIX (Contribution Protection), Section XX
(Indemnification), and Section XXVII (Claims Against the State) shall survive.

1 **XXVII. CLAIMS AGAINST THE STATE**

2 1. Defendants hereby agrees that it will not seek to recover any costs accrued in
3 implementing the remedial action required by this Decree from the State of Washington or any
4 of its agencies; and further, that Defendants will make no claim against the State Toxics Control
5 Account, the Local Toxics Control Account, the Environmental Legacy Stewardship Account,
6 or a MTCA Cleanup Settlement Account for any costs incurred in implementing this Decree.
7 Except as provided above, however, Defendants expressly reserves its right to seek to recover
8 any costs incurred in implementing this Decree from any other PLP. This section does not limit
9 or address funding that may be provided under WAC 173-322A.

10 **XXVIII. EFFECTIVE DATE**

11 1. This Decree is effective upon the date it is entered by the Court.

12 **XXIX. WITHDRAWAL OF CONSENT**

13 1. If the Court withholds or withdraws its consent to this Decree, it shall be null and
14 void at the option of any party and the accompanying Complaint shall be dismissed without costs
15 and without prejudice. In such an event, no party shall be bound by the requirements of this
16 Decree.

17
18 STATE OF WASHINGTON
19 DEPARTMENT OF ECOLOGY

NICHOLAS W. BROWN
Attorney General

20 _____
21 Nhi Irwin
22 Program Manager
23 Toxics Cleanup Program
24 360-791-5514

John A. Level, WSBA #20439
Assistant Attorney General
360-586-6753

25 Date: _____

Date: _____

1 TOUCHSTONE SLU LLC
a Washington limited liability company

2
3 _____
4 James D. O'Hanlon
5 Manager
6 Seattle, Washington

7 Date: _____

8 TB TS/RELP LLC,
a Washington limited liability company

9 By: US RELP TB, LLC,
a Delaware limited liability company
10 Its Manager

11 By: US Real Estate Limited Partnership,
a Texas limited partnership
12 Its Sole Member

13 By: USAA Real Estate Company,
a Delaware corporation
14 Its General Partner

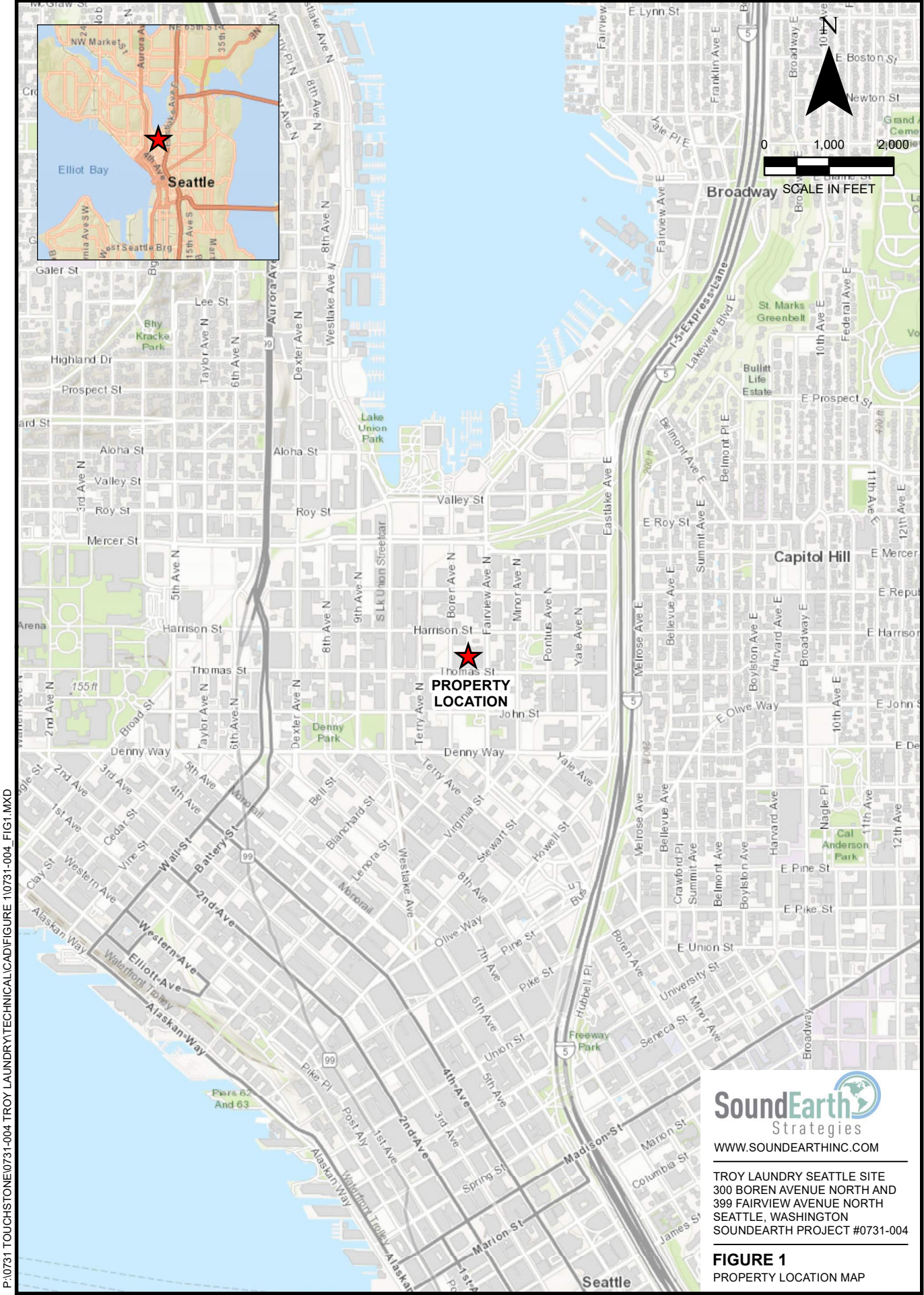
15 _____
16 Dirk P.D. Mosis III
17 Executive Managing Director
210-641-8413

18 Date: _____

1 ENTERED this ____ day of _____ 2026.

2
3 _____
4 JUDGE
5 King County Superior Court
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Exhibit A

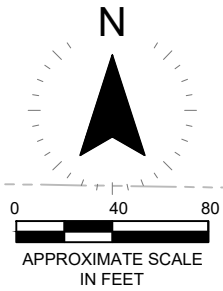


P:\0731 TOUCHSTONE\0731-004 TROY LAUNDRY\TECHNICAL\FIGURE 1\0731-004_FIG1.MXD

SoundEarth
Strategies
WWW.SOUNDEARTHINC.COM

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

FIGURE 1
PROPERTY LOCATION MAP



TERRY AVENUE NORTH

FAIRVIEW AVENUE NORTH

HARRISON STREET

THOMAS STREET

HISTORICAL BUILDING FACADE

HISTORICAL BUILDING FACADE

BRAVEHORSE TAVERN











AMAZON BUILDING

SOUTH LAKE UNION HOTEL LLC

TROY LAUNDRY PROPERTY

FORMER SEATTLE TIMES SITE

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
-  SITE BOUNDARY



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

FIGURE 2
SITE BOUNDARY

Exhibit B



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

January 2026

Publication Information

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

Contact Information

Toxics Cleanup Program

Northwest Region Office
P.O. Box 330316
Shoreline, WA 98133-9716
Phone: 206-594-0000

Website: <https://ecology.wa.gov/contact>

Sunny Becker, Site Manager
Phone: 425-457-3842
Email: sunny.becker@ecy.wa.gov

Augie Nuszer
Public Involvement Coordinator
Phone: 425-533-5537
Email: augie.nuszer@ecy.wa.gov

ADA Accessibility

The Department of Ecology is committed to providing people with disabilities access to information and services by meeting or exceeding the requirements of the Americans with Disabilities Act (ADA), Section 504 and 508 of the Rehabilitation Act, and Washington State Policy #188. To request an ADA accommodation, contact Ecology by phone at 360-407-6831 or email at ecyadacoordinator@ecy.wa.gov. For Washington Relay Service or TTY call 711 or 877-

Draft Cleanup Action Plan Troy Laundry Seattle Site

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

Toxics Cleanup Program
Washington State Department of Ecology
Northwest Region Office
Shoreline, WA

January 2026



DEPARTMENT OF
ECOLOGY
State of Washington

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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	<i>Final Feasibility Study Report, 300 Boren Avenue North and 399 Fairview Avenue North, Seattle WA. Prepared by SoundEarth Dated March 26, 2026</i>
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.

¹As 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)	<i>Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action</i> , 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

RCW = Revised Code of Washington

KCC = King County Code

USC = United States Code

MTCA = Model Toxics Control Act

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 Elliott 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 <i>Guidance for Evaluating Vapor Intrusion in Washington State: Investigation and Remedial Action</i> 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 \geq 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

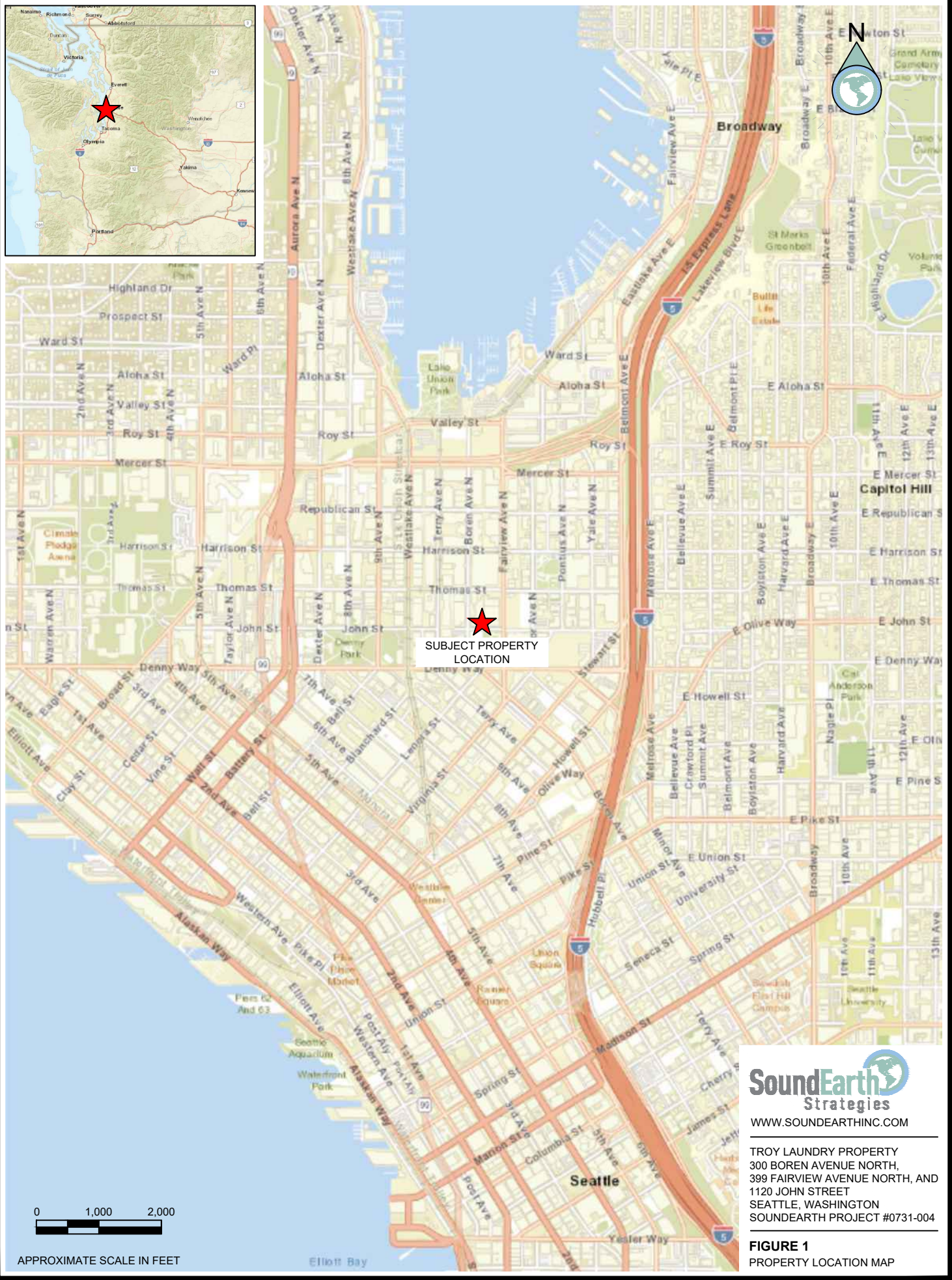
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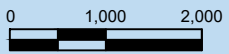
_____. 2019. Letter regarding "Vapor Intrusion Assessment at Troy Laundry, Seattle, Washington." From Sunny Becker. To Paul Klansnic, TB TS/RELP LLC. July 8.

_____. 2022. Memorandum regarding "Air, soil gas, and groundwater remediation levels for vapor intrusion in commercial and excavation scenarios." From Priscilla Tomlinson. To South Lake Union Group. July 18.

Figures



**SUBJECT PROPERTY
LOCATION**



APPROXIMATE SCALE IN FEET

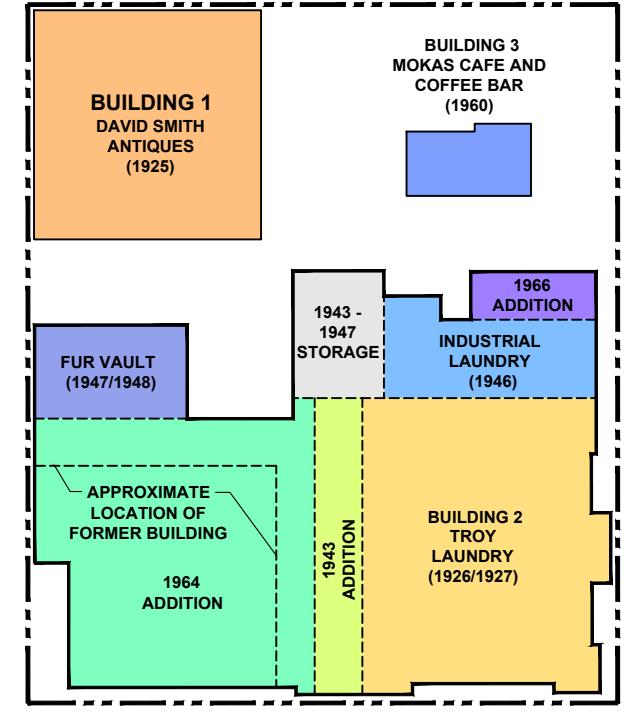
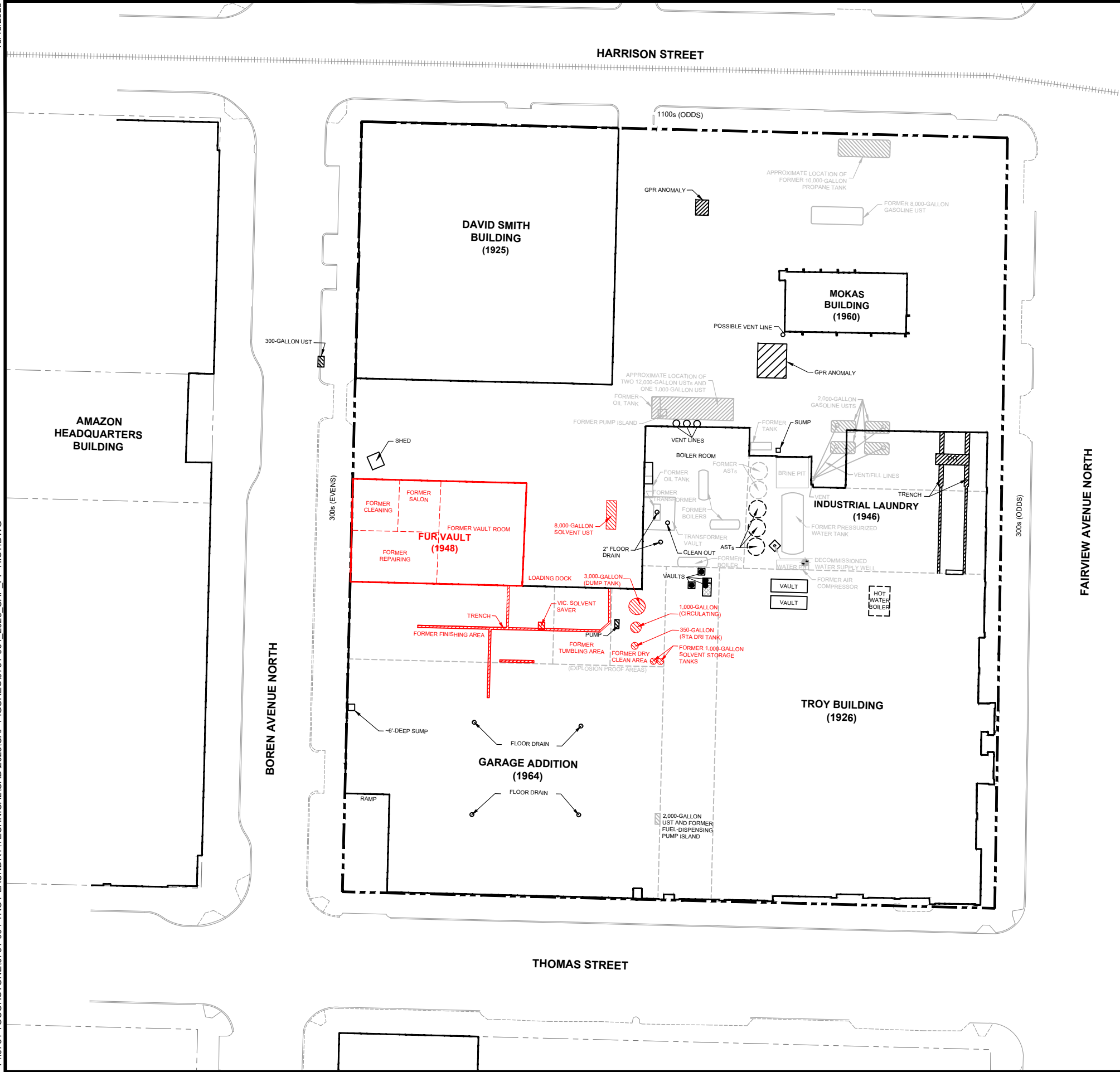


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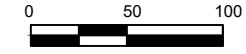
TROY LAUNDRY PROPERTY
300 BOREN AVENUE NORTH,
399 FAIRVIEW AVENUE NORTH, AND
1120 JOHN STREET
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #0731-004

FIGURE 1
PROPERTY LOCATION MAP

10/15/2025
P:\0731 TOUCHSTONE\0731-004 TROY LAUNDRY\TECHNICAL\CAD\2025\CAP FIGURES\0731-004_2025_CAP_PP-HIST.DWG

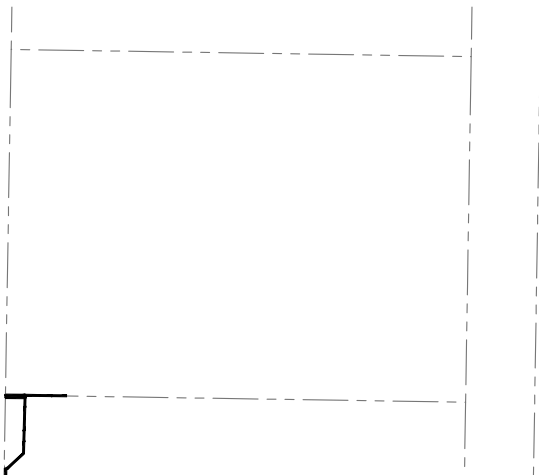


TROY LAUNDRY PROPERTY CONSTRUCTION SEQUENCE



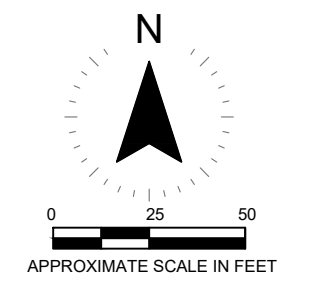
FAIRVIEW AVENUE NORTH

BOREN AVENUE NORTH



LEGEND

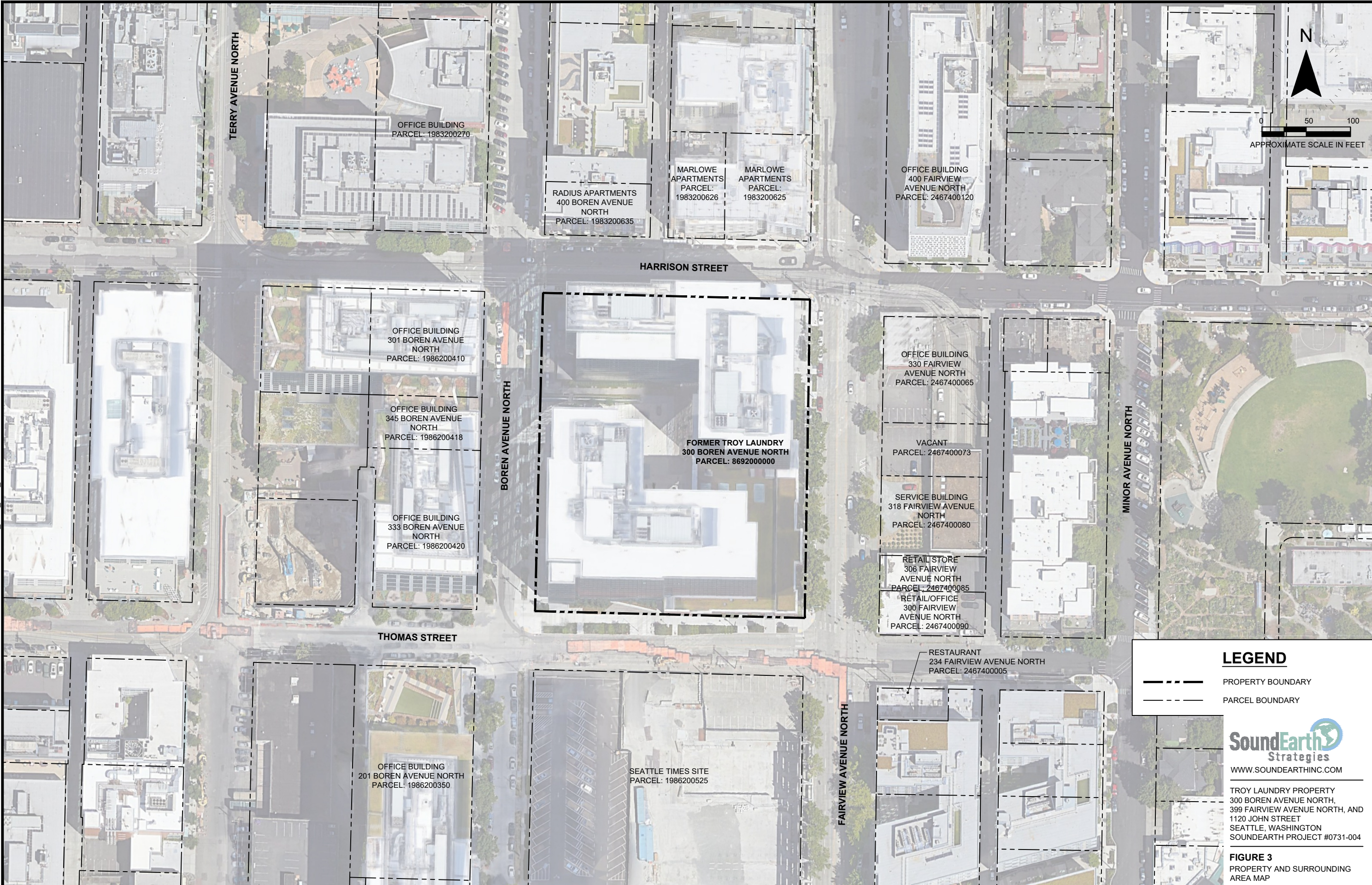
-----	PROPERTY BOUNDARY
-----	PARCEL BOUNDARY
●	VAULT ACCESS
-----	PROPERTY FEATURES
-----	FORMER PROPERTY FEATURES
	SOUTH LAKE UNION STREETCAR LINE
UST	UNDERGROUND STORAGE TANK
AST	ABOVEGROUND STORAGE TANK
GPR	GROUND-PENETRATING RADAR
RED	SOLVENT SOURCE AREAS



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FIGURE 2
HISTORICAL PROPERTY PLAN



APPROXIMATE SCALE IN FEET

LEGEND

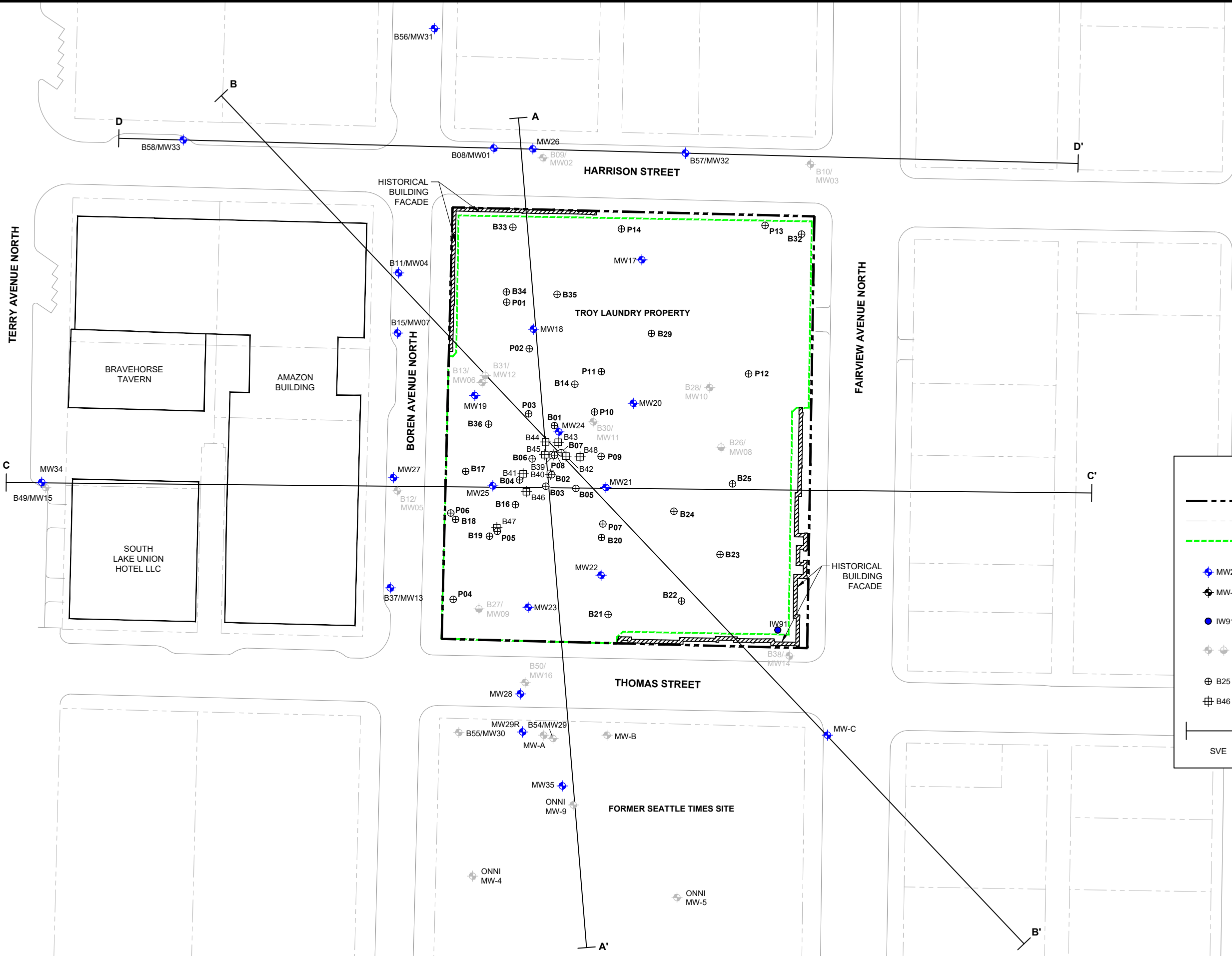
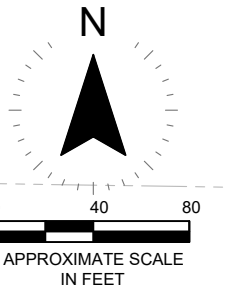
- PROPERTY BOUNDARY
- PARCEL BOUNDARY



TROY LAUNDRY PROPERTY
300 BOREN AVENUE NORTH,
399 FAIRVIEW AVENUE NORTH, AND
1120 JOHN STREET
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FIGURE 3
PROPERTY AND SURROUNDING
AREA MAP

10/15/2025
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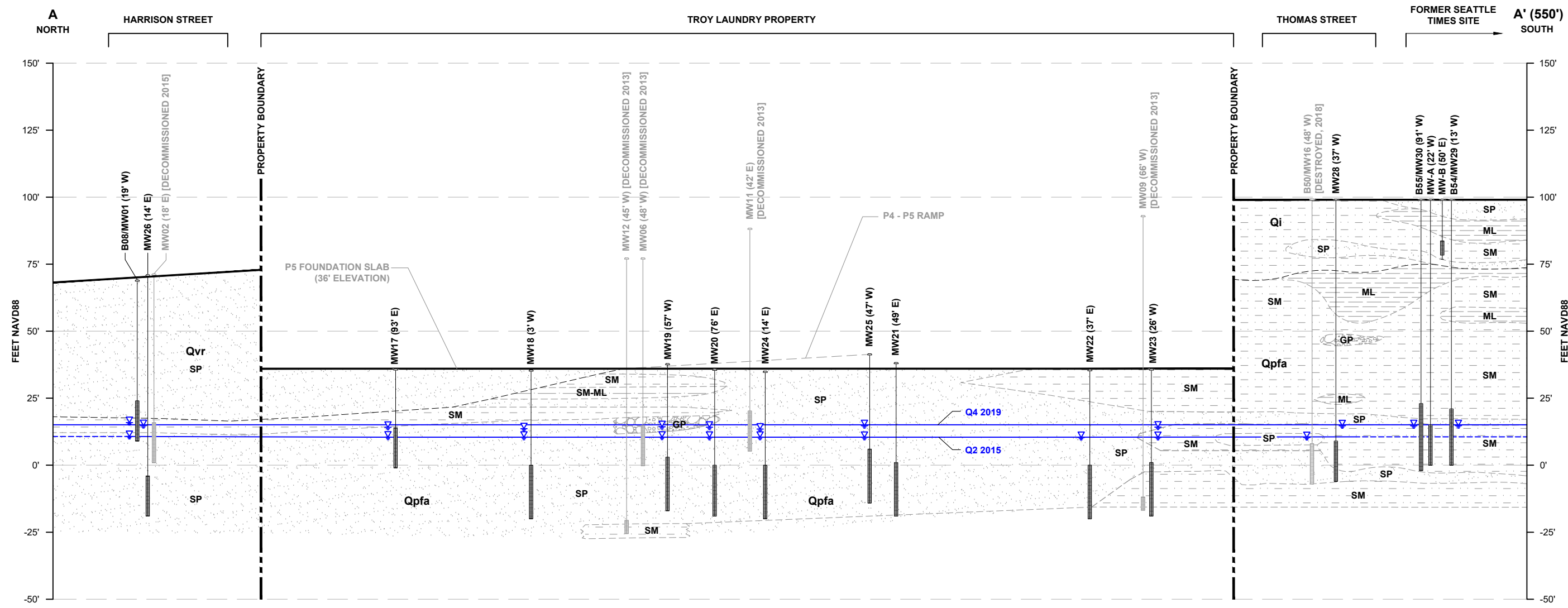
LEGEND	
	PROPERTY BOUNDARY
	PARCEL BOUNDARY
	REDEVELOPMENT EXCAVATION AREA
	MONITORING WELL
	MONITORING WELL (ENVIRONMENTAL PARTNERS INC)
	INJECTION WELL CONVERTED TO MONITORING WELL
	DECOMMISSIONED/DESTROYED MONITORING WELL
	SOIL BORING
	POST-SVE CONFIRMATIONAL SOIL BORING
	CROSS SECTION LOCATION
	SVE



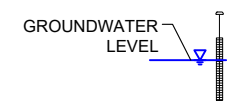
TROY LAUNDRY PROPERTY
300 BOREN AVENUE NORTH,
399 FAIRVIEW AVENUE NORTH, AND
1120 JOHN STREET
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #0731-004


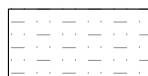



FIGURE 4
REMEDIAL INVESTIGATION
EXPLORATION LOCATION MAP

10/15/2025 P:\0731 TOUCHSTONE\0731-004 TROY LAUNDRY\TECHNICAL\CAD\2025\CAP FIGURES\0731-004_2025_CAP_SCTN-AA-BB.DWG



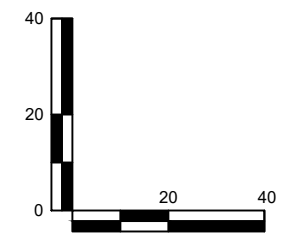
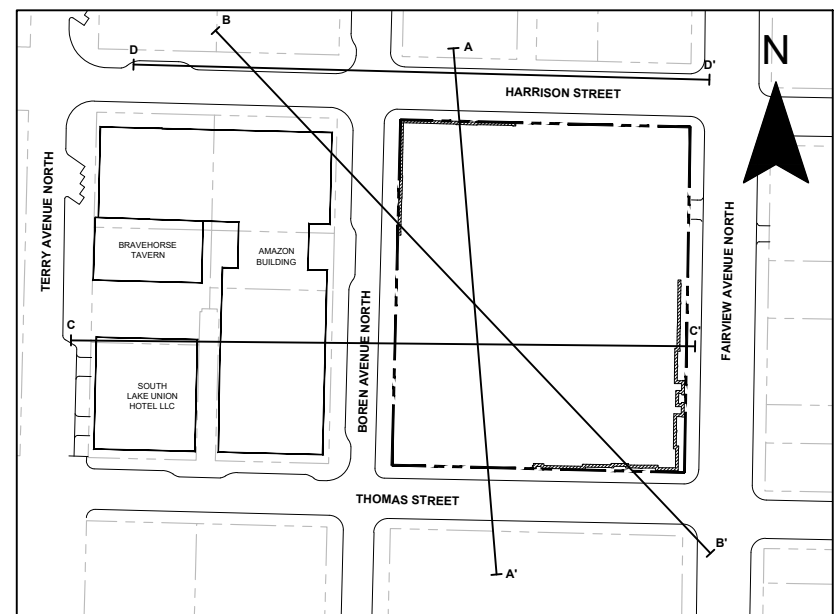
LEGEND



-  **SP** POORLY GRADED SAND
-  **SM** SILTY SAND
-  **ML** SILT
-  **SM-ML** SILTY SAND AND SILT
-  **GP** POORLY GRADED GRAVEL

- Qvr** VASHON RECESSONAL 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

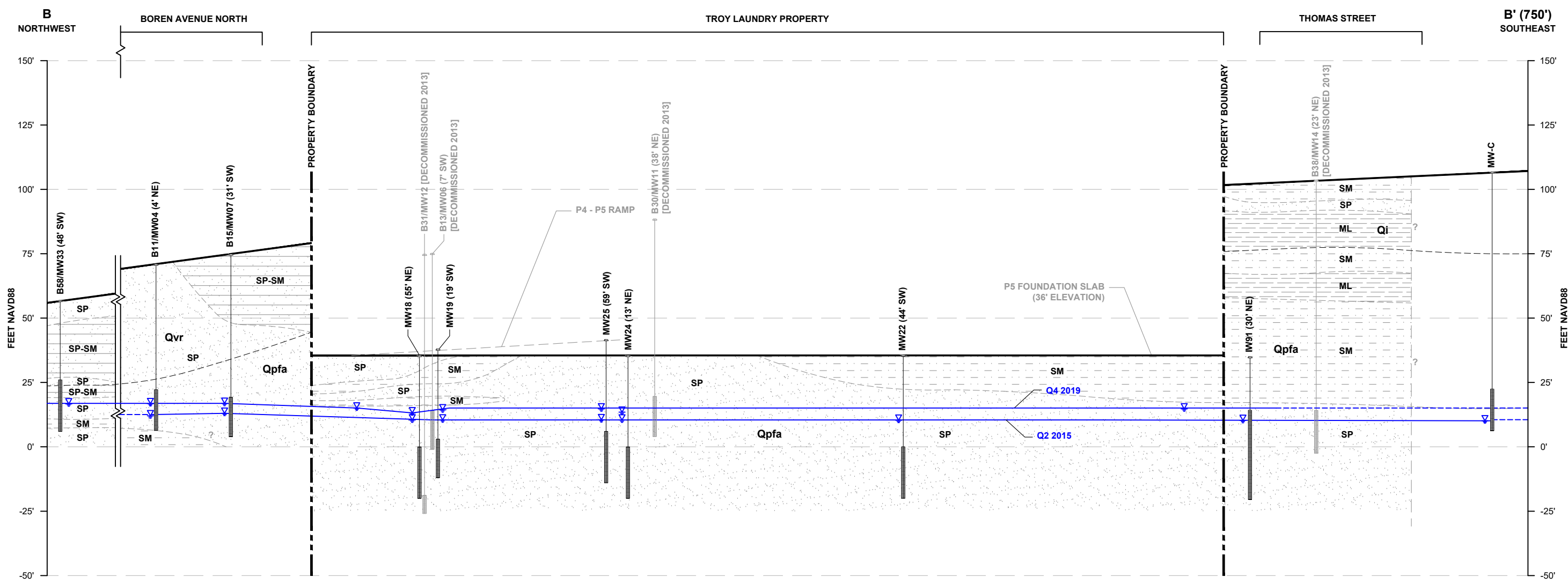


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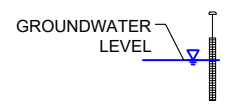
TROY LAUNDRY PROPERTY
300 BOREN AVENUE NORTH,
399 FAIRVIEW AVENUE NORTH, AND
1120 JOHN STREET
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #0731-004

FIGURE 5
CROSS SECTION A-A'

10/15/2025 P:\0731 TOUCHSTONE\0731-004 TROY LAUNDRY\TECHNICAL\CAD\2025\CAP FIGURES\0731-004_2025_CAP_SCTN-AA-BB.DWG



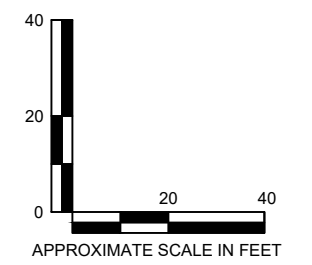
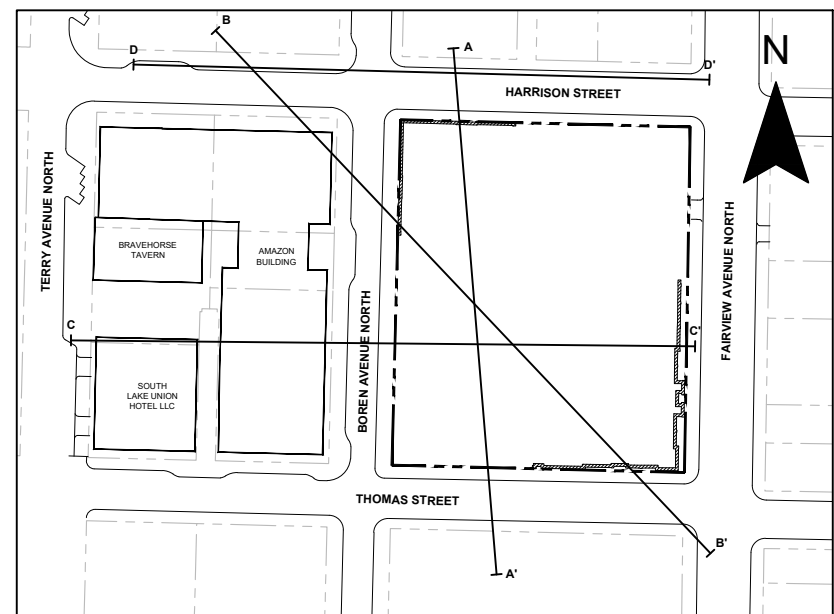
LEGEND



- SP** POORLY GRADED SAND
- SM** SILTY SAND
- ML** SILT
- SP-SM** POORLY GRADED SAND AND SILTY SAND

- Qvr** VASHON RECESSONAL 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

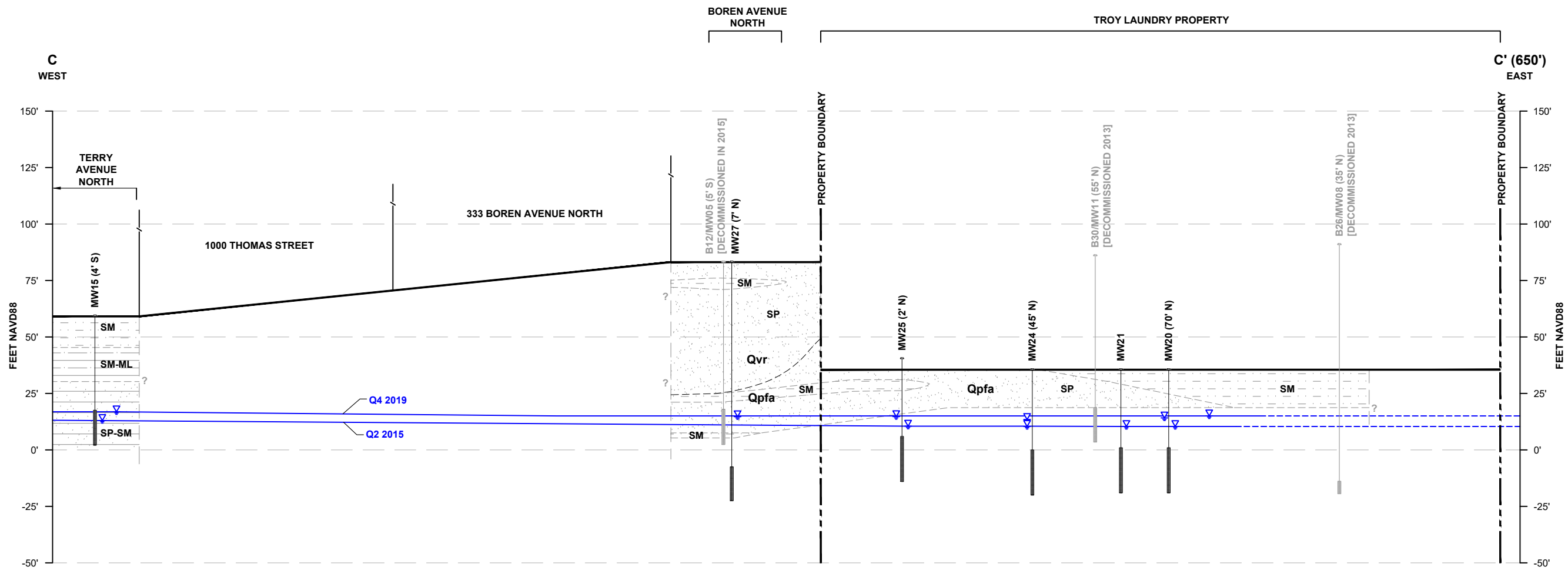


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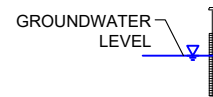
TROY LAUNDRY PROPERTY
300 BOREN AVENUE NORTH,
399 FAIRVIEW AVENUE NORTH, AND
1120 JOHN STREET
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #0731-004

FIGURE 6
CROSS SECTION B-B'

3.81/2025
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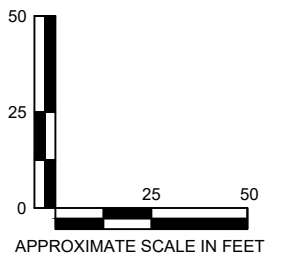
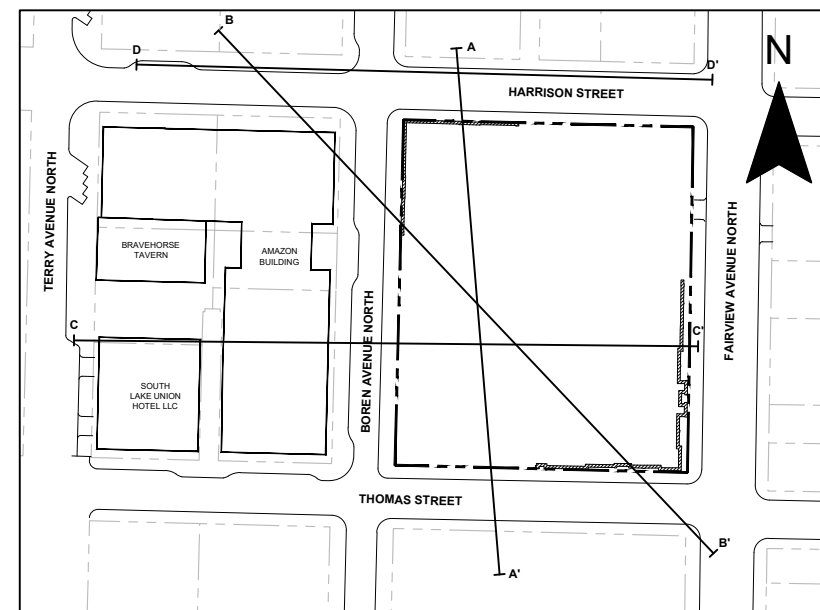
LEGEND



- SP**
POORLY GRADED SAND
- SM**
SILTY SAND
- SP-SM**
POORLY GRADED SAND AND SILTY SAND
- SM-ML**
SILTY SAND AND SILT

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

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

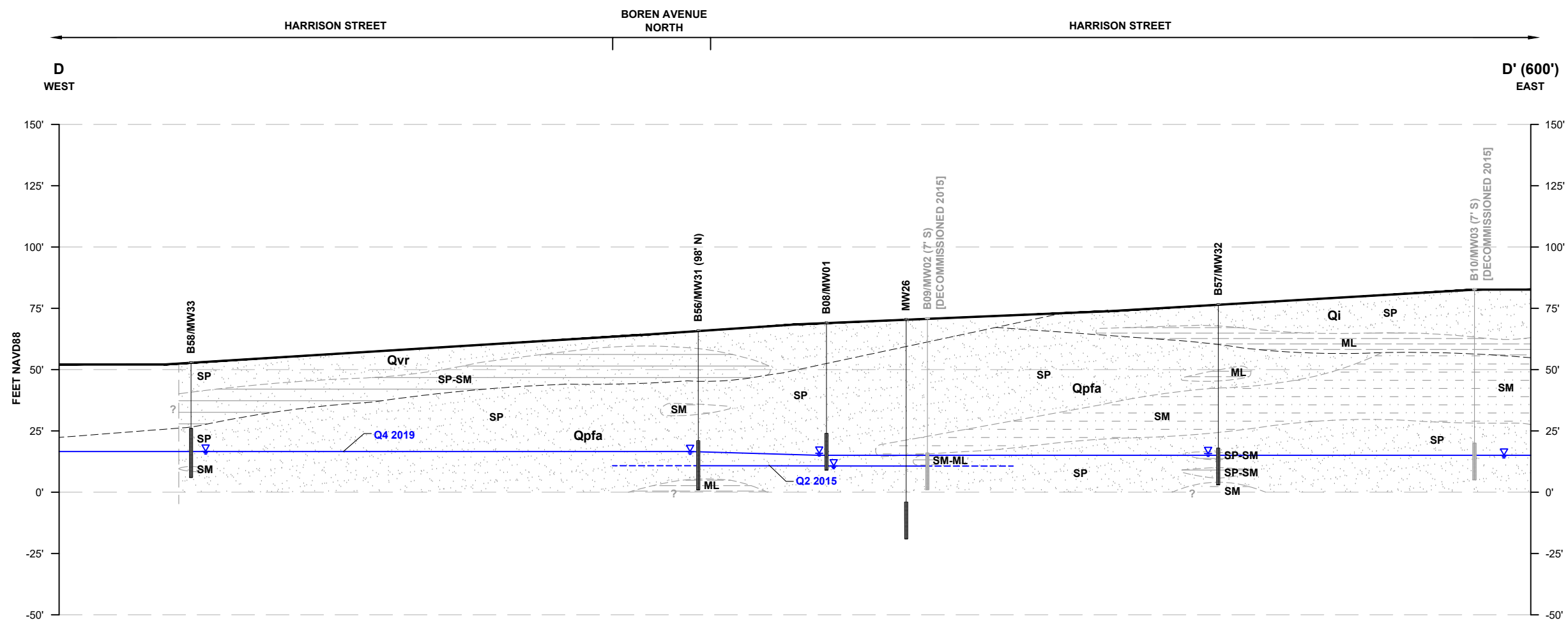


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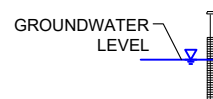
TROY LAUNDRY PROPERTY
300 BOREN AVENUE NORTH,
399 FAIRVIEW AVENUE NORTH, AND
1120 JOHN STREET
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FIGURE 7
CROSS SECTION C-C'

3.81/2025
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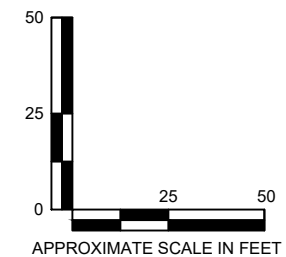
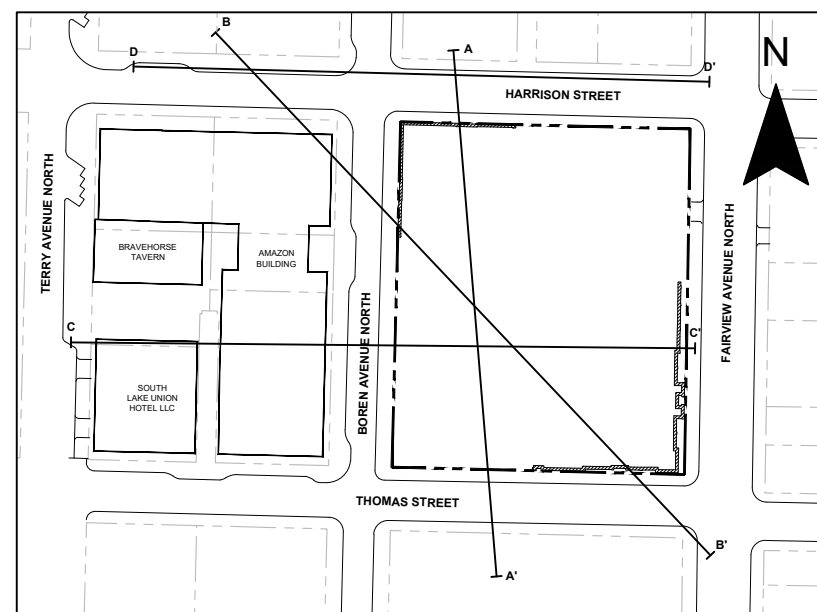
LEGEND



- SP**
POORLY GRADED SAND
- SM**
SILTY SAND
- ML**
SILT
- SP-SM**
POORLY GRADED SAND AND SILTY SAND
- SM-ML**
SILTY SAND AND SILT

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

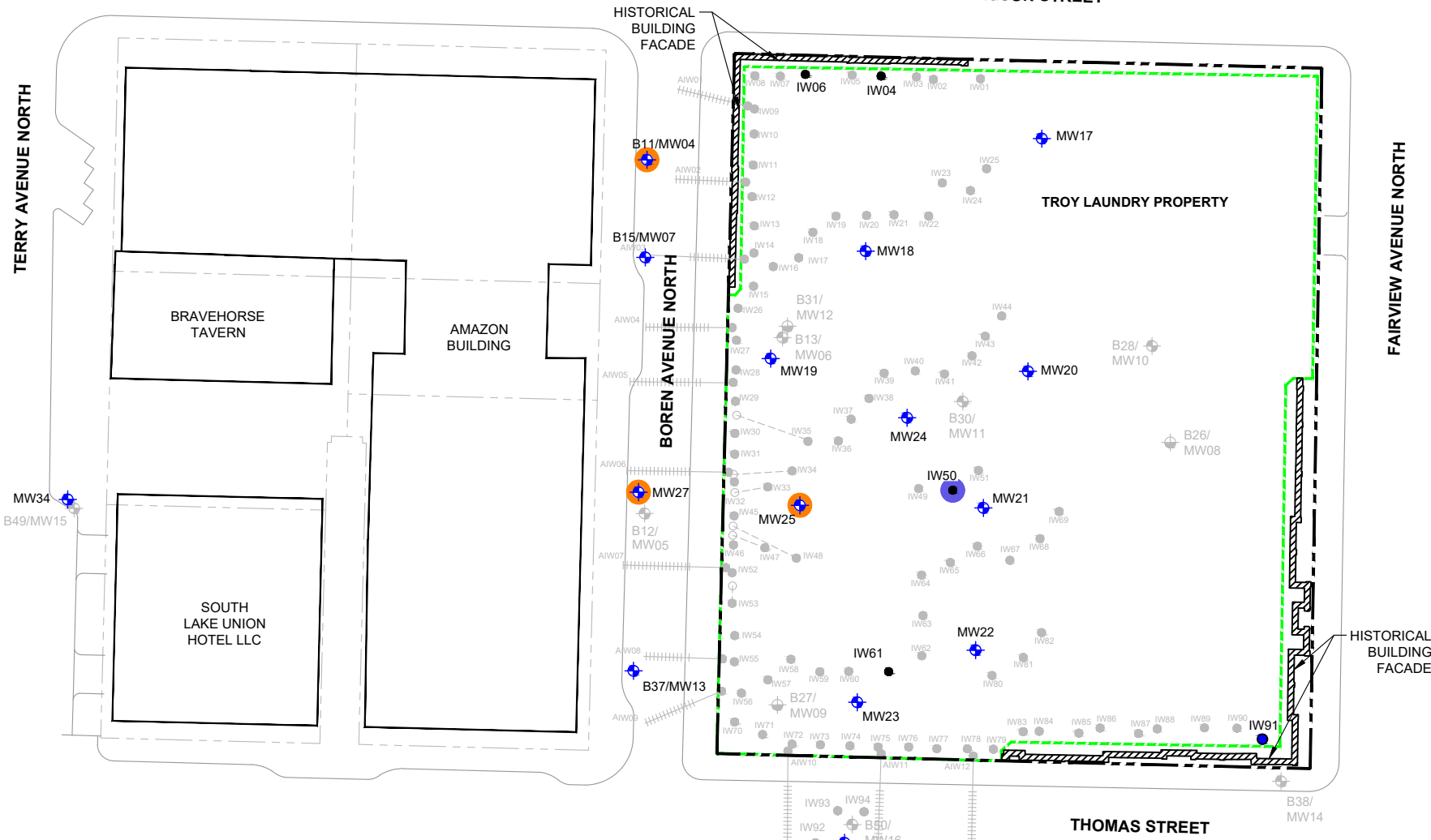
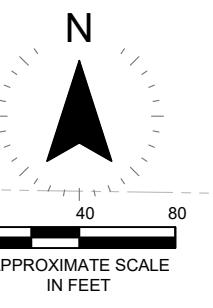
NOTE:
SOIL TYPES BASED ON UNIFIED SOIL CLASSIFICATION SYSTEM VISUAL ASSESSMENT



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300 BOREN AVENUE NORTH,
399 FAIRVIEW AVENUE NORTH, AND
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FIGURE 8
CROSS SECTION D-D'



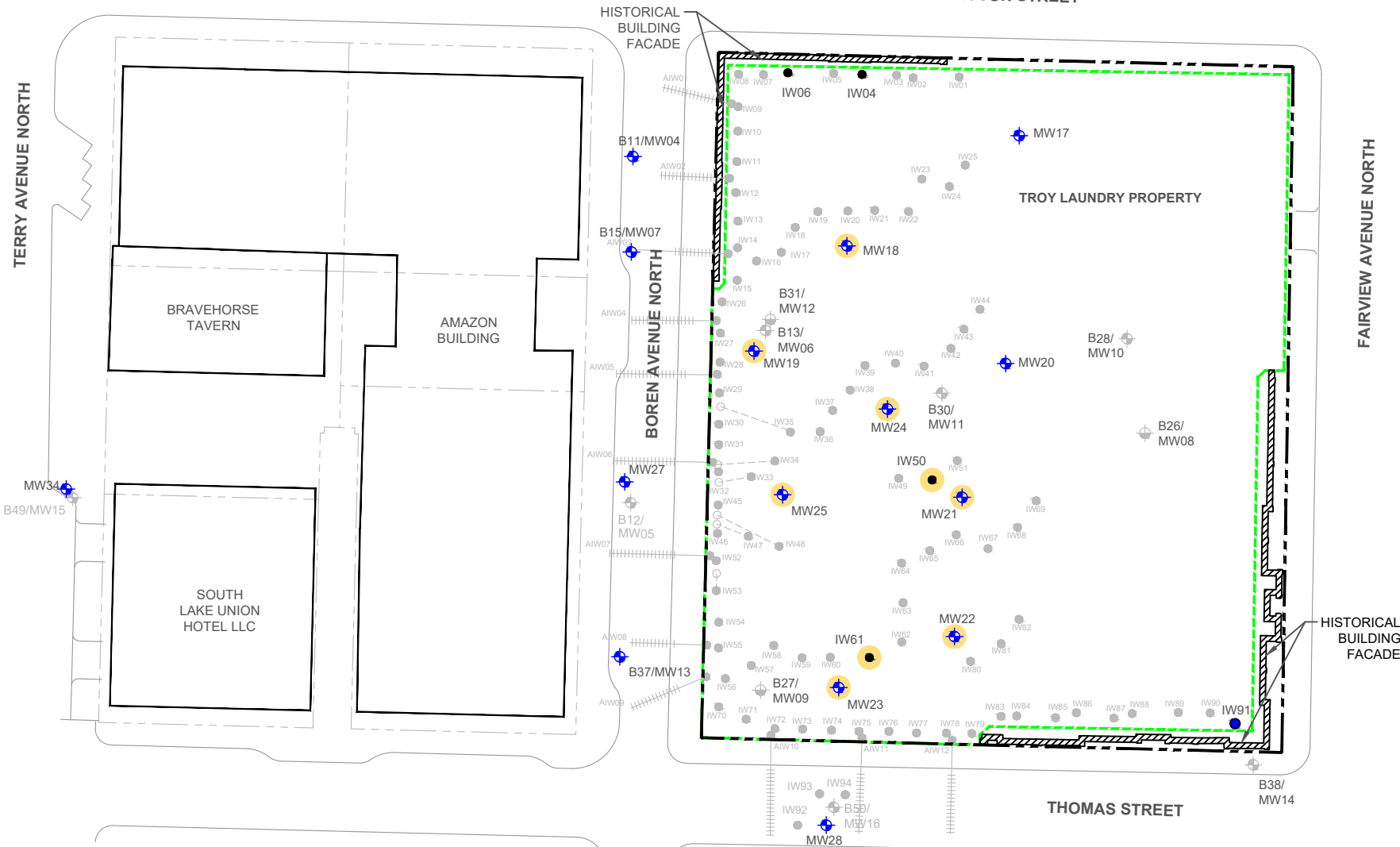
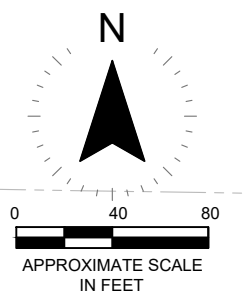
LEGEND	
--- (dashed line)	PROPERTY BOUNDARY
- - - (dotted line)	PARCEL BOUNDARY
--- (green dashed line)	REDEVELOPMENT EXCAVATION AREA
⊕ (blue circle with cross)	MW20 MONITORING WELL
● (blue circle)	IW91 INJECTION WELL CONVERTED TO MONITORING WELL
● (black circle)	IW61 INJECTION WELL (SAMPLED)
⊕ (grey circle with cross)	DECOMMISSIONED/DESTROYED MONITORING WELL
● (orange circle)	DENOTES TCE CONCENTRATION EXCEEDS APPLICABLE MTCA CLEANUP LEVEL
● (blue circle)	DENOTES PCE CONCENTRATION EXCEEDS APPLICABLE MTCA CLEANUP LEVEL
CVOC	CHLORINATED VOLATILE ORGANIC COMPOUND
MTCA	WASHINGTON STATE MODEL TOXICS CONTROL ACT
PCE	TETRACHLOROETHENE
TCE	TRICHLOROETHENE



TROY LAUNDRY PROPERTY
300 BOREN AVENUE NORTH,
399 FAIRVIEW AVENUE NORTH, AND
1120 JOHN STREET
SEATTLE, WASHINGTON
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FIGURE 9
EXTENT OF TROY PROPERTY TCE
AND PCE GROUNDWATER PLUME -
POST-INTERIM REMEDIAL ACTION
(Q2 2024)

DRAFT



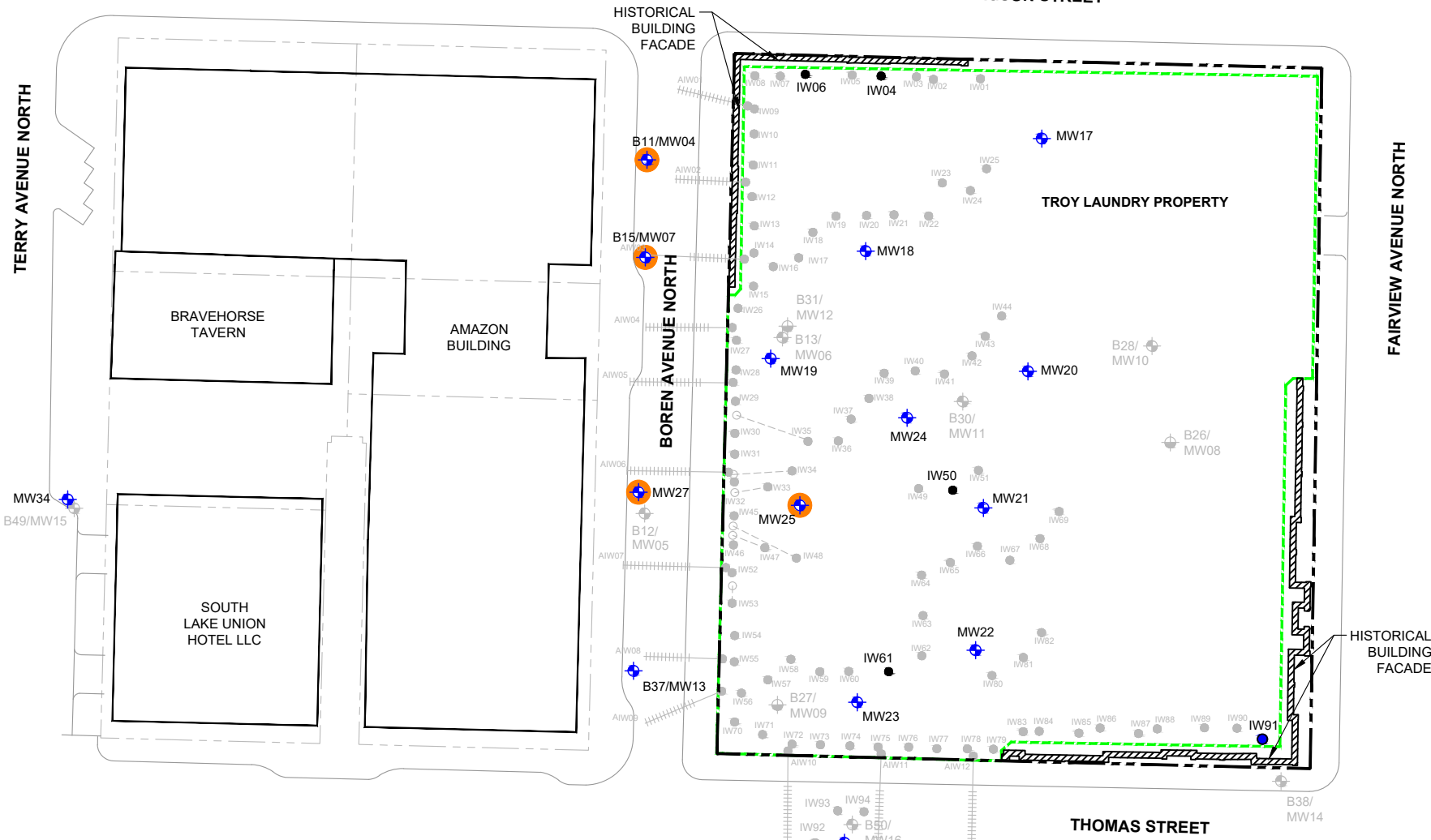
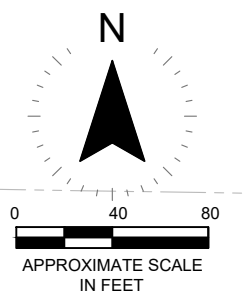
LEGEND	
	PROPERTY BOUNDARY
	PARCEL BOUNDARY
	REDEVELOPMENT EXCAVATION AREA
	MONITORING WELL
	INJECTION WELL CONVERTED TO MONITORING WELL
	INJECTION WELL (SAMPLED)
	DECOMMISSIONED/DESTROYED MONITORING WELL
	DENOTES cis-1,2-DCE/VC CONCENTRATIONS EXCEED APPLICABLE MTCA CLEANUP LEVEL
	CVOC
	DCE
	VC
	MTCA
	WASHINGTON STATE MODEL TOXICS CONTROL ACT



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

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

DRAFT



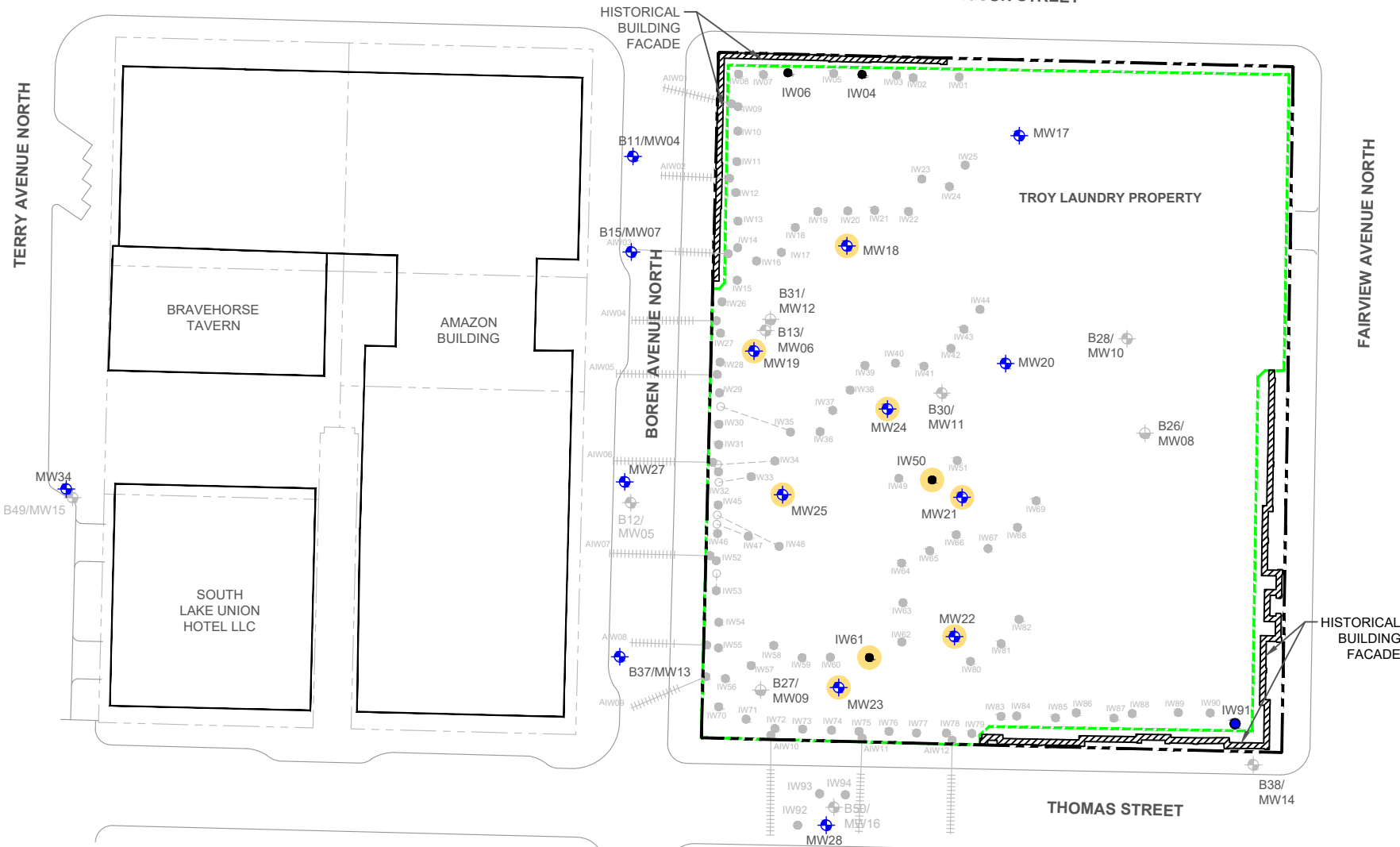
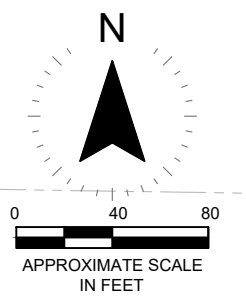
LEGEND	
	PROPERTY BOUNDARY
	PARCEL BOUNDARY
	REDEVELOPMENT EXCAVATION AREA
	MW20 MONITORING WELL
	IW91 INJECTION WELL CONVERTED TO MONITORING WELL
	IW61 INJECTION WELL (SAMPLED)
	DECOMMISSIONED/DESTROYED MONITORING WELL
	DENOTES TCE CONCENTRATION EXCEEDS APPLICABLE MTCA CLEANUP LEVEL
	DENOTES PCE CONCENTRATION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



TROY LAUNDRY PROPERTY
 300 BOREN AVENUE NORTH,
 399 FAIRVIEW AVENUE NORTH, AND
 1120 JOHN STREET
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FIGURE 11
 EXTENT OF TROY PROPERTY TCE
 AND PCE GROUNDWATER PLUME -
 POST-INTERIM REMEDIAL ACTION
 (Q4 2024)

DRAFT



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

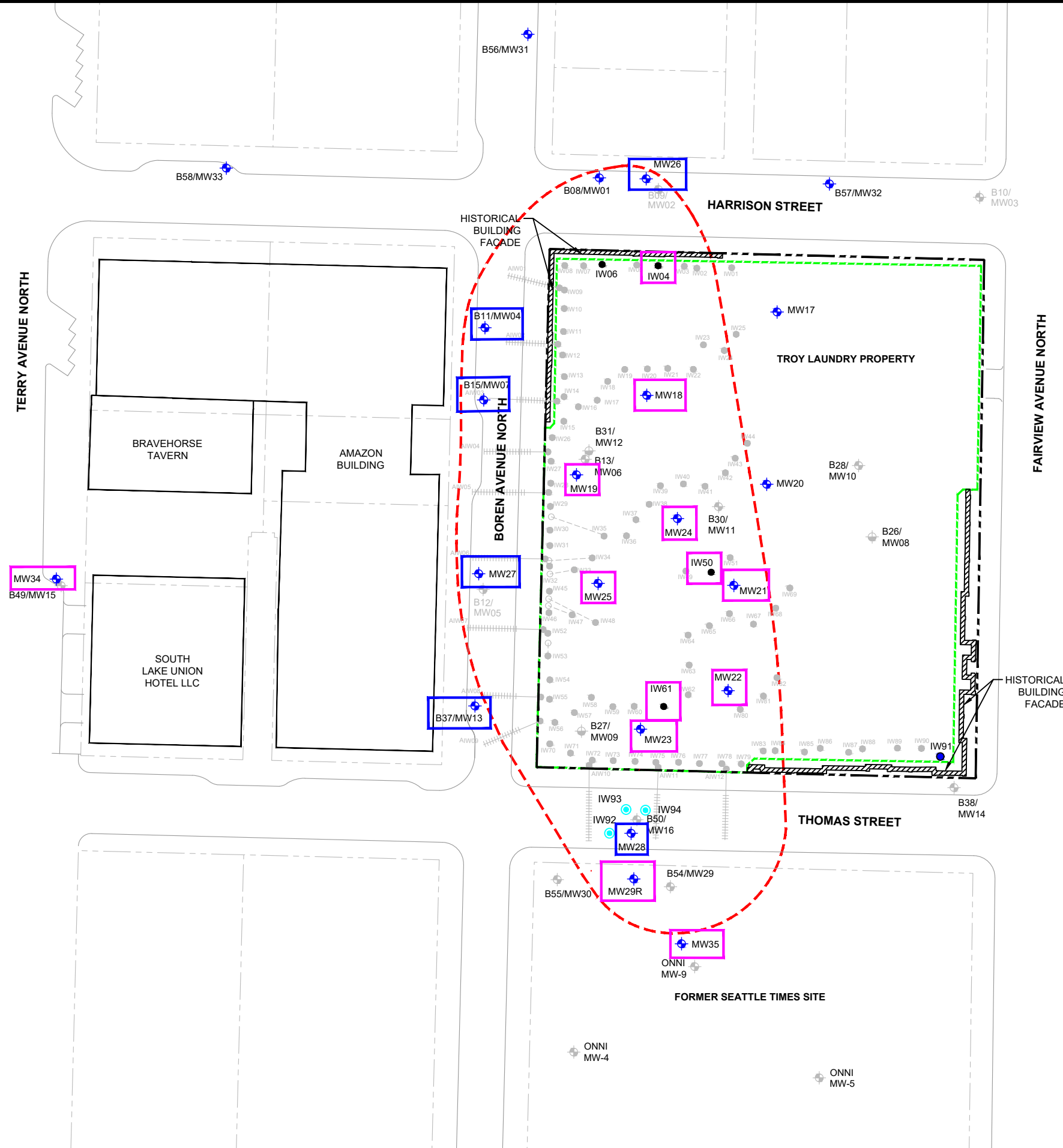
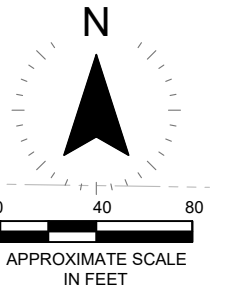
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TROY LAUNDRY PROPERTY
 300 BOREN AVENUE NORTH,
 399 FAIRVIEW AVENUE NORTH, AND
 1120 JOHN STREET
 SEATTLE, WASHINGTON
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FIGURE 12
 EXTENT OF TROY PROPERTY
 VC/cis-1,2-DCE GROUNDWATER
 PLUME - POST-INTERIM REMEDIAL
 ACTION (Q4 2024)

DRAFT

10/15/2025
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LEGEND

- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- REDEVELOPMENT EXCAVATION AREA
- MW20
- MW-5
- IW91
- IW61
- DECOMMISSIONED/DESTROYED MONITORING WELL
- IW96
- 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
- DCE
- PCE
- TCE
- CONDITIONAL POINT OF COMPLIANCE
- DICHLOROETHENE
- TETRACHLOROETHENE
- TRICHLOROETHENE

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

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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 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)													PCE TCLP ⁽⁴⁾ (mg/L)	SVOCs ⁽⁵⁾⁽⁶⁾			
							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⁾					
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	<0.05	<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	<0.05	<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	<0.05	<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	<0.03	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	<0.05	<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	<0.05	<0.03	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	<0.05	<0.05	<0.03	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	<0.05	<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	<0.05	<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	<0.05	<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 ^k	--	--	<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	



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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⁾
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	<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	<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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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⁾	
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	



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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⁾	
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	SoundEarth	--	--	--	--	--	--	<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
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⁾	
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	SoundEarth	--	--	--	--	--	--	<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	SoundEarth	--	--	--	--	--	--	<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	



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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⁾			
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			



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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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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⁾			
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	<0.0012	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	<0.05	<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	<0.05	<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	--		--	05/26/11	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.05	<0.03	0.057	--	ND
		B12-70	70	14.04	--		--		--	--	--	--	--	<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	<0.03	<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	<0.02	<0.025	--	--				
		B51-80	80	18.35			<2	--	--	<0.02	<0.02	<0.02	<0.06	<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	<0.02	<0.025	--	--				
		B52-80	80	19.54			<2	--	--	<0.02	<0.02	<0.02	<0.06	<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	<0.02	<0.025	--	--				
		B52-85	85	14.54			<2	--	--	<0.02	<0.02	<0.02	<0.06	<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	<0.02	<0.025	--	--				
		B53-75	75	25.54			--	--	--	--	--	--	--	--	<0.05	<0.05	<0.05	<0.02	<0.025	--	--			
		B53-85	85	15.54			--	--	--	--	--	--	--	--	<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	<0.02	<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	<0.05	<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	<0.05	<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	<0.05	<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	<0.05	<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	<0.05	<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	



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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⁾		
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	<0.03	<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	<0.03	<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>>.

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

Laboratory Note:

*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 = semivolatle organic compound

TCE = trichloroethene

TCLP = Toxicity Characteristic Leaching Procedure

WAC = Washington Administrative Code



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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						



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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						



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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
	70.82					10/20/11	52.82	17.87
						12/10/12	52.88	17.81
						08/29/13	57.25	13.44
						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						



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
						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
	74.68					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
						05/05/15	INACCESSIBLE	
						08/03/15	80.07	10.79
						12/07/15	80.73	10.13
	90.86					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						



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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
	58.89					08/29/13	45.37	13.42
						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								



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)
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
	99.18					08/29/13	84.59	14.43
						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
						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	
	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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Seattle, Washington

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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
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
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



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 ⁽⁶⁾	<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⁽³⁾	160⁽³⁾	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)
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
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)
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⁾



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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⁾	



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 ^{ca}
	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⁾



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	<0.2
	MW04-20221214	12/14/22	SoundEarth	<1	8.2	<1	<1	<0.2
	MW04-20230622	06/22/23	SoundEarth	<1	9.3	<1	<1	<0.2
	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
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⁾



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⁽³⁾				760	40	10,000	NA	9.9
	MTCA Cleanup Level				5⁽³⁾	5⁽³⁾	16⁽⁴⁾	160⁽⁵⁾	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
MTC 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)
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⁾



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/CLARHome.aspx>>.

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

Laboratory Notes:

^(*)The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

^(†)The sample was centrifuged prior to analysis.

^(**)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

Sampling Event		Groundwater CVOCs Analytical Results ⁽¹⁾																																																					
		Troy Laundry Property Wells														Boren Avenue North						Terry Avenue North		Thomas Street		Harrison Street						Onni Property																							
Year	Quarter	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	IW04	IW06	IW50	IW61	IW91	MW04	MW07	MW13	MW27	MW31	MW15 ⁽²⁾	MW34 ⁽²⁾	MW16 ⁽³⁾	MW28 ⁽³⁾	MW01	MW26	MW32	MW33	MW29	MW30	ONNI-MW-4	ONNI-MW-5	ONNI-MW-9	MW29R	MW35																				
		PCE	TCE	DCE ⁽²⁾	VC	PCE	TCE	DCE ⁽²⁾	VC	PCE	TCE	DCE ⁽²⁾	VC	PCE	TCE	DCE ⁽²⁾	VC	PCE	TCE	DCE ⁽²⁾	VC	PCE	TCE	DCE ⁽²⁾	VC	PCE	TCE	DCE ⁽²⁾	VC	PCE	TCE	DCE ⁽²⁾	VC	PCE	TCE	DCE ⁽²⁾	VC	PCE	TCE	DCE ⁽²⁾	VC														
2015	2																																																						
	3																																																						
	4																																																						
	1																																																						
2016	3																																																						
	4																																																						
	1																																																						
	2																																																						
2017	3																																																						
	4																																																						
	1																																																						
	2																																																						
2018	3																																																						
	4																																																						
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2019	3																																																						
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2020	3																																																						
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2021	3																																																						
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2022	3																																																						
	4																																																						
	1																																																						
	2																																																						
2023	3																																																						
	4																																																						
	1																																																						
	2																																																						
2024	3																																																						
	4																																																						
	1																																																						
	2																																																						

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



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⁾



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⁾



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⁾



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⁾



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)
MW24	MW24-20150506	05/06/15	SoundEarth	93 [*]	<250	<100	<0.35	<1	<1	<3
	MW24-20150804	08/04/15	SoundEarth	94 [*]	<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 [*]	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 [*]	<3,000	990	<0.35	<1	<1	<3
	MW24-20180310	03/10/18	SoundEarth	990 [*]	<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 [*]	2,700 ^x	<100	<1	<1	<1	<3
MW24-20190615	06/15/19	SoundEarth	6,400 [*]	<2,500	<100	<1	<1	<1	<3	
MW24-20191207	12/07/19	SoundEarth	7,100 [*]	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⁾



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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 ⁷	<250	<100	<1	<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	<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⁾



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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)
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 [*]	<250	<100	--	--	--	--
	MW07-20170124	01/24/17	SoundEarth	120 ^x	<250	<100	<0.35	<1	<1	<3
	MW07-20170531	05/31/17	SoundEarth	54 [*]	<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 [*]	<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 [*]	<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⁾



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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)
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 ^s	<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⁾



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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 ^x	<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⁾



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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)
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*	<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⁾



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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 [†]	<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:

^cThe sample was centrifuged prior to analysis.

^dRecovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

^eThe analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

^fThe 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 ^I	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 ^{DJ}	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									

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 ^j	<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 ^{ee}	<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 ^{PE}	<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 ^{ee}	<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}	--	<1.20 ^D	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 ^{ee}	<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						

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 ^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 ^{ee}	<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 ^{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 ^{D,H}	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:

^BIndicates a detection in the ICB or CCB.

^DDilution was required.

^HHolding times for preparation or analysis exceeded.

^JAnalyte detected below Reporting Limit.

^J 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 ^T	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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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)
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	--	--	
MW33	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	--	--	
	MW33-20191009	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	--	--	
MW29	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 DECOMMISSIONED 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 DECOMMISSIONED 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 DECOMMISSIONED 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 DECOMMISSIONED 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 DECOMMISSIONED 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:

^DDilution was required.

^BAnalyte detected in the associated Method Blank.

^HHolding times for preparation or analysis exceeded.

^AAnomalous reading, attributed to meter error.

-- = not measured/ not applicable

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

°C = degrees Celsius

CaCO₃ = 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



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	<0.41	<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 ^f	<1.4	<0.10	0.42	<0.06	<0.15	--	--	5.69
MW18-20231207	12/07/23	<0.50	0.42 ^f	<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	



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	1.2	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	



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)
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 ^f	<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	



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)
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 ^f	<1.4	<0.10	<1.3	<0.06	<0.15	--	--	1.56
MW25-20231207	12/07/23	<0.50	0.38 ^f	<0.26	<0.25	<0.06	<0.75	--	--	1.59	
MW25-20240627	06/27/24	<0.50	<0.30	<0.26	0.98 ^f	<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 ^f	<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 ^{KD}	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 ^f	<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	



Table 8
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Troy Laundry Seattle Site
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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)
IW61	IW61-20160309	03/09/16	<0.39	368	51	0.69	28	<0.69	--	--	114
	IW61-20160713	07/13/16	--	--	--	--	--	--	<100	217 ^{x,b}	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:

^DThe reported value is from a dilution.

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

^jThe 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		Indoor Air (24 hours)	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/m³ = 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		Indoor Air (24 hours)		67	<35	<25		
IA02	IA02-20180304	P5 - Interior Stairway - North				130	36	<25		
IA03	IA03-20180304	P5 - West Wall				49	<35	<25		
IA04	IA04-20180304	P5 - West Wall				--	--	--		
IA05	IA05-20180307	P5 - South Tower Parking Elevator Shaft			--	--	--			
IA06	IA06-20180304	P5 - Elevator Lobby		Indoor Air (24 hours)	03/07/18–03/08/18	--	--	--		
IA07	IA07-20180304	North Wall				--	--	--		
IA08	IA08-20180304	P4 - West Wall				69	<35	<25		
IA09	IA09-20180304	P4 - West Wall				--	--	--		
IA10	IA10-20180304	P4 - South Wall				--	--	--		
IA11	IA11-20180304	P3 - West Wall				84	35	<25		
IA12	IA12-20180304	P3 - West Wall				--	--	--		
IA13	IA13-20180304	P3 - East Wall				140	<35	<25		
IA14	IA14-20180304	P2 - West Wall				65	<35	<25		
IA15	IA15-20180304	P2 - West Wall				62	<35	<25		
IA16	IA16-20180304	P2 - South Wall				--	--	--		
IA19	IA19-20180304	P1 - South Wall				--	--	--		
IA20	IA20-20180304	P1 - Interior Stairway - North				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/m³ = 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 Adsorption 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		
Seminal Groundwater Monitoring and Reporting (Years 1 and 2)	\$	82,600	Discount Rate = 1.3%	\$	162,034
Annual Groundwater Monitoring and Reporting (Years 2 through 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⁾	Ferrous 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 compound;

EPA = US Environmental Protection Agency

SM = Standard Method

Appendix A

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



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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
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 210-204-0352
 dmosis3@outlook.com

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The Project QA/QC Officer for SoundEarth is:

Levi Fernandes
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The laboratory contacts for the Laboratory Project Managers are:

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 Seattle, Washington 98108
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 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 µg/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 \geq 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 ($\mu\text{g}/\text{m}^3$)	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.

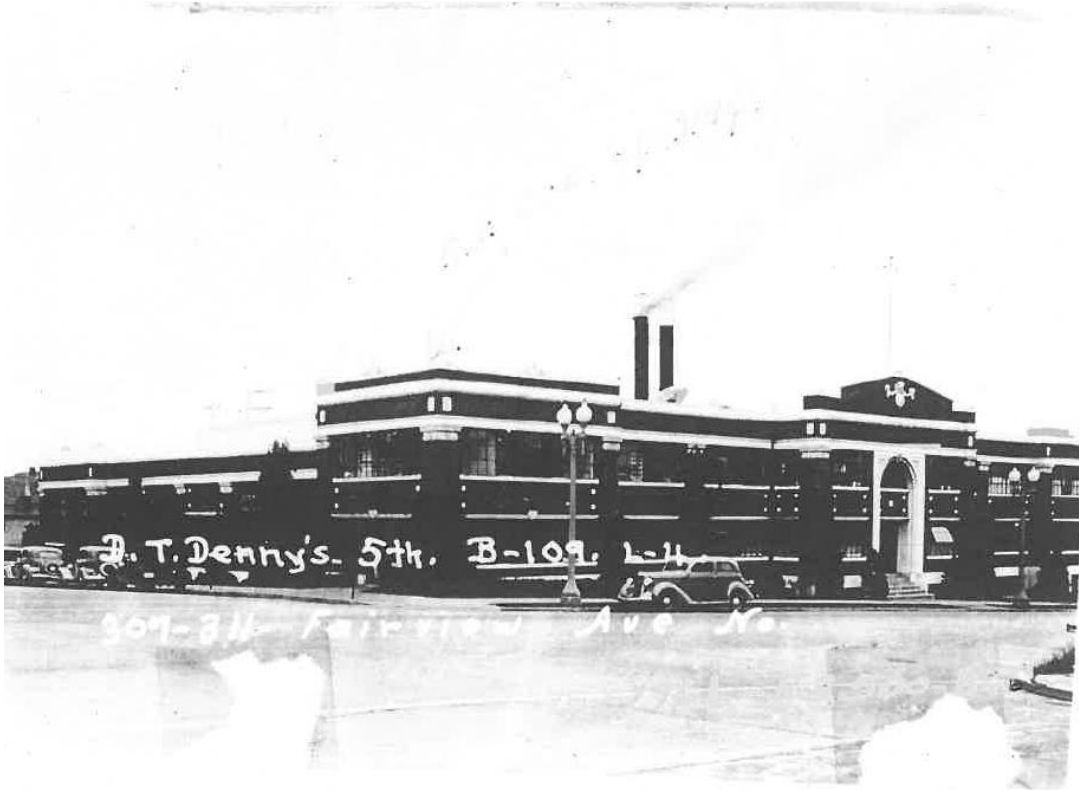
FIGURES

APPENDIX A
SAMPLING AND ANALYSIS PLAN

APPENDIX B
QUALITY ASSURANCE PROJECT PLAN

Appendix B

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



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1	Property Location Map
2	Site Exploration Plan

ATTACHMENTS

A	Hospital Route
B	Daily Health and Safety Tailgate Meeting Form
C	Site-Specific COC Quick References
D	Chemical Safety Data Sheets
E	Activity Hazard Analyses

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.

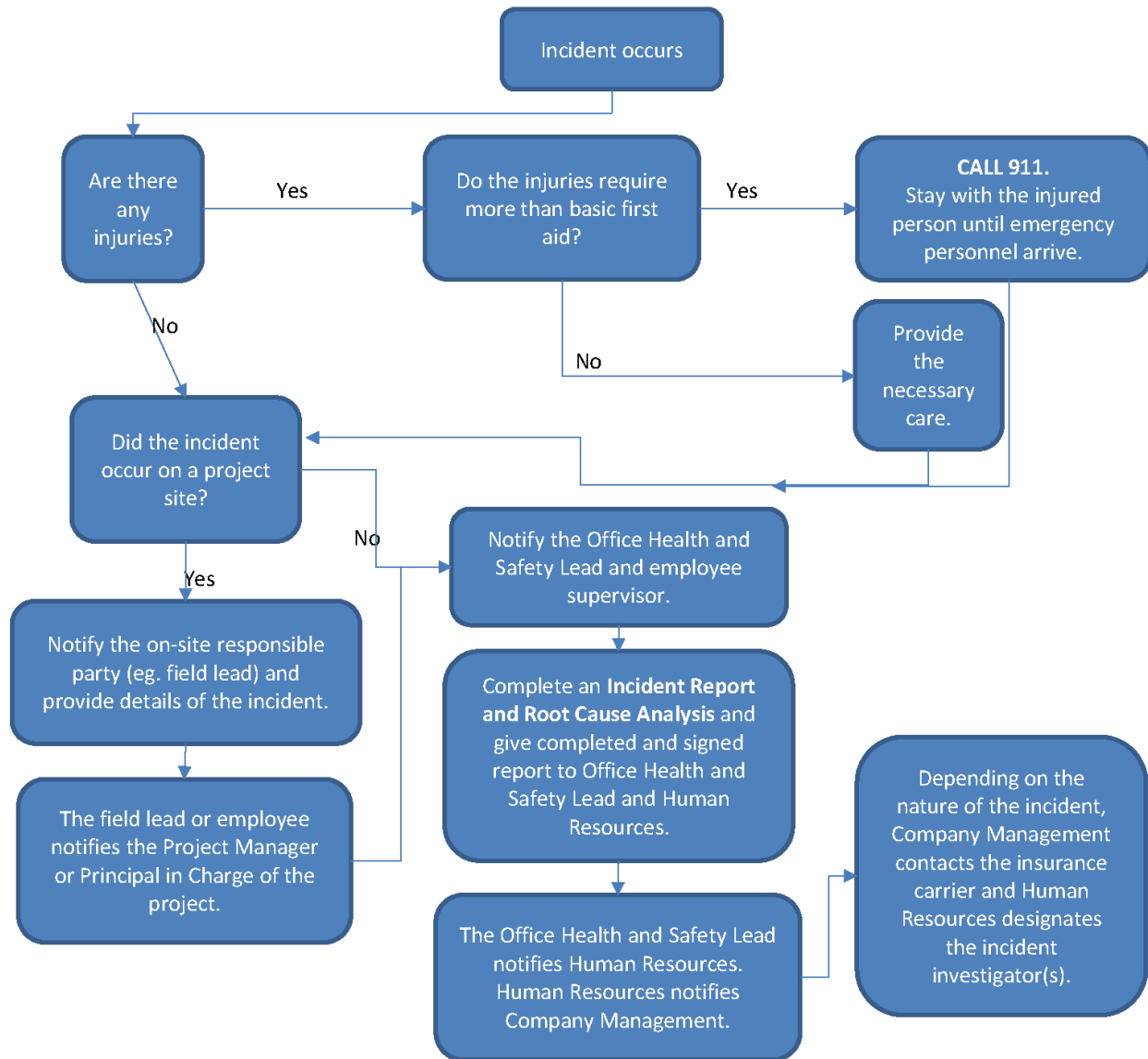
Note that a SoundEarth employee **may not** transport a non-SoundEarth employee for medical attention.

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:

_____ <i>Name</i>	_____ <i>Signature</i>	_____ <i>Company</i>	_____ <i>Date</i>
_____ <i>Name</i>	_____ <i>Signature</i>	_____ <i>Company</i>	_____ <i>Date</i>
_____ <i>Name</i>	_____ <i>Signature</i>	_____ <i>Company</i>	_____ <i>Date</i>
_____ <i>Name</i>	_____ <i>Signature</i>	_____ <i>Company</i>	_____ <i>Date</i>
_____ <i>Name</i>	_____ <i>Signature</i>	_____ <i>Company</i>	_____ <i>Date</i>
_____ <i>Name</i>	_____ <i>Signature</i>	_____ <i>Company</i>	_____ <i>Date</i>
_____ <i>Name</i>	_____ <i>Signature</i>	_____ <i>Company</i>	_____ <i>Date</i>
_____ <i>Name</i>	_____ <i>Signature</i>	_____ <i>Company</i>	_____ <i>Date</i>
_____ <i>Name</i>	_____ <i>Signature</i>	_____ <i>Company</i>	_____ <i>Date</i>
_____ <i>Name</i>	_____ <i>Signature</i>	_____ <i>Company</i>	_____ <i>Date</i>
_____ <i>Name</i>	_____ <i>Signature</i>	_____ <i>Company</i>	_____ <i>Date</i>
_____ <i>Name</i>	_____ <i>Signature</i>	_____ <i>Company</i>	_____ <i>Date</i>

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) in 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

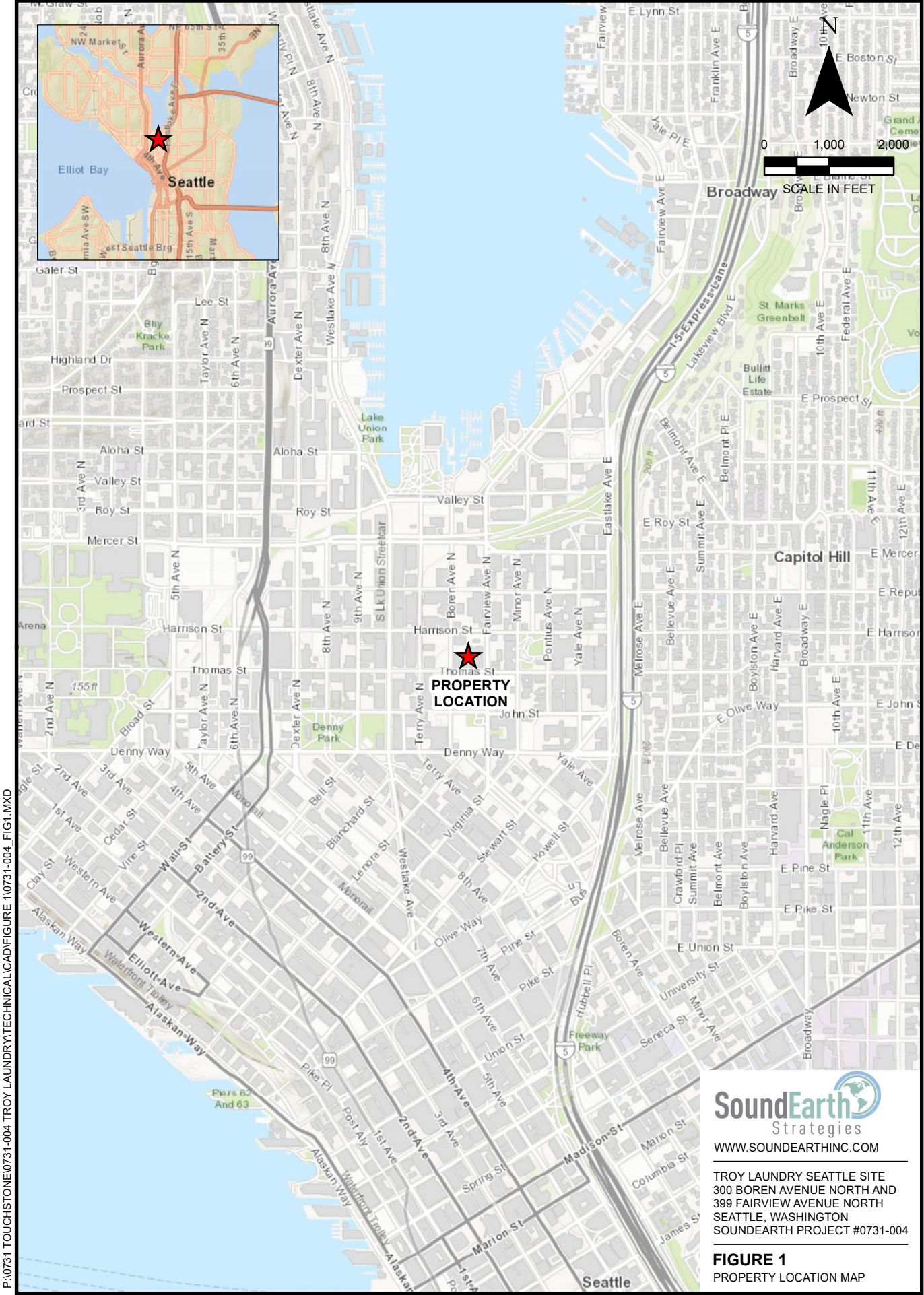
The following controls are required for SoundEarth employees while performing work on the site:

- 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



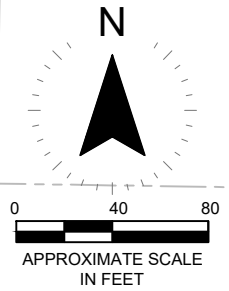
P:\0731 TOUCHSTONE\0731-004 TROY LAUNDRY\TECHNICAL\CAD\FIGURE 1\0731-004_FIG1.MXD

SoundEarth
Strategies
WWW.SOUNDEARTHINC.COM

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

FIGURE 1
PROPERTY LOCATION MAP

4/26/2023
 P:\0731 TOUCHSTONE\0731-004 TROY LAUNDRY\TECHNICAL\CAD\2023\HASP\0731-004_2023_FS_RI-EXPL-LOC-MAP.DWG



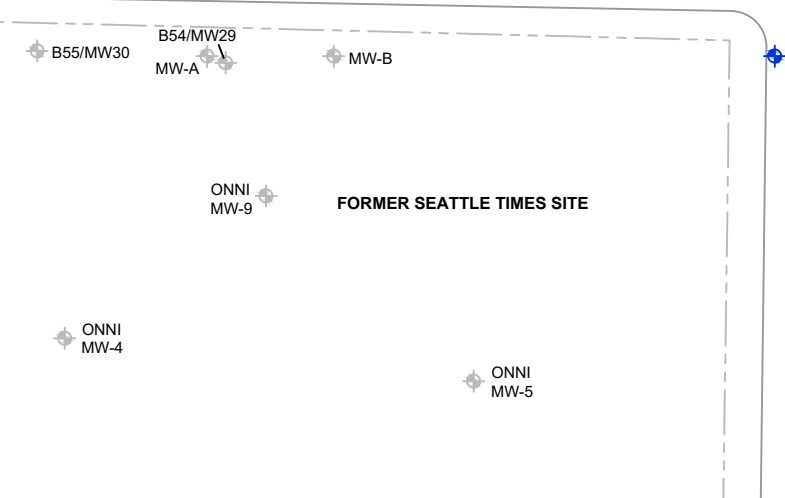
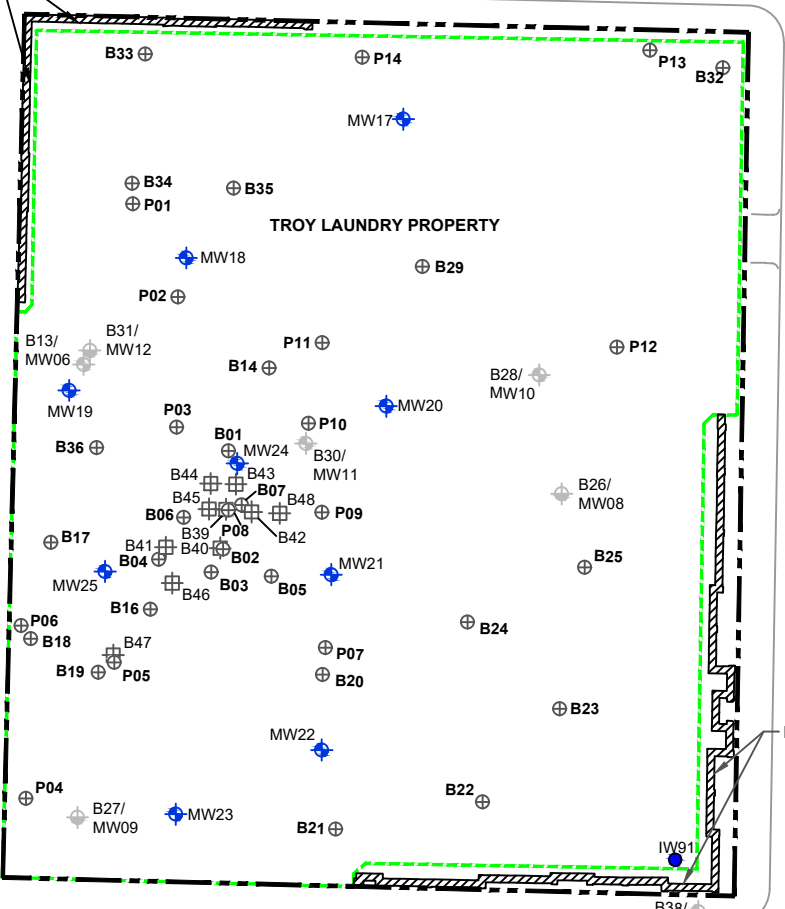
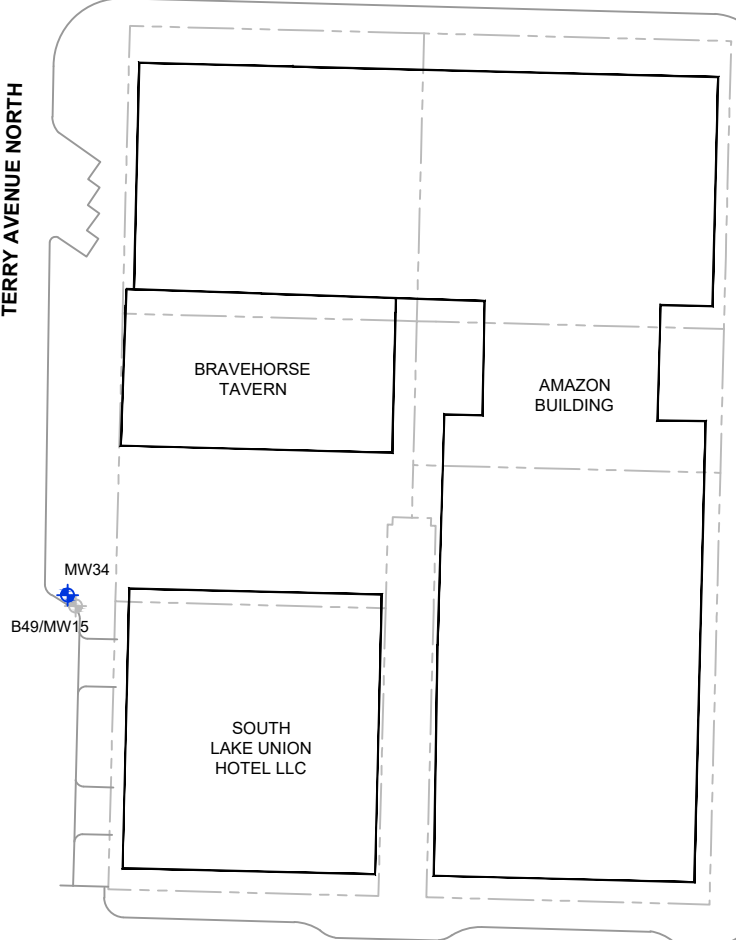
TERRY AVENUE NORTH

BOREN AVENUE NORTH

FAIRVIEW AVENUE NORTH

HARRISON STREET

THOMAS STREET



LEGEND	
	PROPERTY BOUNDARY
	PARCEL BOUNDARY
	REDEVELOPMENT EXCAVATION AREA
	MONITORING WELL
	MONITORING WELL (ENVIRONMENTAL PARTNERS INC)
	INJECTION WELL CONVERTED TO MONITORING WELL
	DECOMMISSIONED/DESTROYED MONITORING WELL
	SOIL BORING
	POST-SVE CONFIRMATIONAL SOIL BORING
	SVE



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

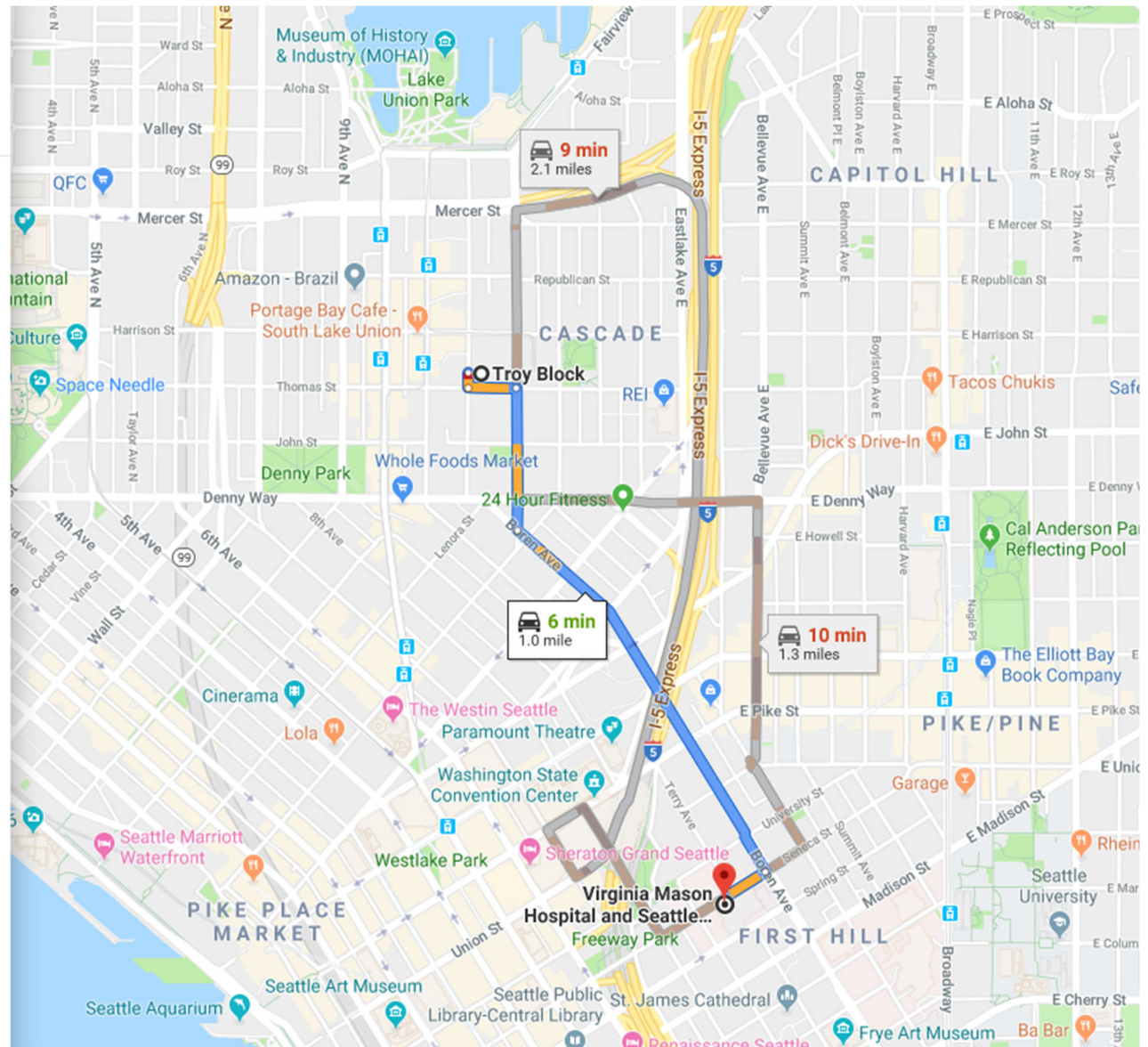
300 Boren Ave N, Seattle, WA 98109

-  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)

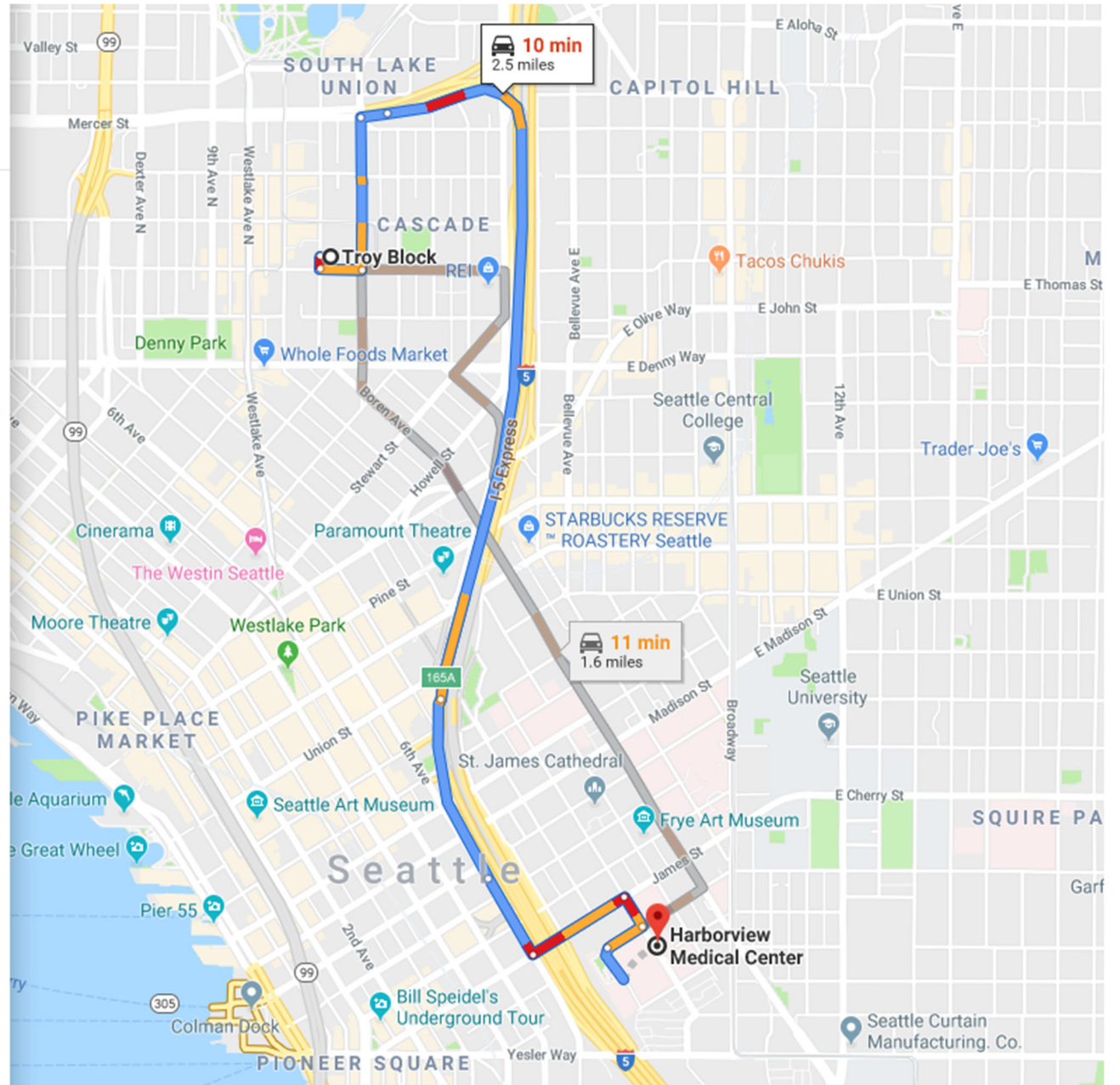
- Continue on Jefferson St. Drive to 8th Ave

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



DAILY HEALTH AND SAFETY TAILGATE MEETING FORM

Project Number:

Date:

Site Safety Officer:

Time:

Project Address:

Scope of Work:

Subjects Discussed:

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

Additional Notes:

Attendees:

Print Name

ATTACHMENT C
Site-Specific COC Quick References

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
<ul style="list-style-type: none"> ▪ 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	<ul style="list-style-type: none"> ▪ 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%

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
<ul style="list-style-type: none"> ▪ 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.	<ul style="list-style-type: none"> ▪ 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°F
LEL	1.1%

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
<ul style="list-style-type: none"> ▪ 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	<ul style="list-style-type: none"> ▪ 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%

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

Properties

- Mild, chloroform-like odor

Special Characteristics

- Carcinogen

Protection

Recommended PPE	Respiratory Protection
<ul style="list-style-type: none"> ▪ 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	<ul style="list-style-type: none"> ▪ 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

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

Properties

- Chloroform-like odor

Protection

Recommended PPE	Respiratory Protection
<ul style="list-style-type: none"> ▪ 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	<ul style="list-style-type: none"> ▪ 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%

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
<ul style="list-style-type: none"> ▪ 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.	<ul style="list-style-type: none"> ▪ 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

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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: Danger code (Kemler): EMS number: Segregation groups:	None None None 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: Tunnel restriction code: UN "Model Regulation":	
None None 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

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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.	7647-01-0	Met. Corr. 1; Skin Corr. 1B; Eye Dam. 1; STOT SE 3; H290, H314, H318, H335	>= 30 - < 50 %
EC-No.	231-595-7		
Index-No.	017-002-01-X		
Registration number	01-2119484862-27-XXXX		
		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;	

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/m ³	USA. NIOSH Recommended Exposure Limits
		C	5 ppm 7 mg/m ³	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		PEL	0.3 ppm 0.45 mg/m ³	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/cm ³ 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

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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 (NO_x). 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
4

Flammability
0

Instability
0

Physical hazards
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.
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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/m ³ (Vacated) STEL: 4 ppm (Vacated) STEL: 10 mg/m ³ TWA: 2 ppm TWA: 5 mg/m ³	IDLH: 25 ppm TWA: 2 ppm TWA: 5 mg/m ³ STEL: 4 ppm STEL: 10 mg/m ³	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	HNO ₃
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 (NO _x), 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 No information available

Products

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.
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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 ₂ O ₄ S
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/m ³	USA. ACGIH Threshold Limit Values (TLV)
		TWA	1 mg/m ³	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
		TWA	1 mg/m ³	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/cm ³ 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 tissues Contact 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 - Desmodemus 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**

sulphuric acid	CAS-No. 7664-93-9	Revision Date 2007-07-01
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SARA 313 Components

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

sulphuric acid	CAS-No. 7664-93-9	Revision Date 2007-07-01
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SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

sulphuric acid	CAS-No. 7664-93-9	Revision Date 2007-07-01
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Pennsylvania Right To Know Components

sulphuric acid	CAS-No. 7664-93-9	Revision Date 2007-07-01
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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.

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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		Overall Risk Assessment Code for this AHA (most severe or probable hazard):	H																																													
Project Location:	300 Boren Avenue North and 399 Fairview Avenue North		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="6" style="background-color: #D3D3D3;">Risk Assessment Code Matrix</th> </tr> <tr> <th rowspan="2" style="background-color: #D3D3D3;">Severity</th> <th colspan="5" style="background-color: #D3D3D3;">Probability</th> </tr> <tr> <th style="background-color: #D3D3D3;">Frequent</th> <th style="background-color: #D3D3D3;">Likely</th> <th style="background-color: #D3D3D3;">Occasional</th> <th style="background-color: #D3D3D3;">Seldom</th> <th style="background-color: #D3D3D3;">Unlikely</th> </tr> </thead> <tbody> <tr> <td style="background-color: #D3D3D3;">Catastrophic</td> <td style="background-color: #FF0000; text-align: center;">E</td> <td style="background-color: #FF0000; text-align: center;">E</td> <td style="background-color: #FFA500; text-align: center;">H</td> <td style="background-color: #FFA500; text-align: center;">H</td> <td style="background-color: #FFFF00; text-align: center;">M</td> </tr> <tr> <td style="background-color: #D3D3D3;">Critical</td> <td style="background-color: #FF0000; text-align: center;">E</td> <td style="background-color: #FFA500; text-align: center;">H</td> <td style="background-color: #FFA500; text-align: center;">H</td> <td style="background-color: #FFFF00; text-align: center;">M</td> <td style="background-color: #00FF00; text-align: center;">L</td> </tr> <tr> <td style="background-color: #D3D3D3;">Marginal</td> <td style="background-color: #FFA500; text-align: center;">H</td> <td style="background-color: #FFFF00; text-align: center;">M</td> <td style="background-color: #FFFF00; text-align: center;">M</td> <td style="background-color: #00FF00; text-align: center;">L</td> <td style="background-color: #00FF00; text-align: center;">L</td> </tr> <tr> <td style="background-color: #D3D3D3;">Negligible</td> <td style="background-color: #FFFF00; text-align: center;">M</td> <td style="background-color: #00FF00; text-align: center;">L</td> <td style="background-color: #00FF00; text-align: center;">L</td> <td style="background-color: #00FF00; text-align: center;">L</td> <td style="background-color: #00FF00; text-align: center;">L</td> </tr> </tbody> </table> <p style="margin-top: 10px;">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.)</p> <p style="margin-top: 10px;">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.</p> <table border="1" style="width: 100%; margin-top: 10px; text-align: center;"> <tr> <td style="background-color: #FF0000; color: white;">E = Extremely High Risk</td> </tr> <tr> <td style="background-color: #FFA500; color: white;">H = High Risk</td> </tr> <tr> <td style="background-color: #FFFF00; color: black;">M = Moderate Risk</td> </tr> <tr> <td style="background-color: #00FF00; color: black;">L = Low Risk</td> </tr> </table>		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	E = Extremely High Risk	H = High Risk	M = Moderate Risk	L = Low Risk
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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: <ul style="list-style-type: none"> Establishing site-specific measures. 																																																	
Equipment to be used: <ul style="list-style-type: none"> Level D PPE Photoionization detector 																																																	
Inspection requirements: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Orientation to Site-Specific HASP Daily Health and Safety Tailgate Meeting Form 	Competent/qualified personnel: <ul style="list-style-type: none"> Linnea Coleman 																																																

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 identified in the HASP	Perform site walks daily or if conditions change to identify hazards. <ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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 monitoring well drilling and collect soil or reconnaissance groundwater samples.	Slips, trips, and falls	<p>Always watch your footing:</p> <ul style="list-style-type: none"> • 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 excavation 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.	



Activity Hazard Analysis: Drilling Observation and Sampling in Excavation

	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.	
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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			Overall Risk Assessment Code for this AHA (most severe or probable hazard):	M																																																			
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Job Steps	Hazards	Controls	RAC
1 Perform site walk upon arrival.	Site hazards or conditions not identified in the HASP	<p>Perform site walks daily or if conditions change to identify hazards.</p> <ul style="list-style-type: none"> • 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.	

Activity Hazard Analysis: Groundwater Monitoring

	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

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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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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. 	

Activity Hazard Analysis: Mobilization/Demobilization and Site Preparation

<p>2 Operate the vehicle.</p>	<p>Collisions or unsafe driving conditions</p>	<p>Drive defensively:</p> <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> ○ If backing into a parking spot, walk around the vehicle to identify any hazards that might be present, especially low-level hazards that may be difficult to see from inside the vehicle. Use a spotter if necessary. 	<p style="text-align: center;">M</p>
<p>3 Drive to the job site.</p>	<p>Dusty, winding, and/or narrow roads</p>	<ul style="list-style-type: none"> • Drive confidently and defensively at all times. • Go slow around corners, occasionally clearing the windshield. 	<p style="text-align: center;">M</p>

Activity Hazard Analysis: Mobilization/Demobilization and Site Preparation

	Rocky or one-lane roads	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Drive slowly and watch for other animals nearby. Be alert for animals darting out of wooded areas. 		
	Overhead power lines	<ul style="list-style-type: none"> 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 alternate route if necessary. 		
	Driving in low-clearance zones (ie. parking garage)	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Talk to landowner and be courteous and diplomatic. Ensure all animals on site have been secured away from the work area. 	L

Activity Hazard Analysis: Mobilization/Demobilization and Site Preparation

5 Mobilize equipment and supplies.	Struck by heavy equipment or vehicles	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Train workers or receive training on the proper method of placing erosion controls. Do not bend and twist at the waist while lifting or exerting force. 	M
	Struck by equipment or supplies	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> 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.

Exhibit C

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Schedule

Troy Laundry Seattle Site

The Schedule includes tasks involving the completion of certain milestone activities and the submission of documents. Each of the documents required below are subject to Ecology’s review and approval. Ecology will approve, approve with conditions, or disapprove of these documents. If Ecology disapproves of a draft document, Ecology will provide comments to the Defendant who will submit a revised document that addresses Ecology’s comments. The Defendant may request a schedule modification in accordance with Section XV (Extension of Schedule) of the Decree.

Deliverable/Milestone		Schedule ¹
A. Administrative		
A.1	Progress Reports	Submit to Ecology annually, beginning after the first year following the effective date of the Consent Decree
B. Compliance Monitoring		
B.1	Implement Compliance Monitoring	Begin within 30 days of finalization of the effective date of the Consent Decree
B.2	Draft Annual Compliance Groundwater Monitoring Report	Submit to Ecology 12 weeks after the fourth quarter sampling event
B.3	Final Annual Compliance Groundwater Monitoring Report	Submit to Ecology within 30 days following Ecology approval of draft (B.2)
B.4	Notification letter to City of Seattle	Submit to Ecology and City within 60 days of the effective date of the Consent Decree
C. Institutional Controls		
C.1	Draft Environmental Covenant(s)	Submit to Ecology within 60 days of the effective date of the Consent Decree

C.2	Proof of recording of an Environmental Covenant with the King County Recorder's Office	Submit to Ecology within 60 days following Ecology approval of drafts (C.1)
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Notes:

1. Schedule is in calendar days. Deliverable due date may be modified with Ecology concurrence without amendment to the Consent Decree.