

# REVISED REMEDIAL INVESTIGATION REPORT

Seattle Times Site 1120 John Street Seattle, Washington

Facility Site ID No. 4377754 Cleanup Site ID No. 14495 Agreed Order No. DE 20468

May 5, 2022

TRC Project No. 015365.0010

# **Prepared For:**

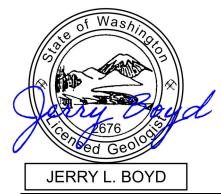
Washington State Department of Ecology Toxics Cleanup Program 15700 Dayton Avenue North Shoreline, Washington 98133

# On Behalf Of:

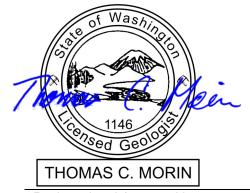
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#### LIST OF ABBREVIATIONS AND ACRONYMS

| Abbreviation/ |   |
|---------------|---|
| Acronym       | Definition  |
| AOPC          | Area of potential concern                         |
| AO            | Agreed Order No DE 20468                          |
| bgs           | Below ground surface                              |
| BTEX          | Benzene, toluene, ethylbenzene, and total xylenes |
| cDCE          | cis-1,2-Dichloroethene                            |
| COC           | Chemicals of concern                              |
| cPAHs         | Carcinogenic polycyclic aromatic hydrocarbons     |
| CSM           | Conceptual site model                             |
| CUL           | Cleanup level                                     |
| cVOCs         | Chlorinated volatile organic compounds            |
|               |   |
| DPT           | Direct-push technology                            |
| DRO           | Diesel-range organics                             |
| Ecology       | Washington State Department of Ecology            |
| LSI           | Limited Subsurface Investigation                  |
| EPI           | Environmental Partners, Inc.                      |
| ESA           | Environmental Site Assessment                     |
| Farallon      | Farallon Consulting, LLC                          |
| GRO           | Gasoline-range organics                           |
| HSA           | Hollow-stem auger                                 |
| IAWP          | Interim Action Work Plan                          |
| IRA           | Interim Remedial Action                           |
| µg/L          | Micrograms per liter                              |
| mg/kg         | Milligrams per kilogram                           |
| MSL           | Mean sea level                                    |
| MTCA          | Model Toxics Control Act                          |
| Onni          | Onni John Street (Land) LLC                       |
| ORO           | Oil-range organics                                |
| PCBs          | Polychlorinated biphenyls                         |
| PCE           | Tetrachloroethene                                 |
| PLP           | Potentially Liable Party                          |
| POC           | Point of compliance                               |
| RCRA          | Resource Conservation and Recovery Act            |
| REC           | Recognized environmental condition                |
| RI            | Remedial Investigation                            |
| RRI Report    | Revised Remedial Investigation Report             |
| SES           | SoundEarth Strategies                             |
| SI            | Supplemental Investigations                       |
| TCE           | Trichloroethene                                   |
| TEE           | Terrestrial Ecological Evaluation                 |
| UST           | Underground storage tank                          |
| VC            | Vinyl chloride                                    |
| VCP           | Voluntary Cleanup Program                         |
| VOCs          | Volatile organic compounds                        |
| WAC           | Washington Administrative Code                    |
|               |   |



# 1.0 INTRODUCTION

This *Revised Remedial Investigation Report* (RRI Report) has been prepared on behalf of Onni John Street (Land) LLC (Onni). TRC Environmental Corporation (TRC) has prepared this RRI Report for the former Seattle Times Property (subject property, which fully contains the "Seattle Times Site" or "Site"), located at 1120 John Street in Seattle, Washington (Figure 1). The subject property is currently owned by Onni John Street (Land) LLC (Onni).

The lateral and vertical extent of contaminant impacts at concentrations greater than applicable cleanup levels constitutes the "Site" under the Washington State Department of Ecology (Ecology) Model Toxics Control Act (MTCA) regulations. Under Washington Administrative Code (WAC) 173-340-200, a Site is defined by the nature and extent of contamination associated with one or more releases of hazardous substances at the subject property prior to any cleanup of the contamination. A Site, as interpreted under MTCA, is not defined by the property or parcel boundaries and can be smaller or larger than the property with which it is associated. The Site that is the subject of this RRI Report is fully contained within the subject property.

The purpose of this RRI Report the "Site" will be defined as all contamination related to former on-property operations of the Seattle Times. The property immediately to the north of the subject property is known as the Troy Laundry Site. It is known to Ecology and Onni that impacts to deeper groundwater from the Troy Laundry Site extend beneath the northwestern corner of the subject property. The Site and impacts to groundwater from the Troy Laundry Site are not commingled.

Onni has entered into Agreed Order No. DE 20468 (AO or "Order") with Ecology for the Seattle Times Site. The effective date of the AO is November 11, 2021 and preparation of this RRI Report is the first deliverable required under the AO.

The Seattle Times Site has the following Ecology identification numbers:

- Facility Site Identification Number 4377754
- Cleanup Site Identification Number 14495

Environmental Partners, Inc. (EPI)<sup>1</sup> previously submitted to Ecology a *Remedial Investigation Report* dated January 21, 2020 under a prior Voluntary Cleanup Program (VCP) enrollment application. Ecology provided comments to the January 2020 RI Report in their Opinion Letter dated July 14, 2020. In response to Ecology's Opinion Letter, TRC conducted additional investigation including subsurface soil analysis, additional groundwater monitoring well construction, and groundwater analysis at the subject property during the third and fourth quarter of 2020.

As required by the AO, this RRI Report revises the prior *Remedial Investigation Report* on incorporate the additional data collected at the Site and to address Ecology's prior comments. It is TRC's opinion that the existing data presented herein are sufficient to fully characterize the nature and extent of

<sup>&</sup>lt;sup>1</sup> TRC acquired EPI on December 27, 2019. For the purposes of this RRI Report, TRC and EPI may be used interchangeably.



contamination at the Seattle Times Site and to develop and evaluate cleanup action alternatives for the MTCA-defined Site, including an Interim Remedial Action as provided for in the AO, during a pending redevelopment.

TRC and Onni have informed Ecology during the AO negotiation process that the subject property will be undergoing redevelopment with property-wide excavation to depths of about 55 feet below grade. Ecology has acknowledged that this redevelopment action will constitute an Interim Remedial Action (IRA). This understanding is incorporated into the AO scope and schedule. Also as required by the AO, an *Interim Action Work Plan* (IAWP) is currently in preparation and will be submitted to Ecology. The IAWP will detail the actions to be undertaken to address contamination at the Site during the redevelopment actions.

# 1.1 General Site Information

The Site is situated within the approximately 2.54-acre subject property, which is identified as King County parcel number 1986200525 on Figure 2. The subject property is in the southeast corner of Section 30, Township 25 North, Range 4 East, latitude 47.62028, longitude -122.33511. Adjacent properties consist of commercial office space, parking areas, a restaurant, mixed-use residential and commercial facilities, and light commercial facilities.

The subject property was historically developed with four buildings constructed between 1930 and 1969. The four on-property buildings had approximately 316,000 square feet of floor space and were most recently used by the Seattle Times Company for offices, paper storage, a vehicle maintenance garage, and the main printing press and production area. Paved areas for vehicle parking were located on the north and west portions of the subject property adjacent to the former buildings.

Onni acquired the subject property in November 2013 and it is currently slated for redevelopment as a commercial office structure with subgrade parking extending to an approximate elevation of 54 feet above mean sea level (MSL, referenced to North American Vertical Datum of 1988, abbreviated as NAVD88), or about a depth of 50 feet below the John Street elevation. The redevelopment is currently undergoing final permitting and review by the City of Seattle.

## 1.1.1 Contact Information

Contact information for project coordinators and other pertinent entities associated with the Seattle Times Site is presented below:

| Ecology Site Manager:<br>Property Owner: | Ms. Sunny Becker<br>Onni John Street (Land) LLC<br>1411 4 <sup>th</sup> Avenue, Suite 1501<br>Seattle, Washington 98101   |
|--|---|
| Environmental Consultant:                | TRC Environmental Corporation (TRC)<br>1180 NW Maple Street, Suite 310<br>Issaquah, Washington 98027<br>Project Manager: Mr. Jerry Boyd, L.G.<br>jboyd@trccompanies.com<br>(425) 395-0046 |



# 1.2 Site History

As noted in the *Phase I Environmental Site Assessment Report* (Phase I ESA Report) prepared in 2010, the subject property was historically developed with single-family residences dating back to the late 1800s through at least the1930s. The subject property was progressively developed by the Seattle Times between 1930 and 1968. In 1930 the Seattle Times office and main plant building were constructed. The maintenance garage in the northwest corner of the subject property was constructed in 1948. Residential structures occupied the remainder of the subject property from the 1930s through approximately 1950. The southwestern portion of the subject property was developed into a parking lot in 1965. The remaining offices and press buildings located in the other portions of the subject property were reportedly constructed in 1968.

The subject property reportedly had 11 underground storage tanks (USTs) containing a variety of liquids including waste oil, heating oil, diesel fuel, gasoline, and petroleum- and solvent-based inks. The USTs were installed as early as the 1930s and, according to available records, at least three of the USTs have been closed in-place.

The Phase I ESA Report notes that several historical auto service stations, retail gasoline stations, and dry-cleaning facilities were located less than 0.125 mile from the subject property (Farallon 2010). Chlorinated solvents (degreasers and dry-cleaning fluid) and petroleum products were potentially released to the subsurface during historical operations of these facilities. In addition, during an Ecology file review, EPI identified and reviewed a Remedial Investigation Report (RI Report) related to the former Troy Laundry property, which was a commercial laundry and dry-cleaning business that formerly operated on the north-adjacent property until 1985. That document, titled Final Remedial Investigation Report and authored by SoundEarth Strategies (SES) indicated documented releases of gasoline-range organics (GRO), diesel-range organics (DRO), oil-range organics (ORO), tetrachloroethene (PCE), trichloroethene (TCE), and common environmental degradation products of the PCE release, at concentrations greater than MTCA cleanup levels (SES 2020). The SES RI Report documents impacts to soil, soil vapor, and groundwater resulting from releases at the former Troy Laundry property. Though it is not documented when dry-cleaning operations were initiated at Troy Laundry, the use of Stoddard solvent, a petroleumhydrocarbon-based dry-cleaning solvent, was documented as the preferred dry-cleaning solvent. Stoddard solvent was subsequently replaced with PCE as the dry-cleaning solvent of choice at the former Troy Laundry facility until dry cleaning operations ceased (SES 2012).

Cross-sections presented in the SES RI Report indicate that the regional groundwater aquifer is at depths of approximately 90 to 91 feet below grade, corresponding to an elevation of approximately 14 to 15 feet MSL, beneath the subject property (SES 2020) and contains PCE, TCE, cis-1,2-dichloroethene (cDCE), and vinyl chloride (VC) in concentrations greater than the MTCA Method B Cleanup Level. The documented flow direction for the regional aquifer indicates that the subject property is hydraulically downgradient of the former Troy Laundry property.

In addition to the regional aquifer, groundwater has been sporadically encountered at shallower intervals on the subject property, generally at depths ranging from approximately 14 to 25 feet below grade, corresponding to an elevation between about 83 to 92 feet MSL. The shallower groundwater occurrences are laterally-discontinuous zones of perched groundwater entrained within sandier lenses of the glacial deposits at the subject property. These zones of sandier soil are typically less than 5 feet thick and are



more commonly approximately 1 foot thick. These water-bearing lenses were not present in all boring locations and when observed, were not at a uniform or consistent depth. These discontinuous perched groundwater lenses are consistently of very low yield and do not represent a continuous water table aquifer beneath the subject property. This observation is consistent with other locations throughout the area of the subject property, which is documented as not having a continuous shallow water table aquifer.

# 1.3 Current Site Use

The subject property is zoned SM-SLU 175/85-280 (King County Parcel Viewer 2021). The former Seattle Times offices, printing press building, vehicle maintenance building, and other supporting structures have been demolished and permits are being acquired for the planned redevelopment as a commercial office structure with below ground parking to an approximate elevation of 55 feet MSL and extending laterally to the subject property boundaries. USTs known to be present on the property have been decommissioned per Ecology UST decommissioning requirements prior to property re-development. Additional soil and groundwater remediation related to the Site will be performed concurrent with the planned redevelopment excavation for the below ground parking structure.

# 2.0 PRIOR INVESTIGATIONS

Previous environmental assessments conducted at the subject property include the following:

- Phase I Environmental Site Assessment Farallon Consulting, LLC, January 8, 2010;
- Limited Subsurface Investigation Report EPI, August 16, 2013;
- Supplemental Investigation EPI, 2018-2019; and
- Data Gap Investigation TRC, 2020.

Each of these investigative efforts are described in detail in subsections 2.1. to 2.4.

# 2.1 Phase I Environmental Site Assessment

Farallon Consulting, LLC (Farallon) conducted a Phase I ESA for the subject property and documented the work in a report titled *Phase I Environmental Site Assessment Report*, dated January 8, 2010 (Farallon 2010). The Phase I ESA identified several recognized environmental conditions (RECs) at the subject property. These RECs included:

- The presence of at least 11 USTs. The USTs contained multiple compounds including waste oils, heating oil, diesel fuel, gasoline, and petroleum- and solvent-based inks. The USTs were installed as early as 1930 and at least three were closed in-place. The Phase I ESA Report also indicated that there is the potential for additional unknown or undocumented USTs to be present at the subject property. Five of the USTs and a fuel dispenser are located east of a maintenance garage in the northwestern corner of the subject property.
- Potential releases of inks and/or cleaning compounds from two large newspaper printing presses located on below-grade foundations.
- The presence of a maintenance garage on the property with the known use of solvents and petroleum products for vehicle maintenance since about 1948.
- The presence of a hazardous materials storage room with drains that are connected to an oil/water separator and a UST located west of the building. The age, location, and condition of that UST are not known.
- The potential migration of releases from adjacent or nearby properties onto the subject property.

# 2.2 Limited Subsurface Investigation Report (2012–2013)

EPI performed a Limited Subsurface Investigation (LSI) of the subject property to investigate the RECs identified in Farallon's Phase I ESA Report. The LSI was performed in three phases beginning in July 2012, with subsequent phases in September 2012 and May 2013. Prior to mobilization for the LSI, EPI reviewed the Phase I ESA Report and performed a reconnaissance visit to the subject property to identify



potential sample locations, access limitations, and other Site-specific considerations necessary to plan and implement the LSI.

Based on information presented in Farallon's Phase I ESA Report and field observations made during site reconnaissance, EPI identified 10 areas of potential concern (AOPCs) at the subject property. Locations and outlines of the 10 AOPCs identified by EPI are presented on Figure 2. The 10 AOPCs are:

- AOPC 1: Printing Press Areas
- AOPC 2: Interior Ink Tanks
- AOPC 3: Ink Room
- AOPC 4: Compressor Room
- AOPC 5: Northern UST Complex and Dispenser
- AOPC 6: Waste Oil UST
- AOPC 7: Heating Oil UST (Office Area)
- AOPC 8: Heating Oil USTs (South-Centrally Located in Alleyway)
- AOPC 9: Hoists (Located in Maintenance Garage)
- AOPC 10: Sumps (Located Throughout the Facility)

In addition to the investigation of the 10 AOPCs, the LSI included groundwater sampling in the deeper regional aquifer underlying the subject property. Three monitoring wells (MW-1 through MW-3) were installed along the northern property boundary to evaluate if groundwater impacts, primarily chlorinated volatile organic compounds (cVOCs) from the north-adjacent Troy Laundry Site are potentially migrating onto the subject property. Monitoring well locations are shown on Figure 3.

The LSI was implemented using multiple sample collection methods and techniques. Five general methods of investigation were used to obtain representative samples from media of concern at the subject property. The five general sampling methods used during the LSI are discussed below:

- Hollow-stem auger (HSA) drilling was used at eight sample locations that were accessible to a full-size HSA drilling rig. Shallower direct-push technology (DPT) probing was performed at 54 locations, generally in areas with limited access for drilling equipment, generally inside buildings.
- Monitoring wells were installed, and groundwater samples were collected at three locations designated MW-1 through MW-3. These monitoring wells were installed and sampled to evaluate groundwater quality along the northern property boundary adjacent to the former Troy Laundry property. In addition, a reconnaissance groundwater sample was collected from boring location U-6 in AOPC 5.
- 3. Sump water was sampled from three shallow sumps throughout the facility where shallow perched groundwater was pumped and removed by a series of de-watering pumps beneath facility buildings.
- 4. Wipe samples were collected from 30 locations on equipment surfaces, concrete floors, and utility piping within the facility to test for the presence and concentrations of polychlorinated



biphenyls (PCBs). These are not environmental media samples and their locations and results are not discussed in this report.

5. Product samples of oil found within some of the equipment (e.g., printing presses, compressors) at the subject property were collected and analyzed for PCBs for disposal characterization purposes.

Soil boring and well locations performed as part of the LSI are presented on Figure 3. A summary of the samples of all media (e.g., soil, sump water, wipe, and groundwater) that were collected during the LSI and the analyses performed on those samples is presented in Table 1. A copy of the LSI Report was previously submitted to Ecology as an attachment to EPI's January 2020 RI Report.

# 2.3 Supplemental Investigations (2018–2019)

Based on results from the LSI described above, EPI determined that additional sampling and analysis was warranted at four of the AOPCs and in the deeper regional groundwater. EPI conducted a series of Supplemental Investigations (SI) that were performed in April and May 2018 and October 2019 to fill data gaps identified in those areas. The areas that were further investigated as part of the SI are listed below:

- AOPC 2: Interior Ink Tanks
- AOPC 4: Compressor Room
- AOPC 5: Northern UST Complex and Dispenser
- AOPC 8: Heating Oil USTs (south-centrally located in alleyway)
- Regional Groundwater

LSI data included detected concentrations of laboratory analytes in soil, sump water, or shallow perched water in these areas that exceeded MTCA Method A Cleanup Levels (CULs), which were used for screening purposes. These detected concentrations warranted additional sampling to assess the horizontal and vertical extent of the identified impacts. Soil and groundwater samples were collected using HSA drilling techniques to advance borings for soil sample collection, installation of monitoring wells, and reconnaissance groundwater sample collection from temporary wells.

A total of 26 soil borings were completed during the SI. Two of the borings, MW-4 and MW-5, were completed as monitoring wells to evaluate groundwater in the deep regional aquifer. Both monitoring wells were installed to a total depth of 105 feet below ground surface (bgs), which corresponds to elevations of 4.3 and 7.9 feet MSL, respectively. The remaining 24 borings were advanced to depths ranging from refusal at 9 feet bgs to 35 feet bgs. At locations where shallow, perched water was encountered, reconnaissance groundwater samples were collected from temporary wells installed within the soil borings.

Soil boring and well locations performed as part of the SI are presented on Figure 3.

Data gathered through December 2019 was evaluated and presented in EPI's RI Report dated January 2020. After review of the January 2020 RI Report, Ecology provided comments in their July 14, 2020 Opinion Letter, which identified the following data gaps:



• Ecology indicated that the source of TCE at the Seattle Times Site has not been determined. The data presented in the January 2020 RI Report are indeterminate. Additional soil analytical data are necessary to characterize the vertical extent of soil impacts.

Note: The contents of this RRI Report support that the TCE in the shallow groundwater has not migrated to the deeper regional aquifer.

 Paired groundwater monitoring wells at AOPCs 2 and 5 are necessary to characterize whether impacts to shallow perched groundwater have migrated to the deeper regional aquifer. Groundwater elevation data from these and existing wells at the Site should be used to determine flow directions in the shallow and deeper aquifers.

This RRI Report documents the installation and sampling of paired wells (MW-9S/MW-9 and MW-10S/MW-10) in these locations.

• The Site boundary needs to be further defined and should be part of RI under an Ecology Agreed Order.

This RRI Report documents additional borings and monitoring wells that further define the Site boundary.

## 2.4 Data Gap Investigation (2020)

In response to Ecology's July 14, 2020 Opinion Letter, TRC advanced an additional 10 borings (B1, B2, B2R, B3, B4, B5, B6, B7, B8, B9). TRC also installed two pairs of shallow and deep aquifer monitoring wells (MW-9S/MW-9 and MW-10S/MW-10). Tables 2 and 3 present well physical data and groundwater elevations, respectively.

During drilling soil and groundwater samples were collected and submitted for analysis of cVOCs. Only TCE was detected in any soil samples and only in the borings for MW-9 and MW-10. TCE was detected at depths of 20 and 30 feet bgs at location MW-9 and at depths of 30, 41, and 50 feet bgs at location MW-10. The detected concentrations ranged from 0.032 milligrams per kilogram (mg/kg) to 0.055 mg/kg. The detected concentrations only slightly exceeded the MTCA Method A Soil CUL of 0.03 mg/kg.

Groundwater samples were collected from locations MW-9S, MW-9, MW-10s, and MW-10 in November 2020. Analysis of these samples was for cVOCs only and the following were detected:

- PCE was detected in the samples from shallow aquifer monitoring well MW-10S at a concentration of 1 microgram per liter (μg/L), which is less than the MTCA Method A Groundwater CUL of 5 μg/L.
- TCE was detected in the sample from shallow aquifer monitoring wells MW-9S and deeper aquifer monitoring well MW-10 at concentrations of 6.2 and 2.2 µg/L, respectively. The concentration at MW-9S is greater than the MTCA Method A Groundwater CUL of 5 µg/L.



- cDCE was detected at the sample from deeper aquifer monitoring well MW-9 at a concentration of 3.5 μg/L, which is less than the MTCA Method B Groundwater CUL of 16 μg/L.
- VC was not detected in any of the groundwater samples collected.

Results of the soil and groundwater cVOC analyses are included in Tables 4 and 5, respectively.

# 2.5 Site Characterization

Site characterization data and data evaluations from historical and more recent environmental investigations have been reviewed and compiled into summaries by media in the following sections. Full descriptions of historical investigations and data were provided to Ecology as attachments to the January 2020 RI Report.

# 2.5.1 Topography

The subject property ranges from an approximate elevation of 126 feet MSL along John Street to an elevation of approximately 101 feet MSL along Thomas Street. Observations made during on-Site environmental investigations indicate that the land surrounding the subject property generally slopes to the north. The United States Geological Survey (USGS) topographic map for Seattle South, dated 1983 indicates that topography surrounding the subject property slopes to the west (toward Elliott Bay) and north (toward Lake Union).

# 2.5.2 Geology

The Puget Sound region is primarily underlain by sequences of advancing and retreating glacial sediment deposition episodes of Pleistocene Age. The regional sediments consist primarily of interlayered or sequential deposits of alluvial sands, silts, and clays. Sand units have varying amounts of finer materials depending on the energy level of the depositional environment. Except for the shallower, more recent deposits, the glacial outwash sediments have been over-consolidated by later overriding ice sheets, which greatly increased their density, forming glacial till. The underlying dense glacial till has a low permeability, which limited the downward vertical migration of contaminants and is evidenced by Standard Penetration Test results (i.e., high blow counts) and refusal during drilling at many Site boring locations.

Geologic logs from many of the borings completed through concrete floor slabs indicate varying thicknesses of imported structural fill sub-base material immediately beneath the floor slabs. Approximately 10 feet of pea gravel were encountered beneath the concrete slab at boring location MW-1; however, imported structural sub-base was not encountered beneath the concrete floor slab at some other borehole locations on the subject property.

At the monitoring well locations MW-1 and MW-2, native soils generally consist of silt alternating with layers of silty sand and gravelly silt. The boring log for MW-3 indicates that native soil is well-graded sand



with varying amounts of finer materials transitioning to poorly-graded sand near the bottom of the boring. Monitoring well locations are shown on Figure 3.

Shallower borings U-1 through U-9 generally have poorly-graded sand with varying amounts of gravel and silt in the upper 10 to 15 feet bgs transitioning to well-graded sand with clay below 15 feet bgs.

Shallow DPT borings performed during the LSI, generally shallower than 10 feet bgs, exhibit sandy soils, either well- or poorly-graded, with varying amounts of silt and clay. DPT locations P-1 through P-4 exhibit clay from the surface to 4 feet bgs, the terminal depth of those borings.

Borings advanced as part of the data dap investigation in 2020 were consistent with these prior findings and support an interpretation that the subsurface soils represent sequences of advancing and retreating glacial deposits.

Boring logs for all borings and as-built well diagrams for monitoring wells completed by EPI and TRC at the subject property are presented in Attachment A.

# 2.5.3 Hydrogeology

Groundwater movement in the Puget Sound region is generally limited to the uppermost (most recent) alluvial deposits of sand and gravel, which are commonly underlain or overlain by relatively impermeable glacial till deposits. The presence of relatively dense and impermeable glacial till throughout the region commonly impedes the lateral and vertical movement of groundwater and contaminants. In addition, some of the permeable water-bearing units are laterally discontinuous and contain thin, perched, discontinuous zones of shallow groundwater that might be present seasonally and locally in shallow intervals above the more extensive deeper aquifer commonly present on underlying low permeability glacial till.

It is also not uncommon for the historical shallow groundwater table to be currently absent due to the extensive development and hardscaping of the local area. Most of the area of the subject property is 100 percent covered with impervious surfaces with virtually no surface recharge or infiltration from seasonal precipitation.

Groundwater at the subject property, within the depths explored, is present in two intervals representing two distinct and separate hydrostratigraphic units:

- Shallow Perched Groundwater: Occurs in thin discontinuous zones that are not present at all boring locations at the subject property. Based on field data from prior assessment, shallow perched groundwater was present in fewer than half of the borings advanced on the subject property and, where encountered, was generally less than 1 foot thick. Because shallow perched groundwater is sporadically encountered in discontinuous zones, groundwater flow direction evaluations for these occurrences of perched water are not possible or warranted.
- **Regional Groundwater:** Based on well logs from the subject property and north-adjacent Troy Laundry Site, the deeper regional aquifer beneath the subject property is present at



elevations of approximately 9 to 11 feet MSL (i.e., 85 to 95 feet below grade) and flows in a southerly to southwesterly direction. The subject property is hydraulically crossgradient to downgradient of the Troy Laundry Site based on documented deeper regional aquifer groundwater flow direction data presented in the RI Report for the Troy Laundry Site (SES 2020).

# 2.5.4 Soil Characterization

Subsurface conditions at the subject property vary depending on the specific AOPC investigated and the total depth reached during the investigation. Generally, shallow soil immediately beneath the concrete floor slab in areas of AOPC 1, consisted of approximately 2 to 6 inches of imported, sub-base material. Native soils located beneath the sub-base material generally consisted of well-graded sands, clay-sand mixtures, and clay to approximately 7 feet bgs, where the soils commonly transition to poorly-graded sands with gravel and thick units of lean clay, down to the maximum depth explored. The native soils are typical of dense glacial till, which is common in the region where the subject property is located.

Soil samples collected during the Site characterizations were analyzed for multiple constituents and constituent groups. Laboratory analyses that were performed on soil samples included the following:

- GRO
- DRO and ORO
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX)
- VOCs
- cVOCs
- Carcinogenic polycyclic aromatic hydrocarbons (cPAHs)
- PCBs
- Resource Conservation and Recovery Act (RCRA) Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver)

Not all analyses were performed on every soil sample. Analyses were selected based on historical operations within the AOPCs, MTCA requirements specific to petroleum hydrocarbon analyses, and analyses required for waste characterization and disposal. During the SI and Data Gap investigation, laboratory analyses were adjusted based on evaluations of analytical results from the same area that was investigated during the LSI. Sample intervals during the 2020 Data Gap investigation were in response to Ecology's comments in their July 14, 2020 Opinion Letter.

Soil analytical results for samples collected at the subject property are discussed below for each of the identified AOPCs.

#### **AOPC 1 – Printing Press Areas**

During the LSI, soil samples were obtained from 16 sample locations within AOPC 1 at depths ranging from immediately beneath the concrete slab to 4 feet bgs using DPT methods. All soil sample locations are presented on Figure 3.



Analytical results for soil samples from AOPC 1 are summarized in Tables 1 and 4 and are described below:

- Petroleum hydrocarbons (GRO, DRO, and ORO) were not detected in any of the soil samples from AOPC 1.
- VOCs were not detected in any of the soil samples from AOPC 1.
- PCBs Aroclor® 1254 was detected in two near-surface soil samples from locations P-2 and P-19, at concentrations of 0.2 milligrams per kilogram (mg/kg) and 0.23 mg/kg, respectively. Both detected concentrations are less than the MTCA Method B Soil CUL of 0.5 mg/kg for this PCB.
- The RCRA metals chromium, arsenic, silver, barium, and lead were detected in at least one of the 17 soil samples from AOPC 1. None of the RCRA metals were detected at concentrations greater than their applicable MTCA Method A Soil CULs.
- Chromium data for total chromium and were not speciated to distinguish chromium III (CUL is 2,000 mg/kg) from chromium VI (CUL is 19 mg/kg). If the total chromium results represent only chromium VI, then seven of the 17 chromium concentrations exceed the lower MTCA Method A Soil CUL of 19 mg/kg for chromium VI. However, this is very unlikely due to chromium's instability in the chromium VI oxidation state. This statement regarding chromium speciation relative to regulatory CULs is applicable to all subsequent evaluations of chromium data presented in this report.

Based on the sample results from the LSI, which indicate no exceedances of MTCA Method A Soil CULs for any of the constituents analyzed, no remediation is warranted in AOPC 1. Based on the favorable soil data from the LSI, AOPC 1 soil was not further investigated during subsequent remedial investigation activities.

#### **AOPC 2 – Interior Ink Tanks**

During the LSI, a total of nine soil borings were advanced near the interior ink tanks in and near AOPC 2. These borings include T-1, T1A, T-3, T4, T-5, T-6, T-7, and MW-10 using DPT and sonic drilling methods. The AOPC 2 soil boring sample locations are presented on Figure 3.

Soil samples collected at AOPC 2 were analyzed for GRO, DRO, ORO, VOCs, PCBs, and/or RCRA metals. Analytical results for soil samples from AOPC 2 are summarized in Tables 1 and 4 and are described below:

- GRO was detected in samples from T-8 and MW-8 at concentrations of 5.8 mg/kg and 21 mg/kg, respectively. Both detected concentrations for GRO are less than the MTCA Method A Soil CUL of 30 mg/kg.
- DRO was detected in the 10-foot bgs sample from MW-8 at a concentration of 600 mg/kg, which is less than the MTCA Method A Soil CUL of 2,000 mg/kg. This detected concentration



has an "X" data qualifier indicating that the chromatograph does not resemble the standard used for quantitation.

- ORO was detected in samples from T-8 (5 feet bgs) and MW-8 (10 feet bgs) at concentrations of 360 mg/kg and 5,000 mg/kg, respectively. The ORO concentration for the sample from MW-8 exceeds the MTCA Method A Soil CUL of 2,000 mg/kg.
- The VOCs naphthalene and 1,2,4-trimethylbenzene were detected in the 10-foot bgs soil sample from boring MW-8 at concentrations of 0.17 mg/kg and 0.12 mg/kg, respectively. The concentration of naphthalene is lower than the MTCA Method A Soil CUL of 5 mg/kg. The concentration of 1,2,4-trimethylbenzene is less than the MTCA Method B Soil CUL of 800 mg/kg.
- PCBs were not detected.
- The RCRA metals arsenic, barium, chromium, and lead were detected in at least one of the 13 soil samples collected from AOPC 2. None of the RCRA metals were detected at concentrations greater than the applicable MTCA Method A or B Soil CULs.

Based on data collected during the LSI and SI, soil at sample location MW-8 in AOPC 2 requires remediation for ORO. The sample location MW-8, where ORO was detected at a concentration greater than the MTCA Method A CULs, is presented on Figure 4.

#### AOPC 3 – Ink Room

A total of four shallow soil borings were advanced to 5 feet bgs in AOPC 3 using DPT methods. AOPC 3 soil boring sample locations are presented on Figure 3.

Analytical results for soil samples from AOPC 3 are summarized in Tables 1 and 4 and are described below:

- GRO, DRO, and ORO were not detected in any of the soil samples from AOPC 3.
- VOCs were not detected in any of the soil samples from AOPC 3.
- RCRA metals chromium, arsenic, barium, and lead were detected in at least one of the four soil samples from AOPC 3. None of the RCRA metals were detected at concentrations greater than their applicable MTCA Method A Soil CULs.

Based on the sample results there are no exceedances of MTCA Method A CULs in AOPC 3 and no remediation or special handling or disposal of soils is required.

#### **AOPC 4 – Compressor Room**

A total of six shallow soil borings were performed using DPT probe methods near the air compressors in AOPC 4 at the locations depicted on Figure 3. Sample depths were shallow due to dense glacial till



encountered in this area and range from surface samples to 0.75 foot bgs. The samples were analyzed for GRO, DRO, ORO, VOCs, PCBs, and RCRA. Wipe and product samples were also collected from locations within AOPC 4 and were analyzed for PCBs only. The wipe and product samples were collected for evaluating decontamination and disposal options for on-Site equipment, not for subsurface characterization purposes. Wipe and product samples do not represent environmental media and are not discussed further in this RRI Report.

Analytical results for soil samples from AOPC 4 are summarized in Tables 1 and 4, and are described below:

- GRO, DRO, and ORO were not detected in any of the soil samples from AOPC 4.
- VOCs were not detected in any of the soil samples from AOPC 4.
- PCBs were detected in samples C-2 and C-12 at concentrations of 1.3 mg/kg and 1.2 mg/kg, respectively. Both detected concentrations are greater than the MTCA Method A Soil CUL of 1.0 mg/kg. During the SI, PCBs were detected in samples C-17 and C-18 at concentrations of 0.055 mg/kg and 0.11 mg/kg, respectively. Both detected PCB concentrations from the SI are less than the MTCA Method A Soil CUL.
- RCRA metals, arsenic, barium, chromium, lead, and silver were detected in at least one of the soil samples from AOPC 4. None of the RCRA metals were detected at concentrations greater than their applicable MTCA Method A or B Soil CULs.

Based on the sample results from AOPC 4, a release of PCBs occurred to shallow soil at concentrations greater than the MTCA Method A Soil CUL and will require remediation during redevelopment. Sample locations where PCBs were detected at concentrations greater than MTCA Method A Soil CULs are presented on Figure 4.

#### **AOPC 5 – Northern UST Complex and Fuel Dispenser**

A total of seven borings were advanced near the USTs in AOPC 5 at the locations shown on Figure 3. Borings were advanced using a combination of DPT and HSA drilling methods, depending on access limitations. Except for boring U-3, which was terminated at 8 feet bgs due to refusal in dense glacial till, all borings were advanced to approximately 20 feet bgs. Eight soil samples and one groundwater sample were collected and analyzed for GRO, DRO, ORO, BTEX, and VOCs.

An additional seven soil boring locations were advanced using an HSA drilling rig to depths of up to 20 feet bgs during the 2018 SI performed at AOPC 5. Soil samples were collected at 5-foot intervals and analyzed for GRO, DRO, ORO, and VOCs.

Analytical results for soil samples from AOPC 5 for the 2012 LSI and 2018 SI are summarized in Tables 1 and 4 and are described below:

 Petroleum hydrocarbons (GRO, DRO, and ORO) were not detected in the seven LSI soil samples from AOPC 5.



- GRO was detected in two SI samples, U-11:20 and U-12:20, at concentrations of 12 mg/kg and 940 mg/kg, respectively. The 940 mg/kg concentration in the U-12:20 sample exceeds the MTCA Method A Soil CUL of 30 mg/kg, which is appropriate for sites where benzene has been detected.
- DRO was detected in SI sample U-12-20 at a concentration of 2,100 mg/kg, which slightly exceeds the MTCA Method A Soil CUL of 2,000 mg/kg. This detected concentration has an "X" data qualifier indicating that the chromatograph does not resemble the standard used for quantitation.
- A total of 14 VOCs were detected in at least one of the AOPC 5 soil samples collected during the SI; however, benzene and naphthalene were the only detected VOCs with concentrations exceeding MTCA Method A Soil CULs as summarized below:
  - Benzene was detected in samples from U-11 and U-12 at concentrations of 0.15 mg/kg and 0.33 mg/kg, respectively, which exceed the MTCA Method A Soil CUL of 0.03 mg/kg.
  - Naphthalene was detected in sample U-12:20 at a concentration of 6.5 mg/kg, which exceeds the MTCA Method A Soil CUL of 5.0 mg/kg.

Based on the sample results from AOPC 5, a release of petroleum hydrocarbons occurred to soil at concentrations greater than the MTCA Method A Soil CUL and will require remediation during redevelopment. Soil sample locations with analytical results exceeding MTCA Method A Soil CULs in AOPC 5 are presented on Figure 4.

## AOPC 6 – Waste Oil UST

Two borings were advanced to 10 feet bgs near the waste oil UST in AOPC 6 using HSA drilling methods. Boring locations are shown on Figure 3. Soil samples were collected from 10-foot bgs sample depths and were analyzed for GRO, DRO, ORO, VOCs, cPAHs, PCBs, and RCRA metals. The constituent list for AOPC 6 is based on Ecology's analytical requirements for waste or unknown oils found in Table 830-1 of the MTCA regulations. Results of the soil analyses are presented in Table 1 and 4 and are described below:

- GRO, DRO, and ORO were not detected in the soil samples from AOPC 6.
- VOCs were not detected in the soil samples from AOPC 6.
- cPAHs were not detected in the soil samples from AOPC 6.
- PCBs were not detected in the soil samples from AOPC 6.
- RCRA metals chromium, arsenic, and lead were detected in both soil samples from AOPC 6. Concentrations for all detected RCRA metals were less than the MTCA Method A Soil CULs.



Based on the sample results for AOPC-6, which indicate no exceedances of MTCA Method A Soil CULs, no remediation or special handling or disposal of soils appears to be warranted in AOPC 6.

## AOPC 7 – Heating Oil UST

Six borings were advanced near the heating oil UST to depths between 5 and 20 feet bgs using DPT and hand auger drilling methods. Boring locations are shown on Figure 3. Soil samples were collected from the terminal depths of the borings and were analyzed for DRO, ORO, and BTEX.

Analytical results for soil samples from AOPC 7 are summarized in Tables 1 and 4 and are described below:

- DRO and ORO were not detected in any of the soil samples from AOPC 7.
- BTEX compounds were not detected in any of the soil samples from AOPC 7.

Based on the sample results, which indicate no exceedances of MTCA Method A Soil CULs, no remediation or special handling or disposal of soils appears to be warranted in AOPC 7

#### AOPC 8 – Heating Oil USTs

Three borings were advanced to depths of 8.5 to 9.0 feet bgs near the former heating oil USTs using DPT drilling methods. Boring locations are shown on Figure 3. Soil samples were collected from the terminal depths of the borings and were analyzed for DRO, ORO, and BTEX. Additional soil borings were performed at five locations during the SI, with two samples collected from each boring at different depths. These 10 samples were analyzed for DRO and ORO.

Analytical results for LSI and SI soil samples from AOPC 8 are summarized in Tables 1 and 4, and are described below:

- DRO was detected in soil samples from all three LSI borings at concentrations ranging from 290 mg/kg in sample A-2 to 940 mg/kg in sample A-3. All detected DRO concentrations are less than the MTCA Method A Soil CUL of 2,000 mg/kg. The three detected DRO concentrations have an "X" data qualifier indicating that the chromatograph does not resemble the standard used for quantitation. DRO was not detected in the 10 soil samples collected during the SI.
- ORO was detected in soil samples from all three LSI borings at concentrations ranging from 1,700 mg/kg in sample A-2 to 4,600 mg/kg in samples from A-1 and A-3. The two 4,600 mg/kg ORO detections exceed the MTCA Method A Soil CUL of 2,000 mg/kg. ORO was not detected in the 10 soil samples that were collected during the SI.
- BTEX compounds were not detected in soil samples from the three LSI borings. BTEX was
  not analyzed in the 10 soil samples collected during the SI based on the consistent nondetections in the LSI samples.



Based on these data, a release of ORO to soil occurred at concentrations greater than MTCA Method A Soil CULs and will require remediation during property redevelopment. Soil sample locations with analytical results exceeding MTCA Method A Soil CULs in AOPC 8 are presented on Figure 4.

## AOPC 9 – Hoists

Six borings were advanced using DPT drilling methods to depths ranging from 4 to 8 feet bgs near the hydraulic hoists in AOPC 9. Boring locations are shown on Figure 3. Soil samples were collected from the terminal depth at each boring and were analyzed for DRO, ORO, PCBs, and RCRA metals.

The analytical results for soil samples from AOPC 9 are summarized in Tables 1 and 4 and are described below:

- DRO was detected in soil samples from H-3 and H-4 at concentrations of 810 mg/kg and 120 mg/kg, respectively. Both detected DRO concentrations are less than the MTCA Method A Soil CUL of 2,000 mg/kg.
- ORO was detected in the soil sample from H-3 at a concentration of 640 mg/kg, which is less than the MTCA Method A Soil CUL of 2,000 mg/kg.
- RCRA metals arsenic, chromium, and lead were detected in all six of the soil samples from AOPC 9. None of the RCRA metals were detected at concentrations greater than the applicable MTCA Method A Soil CULs.

Based on the sample results, which indicate no exceedances of MTCA Method A Soil CULs, no remediation or special handling or disposal of soils appears to be warranted in AOPC 9. AOPC 9 soil was not investigated further during the SI.

#### AOPC 10 – Sumps

Unlike AOPCs 1 through 9, AOPC 10 does not represent a specific area but rather represents seven shallow groundwater dewatering sumps, identified as 10a through 10g. The sumps were concrete structures approximately 8 feet deep and were designed to capture and contain shallow perched groundwater that occurs seasonally at discontinuous locations throughout the subject property.

Three soil borings were advanced to depths ranging from 5 to 7 feet bgs near sumps labeled 10c, 10d, and 10g using DPT drilling methods. The three sump boring locations are presented on Figure 3. Soil samples were collected from the terminal depth at each boring and were analyzed for DRO, ORO, VOCs, PCBs, and RCRA metals.

The analytical results for soil samples from AOPC 10 are summarized in Tables 1 and 4 and are described below:

- DRO and ORO were not detected in any of the soil samples from AOPC 10.
- VOCs were not detected in any of the soil samples from AOPC 10.



- PCBs were not detected in any of the soil samples from AOPC 10.
- RCRA metals chromium, arsenic, and lead were detected in all six of the soil samples from AOPC 10. None of the RCRA metals were detected at concentrations greater than the applicable MTCA Method A Soil CULs.

Based on the sample results, which indicate no exceedances of MTCA Method A CULs, no remediation or special handling or disposal of soils appears to be warranted in AOPC 10. AOPC 10 soil was not further investigated during subsequent remedial investigation activities.

#### Potential Off-Site Sources

During the LSI, borings were advanced using an HSA drilling rig with the objective of sampling groundwater from the deeper regional aquifer at three locations, designated MW-1 through MW-3. Soil samples were collected from the borings and were analyzed for GRO, DRO, ORO, VOCs, cPAHs, PCBs, and RCRA metals. During the SI, five additional HSA borings were drilled with the intention of completing them as monitoring wells (i.e., MW-4 through MW-8). MW-4 and MW-5 were completed as shallow groundwater wells and groundwater samples were analyzed as described in Section 2.5.5. MW-6 through MW-8 were advanced with the intention of completing them as deeper aquifer monitoring wells. However, these borings encountered refusal due to dense glacial till and no groundwater was encountered to the maximum depth of exploration. These borings WW-6 through MW-8 are included in previous sections of this report. Monitoring well and boring locations are presented on Figure 3.

The analytical results for soil samples from borings MW-1 through MW-3 are summarized in Tables 1 and 4 and are described below:

- GRO, DRO, and ORO were not detected in any of the soil samples from borings for wells MW-1 and MW-2.
- VOCs were not detected in any of the soil samples from borings for wells MW-1 through MW-3.
- cPAHs were not detected in the soil sample from the borehole for well MW-2.
- PCBs were not detected in the soil sample from the borehole for well MW-2.
- RCRA metals chromium, arsenic, and lead were detected in samples from MW-1 and MW-2 and were not analyzed in samples from MW-3. None of the RCRA metals were detected at concentrations greater than the applicable MTCA Method A Soil CULs.

Based on the soil sample results from MW-1 through MW-3, which indicate no exceedances of MTCA Method A CULs, no remediation or special handling or disposal of soils appears to be warranted in the areas outside of the identified AOPCs.

# 2.5.5 Groundwater Characterization

Groundwater at the subject property generally occurs at two separate depths, representing two distinct and separate occurrences of groundwater consistent with regional groundwater conditions described in Section 2.5.3.

Due to the discontinuous nature of the shallow perched groundwater zones, groundwater was not encountered in all of the AOPCs. The AOPCs in which groundwater was encountered and sampled, and the nature of the groundwater occurrence at those locations are summarized below:

- AOPC 2: Interior Ink Tanks shallow perched groundwater
- AOPC 5: Northern UST Complex and Fuel Dispenser shallow perched groundwater
- AOPC 10: Sumps shallow perched groundwater
- Potential Off-Site Sources regional deeper groundwater

Analytical results for groundwater samples collected from these areas of the subject property are summarized by their respective AOPCs in the following sections.

#### AOPC 2 – Interior Ink Tanks

Reconnaissance samples of shallow perched groundwater were collected from temporary monitoring wells installed at borings T-4 through T-7 and T-9 during the SI; groundwater was not encountered at location T-8. All five groundwater samples were analyzed for DRO and ORO; the sample from T-9 was also analyzed for VOCs and GRO, as summarized in Tables 5 and 6. Locations of borings T-4 through T-7 and T-9 are presented on Figure 3.

Analytical results for reconnaissance groundwater samples from borings T-4 through T-7 and T-9 are summarized in Tables 5 and 6 and described below:

- GRO was not detected in the groundwater sample from T-9.
- DRO was detected in all five groundwater samples collected from T-4 through T-7 and T-9 at concentrations ranging from 170 micrograms per liter (µg/L) in the sample from T-6 to 8,600 µg/L in the sample from T-9. The samples from T-4, T-5, and T-9 have DRO concentrations that are greater than the MTCA Method A Groundwater CUL of 500 µg/L. All five detected DRO concentrations have an "X" data qualifier indicating that the chromatograph does not resemble the standard used for quantitation.
- ORO was detected in the samples from T-4, T-5, and T-9 at concentrations of 420 µg/L, 1,200 µg/L, and 3,000 µg/L respectively. The ORO concentrations in samples from T-5 and T-9 exceed the MTCA Method A Groundwater CUL of 500 µg/L. All three detected ORO concentrations have an "X" data qualifier indicating that the chromatograph does not resemble the standard used for quantitation.



 A total of seven VOCs were detected in the sample from T-9 with only one compound exceeding a MTCA CUL. Vinyl chloride was detected at a concentration of 0.22 μg/L, which exceeds the MTCA Method A Groundwater CUL of 0.2 μg/L.

Locations of groundwater samples with constituent concentrations exceeding MTCA CULs are presented on Figures 5 and 6.

#### **AOPC 5 – Northern UST Complex and Fuel Dispenser**

Shallow perched groundwater was encountered in boring U-6, located near the loading dock as shown on Figure 3. The groundwater sample from U-6 was analyzed for GRO, DRO, ORO, BTEX, and VOCs. During the SI, groundwater was encountered and sampled from six locations, U-10 through U-15, as shown on Figure 3. Groundwater samples from U-10 through U-15 were analyzed for GRO, DRO, ORO, and VOCs.

Analytical results for reconnaissance groundwater samples from U-6 and U-10 through U-15 are summarized in Tables 5 and 6 are described below.

- GRO was detected in groundwater samples from U-11 and U-12 at concentrations of 6,400 μg/L and 37,000 μg/L, respectively. Both concentrations exceed the MTCA Method A Groundwater CUL of 500 μg/L.
- DRO was detected in groundwater samples U-10 through U-15 at concentrations ranging from 230 µg/L to 6,700 µg/L. DRO concentrations in samples from U-10, U-11, U-12, and U-15 exceed the MTCA Method A Groundwater CUL of 500 µg/L. All six detected DRO concentrations have an "X" data qualifier indicating that the chromatograph does not resemble the standard used for quantitation.
- ORO was detected in groundwater samples from U-10 through U-13 and in the sample from U-15 at concentrations ranging from 390 µg/L to 4,700 µg/L. ORO concentrations in the samples from U-10, U-11, and U-15 exceed the MTCA Method A Groundwater CUL of 500 µg/L. All five detected ORO concentrations have an "X" data qualifier indicating that the chromatograph does not resemble the standard used for quantitation.
- A total of 17 VOCs were detected in one or more of the groundwater samples collected from AOPC 5. Exceedances of MTCA CULs for VOCs are summarized below.
  - ο Chloroform was detected in samples from U-6, U-11 and U-12 at concentrations of 2.4  $\mu$ g/L, 2.5  $\mu$ g/L, and 2.3  $\mu$ g/L, respectively. All three detected concentrations exceed the MTCA Method B Groundwater CUL of 1.41  $\mu$ g/L.
  - $\circ~$  Naphthalene was detected in the sample from U-12 at a concentration of 570  $\mu$ g/L, which exceeds the MTCA Method A Groundwater CUL of 160  $\mu$ g/L.



- Trichloroethene (TCE) was detected in samples from U-6 and U-13 at concentrations of 9.0 μg/L and 7.9 μg/L, respectively. These concentrations exceed the MTCA Screening Level for groundwater for the potential VI pathway (SL<sub>gw</sub>) of 1.4 μg/L.
- 1,2,4-Trimethylbenzene was detected in samples from U-11 and U-12 at concentrations of 540 μg/L and 2,900 μg/L, respectively. These concentrations exceed the MTCA Method B Groundwater CUL of 80 μg/L.
- 1,3,5-Trimethylbenzene was detected in samples from U-11 and U-12 at concentrations of 170 μg/L and 720 μg/L, respectively. These concentrations exceed the MTCA Method B Groundwater CUL of 80 μg/L.
- $_{\odot}$  Total xylenes were detected in the sample from U-12 at a concentration of 5,800 µg/L, which exceeds the MTCA Method A Groundwater CUL of 1,000 µg/L.

Locations of the groundwater samples with constituent concentrations exceeding MTCA CULs are depicted on Figures 5 and 6.

As noted earlier, the Troy Laundry Site is currently being investigated and remediated by the potentially liable parties (PLPs) under an Agreed Order. The PLPs have requested access to the subject property for the purpose of assessing the extent to which the Troy Laundry Site extends beneath the subject property. The Troy Laundry Site impacts at the subject property are not commingled with the Site. The groundwater impacts migrating beneath the subject property from the Troy Laundry Site are discussed further in the Off-Site Source section below.

## AOPC 10 – Sumps

Shallow perched groundwater was encountered in three sumps, S-2, S-4, and S-5 and was sampled and analyzed for GRO, DRO, ORO, and VOCs. Sump locations are shown on Figure 3 along with detections of constituents at concentrations greater than the MTCA Groundwater CULs.

Analytical results for shallow perched groundwater samples from sumps S-2, S-4, and S-5 are summarized in Tables 5 and 6 and are described below:

- GRO was not detected in any of the AOPC 10 sump samples.
- DRO was detected in the sump samples from S-4 and S-5 at concentrations of 310 µg/L and 110,000 µg/L, respectively. The DRO concentration of 110,000 µg/L in S-5 exceeds the MTCA Method A Groundwater CUL of 500 µg/L. The detected DRO concentrations have an "X" data qualifier indicating that the chromatograph does not resemble the standard used for quantitation.
- ORO was detected in the sump samples from S-4 and S-5 at concentrations of 1,900 µg/L and 10,000 µg/L, respectively. Both detected ORO concentrations exceed the MTCA Method A Groundwater CUL of 500 µg/L. The ORO concentration from sample S-5 has an "X" data



qualifier indicating that the chromatograph does not resemble the standard used for quantitation.

• Chloroform was the only VOC detected in the AOPC 10 sump groundwater samples at a concentration of 1.0  $\mu$ g/L in the sample from S-5, which is less than the MTCA Method B Groundwater CUL of 1.41  $\mu$ g/L.

Locations of groundwater samples with constituent concentrations exceeding MTCA CULs are presented on Figures 5 and 6.

#### **Off-Site Source**

A total of three monitoring wells, designated MW-1 through MW-3, were drilled and installed using HSA drilling methods along the northern subject property boundary as part of the LSI. The wells were installed in the deeper regional aquifer at the locations shown on Figure 3. The purpose of the wells was to provide groundwater data to evaluate the potential for impacts originating on the north-adjacent Troy Laundry Site migrating beneath the subject property. Groundwater samples collected from MW-1 and MW-2 were analyzed for GRO, DRO, ORO, VOCs, and RCRA metals.

It must be noted that monitoring wells MW-29 and MW-30 were installed on the property by the PLPs for the Troy Laundry Site with the permission of Onni. Those wells are completed within the deeper regional aquifer with the objective of assessing the degree to which the Troy Laundry Site extends beneath the subject property. The reviewer is referred to the Troy Laundry Site documentation for interpretation of the findings from those wells.

A laterally discontinuous lens of perched groundwater was encountered at approximately 20 feet bgs in the MW-3 borehole. A reconnaissance groundwater sample was collected from this perched water and was analyzed for VOCs only. After the shallow perched groundwater sample was collected, drilling continued and MW-3 was extended to a total depth of 100 feet bgs and was completed as a permanent monitoring well screened in the deeper regional aquifer. A groundwater sample was collected from the deeper aquifer and was sampled for VOCs only.

During the SI, five additional monitoring wells, designated MW-4 through MW-8, were drilled using HSA drilling methods. These wells were intended to provide samples from the deeper regional aquifer; however, groundwater was only encountered in MW-4 and MW-5. Groundwater samples from MW-4 and MW-5 were analyzed for VOCs. The locations of MW-4 through MW-8 are shown on Figure 3.

Analytical results for groundwater samples from MW-1 through MW-5 are summarized in Tables 5 and 6, and are described below:

- GRO was detected in the groundwater sample from MW-2 at a concentration of 340 μg/L, which is less than the MTCA Method a Groundwater CUL of 800 μg/L.
- DRO was detected in the groundwater sample from MW-2 at a concentration of 400  $\mu$ g/L, which is less than the MTCA Method a Groundwater CUL of 500  $\mu$ g/L. The DRO



concentration from sample from MW-2 has an "X" data qualifier indicating that the chromatograph does not resemble the standard used for quantitation.

- ORO was not detected in samples from MW-1 or MW-2.
- A total of 14 VOCs were detected in one or more of the groundwater samples collected from monitoring wells installed in the deeper regional aquifer. Exceedances of MTCA CULs are summarized below.
  - $_{\odot}$  Chloroform was detected in the groundwater sample from MW-2 at a concentration of 2.3  $\mu$ g/L, which exceeds the MTCA Method B Groundwater CUL of 1.41  $\mu$ g/L.
  - $\circ~$  PCE was detected in the groundwater sample from MW-2 at a concentration of 10  $\mu$ g/L, which exceeds the MTCA Method A Groundwater CUL of 5  $\mu$ g/L.
  - $_{\odot}$  TCE was detected in the groundwater sample form MW-2 at a concentration of 5.6 µg/L, which exceeds the SL\_{gw} of 1.4 µg/L.
  - $\circ$  Vinyl chloride was detected in the groundwater sample from MW-2 at a concentration of 1.3 µg/L, which exceeds the MTCA Method A Groundwater CUL of 0.2 µg/L.
- Arsenic, chromium and lead were the only RCRA metals detected in samples from MW-1 and MW-2.
  - $\circ$  Arsenic and dissolved arsenic were detected in the sample from MW-1 at concentrations of 1.38 and 1.10 μg/L, respectively. Arsenic was detected in the sample from MW-2 at a concentration of 2.19 μg/L. All three detected arsenic concentrations are less than the MTCA Method A Groundwater CUL of 5.0 μg/L.
  - o Total chromium was detected at a concentration of 57.1 µg/L in the sample from MW-2, which exceeds the MTCA Method A Groundwater CUL of 50 µg/L. The MTCA Method A Groundwater CUL conservatively assumes that 100 percent of the detected total chromium concentration is chromium VI, which is unlikely. Turbidity was high in the sample from MW-2 and the sample was also analyzed for dissolved metals (filtered to 0.45 microns). The concentration for dissolved chromium in the sample from MW-2 is 2.8 µg/L with a data qualifier indicating potential lab contamination. The dissolved chromium result is significantly less than the MTCA Method A Groundwater CUL of 50 µg/L, which indicates that chromium is not a concern for the deeper aquifer. Chromium was not detected in the sample from MW-1.
  - $\circ~$  Lead was detected in the sample from MW-2 at a concentration of 4.84 µg/L, which is less than the MTCA Method A Groundwater CUL of 15 µg/L. Lead was not detected in the sample from MW-1.

The PCE, TCE, and vinyl chloride that were detected at concentrations greater than MTCA Method A Groundwater CULs in the sample from MW-2 are likely attributable to the north-adjacent, and



hydraulically upgradient Troy Laundry Site. Based on deeper regional aquifer data from wells MW-29 and MW-30 the impacts at MW-2 are likely related to the Troy Laundry Site. The identified impacts at MW-2 are present solely as a result of passive migration from an off-property source and Onni is not a PLP for those impacts.

Locations of groundwater sample locations with constituent concentrations exceeding MTCA Method A or B Groundwater CULs are presented on Figures 5 and 6.

#### Site-Wide Data Gap Characterization

The January 2020 RI Report provided a summary of site characterization data and Ecology recommended additional characterization to close specific data gaps.

TRC advanced borings TRC-B1 through TRC-B9 in October and November 2020 with the objective of characterizing the lateral and vertical extent of cVOC impacts detected in soil from the borings for wells MW-29 and MW-30, advanced by the Troy Laundry Site parties. Those borings contained PCE and TCE at 20 and 30 feet below grade. With the exceptions of borings TRC-B5 and TRC-B6, the soil borings were terminated at 50 feet bgs. Borings TRC-B5 and TRC-B6 were terminated at 20 feet bgs due to their location.

TRC also constructed two pair of nested wells, MW-9S / MW-9 and MW-10S / MW-10. These wells were constructed and sampled with the objective of confirming that shallow and deeper groundwater at the Site are not in hydraulic communication and that impacts from the Site have not migrated vertically to the depth of the Troy Laundry Site. Monitoring wells ending in "S" were completed with screened sections within the shallow perched water bearing zone and the other wells (i.e., MW-9 and MW-10) were screened within the deeper regional aquifer. Soil samples were analyzed from these borings as well.

#### Soil Analytical Results

Soil samples collected during the site-wide data gap characterization investigation in late 2020 were analyzed for VOCs of concern at the Site. Soil analytical data are summarized in Tables 1 and 4 and presented on Figure 7.

The only compound detected in soil during the Site-wide data gap characterization was TCE:

- 0.055 mg/kg and 0.046 mg/kg at depths of 20 and 30 feet bgs at MW-9, respectively; and
- 0.032 mg/kg, 0.034 mg/kg, and 0.047 mg/kg at depths of 30, 41, and 50 feet bgs at MW-10, respectively.

TCE was not detected in any other soil samples at a concentration greater than the method detection limit (MDL). No other VOCs were detected in soil during the Site-wide data gap characterization.

These results demonstrated the lateral and vertical extent of TCE in soil to a high degree of certainty.



#### Groundwater Analytical Results

Groundwater samples from the nested wells were collected in November 2020 and analyzed for drycleaning compounds. Groundwater analytical data are summarized in Tables 5 and 6.

PCE, TCE and cDCE were detected in groundwater samples during the Site-wide data gap characterization:

#### Shallow Perched Water Bearing Zone

- 1.0 µg/L PCE was detected at well MW-10S; and
- 6.2 µg/L TCE was detected at well MW-9S.

These data are generally consistent with on-property migration from the north of impacts related to the Troy Laundry Site. The TCE concentration of 6.2  $\mu$ g/L at MW-9 exceeds the MTCA Method A Groundwater CUL of 5  $\mu$ g/L. At present, there are no known sources of PCE or TCE on the subject property.

#### Deeper Regional Groundwater

- 2.2 µg/L TCE was detected at well MW-10; and
- 3.5 µg/L cDCE was detected at well MW-9.

These data are consistent with the known contaminants from the Troy Laundry Site within the deeper aquifer and with the deeper aquifer impacts observed at MW-29 and MW-30.

## 2.6 Chemicals of Concern

The chemicals of concern (COCs) for the Site were identified during the prior RI and the current data do not indicate that those COCs should be revised. Constituents analyzed in samples collected from environmental media were selected based on potential sources (e.g., USTs, air compressors, etc.), and historical operations (e.g., vehicle fueling, printing presses, vehicle maintenance) at the subject property. Analytical results for samples collected from the various AOPCs at the subject property were evaluated and constituent lists for follow-on sampling events were adjusted based on those AOPC-specific analytical results.

COCs were identified in the impacted media of soil, shallow perched groundwater, and deeper regional groundwater based on their detections at concentrations greater than MTCA Method A CULs. In the absence of a MTCA Method A CUL, the default MTCA Method B CUL was used as a screening tool for COC identification. The COCs for affected environmental media at the subject property are described below.

## 2.6.1 Chemicals of Concern – Soil

Soil samples were analyzed for GRO, DRO, ORO, BTEX, VOCs, cPAHs, PCBs, and RCRA metals. Evaluations of analytical results from the previous Site characterization investigations resulted in the



following soil COCs, which were detected at concentrations exceeding MTCA Method A or B Soil CULs at the sample locations listed:

- GRO SI sample U-12:20 from AOPC 5.
- DRO SI sample U-12:20 from AOPC 5.
- ORO LSI samples A-1 and A-3 from AOPC 8 and SI sample MW-8:10 from AOPC 2.
- Benzene SI samples U-11:15 and U-12:15 from AOPC 5.
- Naphthalene SI sample U-12:20 from AOPC 5.
- TCE Site-wide data gap characterization, in the northwestern portion of the subject property adjacent to the Troy Laundry Site.
- PCBs LSI samples C-2 and C-12 from AOPC 4.

## 2.6.2 Chemicals of Concern – Shallow Perched Groundwater

Shallow perched groundwater is sporadically encountered in thin discontinuous lenses. Shallow perched groundwater was also encountered in the sumps in AOPC 10. Where encountered, shallow perched groundwater was sampled and analyzed for GRO, DRO, ORO, BTEX, VOCs, and RCRA metals. Evaluations of analytical results from the prior Site characterization investigations resulted in the following shallow perched groundwater COCs, which were detected at concentrations exceeding MTCA CULs at the sample locations listed:

- GRO SI samples U-11:GW and U-12:GW from AOPC 5.
- DRO SI samples T-4:GW, T-5:GW, and T-9:GW from AOPC 2. SI samples U-10:GW, U-11-:GW, U-12:GW, and U-15 from AOPC 5. LSI sample S-5 from AOPC 10.
- ORO SI samples T-5:GW and T-9:GW from AOPC 2. SI samples U-10:GW, U-11:GW, U-12:GW, and U-15 from AOPC 5. LSI samples S-4 and S-5 from AOPC 10.
- Chloroform SI samples U-6, U-11:GW, and U-12:GW from AOPC 5.
- Naphthalene SI sample U-12:GW from AOPC 5.
- 1,2,4-Trimethylbenzene and 1,3,5-trimethylbenzene SI samples U-11:GW and U-12:GW from AOPC 5.
- Total xylenes SI sample U-12:GW from AOPC 5.
- TCE SI samples U-6 and U-13:GW from AOPC 5, MW-9S.



• Vinyl chloride – SI sample T-9:GW from AOPC 2.

## 2.6.3 Chemicals of Concern – Deeper Regional Groundwater

Deeper regional groundwater was encountered and sampled at eight locations, MW-2 through MW-5, MW-9 and MW-10, and MW-29 and MW-30. Deeper regional groundwater samples were analyzed for GRO, DRO, ORO, VOCs, and RCRA metals. Evaluations of analytical data from the prior Site characterization investigations resulted in the following deeper regional groundwater COCs, which were detected at concentrations exceeding MTCA Groundwater CULs at the sample locations listed:

- Chloroform MW-2 from Potential Off-Site Sources (Troy Laundry) along the northern property boundary.
- PCE –MW-2, MW-29, MW-30 from Potential Of-Site Sources (Troy Laundry).
- TCE –MW-2, MW-29, and MW-30 from Potential Off-Site Sources (Troy Laundry).
- Vinyl chloride MW-2, MW-29, and MW-30 from Potential Off-Site Sources (Troy Laundry).

Chromium was evaluated for inclusion in the COC list for groundwater due to a 57.1  $\mu$ g/L detection of total chromium in the sample from MW-2, which is greater than the MTCA Method A Groundwater CUL of 50  $\mu$ g/L. However, the concentration of dissolved chromium in that sample was 2.8  $\mu$ g/L. Therefore, it is likely that the total chromium sample result is a false positive, potentially caused by sample turbidity.

The deeper regional groundwater cVOC impacts are not part of the former Seattle Times Property Site. All minor subject property impacts from cVOCs are limited to less than 50 feet below grade. Moreover, there is at about 45 feet of vertical separation between the deepest detectable concentration of a cVOC in soil and the top of the deeper regional aquifer.



# 3.0 CONCEPTUAL SITE MODEL

The conceptual site model (CSM) for the subject property is based on soil and groundwater data collected during the two main phases of subsurface investigation (i.e., the LSI and SI). Geologic materials encountered as well as soil and groundwater data for the subject property are represented on two geologic cross-sections designated A-A', which extends north to south, and B-B', which extends west to east through the subject property. The alignments of the two geologic cross-sections are depicted on Figure 3. Cross-section A-A' extends from the former Troy Laundry property south through the subject property and is depicted on Figure 8. Cross-section B-B' extends from Boren Avenue N to the west to Fairview Avenue N to the east and is depicted on Figure 9.

Because there are cVOC impacts to the deeper regional aquifer and associated soil vapor that originate from the north-adjacent former Troy Laundry property (SES 2020), the CSM is separated into two models to accurately describe the on-Site and off-Site (Troy Laundry) source areas, mechanisms of release and transport, and potential receptors. The two CSMs are described below.

# 3.1 On-Site Source Conceptual Site Model

Impacts to soil and shallow, perched, discontinuous lenses of groundwater at the subject property are the result of several confirmed and potential on-Site release mechanisms, including the following:

- Leaking USTs (vehicle fuel, heating oil, ink);
- Vehicle maintenance operations and hydraulic hoists;
- Fuel dispensing operations;
- Sumps;
- Air compressor use and maintenance; and
- Printing press operation and maintenance.

Contaminant releases from these Site-specific mechanisms were at the surface or near the surface, in the case of sumps, and in the case of USTs generally within the upper 10 to 15 feet of soil. Petroleum hydrocarbons, especially DRO and ORO have low solubility in water and commonly bind to soil and do not spread laterally over great distances. In addition, because these compounds are less dense than water, they do not migrate downward through the groundwater column.

Figure 10 presents the CSM for impacts to environmental media caused by on-Site sources. The on-Site source CSM lists COCs and their primary source(s), media affected, transport mechanisms, exposure media and pathways, and potential receptors for impacted soil, groundwater, soil vapor, and air caused by on-Site sources.



Releases from surface sources such as printing presses, air compressors, and fuel dispensers create impacts that are generally limited to surface and shallow soil, including the shallow soil beneath former building slabs as depicted graphically on the geologic cross-sections (Figures 8 and 9).

Releases from USTs and hydraulic hoists are subsurface releases that impact soil to a greater depth than soil impacted by surface releases. Impacts to soil from subsurface releases extend downward to discontinuous lenses of shallow perched groundwater at several locations, particularly in AOPC 2 (interior ink tanks) and AOPC 5 (northern UST complex and fuel dispenser area). In these areas, thin discontinuous lenses of shallow perched groundwater were encountered in the upper 15 to 20 feet bgs at some locations. Impacted soil can extend into those occurrences of shallow perched groundwater or contaminants might be leached from impacted soil to the shallow perched groundwater as shown on Figures 8 and 9.

# 3.2 Off-Site Source Conceptual Site Model

The off-Site source for subsurface impacts at the Site is releases of cVOCs such as PCE and its environmental degradation products TCE, cDCE and VC, and other dry-cleaning fluids from historical operations at the Troy Laundry Site. Troy Laundry operated from 1926 to 1985 and was one of the Pacific Northwest's largest commercial dry-cleaning facilities.

Figure 11 presents the CSM for impacts to environmental media caused by off-Site sources, specifically, releases of cVOCs from the former Troy Laundry property. The off-Site source CSM lists COCs and their primary source(s), media affected, transport mechanisms, exposure media and pathways, and potential receptors for impacted soil, groundwater, soil vapor, and air caused by the former Troy Laundry off-Site source.

Releases of PCE on the former Troy Laundry property have migrated vertically downward through the soil column and impacted the deeper regional aquifer. Groundwater flow in the deeper regional aquifer is toward the southeast as documented in the SES RI Report for the former Troy Laundry property, which documented deeper regional aquifer flow direction indicates that impacted groundwater under the former Troy Laundry property flows toward the subject property (SES 2012). Chlorinated VOC impacts to the deeper regional aquifer appear to be limited to the far northern portion of the subject property, the area closest to the former Troy Laundry property source area, as shown on Figure 7.

The Troy Laundry Site is separate and distinct from the Site that is the subject of this RRI Report. To the extent that the subject property may been affected by the Troy Laundry Site, those impacts are solely the result of passive migration and Onni is not PLP for that Site. The PLPs for the Troy Laundry Site are parties to an Agreed Order with the State of Washington and Ecology and are actively addressing those impacts. Onni has, and is, providing access to the subject property as necessary to facilitate that ongoing investigation under the Agreed Order.

VOCs in soil vapor originating from the Troy Laundry Site have a limited potential to affect the subject property development. However, the below grade portions of the subject property development will be limited to about five floors of parking with ground floor commercial uses. The potential for exposure to VOC vapors is limited to parking garage users that have a very low exposure frequency and duration. This potential exposure is further limited by the additional depth between the bottom of the development



(i.e., 50 feet) and the depth to groundwater (i.e., 85 to 95 feet) and the 35 to 45 feet of vertical separation between groundwater and the bottom of the building. Vapor intrusion risks are still further mitigated by the new building construction and the high degree of ventilation (e.g., four atmospheric turnovers per hour) typically required of parking garages for carbon monoxide ventilation. Lastly, the concentrations of PCE and cDCE detected in deeper groundwater beneath the subject property do not exceed the SL<sub>gw</sub> established for these compounds and would not trigger the need for further vapor intrusion assessment of mitigation. TCE is present in deeper groundwater at concentrations that only slightly exceed the SL<sub>gw</sub> but which are unlikely to affect soil vapor given the depth of separation between the deeper groundwater (i.e., greater than 40 feet) and the completed project. Therefore, the potential exposures associated with vapor intrusion from low level VOCs at the limits of the dissolved-phase plume are not considered a concern for the subject property. Regardless, the planned interim action will include sampling and analysis to further assess the potential for VI at the subject property.

# 4.0 PROPOSED CLEANUP STANDARDS

Cleanup standards consist of two components: CULs and points of compliance (POCs) where CULs are be achieved for the COCs identified during Site characterization. As required by MTCA, the selected CULs are protective of human health and the environment based upon the potential exposure pathways that will remain after completion of the property redevelopment and any interim actions or remedial actions.

# 4.1 Soil Cleanup Levels

Soil COCs for the Site are GRO, DRO, ORO, benzene, naphthalene, and PCBs, which were detected at concentrations exceeding the MTCA Method A Soil CULs in at least one soil sample. MTCA Method B Soil CULs for direct contact and for the protection of groundwater, as well as MTCA Method C were considered, as summarized in the table below.

| Soil COC    | MTCA<br>Method A<br>(unrestricted<br>land use) | MTCA<br>Method B<br>(direct contact) | MTCA Method B<br>(protect GW at<br>13º C) | MTCA<br>Method C   | Proposed<br>CUL |
|-------------|--|--------------------------------------|---|--------------------|-----------------|
| GRO         | 30ª  | NVE                                  | NVE                                       | NVE                | 30ª             |
| DRO         | 2,000  | NVE                                  | NVE                                       | NVE                | 2,000           |
| ORO         | 2,000  | NVE                                  | NVE                                       | NVE                | 2,000           |
| Benzene     | 0.03   | 18.2                                 | 0.027                                     | 2,390              | 0.03            |
| Naphthalene | 5.0  | 1,600                                | 4.45                                      | 70,000             | 5.0             |
| TCE         | 0.03   | 12                                   | 0.025                                     | 1,800 <sup>b</sup> | 0.03            |
| Total PCBs  | 1.0  | 0.5                                  | NVE                                       | 65.6               | 1.0             |

## Proposed Cleanup Levels for Soil COCs (mg/kg)

Notes:

a GRO cleanup level with detected benzene.

b Non-cancer value, carcinogenic value is 2,900 mg/kg

GW Groundwater.

NVE No value established.

Based on an evaluation of the potential exposure pathways and receptors for COCs in soil, standard MTCA Method A Soil CULs for Unrestricted Land Uses (WAC 173-340-900 Table 740-1) were selected as the applicable CULs. In the case of total PCBs, the MTCA regulation (WAC 173-340-900, Table 740-1) indicates that the Method A value is "*based on applicable state and federal law*."

MTCA Method A CULs are conservative and are appropriate for Sites undergoing routine cleanup actions for relatively few hazardous substances, which is consistent with Site-specific conditions at the former Seattle Times property.

The standard POC for these soil CULs is all soil within 15 feet of the ground surface. This POC is protective of all potential human, terrestrial, and ecological exposures at the Site (WAC 173-340-740 (6)(d)).



# 4.2 Groundwater Cleanup Levels

Groundwater COCs at the Site are GRO, DRO, ORO, chloroform, naphthalene, total xylenes, TCE, and vinyl chloride, which were detected at concentrations exceeding MTCA Method A CULs for groundwater in at least one groundwater sample from the shallow perched groundwater or the deeper regional aquifer. MTCA Method B CULs, MTCA Method C CULs, and Maximum Contaminant Levels (MCLs) were considered, as summarized in the table below.

| Groundwater<br>COC | MTCA<br>Method<br>A | MTCA<br>Method<br>B | MTCA<br>Method<br>C | Screening Level<br>for Groundwater<br>Protective of<br>Vapor Intrusion<br>(SLgw) | EPA or<br>Washington<br>State Maximum<br>Contaminant<br>Level | Proposed<br>CUL  |
|--------------------|---------------------|---------------------|---------------------|--|---|------------------|
| GRO                | 800 <sup>a</sup>    | NVE                 | NVE                 | NVE  | NVE   | 800 <sup>a</sup> |
| DRO                | 500                 | NVE                 | NVE                 | NVE  | NVE   | 500              |
| ORO                | 500                 | NVE                 | NVE                 | NVE  | NVE   | 500              |
| Chloroform         | NVE                 | 1.41                | 14.1                | 1.2  | 80  | 1.41             |
| Naphthalene        | 160                 | 160                 | 350                 | 8.9  | NVE   | 160              |
| Total Xylenes      | 1,000               | 1,600               | 3,500               | 25   | 10,000  | 1,000            |
| PCE                | 5                   | 21                  | 110                 | 320  | 5   | 5                |
| TCE                | 5.0                 | 0.54                | 9.51                | 1.4  | 5.0   | 1.4 <sup>b</sup> |
| 1,2,4-TMB          | NVE                 | 80                  | 180                 | 240  | NVE   | 80               |
| 1,3,5-TMB          | NVE                 | 80                  | 180                 | 170  | NVE   | 80               |
| Vinyl Chloride     | 0.2                 | 0.029               | 0.29                | 0.33   | 2.0   | 0.2              |

#### Proposed Cleanup Levels for Groundwater COCs (µg/L)

Notes:

| а   | GRO cleanup level with detectable benzene in groundwater.     |
|-----|---|
| b   | Value provided by Ecology based on CULs for Troy Laundry Site |
| EPA | U.S. Environmental Protection Agency.                         |
| ТМВ | Trimethylbenzene  |

Based on an evaluation of the potential exposure pathways and receptors for COCs in groundwater, standard MTCA Method A Groundwater CULs (WAC 173-340-900 Table 720-1) were selected as the applicable CULs, except for chloroform, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene, which do not have MTCA Method A CULs. For those compounds, the MTCA Method B CUL (carcinogenic) was selected. MTCA Method A CULs are considered conservative and are routinely used at similar sites. In the case of TCE and vinyl chloride the MTCA regulation (WAC 173-340-900, Table 720-1) indicates that the Method A values are "based on applicable state and federal law."

The POC for these groundwater CULs is within the thin discontinuous occurrences of shallow perched groundwater at the Site.

Impacted groundwater in the deeper regional aquifer is attributable to off-Site impacts from the northadjacent Troy Laundry Site. These impacts are related to historical dry-cleaning operations and are characterized by cVOCs, notably the dry-cleaning solvent PCE and its less chlorinated breakdown



products. As noted above, those impacts are separate and distinct from the Site that is the subject of this RRI Report. The impacts associated with the Troy Laundry Site are being addressed by the PLPs for that Site under an Agreed Order. Onni is voluntarily cooperating, to the extent required, with the PLPs in their assessment of VOC impacts to groundwater beneath the northern portion of the subject property.

### 4.3 Terrestrial Ecological Evaluation

The potential terrestrial exposures at the Site were evaluated using the Terrestrial Ecological Evaluation (TEE) procedures in WAC 173-340-7493. The Site qualified for an exclusion from performance of a TEE based on the fact at the completion of redevelopment, all areas of the Site will be covered with buildings or associated impervious surfaces such as concrete and asphalt (WAC 173-340-7491 (1)(b)). The completed Terrestrial Ecological Evaluation Form for the former Seattle Times property is presented in Attachment B.



### 5.0 CONCLUSIONS

The following conclusions are supported by the data and evaluations presented in this RRI Report:

- This RRI Report meets the substantive requirements of WAC 173-340-350(7) and Ecology's "Remedial Investigation Checklist," Publication No 16-09-006. All elements of Ecology's Remedial Investigation Checklist are presented herein.
- The Site has been sufficiently characterized and impacted media have been adequately delineated to facilitate the development and implementation of Site-specific cleanup action.
- Onni currently plans to redevelop the subject property, which will include a remedial action consisting of excavation and off-Site disposal of all contaminated media at the Site and within the subject property from property line to property line on all four sides (i.e., zero-setback). The redevelopment excavation will extend to a depth corresponding to an elevation of approximately 50 feet MSL, which is below the depth of all impacts greater than an applicable CUL from historical operations of the Seattle Times at the subject property. As such, the redevelopment will remove all contamination currently known to exist at the Seattle Times Site. Until remediation of the Troy Laundry Site is complete, some residual cVOCs may remain in deeper groundwater beneath the northwestern portion of the subject property at concentrations greater than CULs. At the completion of Site remedial actions, a *Cleanup Action Report* will be prepared documenting compliance with CULs throughout the subject property and Site. This planned remedial action will establish a standard POC consisting of all media throughout the Site.
- PCBs detected in soil at concentrations greater than the MTCA Method A Soil CUL are limited to two sample locations of surficial soil (less than 1 foot bgs) in AOPC 4. Additional multi-depth (5, 10, 15, and 20 feet bgs) soil sampling for PCBs in AOPC 4 was performed in April and May 2018. None of the 2018 soil samples from AOPC 4 had PCB detections at concentrations greater than the MTCA Method A Soil CUL (seven of nine sample results were non-detect for PCBs). These data demonstrate that PCB impacts to soil are limited to surface soil in a small area of AOPC 4.
- Soil samples with GRO, DRO, or ORO at concentrations greater than the CULs are limited to a few locations further described below:
  - ORO in samples A-1 (9 feet bgs) and A-3 (8.5 feet bgs) in AOPC 8. Additional testing performed during the SI in AOPC 8 included deeper sampling intervals generally extending from 15 to 20 feet bgs, with no detections of DRO or ORO demonstrating vertical delineation of ORO impacts to soil in this area.
  - ORO in the 10-foot bgs sample from MW-8 in AOPC 2. No deeper soil samples were collected at this location to bound the impacted area vertically. However, HSA drilling hit refusal at approximately 14 feet bgs indicating very dense glacial till, which has a low permeability and is resistant to downward migration of ORO. It is likely that ORO-impacted soil does not extend more than a few feet below current grade and the planned



50 feet bgs excavation for below ground parking will remove deeper soil impacts, if present.

- GRO and DRO in the 20 feet bgs soil sample from location U-12 in AOPC 5. No deeper soil samples were collected at this location to bound the impacted area vertically. However, the planned 50-foot bgs excavation for below ground parking will remove deeper soil impacts, if present.
- Benzene was detected in soil at concentrations greater than the CUL in samples from borings U-11 and U-12 in AOPC 5, both samples from 15 feet bgs. The 20-foot bgs samples from both locations were non-detect for benzene demonstrating vertical delineation.
- Naphthalene was detected in soil at a concentration greater than the CUL in the 20-foot bgs sample from boring U-12 in AOPC 5.
- Samples of shallow perched groundwater with one or more COCs at concentrations greater than CULs are limited to a few locations as further described below:
  - GRO, DRO, or ORO were detected in shallow perched groundwater at concentrations greater than the CULs in samples from locations T-4, T-5, and T-9 in AOPC 2 and locations U-1, U-11, U-12, and U-15 in AOPC 5.
  - VOCs, specifically chloroform, TCE, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, vinyl chloride, naphthalene, and total xylenes, were detected in shallow perched groundwater at concentrations greater than the CULs in samples from U-6, U-11, U-12, and U-13 in AOPC 5 and T-9 in AOPC 2.
- Chlorinated VOC impacts to the deeper regional aquifer are from historical releases of drycleaning fluid at the north-adjacent former Troy Laundry property. Deeper regional groundwater that is impacted by cVOCs is a separate and distinct site from the Seattle Times Site. Any further characterization or remediation of impacts to the deeper regional aquifer are the responsibility of the PLP for the north-adjacent former Troy Laundry property.
- Due to the urban nature of the surroundings, the Site qualifies for exclusion from TEE as there is neither a completed exposure pathway for TEE receptors nor sufficient nearby habitat.



### 6.0 NEXT STEPS

Under the requirements of the AO, the next step is to prepare an IAWP. The IAWP will document:

- The means and methods for handling and disposing of contaminated and impacted soils that will be encountered during redevelopment;
- The appropriate performance and compliance soil sampling to be performed during remedial and mass excavation during redevelopment;
- Necessary quality assurance and quality control procedures;
- Necessary health and safety considerations; and
- Necessary reporting and, if required, groundwater compliance sampling to be performed.

The IAWP is currently in preparation and will be submitted to Ecology as soon as possible.



### 7.0 DISCLAIMER

As applicable and available within the project schedule and budget, TRC has completed the agreed scope of services employing professional standards applicable in the industry today. TRC assumes no risk for existing conditions on the subject property.

To the extent that these services have required judgment, there can be no assurance that fully definitive or desired results were obtained, or if any results were obtained, that they were supportive of any given course of action. The services have included the application of judgment to scientific principles; to that extent, certain results of this work have been based on subjective interpretation. TRC makes no warranties, express or implied including, without limitation, warranties as to merchantability or fitness for a particular purpose. The information provided in this letter report is not to be construed as legal advice.



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Tables

### Table 1Summary of Soil Petroleum and PCB Analytical ResultsRevised Remedial Investigation ReportSeattle Times Site1120 John Street, Seattle, Washington

| Area of                |                 | Sample          |                      | Petrole | um Hydroc        | arbons           |                 |                 | Po              | lychlorinat     | ed Bipheny      | /Is <sup>c</sup> |                 |                 |               |
|------------------------|-----------------|-----------------|----------------------|---------|------------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|-----------------|-----------------|---------------|
| Potential<br>Concern   | Sample ID       | Depth<br>(feet) | Sample Date          | GROª    | DRO <sup>b</sup> | OR0 <sup>b</sup> | Aroclor<br>1221 | Aroclor<br>1232 | Aroclor<br>1016 | Aroclor<br>1242 | Aroclor<br>1248 | Aroclor<br>1254  | Aroclor<br>1260 | Aroclor<br>1262 | Total<br>PCBs |
|                        | P-1:0           | 0               | 7/19/2012            | <2      | <50              | <250             | <0.1            | <0.1            | <0.1            | <0.1            | <0.1            | <0.1             | <0.1            |                 | <0.1          |
|                        | P-2:0           | 0               | 7/19/2012            | <2      | <50              | <250             | <0.1            | <0.1            | <0.1            | <0.1            | <0.1            | 0.2              | <0.1            |                 | 0.2           |
|                        | P-3:0           | 0               | 7/19/2012            | <2      | <50              | <250             | <0.1            | <0.1            | <0.1            | <0.1            | <0.1            | <0.1             | <0.1            |                 | <0.1          |
|                        | P-4:0           | 0               | 7/19/2012            | <2      | <50              | <250             | <0.1            | <0.1            | <0.1            | <0.1            | <0.1            | <0.1             | <0.1            |                 | <0.1          |
|                        | P-5:0           | 0               | 7/19/2012            | <2      | <50              | <250             | <0.1            | <0.1            | <0.1            | <0.1            | <0.1            | <0.1             | <0.1            |                 | <0.1          |
|                        | P-6:0           | 0               | 7/19/2012            | <2      | <50              | <250             | <0.1            | <0.1            | <0.1            | <0.1            | <0.1            | <0.1             | <0.1            |                 | <0.1          |
|                        | P-7:0           | 0               | 7/19/2012            | <2      | <50              | <250             | <0.1            | <0.1            | <0.1            | <0.1            | <0.1            | <0.1             | <0.1            |                 | <0.1          |
| AOPC 1                 | P-8:1           | 1               | 7/20/2012            | <2      | <50              | <250             | <0.1            | <0.1            | <0.1            | <0.1            | <0.1            | <0.1             | <0.1            |                 | <0.1          |
| Printing Press<br>Area | P-9:1.5         | 1.5             | 7/24/2012            | <2      | <50              | <250             | <0.1            | <0.1            | <0.1            | <0.1            | <0.1            | <0.1             | <0.1            |                 | <0.1          |
| Alou                   | P-10:1.5        | 1.5             | 7/24/2012            | <2      | <50              | <250             | <0.1            | <0.1            | <0.1            | <0.1            | <0.1            | <0.1             | <0.1            |                 | <0.1          |
|                        | P-15:1.5        | 1.5             | 9/4/2012             |         | <50              | <250             | <0.1            | <0.1            | <0.1            | <0.1            | <0.1            | <0.1             | <0.1            |                 | <0.1          |
|                        | P-16:3          | 3               | 9/4/2012             |         | <50              | <250             | <0.1            | <0.1            | <0.1            | <0.1            | <0.1            | <0.1             | <0.1            |                 | <0.1          |
|                        | P-17:1.5        | 1.5             | 9/4/2012             |         | <50              | <250             |                 |                 |                 |                 |                 | <0.1             |                 |                 | <0.1          |
|                        | P-18:1.5        | 1.5             | 9/4/2012             |         | <50              | <250             | <0.1            | <0.1            | <0.1            | <0.1            | <0.1            | <0.1             | <0.1            |                 | <0.1          |
|                        | P-19:1.5        | 1.5             | 9/4/2012             |         | <50              | <250             | <0.1            | <0.1            | <0.1            | <0.1            | <0.1            | 0.23             | <0.1            |                 | 0.23          |
|                        | P-19:4          | 4               | 9/4/2012             |         | <50              | <250             | <0.1            | <0.1            | <0.1            | <0.1            | <0.1            | <0.1             | <0.1            |                 | <0.1          |
|                        | P-20:1.5        | 1.5             | 9/4/2012             |         | <50              | <250             | <0.1            | <0.1            | <0.1            | <0.1            | <0.1            | <0.1             | <0.1            |                 | <0.1          |
|                        | T-1:4           | 4               | 7/19/2012            |         | <50              | <250             |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | T-1A:4          | 4               | 7/20/2012            |         | <50              | <250             | <0.1            | <0.1            | <0.1            | <0.1            | <0.1            | <0.1             | <0.1            |                 | <0.1          |
|                        | T-2:1.75        | 1.75            | 7/24/2012            |         | <50              | <250             |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | T-2:4.5         | 4.5             | 7/24/2012            |         | <50              | <250             |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | T-3:2           | 2               | 7/24/2012            |         | <50              | <250             |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | T-4:5           | 5               | 5/2/2018             |         | <50              | <250             |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | T-4:10          | 10              | 5/2/2018             |         | <50              | <250             |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | T-5:5           | 5               | 5/2/2018             |         | <50              | <250             |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | T-5:10<br>T-6:5 | 10<br>5         | 5/2/2018<br>5/2/2018 |         | <50<br><50       | <250<br><250     |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | T-6:10          | 5<br>10         | 5/2/2018             |         | <50              | <250             |                 |                 |                 |                 |                 |                  |                 |                 |               |
| AOPC 2<br>Interior     | T-7:5           | 5               | 5/2/2018             |         | <50              | <250             |                 |                 |                 |                 |                 |                  |                 |                 |               |
| Tank Area              | T-7:10          | 10              | 5/2/2018             |         | <50              | <250             |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | T-8:5           | 5               | 5/20/2018            | 5.8     | <50              | 360              |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | T-9:15.5        | 15.5            | 10/27/2018           | <5      | <50              | <250             |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | T-9:20          | 20              | 10/27/2018           | <5      | <50              | <250             |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | T-10:10         | 10              | 10/27/2018           | <5      | <50              | <250             |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | T-10:20         | 20              | 10/27/2018           | <5      | <50              | <250             |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | MW-6:20         | 20              | 3/16/2019            | <5      | <50              | <250             |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | MW-6:35         | 35              | 3/16/2019            | <5      | <50              | <250             |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | MW-7:20         | 20              | 3/16/2019            | <5      | <50              | <250             |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | MW-7:35         | 35              | 3/16/2019            | <5      | <50              | <250             |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | MW-8:10         | 10              | 3/17/2019            | 21      | 600 x            | 5,000            |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | I-1:5           | 5               | 7/20/2012            | <2      | <50              | <250             |                 |                 |                 |                 |                 |                  |                 |                 |               |
| AOPC 3                 | I-2:5           | 5               | 7/20/2012            | <2      | <50              | <250             |                 |                 |                 |                 |                 |                  |                 |                 |               |
| Ink Room               | I-3:5           | 5               | 7/20/2012            | <2      | <50              | <250             |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | I-4:5           | 5               | 7/20/2012            | <2      | <50              | <250             |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | C-1:0.75        | 0.75            | 7/24/2012            | <2      | <50              | <250             | <0.1            | <0.1            | <0.1            | <0.1            | <0.1            | <0.1             | <0.1            |                 | <0.1          |
|                        | C-2:0.75        | 0.75            | 7/24/2012            | <2      | <50              | <250             | <0.1            | <0.1            | <0.1            | <0.1            | <0.1            | 1.3              | <0.1            |                 | 1.3           |
|                        | C-3:0.75        | 0.75            | 7/24/2012            | <2      | <50              | <250             | <0.1            | <0.1            | <0.1            | <0.1            | <0.1            | <0.1             | <0.1            |                 | <0.1          |
|                        | C-10:0.5        | 0.5             | 9/5/2012             |         | <50              | <250             | <0.1            | <0.1            | <0.1            | <0.1            | <0.1            | <0.1             | <0.1            |                 | <0.1          |
|                        | C-11:0.5        | 0.5             | 9/5/2012             |         | <50              | <250             | <0.1            | <0.1            | <0.1            | <0.1            | <0.1            | <0.1             | <0.1            |                 | <0.1          |
|                        | C-12            | 0               | 9/5/2012             |         | <50              | 420              | <0.1            | <0.1            | <0.1            | <0.1            | <0.1            | 1.2              | 1.1             |                 | 2.3           |
| AOPC 4                 | C-16:5          | 5               | 4/30/2018            |         |                  |                  | <0.02           | <0.02           | <0.02           | <0.02           | <0.02           | <0.02            | <0.02           | <0.02           | <0.02         |
| Compressor<br>Room     | C-16:10         | 10              | 4/30/2018            |         |                  |                  | <0.02           | <0.02           | <0.02           | <0.02           | <0.02           | <0.02            | <0.02           | <0.02           | <0.02         |
| RUUIII                 | C-17:5          | 5               | 5/1/2018             |         |                  |                  | <0.02           | <0.02           | <0.02           | <0.02           | <0.02           | <0.02            | <0.02           | <0.02           | <0.02         |
|                        | C-17:10         | 10              | 5/1/2018             |         |                  |                  | <0.02           | <0.02           | <0.02           | <0.02           | <0.02           | 0.055            | <0.02           | <0.02           | 0.055         |
|                        | C-18:8          | 8               | 4/30/2018            |         |                  |                  | <0.02           | <0.02           | <0.02           | <0.02           | <0.02           | 0.11             | <0.02           | <0.02           | 0.11          |
|                        | C-19:15         | 15              | 5/1/2018             |         |                  |                  | <0.02           | <0.02           | <0.02           | <0.02           | <0.02           | <0.02            | <0.02           | <0.02           | <0.02         |
|                        | C-19:20         | 20              | 5/1/2018             |         |                  |                  | <0.02           | <0.02           | <0.02           | <0.02           | <0.02           | <0.02            | <0.02           | <0.02           | <0.02         |
|                        | A-5/C-20:15     | 15              | 5/1/2018             |         |                  |                  | <0.02           | <0.02           | <0.02           | <0.02           | <0.02           | <0.02            | <0.02           | <0.02           | <0.02         |
| 1000 F                 | A-5/C-20:20     | 20              | 5/1/2018             |         |                  |                  | <0.02           | <0.02           | <0.02           | <0.02           | <0.02           | <0.02            | <0.02           | <0.02           | <0.02         |
| AOPC 5<br>Northern UST | U-1:15          | 15              | 7/19/2012            | <2      | <50              | <250             |                 |                 |                 |                 |                 |                  |                 |                 |               |
| Complex and<br>Fuel    | U-2:15          | 15              | 7/19/2012            | <2      | <50              | <250             |                 |                 |                 |                 |                 |                  |                 |                 |               |
| Dispenser              | U-3:8           | 8               | 7/20/2012            | <2      | <50              | <250             |                 |                 |                 |                 |                 |                  |                 |                 |               |



### Table 1 Summary of Soil Petroleum and PCB Analytical Results **Revised Remedial Investigation Report** Seattle Times Site 1120 John Street, Seattle, Washington

| Area of                |                    | Sample          |             | Petrole             | um Hydroc | arbons |                 |                 | Po              | lychlorinat     | ed Biphen       | /ls <sup>c</sup> |                 |                 | <b>-</b>      |
|------------------------|--------------------|-----------------|-------------|---------------------|-----------|--------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|-----------------|-----------------|---------------|
| Potential<br>Concern   | Sample ID          | Depth<br>(feet) | Sample Date | GROª                | DRO⁵      | ORO⁵   | Aroclor<br>1221 | Aroclor<br>1232 | Aroclor<br>1016 | Aroclor<br>1242 | Aroclor<br>1248 | Aroclor<br>1254  | Aroclor<br>1260 | Aroclor<br>1262 | Total<br>PCBs |
|                        | U-6:10             | 10              | 7/26/2012   |                     |           |        |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | U-6:15             | 15              | 7/26/2012   | <2                  | <50       | <250   |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | U-7:15             | 15              | 7/26/2012   | <2                  | <50       | <250   |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | U-8:15             | 15              | 7/26/2012   | <2                  | <50       | <250   |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | U-9:15             | 15              | 7/26/2012   | <2                  | <50       | <250   |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | U-10:5             | 5               | 5/13/2018   | <5                  | <50       | <250   |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | U-10:10            | 10              | 5/13/2018   | <5                  | <50       | <250   |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | U-11:15            | 15              | 5/13/2018   | <5                  | <50       | <250   |                 |                 |                 |                 |                 |                  |                 |                 |               |
| AOPC 5<br>Northern UST | U-11:20            | 20              | 5/13/2018   | 12                  | <50       | <250   |                 |                 |                 |                 |                 |                  |                 |                 |               |
| Complex and            | U-12:15            | 15              | 5/13/2018   | <5                  | <50       | <250   |                 |                 |                 |                 |                 |                  |                 |                 |               |
| Fuel<br>Dispenser      | U-12:20            | 20              | 5/13/2018   | 940                 | 2,100 x   | <250   |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | U-13:10            | 10              | 5/3/2018    | <5                  | <50       | <250   |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | U-13:15            | 15              | 5/3/2018    | <5                  | <50       | <250   |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | U-14:10            | 10              | 5/3/2018    | <5                  | <50       | <250   |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | U-14:15            | 15              | 5/3/2018    | <5                  | <50       | <250   |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | U-15:10            | 10              | 5/20/2018   | <5                  | <50       | <250   |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | U-15:15            | 15              | 5/20/2018   | <5                  | <50       | <250   |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | U-16:5             | 5               | 5/20/2018   | <5                  | <50       | <250   |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | U-16:15            | 15              | 5/20/2018   | <5                  | <50       | <250   |                 |                 |                 |                 |                 |                  |                 |                 |               |
| AOPC 6                 | W-1 (W1-10)        | 10              | 9/4/2012    | <2                  | <50       | <250   | <0.1            | <0.1            | <0.1            | <0.1            | <0.1            | <0.1             | <0.1            |                 | <0.1          |
| Waste Oil UST          | W-2 (W2-10)        | 10              | 9/6/2012    | <2                  | <50       | <250   | <0.1            | <0.1            | <0.1            | <0.1            | <0.1            | <0.1             | <0.1            |                 | <0.1          |
|                        | O-1:8              | 8               | 9/6/2012    |                     | <50       | <250   |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | O-2:9              | 9               | 9/6/2012    |                     | <50       | <250   |                 |                 |                 |                 |                 |                  |                 |                 |               |
| AOPC 7                 | O-3:5              | 5               | 9/6/2012    |                     | <50       | <250   |                 |                 |                 |                 |                 |                  |                 |                 |               |
| Heating Oil<br>UST     | AOPC7:SB1          | 20              | 5/17/2013   | <2                  | <50       | <250   |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | AOPC7:SB2          | 20              | 5/17/2013   | <2                  | <50       | <250   |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | AOPC7:SB3          | 20              | 5/17/2013   | <2                  | <50       | <250   |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | A-1:9              | 9               | 9/6/2012    |                     | 560 x     | 4,600  |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | A-2:9              | 9               | 9/5/2012    |                     | 290 x     | 1,700  |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | A-3:8.5            | 8.5             | 9/5/2012    |                     | 940 x     | 4,600  |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | A-4:15             | 15              | 4/30/2018   |                     | <50       | <250   |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | A-4:20             | 20              | 4/30/2018   |                     | <50       | <250   |                 |                 |                 |                 |                 |                  |                 |                 |               |
| AOPC 8                 | A-5/C-20:15        | 15              | 5/1/2018    |                     | <50       | <250   |                 |                 |                 |                 |                 |                  |                 |                 |               |
| Heating Oil            | A-5/C-20:20        | 20              | 5/1/2018    |                     | <50       | <250   |                 |                 |                 |                 |                 |                  |                 |                 |               |
| USTs                   | A-6:15             | 15              | 5/1/2018    |                     | <50       | <250   |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | A-6:20             | 20              | 5/1/2018    |                     | <50       | <250   |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | A-7:10             | 10              | 5/19/2018   |                     | <50       | <250   |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | A-7:35             | 35              | 5/19/2018   |                     | <50       | <250   |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | A-8:10             | 10              | 5/19/2018   |                     | <50       | <250   |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | A-8:20             | 20              | 5/19/2018   |                     | <50       | <250   |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | H-1:7              | 7               | 9/4/2012    |                     | <50       | <250   | <0.1            | <0.1            | <0.1            | <0.1            | <0.1            | <0.1             | <0.1            |                 | <0.1          |
|                        | H-2:4              | 4               | 9/4/2012    |                     | <50       | <250   | <0.1            | <0.1            | <0.1            | <0.1            | <0.1            | <0.1             | <0.1            |                 | <0.1          |
| AOPC 9                 | H-3:7              | 7               | 9/4/2012    |                     | 810       | 640    | <0.1            | <0.1            | <0.1            | <0.1            | <0.1            | <0.1             | <0.1            |                 | <0.1          |
| Hoists                 | H-4:7              | 7               | 9/4/2012    |                     | 120       | <250   | <0.1            | <0.1            | <0.1            | <0.1            | <0.1            | <0.1             | <0.1            |                 | <0.1          |
|                        | H-5:7              | 7               | 9/6/2012    |                     | <50       | <250   | <0.1            | <0.1            | <0.1            | <0.1            | <0.1            | <0.1             | <0.1            |                 | <0.1          |
|                        | H-6:8              | 8               | 9/6/2012    |                     | <50       | <250   | <0.1            | <0.1            | <0.1            | <0.1            | <0.1            | <0.1             | <0.1            |                 | <0.1          |
|                        | S-1:7              | 7               | 9/4/2012    |                     | <50       | <250   | <0.1            | <0.1            | <0.1            | <0.1            | <0.1            | <0.1             | <0.1            |                 | <0.1          |
| AOPC 10                | S-3:7              | 7               | 9/6/2012    |                     | <50       | <250   | <0.1            | <0.1            | <0.1            | <0.1            | <0.1            | <0.1             | <0.1            |                 | <0.1          |
| Sumps                  | S-4:5              | 5               | 9/5/2012    |                     | <50       | <250   | <0.1            | <0.1            | <0.1            | <0.1            | <0.1            | <0.1             | <0.1            |                 | <0.1          |
| Potential              | MW-1:10            | 10              | 9/5/2012    | <2                  | <50       | <250   | <0.1            | <0.1            | <0.1            | <0.1            | <0.1            | <0.1             | <0.1            |                 | <0.1          |
| Off-Site<br>Sources    | MW-2:10            | 10              | 9/4/2012    | <2                  | <50       | <250   |                 |                 |                 |                 |                 |                  |                 |                 |               |
|                        | Method A Soil C    |                 |             |                     |           |        |                 | 1               | 1               |                 |                 |                  | 1               |                 |               |
|                        | or Unrestricted La | •               |             | 30/100 <sup>e</sup> | 2,000     | 2,000  |                 |                 |                 | 1.0             | for Total P     | UB\$             |                 |                 |               |

### Notes:

All results presented in milligrams per kilogram (mg/kg).

- Bold results indicate the compound was detected. Bold
- Shaded cells indicate the compound was detected at a concentration greater than the cleanup level.
- Less than laboratory reporting limit. <
- Not sampled, not analyzed. ---
- а
- b
- С
- Analyzed by NWTPH-Gx. Analyzed by NWTPH-Dx. Analyzed by EPA Method 8082. Model Toxics Control Act (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses, Table 740-1, Washington Administrative Code (WAC) 173-340-900. MTCA Method A Soil Cleanup Level is 30 mg/kg when benzene is present in the sample and 100 mg/kg when benzene is not detected. d
- е
- AOPC Area of Potential Concern
- UST Underground storage tank.

### Qualifier:

The sample chromatographic pattern does not resemble the fuel standard used for quantitation. Х

### Compounds:

- DRO Diesel-range organics
- Gasoline-range organics GRO
- ORO Oil-range organics

TRC

# Table 2Monitoring Well Locations and Construction DetailsRevised Remedial Investigation ReportSeattle Times Site1120 John Street, Seattle, Washington

| Location   | Northing -<br>Washington<br>State Plane | Easting -<br>Washington<br>State Plane | Top of<br>Monument/<br>Ground<br>Elevation <sup>a</sup> | Top of<br>Casing<br>Elevation <sup>a</sup> | Depth to<br>Screened<br>Section<br>(Feet) | Top of<br>Screened<br>Section<br>Elevation <sup>a</sup> | Screen<br>Length<br>(Feet) | Total<br>Depth of<br>Well<br>(Feet) | Well<br>Bottom<br>Elevation <sup>a</sup> |
|------------|---|--|---|--|---|---|----------------------------|-------------------------------------|--|
| MW-1       | 230048.30                               | 1270111.48                             | 103.6   | 103.05                                     | 12.0                                      | 91.6  | 15                         | 27.0                                | 76.6                                     |
| MW-2       | 230062.78                               | 1269876.56                             | 100.1   | 99.94                                      | 85.0                                      | 15.10   | 15                         | 100.0                               | 0.10                                     |
| MW-3       | 230026.55                               | 1270231.60                             | 108.4   | 107.72                                     | 85.0                                      | 23.40   | 15                         | 100.0                               | 8.40                                     |
| MW-4       | 229923.50                               | 1269958.51                             | 109.3   | 108.84                                     | 95.0                                      | 14.30   | 10                         | 105.0                               | 4.30                                     |
| MW-5       | 231846.34                               | 1268102.11                             | 112.9   | 112.78                                     | 95.0                                      | 17.90   | 10                         | 105.0                               | 7.90                                     |
| MW-9S      | 229982.34                               | 1270036.52                             | 107.5   | 107.02                                     | 11.0                                      | 96.5  | 10.0                       | 21.0                                | 86.5                                     |
| MW-9       | 229986.59                               | 1270036.66                             | 107.5   | 107.10                                     | 95.0                                      | 12.5  | 15.0                       | 110.5                               | -3.0                                     |
| MW-10S     | 229846.88                               | 1270064.71                             | 107.2   | 106.69                                     | 15.0                                      | 92.2  | 10.0                       | 25.0                                | 82.2                                     |
| MW-10      | 229852.11                               | 1270064.54                             | 106.9   | 106.50                                     | 90.0                                      | 16.9  | 15.0                       | 105.0                               | 1.9                                      |
| MW-28 (TL) | 230064.56                               | 1269990.80                             | 99.5  | 99.18                                      | 90.0                                      | 9.5   | 15.0                       | 105.0                               | -5.5                                     |
| MW-29 (TL) | 230038.74                               | 1270019.51                             | 102.0   | 101.59                                     | 82.0                                      | 20.0  | 20                         | 102.00                              | 0.0                                      |
| MW-30 (TL) | 230043.60                               | 1269941.00                             | 102.2   | 101.88                                     | 84.0                                      | 18.2  | 20                         | 104.00                              | -1.80                                    |

Notes:

a Feet above Mean Sea Level - North American Vertical Datum 1988 (NAVD 88) determined by Washington State Licensed Land Surveyor.

TL Troy Laundry Site monitoring well.

# Table 3Summary of Potentiometric ElevationsRevised Remedial Investigation ReportSeattle Times Site1120 John Street, Seattle, Washington

| Well       | Top of Casing<br>Elevation <sup>a</sup> | Date      | Depth to<br>Water <sup>b</sup><br>(feet) | Piezometric<br>Elevation <sup>c</sup><br>(feet) |
|------------|---|-----------|--|---|
| MW-4       | 108.84                                  | 12/9/2020 | 97.83                                    | 11.01   |
| MW-5       | 105.45                                  | 12/9/2020 | 96.3                                     | 9.15  |
| MW-9       | 107.10                                  | 11/9/2020 | 95.96                                    | 11.14   |
| MW-9S      | 107.02                                  | 11/9/2020 | 14.16                                    | 92.86   |
| MW-10      | 106.5                                   | 11/9/2020 | 95.42                                    | 11.08   |
| MW-10S     | 106.69                                  | 11/9/2020 | 23.57                                    | 83.12   |
| MW-29 (TL) | 101.59                                  | 12/9/2020 | 90.57                                    | 11.02   |
| MW-30 (TL) | 101.88                                  | 12/9/2020 | 91.1                                     | 10.78   |

Notes:

<sup>a</sup> Elevation in feet above Mean Sea Level - North American Vertical Datum 1988 (NAVD88) per Pace Engineer Suvey in May 2020.

TL Troy Laundry Site monitoring well.



## Table 4Summary of Soil Volatile Organic Compound Analytical Results<br/>Revised Remedial Investigation Report<br/>Seattle Times Site<br/>1120 John Street, Seattle, Washington

|                              |                     | Comple                    |                        |                |                |                |                       |                |                      | Detected                | d Volatile Orga       | anic Compound                   | ls <sup>a</sup>        |                |                               |                                 |                                 |                  |                   |
|------------------------------|---------------------|---------------------------|------------------------|----------------|----------------|----------------|-----------------------|----------------|----------------------|-------------------------|-----------------------|---------------------------------|------------------------|----------------|-------------------------------|---------------------------------|---------------------------------|------------------|-------------------|
| Area of Potential<br>Concern | Sample ID           | Sample<br>Depth<br>(feet) | Sample Date            | Benzene        | Ethylbenzene   | Hexane         | lsopropyl-<br>benzene | Naphthalene    | n-Propyl-<br>benzene | p-lsopropyl-<br>toluene | sec-Butyl-<br>benzene | Tetrachloro-<br>ethene<br>(PCE) | tert-Butyl-<br>benzene | Toluene        | Trichloro-<br>ethene<br>(TCE) | 1,2,4-<br>Trimethyl-<br>benzene | 1,3,5-<br>Trimethyl-<br>benzene | Total<br>Xylenes | Vinyl<br>Chloride |
|                              | P-1:0               | 0                         | 7/19/2012              | <0.03          | <0.05          | <0.25          | <0.05                 | <0.05          | <0.05                | <0.05                   | <0.05                 | <0.025                          | <0.05                  | <0.05          | <0.03                         | <0.05                           | <0.05                           | <0.1             | <0.05             |
|                              | P-2:0               | 0                         | 7/19/2012              | <0.03          | <0.05          | <0.25          | <0.05                 | <0.05          | <0.05                | <0.05                   | <0.05                 | <0.025                          | <0.05                  | <0.05          | <0.03                         | <0.05                           | <0.05                           | <0.1             | <0.05             |
|                              | P-3:0               | 0                         | 7/19/2012              | <0.03          | <0.05          | <0.25          | <0.05                 | <0.05          | <0.05                | <0.05                   | <0.05                 | <0.025                          | <0.05                  | <0.05          | <0.03                         | <0.05                           | <0.05                           | <0.1             | <0.05             |
|                              | P-4:0               | 0                         | 7/19/2012              | <0.03          | <0.05          | <0.25          | <0.05                 | <0.05          | <0.05                | <0.05                   | <0.05                 | <0.025                          | <0.05                  | <0.05          | <0.03                         | <0.05                           | <0.05                           | <0.1             | <0.05             |
|                              | P-5:0               | 0                         | 7/19/2012              | <0.03          | <0.05          | <0.25          | <0.05                 | <0.05          | <0.05                | <0.05                   | <0.05                 | <0.025                          | <0.05                  | <0.05          | <0.03                         | <0.05                           | <0.05                           | <0.1             | <0.05             |
|                              | P-6:0               | 0                         | 7/19/2012              | < 0.03         | <0.05          | <0.25          | <0.05                 | <0.05          | <0.05                | <0.05                   | < 0.05                | <0.025                          | <0.05                  | <0.05          | <0.03                         | <0.05                           | < 0.05                          | <0.1             | <0.05             |
|                              | P-7:0               | 0                         | 7/19/2012              | < 0.03         | < 0.05         | <0.25          | < 0.05                | <0.05          | < 0.05               | < 0.05                  | < 0.05                | < 0.025                         | < 0.05                 | < 0.05         | < 0.03                        | < 0.05                          | < 0.05                          | <0.1             | < 0.05            |
| AOPC 1                       | P-8:1               | 1                         | 7/20/2012              | < 0.03         | < 0.05         | <0.25          | < 0.05                | < 0.05         | < 0.05               | < 0.05                  | < 0.05                | < 0.025                         | < 0.05                 | < 0.05         | < 0.03                        | < 0.05                          | < 0.05                          | <0.1             | < 0.05            |
| Printing Press               | P-9:1.5             | 1.5                       | 7/24/2012              | < 0.03         | < 0.05         | <0.25          | < 0.05                | < 0.05         | <0.05                | < 0.05                  | < 0.05                | < 0.025                         | < 0.05                 | < 0.05         | < 0.03                        | < 0.05                          | < 0.05                          | <0.1             | < 0.05            |
| Area                         | P-10:1.5            | 1.5                       | 7/24/2012              | < 0.03         | < 0.05         | <0.25          | < 0.05                | < 0.05         | < 0.05               | < 0.05                  | < 0.05                | <0.025                          | < 0.05                 | < 0.05         | < 0.03                        | < 0.05                          | < 0.05                          | <0.1             | < 0.05            |
|                              | P-15:1.5            | 1.5                       | 9/4/2012               | < 0.03         | <0.05          | <0.25          | < 0.05                | < 0.05         | <0.05                | < 0.05                  | < 0.05                | < 0.03                          | < 0.05                 | <0.05          | < 0.03                        | < 0.05                          | < 0.05                          | <0.1             | < 0.05            |
|                              | P-16:3              | 3                         | 9/4/2012               | < 0.03         | < 0.05         | < 0.25         | < 0.05                | < 0.05         | < 0.05               | < 0.05                  | < 0.05                | < 0.03                          | < 0.05                 | < 0.05         | < 0.03                        | < 0.05                          | < 0.05                          | <0.1             | < 0.05            |
|                              | P-17:1.5            | 1.5                       | 9/4/2012               | < 0.03         | < 0.05         | <0.25          | < 0.05                | < 0.05         | < 0.05               | < 0.05                  | < 0.05                | < 0.03                          | < 0.05                 | < 0.05         | < 0.03                        | < 0.05                          | < 0.05                          | <0.1             | < 0.05            |
|                              | P-18:1.5            | 1.5                       | 9/4/2012               | < 0.03         | < 0.05         | <0.25          | < 0.05                | < 0.05         | < 0.05               | < 0.05                  | < 0.05                | < 0.03                          | < 0.05                 | < 0.05         | < 0.03                        | < 0.05                          | < 0.05                          | <0.1             | < 0.05            |
|                              | P-19:1.5            | 1.5                       | 9/4/2012               | < 0.03         | < 0.05         | <0.25          | < 0.05                | < 0.05         | < 0.05               | < 0.05                  | < 0.05                | < 0.03                          | < 0.05                 | < 0.05         | < 0.03                        | < 0.05                          | < 0.05                          | <0.1             | < 0.05            |
|                              | P-19:4              | 4                         | 9/4/2012               | < 0.03         | < 0.05         | <0.25          | < 0.05                | < 0.05         | < 0.05               | < 0.05                  | < 0.05                | < 0.03                          | < 0.05                 | < 0.05         | < 0.03                        | < 0.05                          | < 0.05                          | <0.1             | < 0.05            |
|                              | P-20:1.5            | 1.5                       | 9/4/2012               | < 0.03         | < 0.05         | <0.25          | < 0.05                | < 0.05         | < 0.05               | <0.05                   | <0.05                 | < 0.03                          | <0.05                  | <0.05          | < 0.03                        | < 0.05                          | <0.05                           | <0.1             | < 0.05            |
|                              | T-1:4<br>T-1A:4     | 4                         | 7/19/2012              | <0.03          | < 0.05         | <0.25          | < 0.05                | < 0.05         | <0.05                | <0.05                   | <0.05                 | <0.025                          | <0.05                  | <0.05<br><0.05 | < 0.03                        | < 0.05                          | <0.05                           | <0.1<br><0.1     | <0.05             |
|                              |                     | •                         | 7/20/2012              | < 0.03         | < 0.05         | <0.25          | < 0.05                | < 0.05         | <0.05                | <0.05<br><0.05          | <0.05                 | <0.025                          | <0.05<br><0.05         |                | <0.03<br><0.03                | <0.05                           | <0.05                           | -                | < 0.05            |
|                              | T-2:1.75<br>T-2:4.5 | 1.75<br>4.5               | 7/24/2012<br>7/24/2012 | <0.03<br><0.03 | <0.05<br><0.05 | <0.25<br><0.25 | <0.05<br><0.05        | <0.05<br><0.05 | <0.05<br><0.05       | <0.05                   | <0.05<br><0.05        | <0.025<br><0.025                | <0.05                  | <0.05<br><0.05 | <0.03                         | <0.05<br><0.05                  | <0.05<br><0.05                  | <0.1<br><0.1     | <0.05<br><0.05    |
|                              | T-3:2               | 4.5                       | 7/24/2012              | <0.03          | <0.05          | <0.25          | <0.05                 | <0.05          | <0.05                | <0.05                   | <0.05                 | <0.025                          | < 0.05                 | <0.05          | <0.03                         | <0.05                           | <0.05                           | <0.1             | <0.05             |
|                              | T-8:5               | 5                         | 5/20/2012              | <0.03          | <0.05          | <0.25          | <0.05                 | <0.05          | <0.05                | <0.05                   | <0.05                 | <0.025                          | < 0.05                 | <0.05          | <0.03                         | <0.05                           | <0.05                           | <0.1             | <0.05             |
|                              |                     | -                         |                        |                |                |                |                       |                |                      |                         |                       |                                 |                        |                |                               |                                 |                                 | -                |                   |
| AOPC 2                       | T-9:15.5            | 15.5                      | 10/27/2018             | < 0.03         | < 0.05         | <0.25          | < 0.05                | < 0.05         | < 0.05               | < 0.05                  | < 0.05                | < 0.025                         | < 0.05                 | < 0.05         | < 0.02                        | < 0.05                          | < 0.05                          | <0.1             | < 0.05            |
| Interior                     | T-9:20              | 20                        | 10/27/2018             | < 0.03         | < 0.05         | <0.25          | < 0.05                | < 0.05         | < 0.05               | < 0.05                  | < 0.05                | < 0.025                         | < 0.05                 | <0.05          | < 0.02                        | < 0.05                          | < 0.05                          | <0.1             | < 0.05            |
| Tank Area                    | T-10:10             | 10                        | 10/27/2018             | < 0.03         | < 0.05         | <0.25          | < 0.05                | < 0.05         | < 0.05               | < 0.05                  | < 0.05                | < 0.025                         | < 0.05                 | < 0.05         | < 0.02                        | < 0.05                          | < 0.05                          | <0.1             | < 0.05            |
|                              | T-10:20             | 20                        | 10/27/2018             | < 0.03         | < 0.05         | <0.25          | < 0.05                | < 0.05         | < 0.05               | < 0.05                  | < 0.05                | < 0.025                         | < 0.05                 | < 0.05         | < 0.02                        | < 0.05                          | < 0.05                          | <0.1             | < 0.05            |
|                              | MW-6:20             | 20                        | 3/16/2019              | <0.03          | <0.05          | <0.25          | < 0.05                | <0.05          | < 0.05               | < 0.05                  | < 0.05                | <0.025                          | <0.05                  | <0.05          | <0.02                         | < 0.05                          | < 0.05                          | <0.15            | < 0.05            |
|                              | MW-6:35             | 35                        | 3/16/2019              | <0.03          | <0.05          | <0.25          | <0.05                 | <0.05          | <0.05                | <0.05                   | <0.05                 | <0.025                          | <0.05                  | <0.05          | <0.02                         | <0.05                           | <0.05                           | <0.15            | <0.05             |
|                              | MW-7:20             | 20                        | 3/16/2019              | <0.03          | <0.05          | <0.25          | <0.05                 | <0.05          | <0.05                | <0.05                   | <0.05                 | <0.025                          | <0.05                  | <0.05          | <0.02                         | <0.05                           | <0.05                           | <0.15            | <0.05             |
|                              | MW-7:35             | 35                        | 3/16/2019              | <0.03          | <0.05          | <0.25          | <0.05                 | <0.05          | <0.05                | <0.05                   | <0.05                 | <0.025                          | <0.05                  | <0.05          | <0.02                         | <0.05                           | <0.05                           | <0.15            | <0.05             |
|                              | MW-8:10             | 10                        | 3/17/2019              | <0.03          | <0.05          | <0.25          | <0.05                 | 0.17           | <0.05                | <0.05                   | <0.05                 | <0.025                          | <0.05                  | <0.05          | <0.02                         | 0.12                            | <0.05                           | <0.15            | <0.05             |
|                              | I-1:5               | 5                         | 7/20/2012              | <0.03          | <0.05          |                | <0.05                 | <0.05          | <0.05                | <0.05                   | <0.05                 | <0.025                          | <0.05                  | <0.05          | <0.03                         | <0.05                           | <0.05                           | <0.1             | < 0.05            |
| AOPC 3                       | I-2:5               | 5                         | 7/20/2012              | < 0.03         | <0.05          |                | <0.05                 | <0.05          | <0.05                | <0.05                   | <0.05                 | <0.025                          | < 0.05                 | <0.05          | <0.03                         | <0.05                           | <0.05                           | <0.1             | < 0.05            |
| Ink Room                     | I-3:5               | 5                         | 7/20/2012              | <0.03          | <0.05          |                | <0.05                 | <0.05          | <0.05                | <0.05                   | <0.05                 | <0.025                          | <0.05                  | <0.05          | <0.03                         | <0.05                           | <0.05                           | <0.1             | <0.05             |
|                              | I-4:5               | 5                         | 7/20/2012              | <0.03          | <0.05          |                | <0.05                 | <0.05          | <0.05                | <0.05                   | <0.05                 | <0.025                          | <0.05                  | <0.05          | <0.03                         | <0.05                           | <0.05                           | <0.1             | <0.05             |
| AOPC 4                       | C-1:0.75            | 0.75                      | 7/24/2012              | <0.03          | <0.05          | <0.25          | <0.05                 | <0.05          | <0.05                | <0.05                   | <0.05                 | <0.025                          | <0.05                  | <0.05          | < 0.03                        | <0.05                           | <0.05                           | <0.1             | <0.05             |
| Compressor                   | C-2:0.75            | 0.75                      | 7/24/2012              | <0.03          | <0.05          | <0.25          | <0.05                 | <0.05          | <0.05                | <0.05                   | <0.05                 | <0.025                          | <0.05                  | <0.05          | < 0.03                        | <0.05                           | <0.05                           | <0.1             | <0.05             |
| Room                         | C-3:0.75            | 0.75                      | 7/24/2012              | < 0.03         | <0.05          | <0.25          | < 0.05                | <0.05          | <0.05                | <0.05                   | <0.05                 | <0.025                          | <0.05                  | <0.05          | < 0.03                        | < 0.05                          | < 0.05                          | <0.1             | <0.05             |
|                              | U-1:15              | 15                        | 7/19/2012              | < 0.02         | < 0.02         |                |                       |                |                      |                         |                       |                                 |                        | < 0.02         |                               |                                 |                                 | < 0.06           |                   |
|                              | U-2:15              | 15                        | 7/19/2012              | <0.02          | < 0.02         |                |                       |                |                      |                         |                       |                                 |                        | < 0.02         |                               |                                 |                                 | < 0.06           |                   |
|                              | U-3:8               | 8                         | 7/20/2012              | < 0.02         | < 0.02         |                |                       |                |                      |                         |                       |                                 |                        | < 0.02         |                               |                                 |                                 | < 0.06           |                   |
|                              | U-6:10              | 10                        | 7/26/2012              | <0.02          | <0.02          | <0.25          | < 0.05                | < 0.05         |                      |                         |                       |                                 |                        | <0.02          |                               |                                 |                                 | <0.06            |                   |
| AOPC 5                       | U-6:15              | 15                        | 7/26/2012              | <0.02          | <0.02          | <0.25          | <0.05                 | <0.05          |                      |                         |                       |                                 |                        | <0.02          |                               |                                 |                                 | <0.06            |                   |
| Northern UST                 | U-7:15              | 15                        | 7/26/2012              | <0.02          | <0.02          |                |                       |                |                      |                         |                       |                                 |                        | <0.02          |                               |                                 |                                 | <0.06            |                   |
| Complex and                  |                     | 15                        |                        |                |                |                |                       |                |                      |                         |                       |                                 |                        |                |                               |                                 |                                 |                  |                   |
| Fuel Dispenser               | U-8:15              |                           | 7/26/2012              | < 0.02         | < 0.02         |                |                       |                |                      |                         |                       |                                 |                        | < 0.02         |                               |                                 |                                 | < 0.06           |                   |
|                              | U-9:15              | 15                        | 7/26/2012              | <0.02          | < 0.02         |                |                       |                |                      |                         |                       |                                 |                        | < 0.02         |                               |                                 |                                 | < 0.06           |                   |
|                              | U-10:5              | 5                         | 5/13/2018              | < 0.03         | < 0.05         | < 0.25         | < 0.05                | < 0.05         | < 0.05               | < 0.05                  | < 0.05                | < 0.025                         | < 0.05                 | < 0.05         | < 0.02                        | < 0.05                          | < 0.05                          | <0.1             | < 0.05            |
|                              | U-10:10             | 10                        | 5/13/2018              | < 0.03         | < 0.05         | <0.25          | < 0.05                | < 0.05         | < 0.05               | < 0.05                  | < 0.05                | <0.025                          | < 0.05                 | <0.05          | < 0.02                        | < 0.05                          | < 0.05                          | <0.1             | < 0.05            |
|                              | U-11:15             | 15                        | 5/13/2018              | 0.15           | 0.098          | <0.25          | <0.05                 | <0.05          | <0.05                | <0.05                   | <0.05                 | <0.025                          | <0.05                  | 0.30           | 0.021                         | <0.05                           | <0.05                           | 0.54             | <0.05             |

## Table 4Summary of Soil Volatile Organic Compound Analytical Results<br/>Revised Remedial Investigation Report<br/>Seattle Times Site<br/>1120 John Street, Seattle, Washington

|                              |                        | Comula                    |                          |         |                |                |                       |                |                      | Detected                | d Volatile Orga       | anic Compound                   | ls <sup>a</sup>        |                |                               |                                 |                                 |                  |                   |
|------------------------------|------------------------|---------------------------|--------------------------|---------|----------------|----------------|-----------------------|----------------|----------------------|-------------------------|-----------------------|---------------------------------|------------------------|----------------|-------------------------------|---------------------------------|---------------------------------|------------------|-------------------|
| Area of Potential<br>Concern | Sample ID              | Sample<br>Depth<br>(feet) | Sample Date              | Benzene | Ethylbenzene   | Hexane         | lsopropyl-<br>benzene | Naphthalene    | n-Propyl-<br>benzene | p-lsopropyl-<br>toluene | sec-Butyl-<br>benzene | Tetrachloro-<br>ethene<br>(PCE) | tert-Butyl-<br>benzene | Toluene        | Trichloro-<br>ethene<br>(TCE) | 1,2,4-<br>Trimethyl-<br>benzene | 1,3,5-<br>Trimethyl-<br>benzene | Total<br>Xylenes | Vinyl<br>Chloride |
|                              | U-11:20                | 20                        | 5/13/2018                | <0.03   | <0.05          | <0.25          | <0.05                 | 0.13           | 0.065                | <0.05                   | <0.05                 | <0.025                          | <0.05                  | <0.05          | <0.02                         | 0.64                            | 0.26                            | <0.1             | <0.05             |
|                              | U-12:15                | 15                        | 5/13/2018                | 0.33    | <0.05          | <0.25          | <0.05                 | <0.05          | <0.05                | <0.05                   | <0.05                 | <0.025                          | <0.05                  | 0.25           | <0.02                         | <0.05                           | <0.05                           | <0.1             | <0.05             |
|                              | U-12:20                | 20                        | 5/13/2018                | <0.03   | 2.1            | 0.35           | 3.3                   | 6.5            | 13                   | 1.2                     | 3.5                   | <0.025                          | 0.093                  | <0.05          | <0.02                         | 46                              | 11                              | 7.69             | <0.05             |
|                              | U-13:10                | 10                        | 5/3/2018                 | <0.03   | <0.05          | <0.25          | <0.05                 | <0.05          | <0.05                | <0.05                   | <0.05                 | <0.025                          | <0.05                  | <0.05          | <0.02                         | <0.05                           | <0.05                           | <0.1             | <0.05             |
| AOPC 5<br>Northern UST       | U-13:15                | 15                        | 5/3/2018                 | <0.03   | <0.05          | <0.25          | <0.05                 | <0.05          | <0.05                | <0.05                   | <0.05                 | <0.025                          | <0.05                  | <0.05          | <0.02                         | <0.05                           | <0.05                           | <0.1             | <0.05             |
| Complex and                  | U-14:10                | 10                        | 5/3/2018                 | <0.03   | <0.05          | <0.25          | <0.05                 | <0.05          | <0.05                | <0.05                   | <0.05                 | <0.025                          | <0.05                  | <0.05          | <0.02                         | <0.05                           | <0.05                           | <0.1             | <0.05             |
| Fuel Dispenser               | U-14:15                | 15                        | 5/3/2018                 | <0.03   | < 0.05         | <0.25          | <0.05                 | <0.05          | <0.05                | <0.05                   | <0.05                 | <0.025                          | <0.05                  | <0.05          | <0.02                         | <0.05                           | <0.05                           | <0.1             | <0.05             |
|                              | U-15:10                | 10                        | 5/20/2018                | <0.03   | < 0.05         | <0.25          | <0.05                 | <0.05          | <0.05                | <0.05                   | <0.05                 | <0.025                          | <0.05                  | <0.05          | <0.02                         | <0.05                           | <0.05                           | <0.1             | <0.05             |
|                              | U-15:15                | 15                        | 5/20/2018                | <0.03   | <0.05          | <0.25          | <0.05                 | <0.05          | <0.05                | <0.05                   | <0.05                 | <0.025                          | <0.05                  | <0.05          | <0.02                         | <0.05                           | <0.05                           | <0.1             | <0.05             |
|                              | U-16:5                 | 5                         | 5/20/2018                | <0.03   | <0.05          | <0.25          | <0.05                 | <0.05          | <0.05                | <0.05                   | <0.05                 | <0.025                          | <0.05                  | <0.05          | <0.02                         | <0.05                           | <0.05                           | <0.1             | <0.05             |
|                              | U-16:15                | 15                        | 5/20/2018                | <0.03   | <0.05          | <0.25          | <0.05                 | <0.05          | <0.05                | <0.05                   | <0.05                 | <0.025                          | <0.05                  | <0.05          | <0.02                         | <0.05                           | <0.05                           | <0.1             | <0.05             |
| AOPC 6                       | W-1 (W1-10)            | 10                        | 9/4/2012                 | <0.03   | <0.05          | <0.25          | <0.05                 | <0.05          | <0.05                | <0.05                   | <0.05                 | <0.025                          | <0.05                  | <0.05          | <0.02                         | <0.05                           | <0.05                           | <0.1             | <0.05             |
| Waste Oil UST                | W-2 (W2-10)            | 10                        | 9/6/2012                 | <0.03   | <0.05          | <0.25          | <0.05                 | <0.05          | <0.05                | <0.05                   | <0.05                 | <0.025                          | <0.05                  | <0.05          | <0.02                         | <0.05                           | <0.05                           | <0.1             | <0.05             |
|                              | O-1:8                  | 8                         | 9/6/2012                 | <0.02   | <0.02          |                |                       |                |                      |                         |                       |                                 |                        | <0.02          |                               |                                 |                                 | <0.06            |                   |
|                              | O-2:9                  | 9                         | 9/6/2012                 | <0.02   | <0.02          |                |                       |                |                      |                         |                       |                                 |                        | <0.02          |                               |                                 |                                 | <0.06            |                   |
| AOPC 7                       | O-3:5                  | 5                         | 9/6/2012                 | <0.02   | <0.02          |                |                       |                |                      |                         |                       |                                 |                        | <0.02          |                               |                                 |                                 | <0.06            |                   |
| Heating Oil UST              | AOPC7:SB1              | 20                        | 5/17/2013                | <0.02   | <0.02          |                |                       |                |                      |                         |                       |                                 |                        | <0.02          |                               |                                 |                                 | <0.06            |                   |
|                              | AOPC7:SB2              | 20                        | 5/17/2013                | <0.02   | <0.02          |                |                       |                |                      |                         |                       |                                 |                        | <0.02          |                               |                                 |                                 | <0.06            |                   |
|                              | AOPC7:SB3              | 20                        | 5/17/2013                | <0.02   | < 0.02         |                |                       |                |                      |                         |                       |                                 |                        | <0.02          |                               |                                 |                                 | <0.06            |                   |
| AOPC 8                       | A-1:9                  | 9                         | 9/6/2012                 | <0.02   | < 0.02         |                |                       |                |                      |                         |                       |                                 |                        | <0.02          |                               |                                 |                                 | <0.06            |                   |
| Heating Oil                  | A-2:9                  | 9                         | 9/5/2012                 | <0.02   | <0.02          |                |                       |                |                      |                         |                       |                                 |                        | <0.02          |                               |                                 |                                 | <0.06            |                   |
| USTs                         | A-3:8.5                | 8.5                       | 9/5/2012                 | <0.02   | <0.02          |                |                       |                |                      |                         |                       |                                 |                        | <0.02          |                               |                                 |                                 | <0.06            |                   |
| 1070.00                      | S-1:7                  | 7                         | 9/4/2012                 | < 0.03  | < 0.05         | <0.25          | <0.05                 | <0.05          | <0.05                | < 0.05                  | <0.05                 | <0.025                          | <0.05                  | <0.05          | < 0.03                        | <0.05                           | <0.05                           | <0.15            | < 0.05            |
| AOPC 10                      | S-3:7                  | 7                         | 9/6/2012                 | < 0.03  | < 0.05         | <0.25          | <0.05                 | <0.05          | <0.05                | < 0.05                  | <0.05                 | <0.025                          | < 0.05                 | <0.05          | < 0.03                        | <0.05                           | <0.05                           | <0.15            | <0.05             |
| Sumps                        | S-4:5                  | 5                         | 9/5/2012                 | <0.03   | <0.05          | <0.25          | <0.05                 | <0.05          | <0.05                | <0.05                   | <0.05                 | <0.025                          | <0.05                  | <0.05          | < 0.03                        | <0.05                           | <0.05                           | <0.15            | <0.05             |
|                              | MW-1:10                | 10                        | 9/5/2012                 | <0.03   | < 0.05         | <0.25          | <0.05                 | <0.05          | <0.05                | <0.05                   | <0.05                 | <0.025                          | <0.05                  | <0.05          | < 0.03                        | <0.05                           | <0.05                           | <0.15            | <0.05             |
| Potential                    | MW-2:10                | 10                        | 9/4/2012                 | <0.03   | <0.05          | <0.25          | <0.05                 | <0.05          | <0.05                | <0.05                   | <0.05                 | <0.025                          | <0.05                  | <0.05          | < 0.03                        | <0.05                           | <0.05                           | <0.15            | <0.05             |
| Off-Site                     | MW-3:20                | 20                        | 4/29/2013                | <0.03   | <0.05          |                | <0.05                 | <0.05          | <0.05                | <0.05                   | <0.05                 | <0.025                          | <0.05                  | <0.05          | <0.03                         | <0.05                           | <0.05                           | <0.15            | <0.05             |
| Sources                      | MW-3:30                | 30                        | 4/29/2013                | < 0.03  | <0.05          |                | <0.05                 | < 0.05         | <0.05                | <0.05                   | < 0.05                | <0.025                          | < 0.05                 | < 0.05         | < 0.03                        | < 0.05                          | < 0.05                          | <0.15            | <0.05             |
|                              | MW-3:80                | 80                        | 4/29/2013                | <0.03   | <0.05          |                | <0.05                 | <0.05          | <0.05                | < 0.05                  | < 0.05                | <0.025                          | < 0.05                 | < 0.05         | < 0.03                        | < 0.05                          | < 0.05                          | <0.15            | <0.05             |
|                              | MW-3:100               | 100                       | 4/30/2013                | < 0.03  | < 0.05         |                | < 0.05                | < 0.05         | < 0.05               | < 0.05                  | < 0.05                | < 0.025                         | < 0.05                 | < 0.05         | < 0.03                        | < 0.05                          | < 0.05                          | < 0.15           | < 0.05            |
|                              | TRC-B1:5               | 5                         | 10/27/2020               | < 0.03  | < 0.05         | <0.25          | < 0.05                | < 0.05         | < 0.05               | < 0.05                  | < 0.05                | < 0.025                         | < 0.05                 | < 0.05         | < 0.02                        | < 0.05                          | < 0.05                          | < 0.15           | < 0.05            |
|                              | TRC-B1:10              | 10                        | 10/27/2020               | < 0.03  | < 0.05         | <0.25          | < 0.05                | < 0.05         | < 0.05               | < 0.05                  | < 0.05                | <0.025                          | < 0.05                 | < 0.05         | < 0.02                        | < 0.05                          | < 0.05                          | <0.15            | < 0.05            |
|                              | TRC-B1:15              | 15                        | 10/27/2020               | < 0.03  | < 0.05         | <0.25          | < 0.05                | < 0.05         | < 0.05               | < 0.05                  | <0.05                 | <0.025                          | <0.05                  | < 0.05         | <0.02                         | < 0.05                          | < 0.05                          | <0.15            | < 0.05            |
|                              | TRC-B1:30<br>TRC-B1:40 | 30<br>40                  | 10/27/2020<br>10/27/2020 | <0.03   | <0.05<br><0.05 | <0.25<br><0.25 | <0.05<br><0.05        | <0.05<br><0.05 | <0.05<br><0.05       | <0.05<br><0.05          | <0.05<br><0.05        | <0.025<br><0.025                | <0.05<br><0.05         | <0.05<br><0.05 | <0.02<br><0.02                | <0.05<br><0.05                  | <0.05<br><0.05                  | <0.15<br><0.15   | <0.05<br><0.05    |
|                              | TRC-B1:40              | 40<br>50                  | 10/27/2020               | <0.03   | <0.05          | <0.25          | <0.05                 | <0.05          | <0.05                | <0.05                   | < 0.05                | <0.025                          | < 0.05                 | <0.05          | <0.02                         | <0.05                           | <0.05                           | <0.15            | <0.05             |
|                              | TRC-B1:50              | 5                         | 10/27/2020               | <0.03   | <0.05          | <0.25          | <0.05                 | <0.05          | <0.05                | < 0.05                  | <0.05                 | <0.025                          | <0.05                  | <0.05          | <0.02                         | <0.05                           | <0.05                           | <0.15            | < 0.05            |
|                              | TRC-B2:10              | 10                        | 10/27/2020               | <0.03   | <0.05          | <0.25          | <0.05                 | <0.05          | <0.05                | < 0.05                  | <0.05                 | <0.025                          | <0.05                  | <0.05          | <0.02                         | <0.05                           | <0.05                           | <0.15            | <0.05             |
| Site-Wide                    | TRC-B2:10              | 15                        | 10/27/2020               | <0.03   | <0.05          | <0.25          | <0.05                 | < 0.05         | <0.05                | < 0.05                  | <0.05                 | <0.025                          | <0.05                  | <0.05          | <0.02                         | <0.05                           | <0.05                           | <0.15            | <0.05             |
| Data Gap                     | TRC-B2:30              | 30                        | 10/27/2020               | <0.03   | < 0.05         | <0.25          | < 0.05                | < 0.05         | < 0.05               | < 0.05                  | < 0.05                | < 0.025                         | <0.05                  | < 0.05         | <0.02                         | < 0.05                          | < 0.05                          | <0.15            | <0.05             |
| Characterization             | TRC-B2R:40             | 40                        | 10/28/2020               |         |                |                |                       |                |                      |                         |                       | < 0.025                         |                        |                | < 0.02                        |                                 |                                 |                  | <0.05             |
|                              | TRC-B2R:50             | 50                        | 10/28/2020               |         |                |                |                       |                |                      |                         |                       | <0.025                          |                        |                | <0.02                         |                                 |                                 |                  | <0.05             |
|                              | TRC-B3:5               | 5                         | 10/28/2020               |         |                |                |                       |                |                      |                         |                       | < 0.025                         |                        |                | < 0.02                        |                                 |                                 |                  | <0.05             |
|                              | TRC-B3:10              | 10                        | 10/28/2020               |         |                |                |                       |                |                      |                         |                       | < 0.025                         |                        |                | < 0.02                        |                                 |                                 |                  | <0.05             |
|                              | TRC-B3:15              | 15                        | 10/28/2020               |         |                |                |                       |                |                      |                         |                       | < 0.025                         |                        |                | < 0.02                        |                                 |                                 |                  | <0.05             |
|                              | TRC-B3:30              | 30                        | 10/28/2020               |         |                |                |                       |                |                      |                         |                       | < 0.025                         |                        |                | < 0.02                        |                                 |                                 |                  | < 0.05            |
|                              | TRC-B3:40              | 40                        | 10/28/2020               |         |                |                |                       |                |                      |                         |                       | < 0.025                         |                        |                | < 0.02                        |                                 |                                 |                  | < 0.05            |
|                              | TRC-B3:50              | 50                        | 10/28/2020               |         |                |                |                       |                |                      |                         |                       | < 0.025                         |                        |                | < 0.02                        |                                 |                                 |                  | < 0.05            |

## Table 4Summary of Soil Volatile Organic Compound Analytical Results<br/>Revised Remedial Investigation Report<br/>Seattle Times Site<br/>1120 John Street, Seattle, Washington

|                              |           | Sample |             |         |              |        |                       |             |                      | Detected                | l Volatile Orga       | anic Compound                   | Is <sup>a</sup>        |         |                               |                                 |                                 |                  |                   |
|------------------------------|-----------|--------|-------------|---------|--------------|--------|-----------------------|-------------|----------------------|-------------------------|-----------------------|---------------------------------|------------------------|---------|-------------------------------|---------------------------------|---------------------------------|------------------|-------------------|
| Area of Potential<br>Concern | Sample ID |        | Sample Date | Benzene | Ethylbenzene | Hexane | lsopropyl-<br>benzene | Naphthalene | n-Propyl-<br>benzene | p-lsopropyl-<br>toluene | sec-Butyl-<br>benzene | Tetrachloro-<br>ethene<br>(PCE) | tert-Butyl-<br>benzene | Toluene | Trichloro-<br>ethene<br>(TCE) | 1,2,4-<br>Trimethyl-<br>benzene | 1,3,5-<br>Trimethyl-<br>benzene | Total<br>Xylenes | Vinyl<br>Chloride |
|                              | TRC-B4:5  | 5      | 10/29/2020  |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | <0.02                         |                                 |                                 |                  | <0.05             |
|                              | TRC-B4:10 | 10     | 10/29/2020  |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | <0.02                         |                                 |                                 |                  | <0.05             |
|                              | TRC-B4:15 | 15     | 10/29/2020  |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | <0.02                         |                                 |                                 |                  | <0.05             |
|                              | TRC-B4:30 | 30     | 10/29/2020  |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | <0.02                         |                                 |                                 |                  | <0.05             |
|                              | TRC-B4:40 | 40     | 10/29/2020  |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | <0.02                         |                                 |                                 |                  | <0.05             |
|                              | TRC-B4:50 | 50     | 10/29/2020  |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | <0.02                         |                                 |                                 |                  | <0.05             |
|                              | TRC-B5:6  | 6      | 10/29/2020  |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | <0.02                         |                                 |                                 |                  | <0.05             |
|                              | TRC-B5:10 | 10     | 10/29/2020  |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | <0.02                         |                                 |                                 |                  | <0.05             |
|                              | TRC-B5:15 | 15     | 10/29/2020  |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | <0.02                         |                                 |                                 |                  | <0.05             |
|                              | TRC-B5:20 | 20     | 10/29/2020  |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | <0.02                         |                                 |                                 |                  | <0.05             |
|                              | TRC-B6:5  | 5      | 10/30/2020  |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | < 0.02                        |                                 |                                 |                  | <0.05             |
|                              | TRC-B6:10 | 10     | 10/30/2020  |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | < 0.02                        |                                 |                                 |                  | <0.05             |
|                              | TRC-B6:15 | 15     | 10/30/2020  |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | <0.02                         |                                 |                                 |                  | <0.05             |
|                              | TRC-B6:20 | 20     | 10/30/2020  |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | < 0.02                        |                                 |                                 |                  | < 0.05            |
|                              | TRC-B7:5  | 5      | 10/30/2020  |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | <0.02                         |                                 |                                 |                  | <0.05             |
|                              | TRC-B7:10 | 10     | 10/30/2020  |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | <0.02                         |                                 |                                 |                  | <0.05             |
|                              | TRC-B7:15 | 15     | 10/30/2020  |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | <0.02                         |                                 |                                 |                  | < 0.05            |
|                              | TRC-B7:30 | 30     | 10/30/2020  |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | <0.02                         |                                 |                                 |                  | < 0.05            |
|                              | TRC-B7:40 | 40     | 10/30/2020  |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | <0.02                         |                                 |                                 |                  | < 0.05            |
|                              | TRC-B7:50 | 50     | 10/30/2020  |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | <0.02                         |                                 |                                 |                  | < 0.05            |
|                              | TRC-B8:6  | 6      | 11/2/2020   |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | <0.02                         |                                 |                                 |                  | <0.05             |
|                              | TRC-B8:10 | 10     | 11/2/2020   |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | <0.02                         |                                 |                                 |                  | <0.05             |
|                              | TRC-B8:15 | 15     | 11/2/2020   |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | < 0.02                        |                                 |                                 |                  | < 0.05            |
|                              | TRC-B8:30 | 30     | 11/2/2020   |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | < 0.02                        |                                 |                                 |                  | < 0.05            |
| Site-Wide                    | TRC-B8:40 | 40     | 11/2/2020   |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | <0.02                         |                                 |                                 |                  | <0.05             |
| Data Gap                     | TRC-B8:50 | 50     | 11/2/2020   |         |              |        |                       |             |                      |                         |                       | < 0.025                         |                        |         | < 0.02                        |                                 |                                 |                  | < 0.05            |
| Characterization             | TRC-B9:5  | 5      | 11/2/2020   |         |              |        |                       |             |                      |                         |                       | < 0.025                         |                        |         | < 0.02                        |                                 |                                 |                  | < 0.05            |
|                              | TRC-B9:10 | 10     | 11/2/2020   |         |              |        |                       |             |                      |                         |                       | < 0.025                         |                        |         | < 0.02                        |                                 |                                 |                  | < 0.05            |
|                              | TRC-B9:15 | 15     | 11/2/2020   |         |              |        |                       |             |                      |                         |                       | < 0.025                         |                        |         | < 0.02                        |                                 |                                 |                  | <0.05             |
|                              | TRC-B9:30 | 30     | 11/2/2020   |         |              |        |                       |             |                      |                         |                       | < 0.025                         |                        |         | < 0.02                        |                                 |                                 |                  | <0.05             |
|                              | TRC-B9:40 | 40     | 11/2/2020   |         |              |        |                       |             |                      |                         |                       | < 0.025                         |                        |         | < 0.02                        |                                 |                                 |                  | < 0.05            |
|                              | TRC-B9:50 | 50     | 11/2/2020   |         |              |        |                       |             |                      |                         |                       | < 0.025                         |                        |         | < 0.02                        |                                 |                                 |                  | < 0.05            |
|                              | MW-9:6    | 6      | 11/3/2020   |         |              |        |                       |             |                      |                         |                       | < 0.025                         |                        |         | < 0.02                        |                                 |                                 |                  | < 0.05            |
|                              | MW-9:10   | 10     | 11/3/2020   |         |              |        |                       |             |                      |                         |                       | < 0.025                         |                        |         | < 0.02                        |                                 |                                 |                  | < 0.05            |
|                              | MW-9:15   | 15     | 11/3/2020   |         |              |        |                       |             |                      |                         |                       | < 0.025                         |                        |         | < 0.02                        |                                 |                                 |                  | < 0.05            |
|                              | MW-9:20   | 20     | 11/3/2020   |         |              |        |                       |             |                      |                         |                       | < 0.025                         |                        |         | 0.055                         |                                 |                                 |                  | < 0.05            |
|                              | MW-9:30   | 30     | 11/3/2020   |         |              |        |                       |             |                      |                         |                       | < 0.025                         |                        |         | 0.046                         |                                 |                                 |                  | < 0.05            |
|                              | MW-9:40   | 40     | 11/3/2020   |         |              |        |                       |             |                      |                         |                       | < 0.025                         |                        |         | < 0.02                        |                                 |                                 |                  | < 0.05            |
|                              | MW-9:50   | 50     | 11/3/2020   |         |              |        |                       |             |                      |                         |                       | < 0.025                         |                        |         | <0.02                         |                                 |                                 |                  | < 0.05            |
|                              | MW-9:60   | 60     | 11/3/2020   |         |              |        |                       |             |                      |                         |                       | < 0.025                         |                        |         | < 0.02                        |                                 |                                 |                  | < 0.05            |
|                              | MW-9:70   | 70     | 11/3/2020   |         |              |        |                       |             |                      |                         |                       | < 0.025                         |                        |         | < 0.02                        |                                 |                                 |                  | < 0.05            |
|                              | MW-9:80   | 80     | 11/3/2020   |         |              |        |                       |             |                      |                         |                       | < 0.025                         |                        |         | <0.02                         |                                 |                                 |                  | < 0.05            |
|                              | MW-9:95   | 95     | 11/3/2020   |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | < 0.02                        |                                 |                                 |                  | <0.05             |
|                              | MW-9:110  | 110    | 11/3/2020   |         |              |        |                       |             |                      |                         |                       | < 0.025                         |                        |         | < 0.02                        |                                 |                                 |                  | < 0.05            |
|                              | MW-10:5   | 5      | 11/5/2020   |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | < 0.02                        |                                 |                                 |                  | < 0.05            |
|                              | MW-10:10  | 10     | 11/5/2020   |         |              |        |                       |             |                      |                         |                       | < 0.025                         |                        |         | < 0.02                        |                                 |                                 |                  | < 0.05            |
|                              | MW-10:16  | 16     | 11/5/2020   |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | < 0.02                        |                                 |                                 |                  | < 0.05            |
|                              | MW-10:20  | 20     | 11/5/2020   |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | < 0.02                        |                                 |                                 |                  | < 0.05            |
|                              | MW-10:30  | 30     | 11/5/2020   |         |              |        |                       |             |                      |                         |                       | < 0.025                         |                        |         | 0.032                         |                                 |                                 |                  | < 0.05            |
|                              | MW-10:41  | 41     | 11/5/2020   |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | 0.034                         |                                 |                                 |                  | < 0.05            |
|                              | MW-10:50  | 50     | 11/5/2020   |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | 0.047                         |                                 |                                 |                  | <0.05             |

### Table 4 Summary of Soil Volatile Organic Compound Analytical Results **Revised Remedial Investigation Report** Seattle Times Site 1120 John Street, Seattle, Washington

|                              |                                    | Sample          |             |         |              |        |                       |             |                      | Detected                | d Volatile Orga       | anic Compound                   | ls <sup>a</sup>        |         |                               |                                 |                                 |                  |                   |
|------------------------------|------------------------------------|-----------------|-------------|---------|--------------|--------|-----------------------|-------------|----------------------|-------------------------|-----------------------|---------------------------------|------------------------|---------|-------------------------------|---------------------------------|---------------------------------|------------------|-------------------|
| Area of Potential<br>Concern | Sample ID                          | Depth<br>(feet) | Sample Date | Benzene | Ethylbenzene | Hexane | lsopropyl-<br>benzene | Naphthalene | n-Propyl-<br>benzene | p-lsopropyl-<br>toluene | sec-Butyl-<br>benzene | Tetrachloro-<br>ethene<br>(PCE) | tert-Butyl-<br>benzene | Toluene | Trichloro-<br>ethene<br>(TCE) | 1,2,4-<br>Trimethyl-<br>benzene | 1,3,5-<br>Trimethyl-<br>benzene | Total<br>Xylenes | Vinyl<br>Chloride |
|                              | MW-10:60                           | 60              | 11/5/2020   |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | <0.02                         |                                 |                                 |                  | <0.05             |
| Site-Wide                    | MW-10:71                           | 71              | 11/5/2020   |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | <0.02                         |                                 |                                 |                  | < 0.05            |
| Data Gap                     | MW-10:80                           | 80              | 11/5/2020   |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | <0.02                         |                                 |                                 |                  | <0.05             |
| Characterization             | MW-10:90                           | 90              | 11/5/2020   |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | <0.02                         |                                 |                                 |                  | <0.05             |
|                              | MW-10:100                          | 100             | 11/5/2020   |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | <0.02                         |                                 |                                 |                  | <0.05             |
|                              | B54-20.0                           | 20              | 9/17/2019   |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | <0.02                         |                                 |                                 |                  | <0.05             |
| Troy Laundry                 | B54-30.0                           | 30              | 9/17/2019   |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | 0.093                         |                                 |                                 |                  | <0.05             |
| Site                         | B54-40.0                           | 40              | 9/17/2019   |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | <0.02                         |                                 |                                 |                  | <0.05             |
| B54/MW-29                    | B54-60.0                           | 60              | 9/17/2019   |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | <0.02                         |                                 |                                 |                  | <0.05             |
|                              | B54-80.0                           | 80              | 9/17/2019   |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | <0.02                         |                                 |                                 |                  | <0.05             |
|                              | B55-20.0                           | 20              | 9/18/2019   |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | 0.033                         |                                 |                                 |                  | <0.05             |
| Troy Laundry                 | B55-30.0                           | 30              | 9/18/2019   |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | <0.02                         |                                 |                                 |                  | <0.05             |
| Site                         | B55-40.0                           | 40              | 9/18/2019   |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | <0.02                         |                                 |                                 |                  | <0.05             |
| B55/MW-30                    | B55-60.0                           | 60              | 9/18/2019   |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | <0.02                         |                                 |                                 |                  | < 0.05            |
|                              | B55-80.0                           | 80              | 9/18/2019   |         |              |        |                       |             |                      |                         |                       | <0.025                          |                        |         | <0.02                         |                                 |                                 |                  | <0.05             |
|                              | Method A Soil C<br>Unrestricted La | · · .           | vel         | 0.03    | 6            | NVE    | 8,000 <sup>c</sup>    | 5           | 8,000 <sup>c</sup>   | NVE                     | 8,000 <sup>c</sup>    | 0.05                            | 8,000 <sup>c</sup>     | 7       | 0.03                          | 800 <sup>c</sup>                | 800 <sup>c</sup>                | 9                | 0.67 <sup>c</sup> |

Notes:

All results presented in milligrams per kilogram (mg/kg).

Bold Bold results indicate the compound was detected.

Shaded cells indicate the compound was detected at a concentration greater than the cleanup level.

< Less than laboratory reporting limit

-- Not sampled, not analyzed, or data not available

а Analyzed by EPA Method 8021 or 8260.

Model Toxics Control Act (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses, Table 740-1, Washington Administrative Code (WAC) 173-340-900 b

c When no MTCA Method A established, MTCA Method B Soil Cleanup Levels (from Cleanup Levels and Risk Calculations [CLARC] spreadsheet) used. Where cleanup levels based on carcinogenic and non-carcinogenic risk were available, the lower value is listed. AOPC Area of Potential Concern

NVE No value established

UST Underground storage tank

### Table 5 Summary of Groundwater Volatile Organic Compound Analytical Results **Revised Remedial Investigation Report** Seattle Times Site 1120 John Street, Seattle, Washington

|                              |                           |                |                    |         |                     |                                 |                  |              |                  |                       |                      | Detected Volati | le Organic Co           | ompounds <sup>a</sup> |                                 |         |                                |                               |                                  |                                 |                                 |                  |                   |
|------------------------------|---------------------------|----------------|--------------------|---------|---------------------|---------------------------------|------------------|--------------|------------------|-----------------------|----------------------|-----------------|-------------------------|-----------------------|---------------------------------|---------|--------------------------------|-------------------------------|----------------------------------|---------------------------------|---------------------------------|------------------|-------------------|
| Area of Potential<br>Concern | Sample ID                 | Sample<br>Date | Acetone            | Benzene | 2-Butanone<br>(MEK) | cis-1,2-<br>Dichloro-<br>ethene | Chloroform       | Ethylbenzene | Hexane           | lsopropyl-<br>benzene | n-Propyl-<br>benzene | Naphthalene     | p-lsopropyl-<br>toluene | sec-Butyl-<br>benzene | Tetrachloro-<br>ethene<br>(PCE) | Toluene | 1,1,1-<br>Trichloro-<br>ethane | Trichloro-<br>ethene<br>(TCE) | Trichloro-<br>fluoro-<br>methane | 1,2,4-<br>Trimethyl-<br>benzene | 1,3,5-<br>Trimethyl-<br>benzene | Total<br>Xylenes | Vinyl<br>Chloride |
| -                            | T-4:GW                    | 5/3/2018       |                    |         |                     |                                 |                  |              |                  |                       |                      |                 |                         |                       |                                 |         |                                |                               |                                  |                                 |                                 |                  |                   |
| AOPC 2                       | T-5:GW                    | 5/3/2018       |                    |         |                     |                                 |                  |              |                  |                       |                      |                 |                         |                       |                                 |         |                                |                               |                                  |                                 |                                 |                  |                   |
| Interior Ink                 | T-6:GW                    | 5/2/2018       |                    |         |                     |                                 |                  |              |                  |                       |                      |                 |                         |                       |                                 |         |                                |                               |                                  |                                 |                                 |                  |                   |
| Tanks                        | T-7:GW                    | 5/2/2018       |                    |         |                     |                                 |                  |              |                  |                       |                      |                 |                         |                       |                                 |         |                                |                               |                                  |                                 |                                 |                  |                   |
|                              | T-9:GW                    | 10/27/2018     | 110 lc             | 1.6     | 13                  | 3.8                             | <1               | <1           | <1               | <1                    | <1                   | <1              | <1                      | <1                    | <1                              | 1.3     | <1                             | 1.6                           | 3.2                              | <1                              | <1                              | <2               | 0.22              |
| _                            | U-6:GW                    | 7/26/2012      | <10                | <0.35   | <10                 | <1                              | 2.4              | <1           |                  | <1                    | <1                   | <1              | <1                      | <1                    | <1                              | <1      | <1                             | 9.0                           | <1                               | <1                              | <1                              | <3               | <0.2              |
| AOPC 5                       | U-10:GW                   | 5/13/2018      | 56 lc              | < 0.35  | <10                 | <1                              | <1               | <1           | <1               | <1                    | <1                   | <1              | <1                      | <1                    | <1                              | <1      | <1                             | 2.3                           | <1                               | <1                              | <1                              | <2               | <0.2              |
| Northern UST                 | U-11:GW                   | 5/13/2018      | <50                | 1.5     | <10                 | <1                              | 2.5              | 46           | 1.2              | 24                    | 66                   | 91              | 4.9                     | 10                    | 1.2                             | <1      | 1.7                            | 1.9                           | <1                               | 540                             | 170                             | 149.3            | <0.2              |
| Complex and                  | U-12:GW                   | 5/13/2018      | <50                | 2.7     | 11                  | <1                              | 2.3              | 660          | 16               | 120                   | 350                  | 570             | 9.9                     | 21                    | <1                              | 21      | 1.1                            | 4.8                           | <1                               | 2,900                           | 720                             | 5,800            | <0.2              |
| Fuel Dispenser               | U-13:GW                   | 5/3/2018       | <50 jl             | <0.35   | <10                 | <1                              | <1               | <1           | <1               | <1                    | <1                   | <1              | <1                      | <1                    | <1                              | <1      | <1                             | 7.9                           | <1                               | <1                              | <1                              | <2               | <0.2              |
| i dei Dispenser              | U-14:GW                   | 5/4/2018       | <50 jl             | <0.35   | <10                 | <1                              | <1               | <1           | <1               | <1                    | <1                   | <1              | <1                      | <1                    | <1                              | <1      | <1                             | <1                            | <1                               | <1                              | <1                              | <2               | <0.2              |
|                              | U-15                      | 5/20/2018      | <50                | < 0.35  | <10                 | <1                              | <1               | <1           | <1               | <1                    | <1                   | <1              | <1                      | <1                    | <1                              | <1      | <1                             | <1                            | <1                               | <1                              | <1                              | <2               | <0.2              |
| 1000 40                      | S-2:water                 | 9/6/2012       |                    |         |                     |                                 | <1               |              |                  |                       |                      |                 |                         |                       | <1                              |         |                                | <1                            |                                  |                                 |                                 |                  | <0.2              |
| AOPC 10                      | S-4:water                 | 9/7/2012       |                    |         |                     |                                 | <1               |              |                  |                       |                      |                 |                         |                       | <1                              |         |                                | <1                            |                                  |                                 |                                 |                  | <0.2              |
| Sumps                        | S-5:water                 | 9/6/2012       |                    |         |                     |                                 | 1.0              |              |                  |                       |                      |                 |                         |                       | <1                              |         |                                | <1                            |                                  |                                 |                                 |                  | <0.2              |
|                              | MW-1-0912                 | 9/6/2012       |                    |         |                     | <1                              | <1               |              |                  | <1                    |                      |                 | <1                      | <1                    | <1                              | <1      |                                | <1                            |                                  | <1                              | <1                              | <1               | <0.2              |
| ľ                            | MW-2-0912                 | 9/6/2012       |                    |         |                     | 22                              | 2.3              |              |                  | 3.2                   |                      |                 | 2.0                     | 3.9                   | 10                              | <1      |                                | 5.6                           |                                  | 34                              | 3.9                             | 1.7              | 1.3               |
| Ī                            | MW-3:GW                   | 4/30/2013      | <10                | < 0.35  | <10                 | <1                              | 4.7 lc           | <1           |                  | <1                    | <1                   | <1              | <1                      | <1                    | <1                              | 12      | <1                             | <1                            | <1                               | <1                              | <1                              | <1               | <0.2 pr           |
|                              | MW-3:20:GW                | 4/29/2013      | <10                | < 0.35  | <10                 | <1                              | <1               | <1           |                  | <1                    | <1                   | <1              | <1                      | <1                    | <1                              | <1      | <1                             | <1                            | <1                               | <1                              | <1                              | <1               | <0.2 pr           |
|                              | MW-4                      | 5/20/2018      | <50                | 0.47    | <10                 | <1                              | <1               | <1           | <1               | <1                    | <1                   | <1              | <1                      | <1                    | <1                              | 1.1     | <1                             | <1                            | <1                               | <1                              | <1                              | <2               | <0.2              |
|                              | MW-4 <sup>d</sup>         | 12/8/2019      |                    |         |                     | <1                              |                  |              |                  |                       |                      |                 |                         |                       | <1                              |         |                                | <1                            |                                  |                                 |                                 |                  | <0.2              |
|                              | MW-4 <sup>d</sup>         | 6/25/2019      |                    |         |                     | <1                              |                  |              |                  |                       |                      |                 |                         |                       | <1                              |         |                                | <1                            |                                  |                                 |                                 |                  | <0.2              |
|                              | MW-4 <sup>d</sup>         | 12/10/2020     |                    |         |                     | <1                              |                  |              |                  |                       |                      |                 |                         |                       | <1                              |         |                                | <1                            |                                  |                                 |                                 |                  | <0.2              |
| Potential                    | MW-5:GW                   | 5/3/2018       | <50 jl             | < 0.35  | <10                 | <1                              | <1               | <1           | <1               | <1                    | <1                   | <1              | <1                      | <1                    | <1                              | 1.2     | <1                             | <1                            | <1                               | <1                              | <1                              | <2               | <0.2              |
| Off-Site Source              | MW-5 <sup>d</sup>         | 12/8/2019      |                    |         |                     | <1                              |                  |              |                  |                       |                      |                 |                         |                       | <1                              |         |                                | <1                            |                                  |                                 |                                 |                  | 0.28              |
|                              | MW-5 <sup>d</sup>         | 2/6/2020       |                    |         |                     | <1                              |                  |              |                  |                       |                      |                 |                         |                       | <1                              |         |                                | <1                            |                                  |                                 |                                 |                  | <0.2              |
|                              | MW-5 <sup>d</sup>         | 6/25/2020      |                    |         |                     | <1                              |                  |              |                  |                       |                      |                 |                         |                       | <1                              |         |                                | <1                            |                                  |                                 |                                 |                  | <0.2              |
|                              | MW-5 <sup>d</sup>         | 12/9/2020      |                    |         |                     | <1                              |                  |              |                  |                       |                      |                 |                         |                       | <1                              |         |                                | <1                            |                                  |                                 |                                 |                  | <0.2              |
|                              | MW-9                      | 11/9/2020      |                    |         |                     | 3.5                             |                  |              |                  |                       |                      | -               |                         |                       | <1                              |         |                                | <1                            |                                  |                                 |                                 |                  | <0.2              |
| -                            | MW-9S                     | 11/9/2020      |                    |         |                     | 3.5<br><1                       |                  |              |                  |                       |                      |                 |                         |                       | <1                              |         |                                | 6.2                           |                                  |                                 |                                 |                  | <0.2              |
| -                            | MW-10                     | 11/9/2020      |                    |         |                     | <1                              |                  |              |                  |                       |                      |                 |                         |                       | <1                              |         |                                | 2.2                           |                                  |                                 |                                 |                  | <0.2              |
| -                            | MW-10S                    | 11/9/2020      |                    |         |                     | <1                              | -                |              |                  |                       |                      | -               |                         |                       | 1.0                             |         |                                | <1                            |                                  |                                 |                                 |                  | <0.2              |
|                              |                           | 3/15/2019      |                    |         |                     |                                 |                  |              |                  |                       |                      |                 |                         |                       | 7.7                             |         |                                | 4.7                           |                                  |                                 |                                 |                  | <0.2<br>0.47      |
|                              | MW-28 <sup>d</sup>        | 6/13/2019      |                    |         |                     | 67<br>80                        |                  |              |                  |                       |                      |                 |                         |                       |                                 |         |                                | 5.7                           |                                  |                                 |                                 |                  | 0.47              |
|                              | MW-28 <sup>d</sup>        | 10/9/2019      |                    |         |                     |                                 |                  |              |                  |                       |                      |                 |                         |                       | 9.0                             |         |                                |                               |                                  |                                 |                                 |                  |                   |
|                              | MW-28 <sup>d</sup>        |                |                    |         |                     | 72                              |                  |              |                  |                       |                      |                 |                         |                       | 8.7                             |         |                                | 6.1                           |                                  |                                 |                                 |                  | 0.31              |
|                              | MW-28 <sup>d</sup>        | 12/4/2019      |                    |         |                     | 52                              |                  |              |                  |                       |                      |                 |                         |                       | 8.4                             |         |                                | 4.9                           |                                  |                                 |                                 |                  | 0.27              |
|                              | MW-28 <sup>d</sup>        | 6/26/2020      |                    |         |                     | 22<br>19                        |                  |              |                  |                       |                      |                 |                         |                       | 9.1                             |         |                                | 5.1                           |                                  |                                 |                                 |                  | <0.2              |
| Troy Laundry                 | MW-28 <sup>d</sup>        | 12/11/2020     |                    |         |                     |                                 |                  |              |                  |                       |                      |                 |                         |                       | 8.3                             |         |                                | 4.9                           |                                  |                                 |                                 |                  | <0.2              |
| Site                         | MW-29 <sup>d</sup>        | 10/8/2019      |                    |         |                     | 52                              |                  |              |                  |                       |                      |                 |                         |                       | 8.6                             |         |                                | 9.4                           |                                  |                                 |                                 |                  | 0.64              |
|                              | MW-29 <sup>d</sup>        | 12/4/2019      |                    |         |                     | 26                              |                  |              |                  |                       |                      |                 |                         |                       | 16                              |         |                                | 12                            |                                  |                                 |                                 |                  | 0.4               |
|                              | MW-29 <sup>d</sup>        | 6/26/2020      |                    |         |                     | 16                              |                  |              |                  |                       |                      |                 |                         |                       | 18                              |         |                                | 13                            |                                  |                                 |                                 |                  | 0.2               |
| Ļ                            | MW-29 <sup>d</sup>        | 12/10/2020     |                    |         |                     | 18                              |                  |              |                  |                       |                      |                 |                         |                       | 18                              |         |                                | 13                            |                                  |                                 |                                 |                  | <0.2              |
|                              | MW-30 <sup>d</sup>        | 10/8/2019      |                    |         |                     | 24                              |                  |              |                  |                       |                      |                 |                         |                       | <1                              |         |                                | 3.6                           |                                  |                                 |                                 |                  | <0.2              |
|                              | MW-30 <sup>d</sup>        | 12/4/2019      |                    |         |                     | 11                              |                  |              |                  |                       |                      |                 |                         |                       | <1                              |         |                                | 2.0                           |                                  |                                 |                                 |                  | <0.2              |
|                              | MW-30 <sup>d</sup>        | 6/26/2020      |                    |         |                     | 3.6                             |                  |              |                  |                       |                      |                 |                         |                       | <1                              |         |                                | 1.0                           |                                  |                                 |                                 |                  | <0.2              |
|                              | MW-30 <sup>d</sup>        | 12/10/2020     |                    |         |                     | 13                              |                  |              |                  |                       |                      |                 |                         |                       | <1                              |         |                                | 2.4                           |                                  |                                 |                                 |                  | <0.2              |
|                              | ethod A Groundv           | vater          | 7,200 <sup>°</sup> | 5       | 4,800 <sup>c</sup>  | 16 <sup>°</sup>                 | 1.4 <sup>c</sup> | 700          | 480 <sup>c</sup> | 800 <sup>c</sup>      | 800 <sup>c</sup>     | 160             | NVE                     | 800 <sup>c</sup>      | 5                               | 1,000   | 200                            | 1.4 <sup>e</sup>              | 2,400 <sup>c</sup>               | 80 <sup>c</sup>                 | 80 <sup>c</sup>                 | 1,000            | 0.2               |
| С                            | leanup Level <sup>b</sup> |                | 1,200              |         | 4,000               | 10                              | 1.4              | , 30         | 400              | 000                   | 000                  | 100             |                         | 000                   | 5                               | 1,000   | 200                            | 1.4                           | 2,400                            | 00                              | 00                              | 1,000            | 0.2               |

Notes:

All results presented in micrograms per Liter (µg/L).

Bold Bold results indicate that the compound was detected.

Shaded cells indicate that the compound was detected at a concentration greater than the cleanup level.

< Less than laboratory reporting limit

-- Not sampled, not analyzed, or data not available

Analyzed by EPA Method 8260. а

A hanged by EPA Method 200.
 Model Toxics Control Act (MTCA) Method A Cleanup Levels for Groundwater, Table 720-1, Washington Administrative Code (WAC) 173-340-900
 When no MTCA Method A established, MTCA Method B Groundwater Cleanup Levels (from Cleanup Levels and Risk Calculations [CLARC] spreadsheet) used. Where cleanup levels based on carcinogenic and non-carcinogenic risk were available, the lower value is listed.
 Data previously provided to the Washington Department of Ecology as part of the Troy Laundry Site by Sound Earth Strategies (SES). These data have not been verified by Onni or TRC.
 TCE value is a screening level for the Groundwater to indoor Air Exposure Pathway.

UST Underground storage tank.

Qualifiers: jl

The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

The presence of the analyte is likely due to laboratory contamination. lc

The sample was received with incorrect preservation. The value reported should be considered an estimate pr

# Table 6Summary of Groundwater Petroleum Analytical ResultsRevised Remedial Investigation ReportSeattle Times Site1120 John Street, Seattle, Washington

| Area of               | O anna la ID                                | Ormalia Data | Petrol                 | eum Hydroca      | arbons           |
|-----------------------|---|--------------|------------------------|------------------|------------------|
| Potential<br>Concern  | Sample ID                                   | Sample Date  | GROª                   | DRO <sup>b</sup> | ORO <sup>b</sup> |
|                       | T-4:GW                                      | 5/3/2018     |                        | 650 x            | 420 x            |
| AOPC 2                | T-5:GW                                      | 5/3/2018     |                        | 1,900 x          | 1,200 x          |
| Interior Ink          | T-6:GW                                      | 5/2/2018     |                        | 170 x            | <250             |
| Tanks                 | T-7:GW                                      | 5/2/2018     |                        | 170 x            | <250             |
|                       | T-9:GW                                      | 10/27/2018   | <100                   | 8,600 x          | 3,000 x          |
|                       | U-6:GW                                      | 7/26/2012    | <100                   | <50              | <250             |
| AOPC 5                | U-10:GW                                     | 5/13/2018    | <100                   | 6,700 x          | 4,700 x          |
| Northern UST          | U-11:GW                                     | 5/13/2018    | 6,400                  | 2,800 x          | 700 x            |
| Complex and           | U-12:GW                                     | 5/13/2018    | 37,000                 | 5,900 x          | 490 x            |
| Fuel                  | U-13:GW                                     | 5/3/2018     | <100                   | 480 x            | 390 x            |
| Dispenser             | U-14:GW                                     | 5/4/2018     | <100                   | 230 x            | <250             |
|                       | U-15  | 5/20/2018    | <100                   | 3,400 x          | 2,100 x          |
| AOPC 10               | S-2:water                                   | 9/6/2012     | <100                   | <50              | <250             |
| Sumps                 | S-4:water                                   | 9/7/2012     | <100                   | 310 x            | 1,900            |
| Oumps                 | S-5:water                                   | 9/6/2012     | <100                   | 110,000 x        | 10,000 x         |
|                       | MW-1-0912                                   | 9/6/2012     | <100                   | <50              | <250             |
|                       | MW-2-0912                                   | 9/6/2012     | 340                    | 400 x            | <250             |
|                       | MW-3:GW                                     | 4/30/2013    |                        |                  |                  |
|                       | MW-3:20:GW                                  | 4/29/2013    |                        |                  |                  |
| Potential<br>Off-Site | MW-4  | 5/20/2018    |                        |                  |                  |
| Source                | MW-5:GW                                     | 5/3/2018     |                        |                  |                  |
|                       | MW-9  | 11/9/2020    |                        |                  |                  |
|                       | MW-9S                                       | 11/9/2020    |                        |                  |                  |
|                       | MW-10                                       | 11/9/2020    |                        |                  |                  |
|                       | MW-10S                                      | 11/9/2020    |                        |                  |                  |
|                       | ethod A Grour<br>Cleanup Level <sup>c</sup> | ndwater      | 800/1,000 <sup>d</sup> | 500              | 500              |

Notes:

All results presented in micrograms per liter ( $\mu$ g/L).

Bold Bold results indicate that the compound was detected.

Shaded cells indicate that the compound was detected at a concentration greater than the cleanup level.

- < Less than laboratory reporting limit
- -- Not sampled, not analyzed, or data not available
- a Analyzed by NWTPH-Gx
- b Analyzed by NWTPH-Dx
- c Model Toxics Control Act (MTCA) Method A Cleanup Levels for Groundwater, Table 720-1, Washington Administrative Code (WAC) 173-340-900
- d MTCA Method A Groundwater Cleanup Level is 800 μg/L when benzene is present in the sample and 1,000 μg/L when benzene is not detected.
- AOPC Area of Potential Concern.
- UST Underground storage tank.

Qualifiers:

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

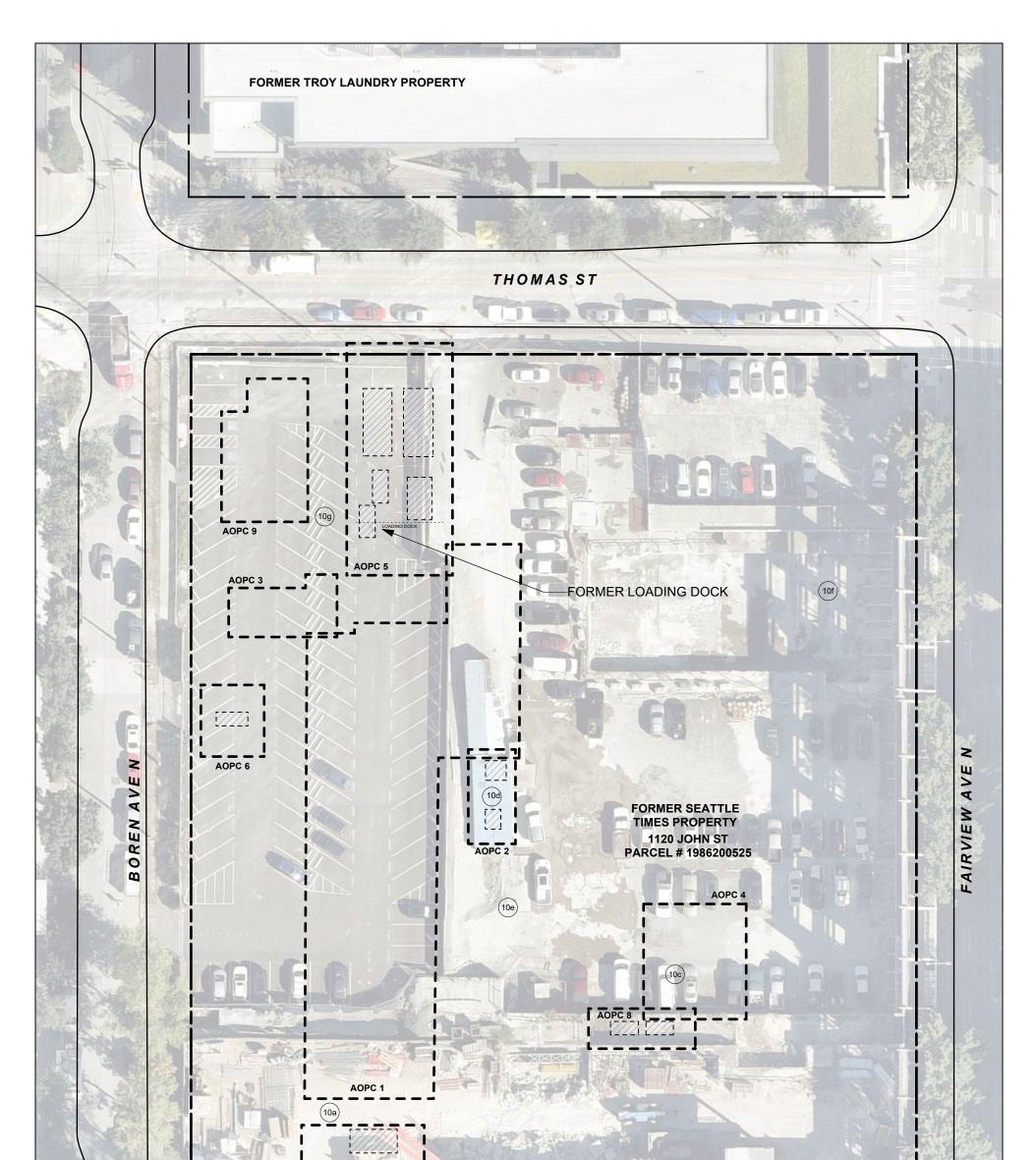
### Compounds:

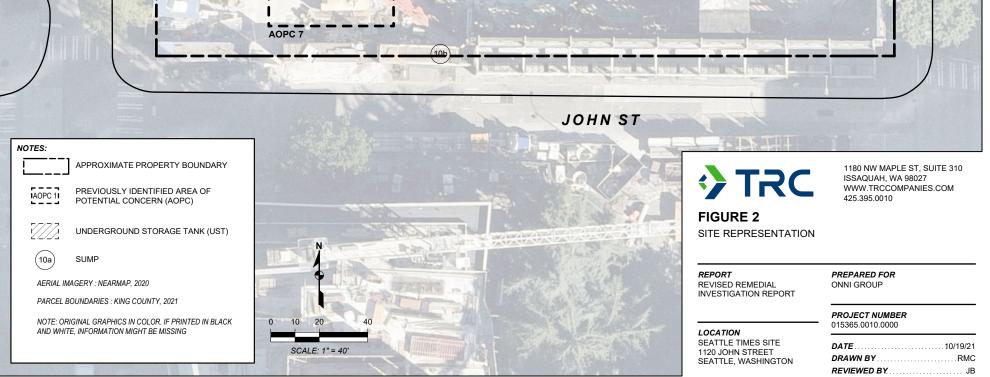
- GRO Gasoline-range organics
- DRO Diesel-range organics
- ORO Oil-range organics

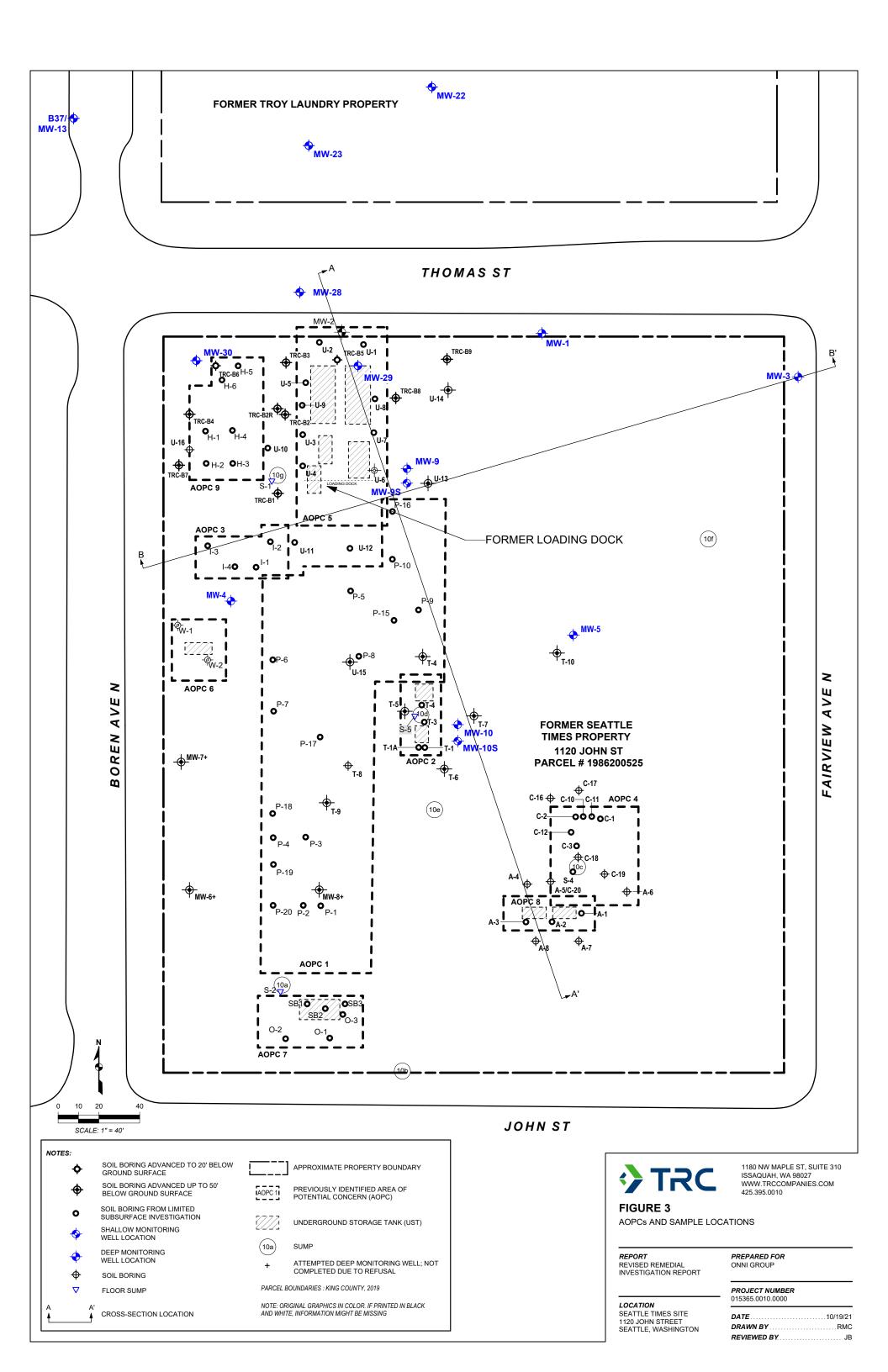


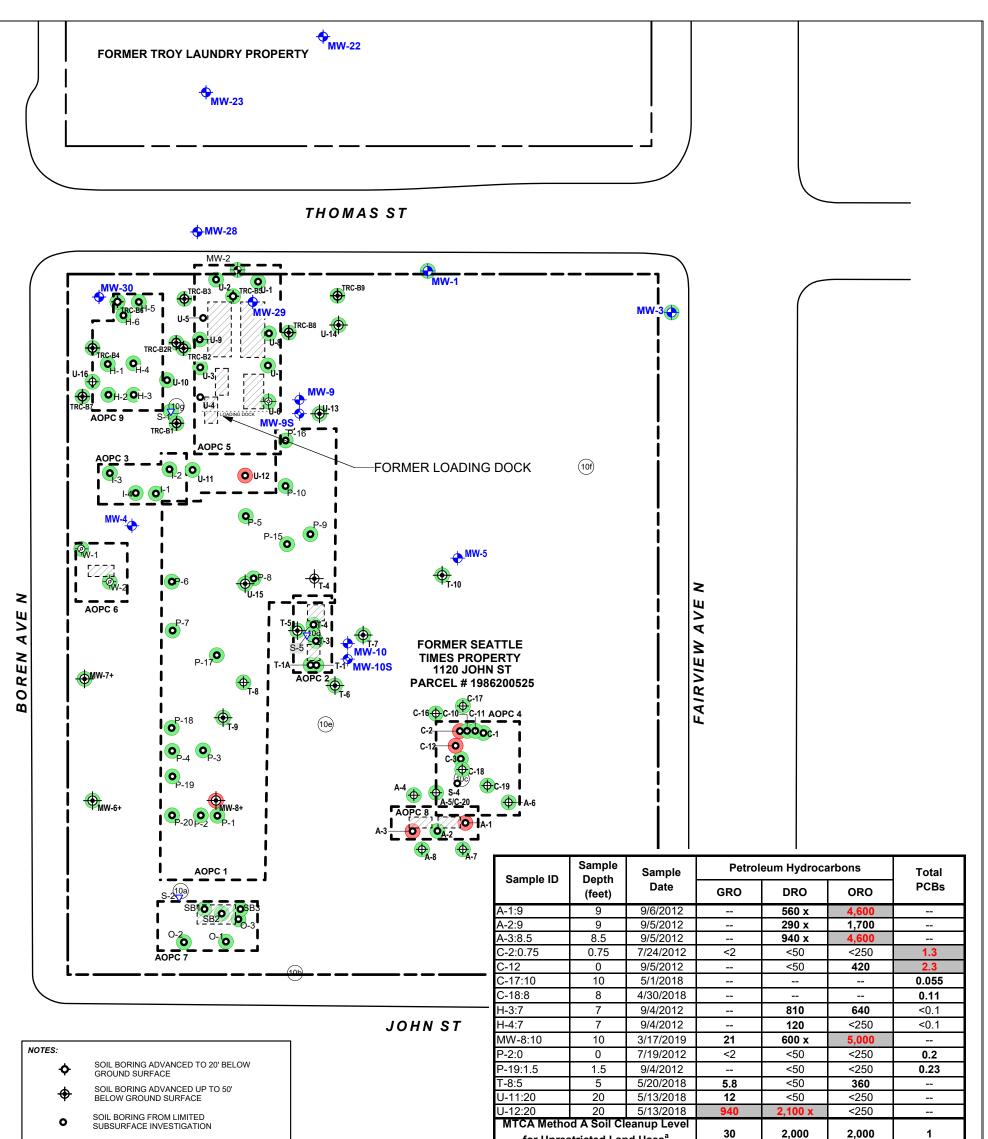
Figures



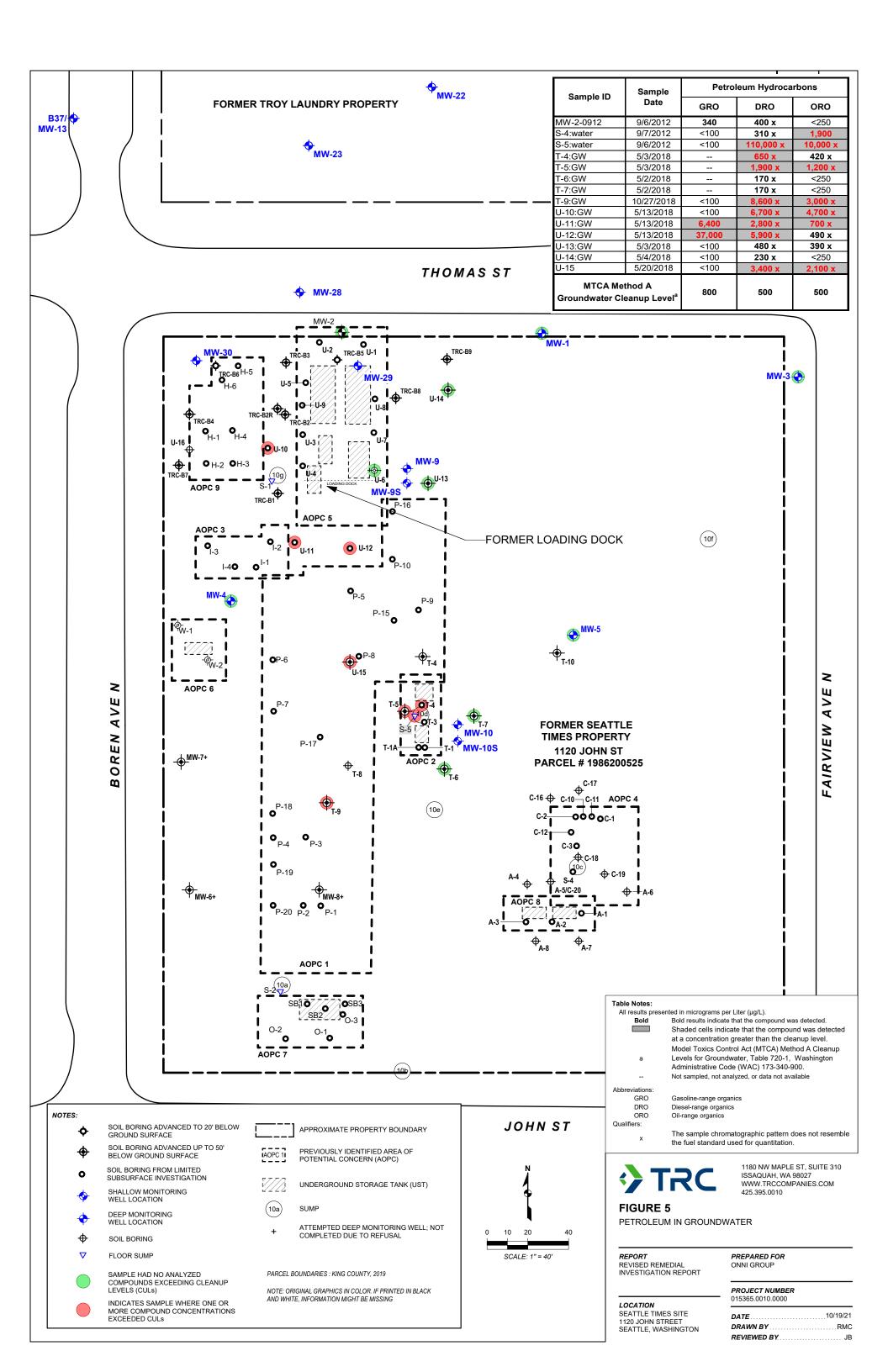


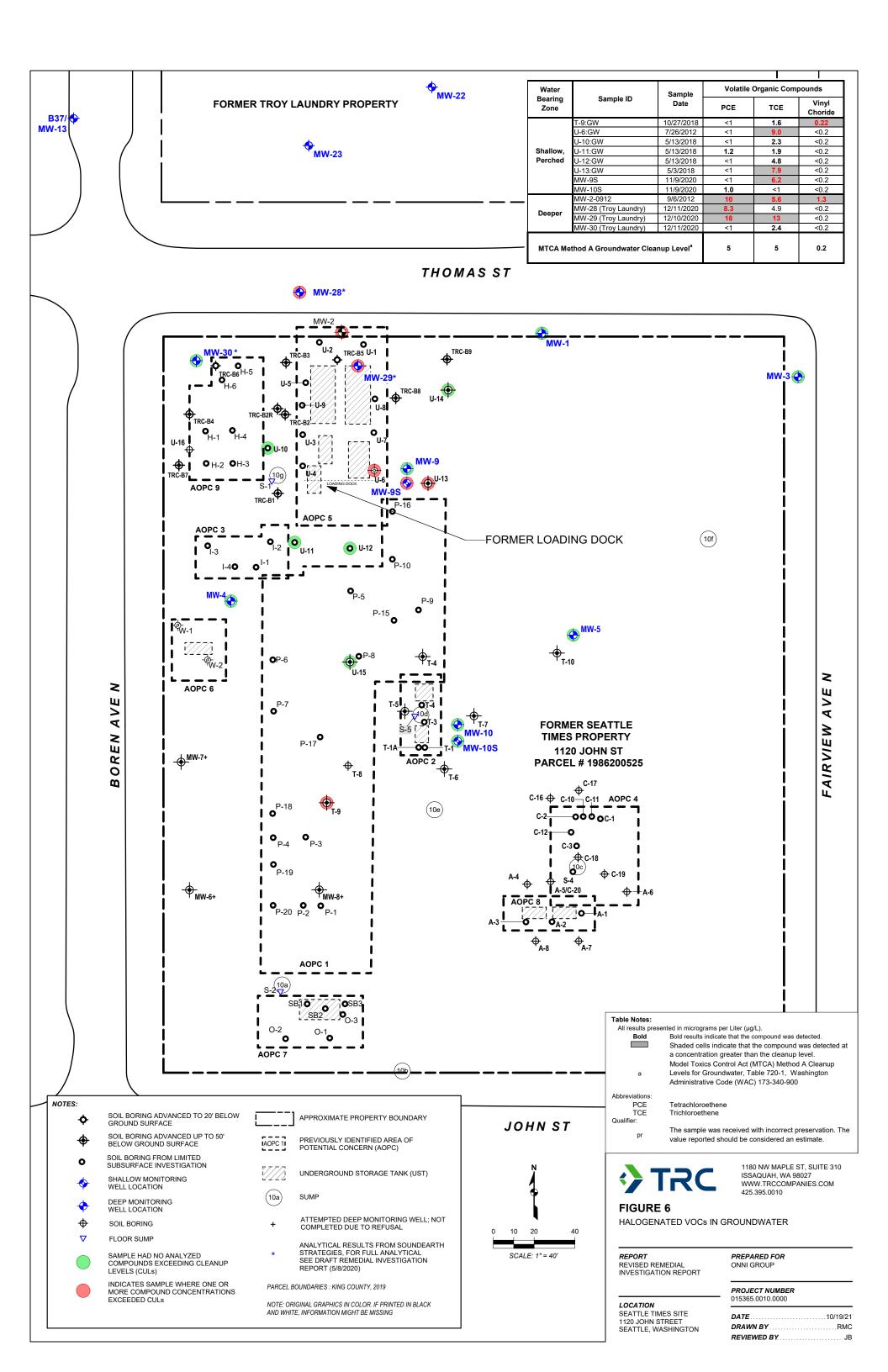


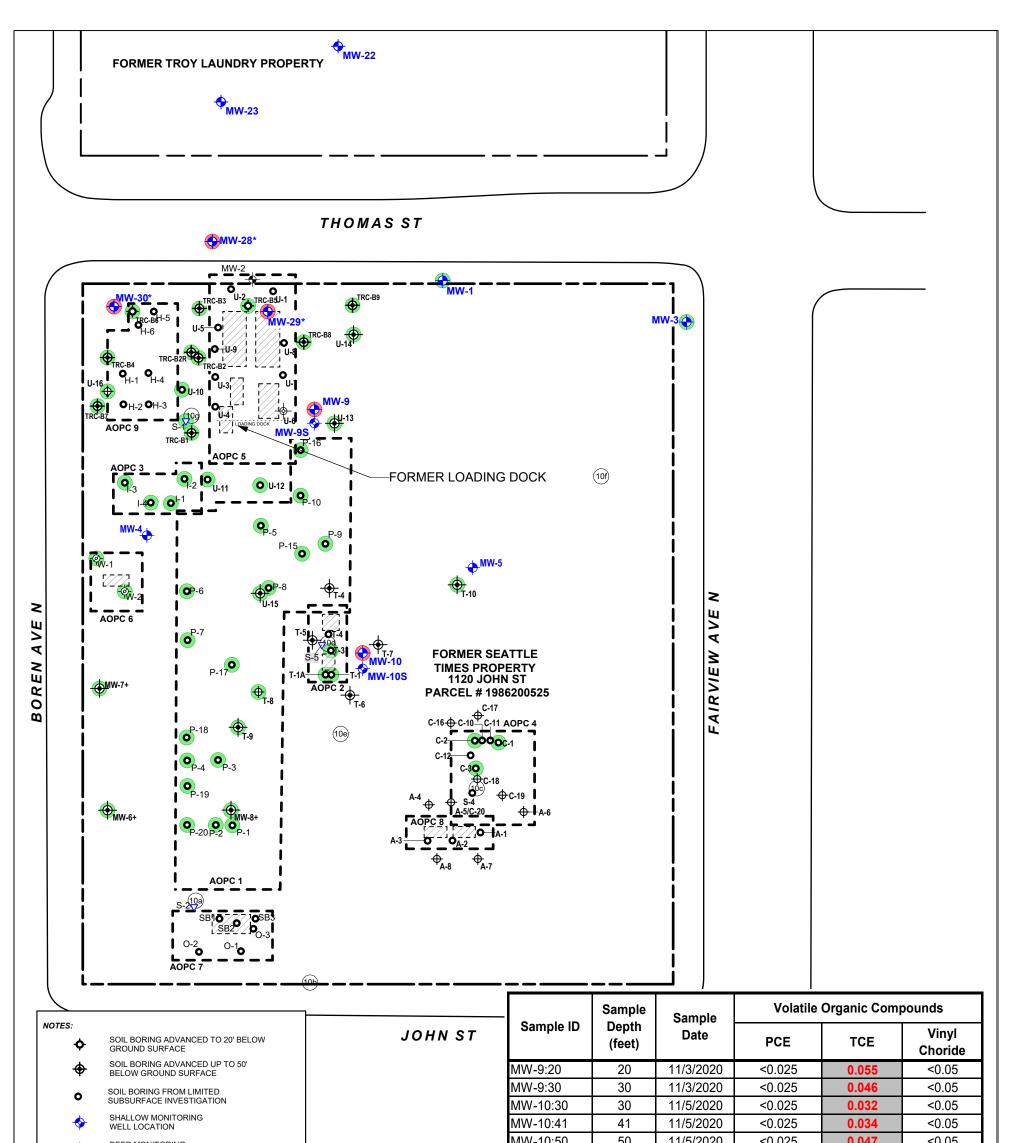




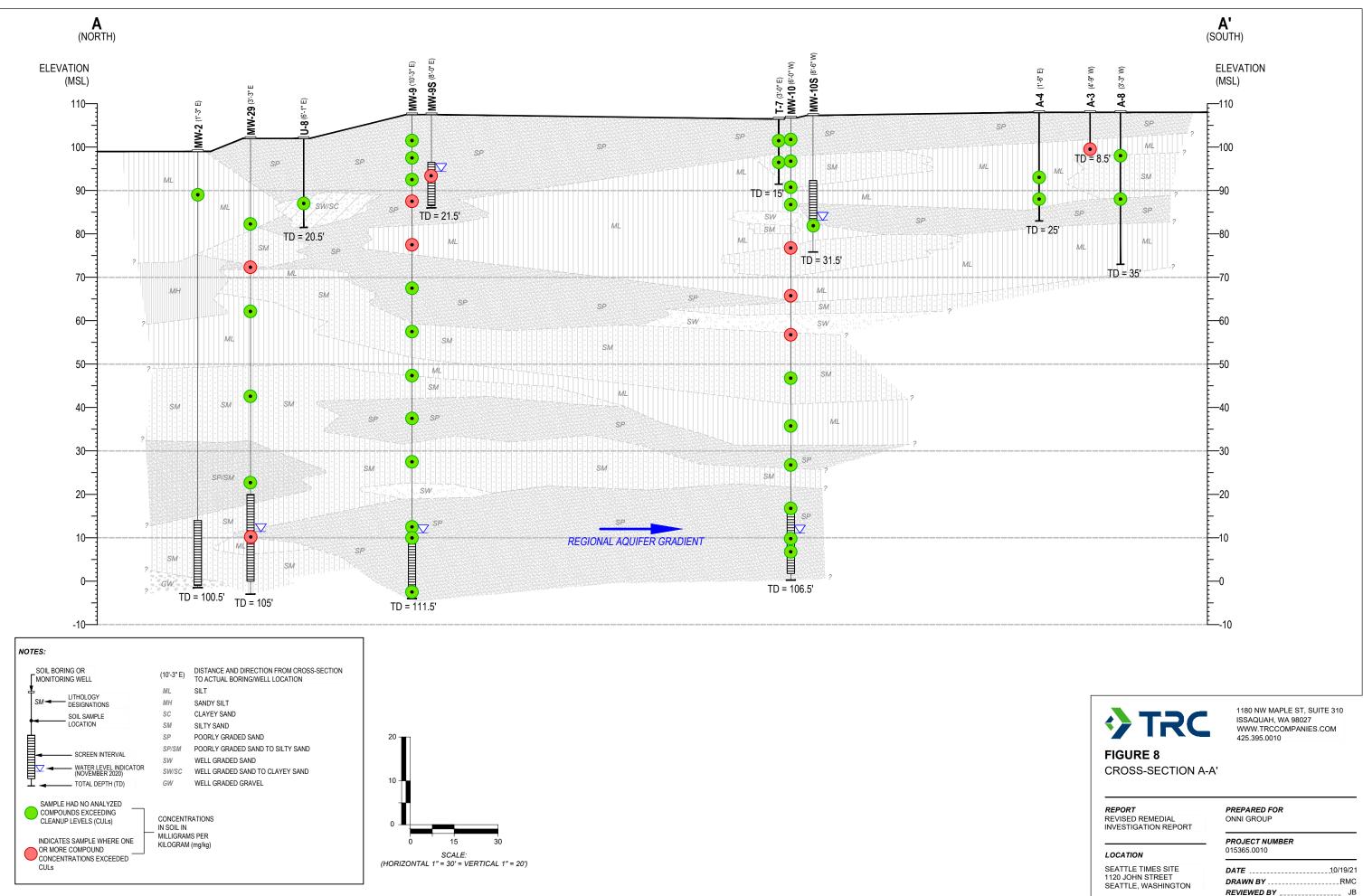
| <b></b>  | SHALLOW MONITORING<br>WELL LOCATION  |   |   | for Unrestricted Land Uses <sup>a</sup>                                |  | 2,000     | 2,000                            |              |
|----------|--|---|---|--|--|-----------|----------------------------------|--------------|
| <b>+</b> | DEEP MONITORING<br>WELL LOCATION   |   |   | Ν  |  |           |                                  |              |
|          | SAMPLE HAD NO ANALYZED<br>COMPOUNDS EXCEEDING CLEANUP<br>LEVELS (CULs)           |   |   |  |  |           |                                  |              |
|          | INDICATES SAMPLE WHERE ONE OR<br>MORE COMPOUND CONCENTRATIONS<br>EXCEEDED CULs   |   |   |  |  |           |                                  |              |
| \$       | SOIL BORING  |   |   | 0 12.5 25 50   |  |           |                                  |              |
| $\nabla$ | FLOOR SUMP   |   |   | SCALE: 1" = 50'  |  |           |                                  |              |
|          | APPROXIMATE PROPERTY BOUNDARY  | Table Notes:                                |   |  |  |           |                                  |              |
| IAOPC 1  | PREVIOUSLY IDENTIFIED AREA OF<br>POTENTIAL CONCERN (AOPC)                        |   | esented in milligrams/kilogram (mg/kg).<br>Bold results indicate the compound wa<br>Shaded cells indicate the compound w<br>than the cleanup level. |  | 🤣 T  | RC        | ISSAQUAH,                        | OMPANIES.COM |
|          | UNDERGROUND STORAGE TANK (UST)   | а   | Model Toxics Control Act (MTCA) Met<br>Unrestricted Land Uses, Table 740-1,   | thod A Soil Cleanup Levels for<br>Washington Administrative Code (WAC) |  | COMPOUNDS |                                  |              |
| (10a)    | SUMP   |   | 173-340-900.<br>Not sampled, not analyzed.  |  | TEINOLLOW  |           |                                  | <b>VOOL</b>  |
| +        | ATTEMPTED DEEP MONITORING WELL; NOT COMPLETED DUE TO REFUSAL                     | Abbreviations:<br>DRO<br>GRO<br>ORO<br>PCBs | Diesel-range organics<br>Gasoline-range organics<br>Oil-range organics<br>Polychlorinated Biphenyls   |  | <b>REPORT</b><br>REVISED REME<br>INVESTIGATION   |           | <b>PREPARED FO</b><br>ONNI GROUP | R            |
|          | BOUNDARIES : KING COUNTY, 2019   | Qualifier:                                  |   | does not resemble the fuel standard used                               |  |           | PROJECT NUM<br>015365.0010.00    |              |
|          | IGINAL GRAPHICS IN COLOR. IF PRINTED IN BLACK<br>E, INFORMATION MIGHT BE MISSING | x   | for quantitation.   |  | LOCATION<br>SEATTLE TIMES                        | SITE      |                                  |              |
|          |  |   |   |  | SEATTLE TIMES<br>1120 JOHN STRI<br>SEATTLE, WASH | EET       | DRAWN BY                         |              |



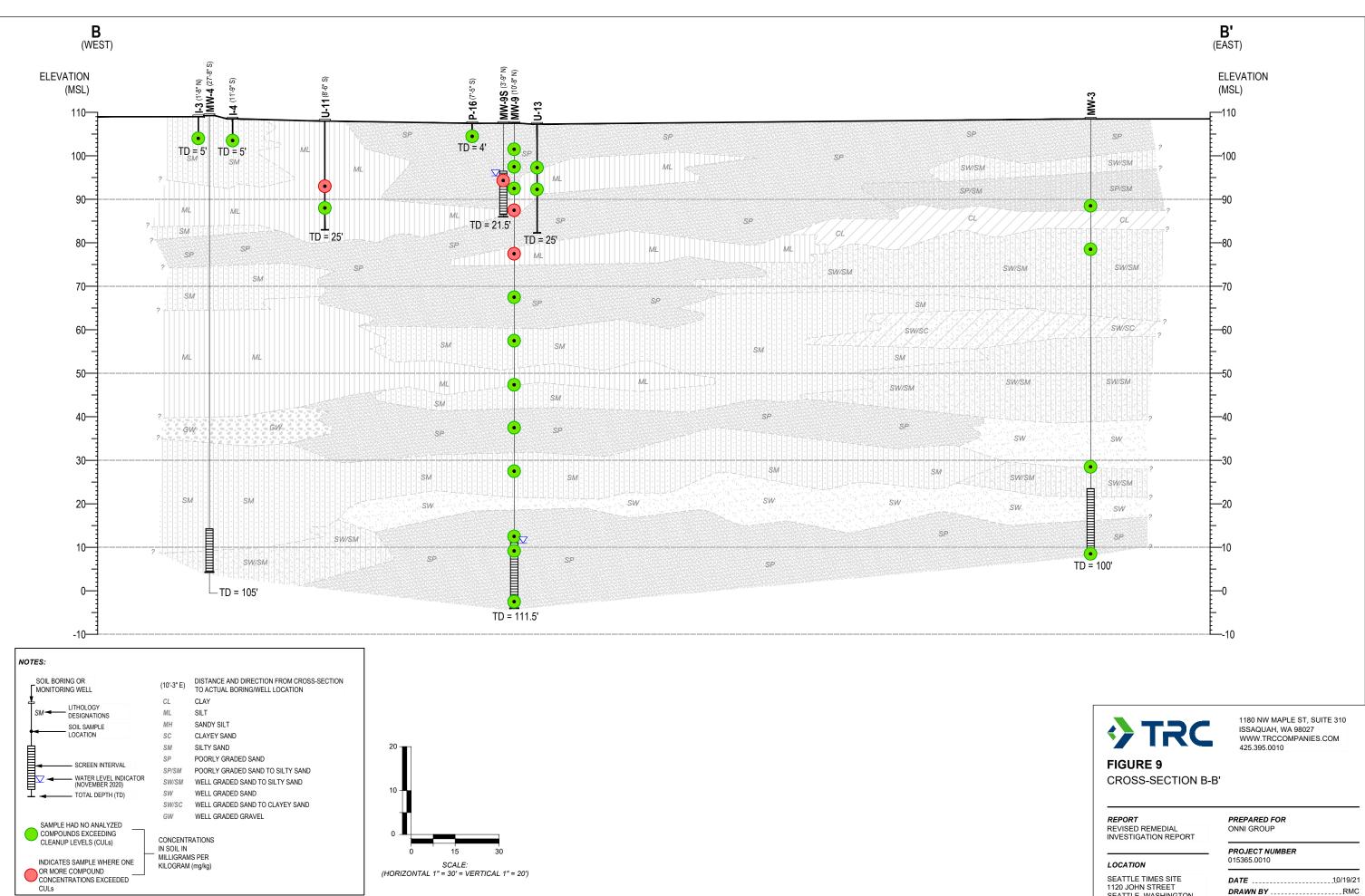




| 4                  | DEEP MONITORING   |                                       |  | MW-10:50   | 50            | 11/5/2020    | <0.025   | 0.047                              | <0.05  |
|--------------------|---|---------------------------------------|--|--|---------------|--------------|--|------------------------------------|--|
| Y                  | WELL LOCATION   |                                       |  | U-11:15  | 15            | 5/13/2018    | <0.025   | 0.021                              | < 0.05   |
| <del>\$</del>      | SOIL BORING   |                                       |  | MTCA Metho   | od A or B S   | Soil Cleanup | 2  |                                    |  |
| $\bigtriangledown$ | FLOOR SUMP  |                                       |  |  | Level         | -            | 0.05 <sup>a</sup>                                | 0.03 <sup>a</sup>                  | 0.67 <sup>b</sup>                                  |
|                    | SAMPLE HAD NO ANALYZED<br>COMPOUNDS EXCEEDING CLEANUP<br>LEVELS (CULs)  |                                       |  | N  |               |              |  |                                    | L  |
|                    | INDICATES SAMPLE WHERE ONE OR<br>MORE COMPOUND CONCENTRATIONS<br>EXCEEDED CULS  |                                       |  | Ĩ,   |               |              |  |                                    |  |
| ]                  | APPROXIMATE PROPERTY BOUNDARY   |                                       |  |  |               |              |  |                                    |  |
| AOPC 1             | PREVIOUSLY IDENTIFIED AREA OF<br>POTENTIAL CONCERN (AOPC)   |                                       |  | 0 12.5 25  | 50            |              |  |                                    |  |
|                    | UNDERGROUND STORAGE TANK (UST)  |                                       |  | SCALE: 1" =  | 50'           |              |  | ISSAQUAH<br>WWW.TRC                | IAPLE ST, SUITE 310<br>, WA 98027<br>COMPANIES.COM |
| (10a)              | SUMP  | Table Notes:<br>All results p<br>Bold | resented in milligrams/kilogram (mg/kg).<br>Bold results indicate the compound wa<br>Shaded cells indicate the compound v                    | as detected.                                       | tration       | _            | URE 7  | 425.395.00                         | 10   |
| +                  | ATTEMPTED DEEP MONITORING WELL; NOT COMPLETED DUE TO REFUSAL  |                                       | greater than the cleanup level.<br>Model Toxics Control Act (MTCA) Met<br>Unrestricted Land Uses, Table 740-1,                               | hod A Soil Cleanup Leve                            | Is for        | HAL          | OGENATED VOCs                                    | IN SOIL                            |  |
| *                  | ANALYTICAL RESULTS FROM SOUNDEARTH<br>STRATEGIES, NOT SHOWN ON INSET TABLE<br>FOR FULL ANALYTICAL SEE DRAFT REMEDIAL<br>INVESTIGATION REPORT (5/8/2020) | b                                     | Code (WAC) 173-340-900.<br>MTCA Method B Soil Cleanup Levels<br>Calculations [CLARC] spreadsheet) us<br>based on carcinogenic and non-carcin | (from Cleanup Levels an<br>sed. Where cleanup leve | d Risk<br>els |              | <b>RT</b><br>SED REMEDIAL<br>STIGATION REPORT    | PREPARED F                         | DR   |
|                    | OUNDARIES : KING COUNTY, 2019   | Abbreviations                         | lower value is listed.   |  | ,             |              | 7/01/  | <b>PROJECT NU</b><br>015365.0010.0 |  |
|                    | GINAL GRAPHICS IN COLOR. IF PRINTED IN BLACK<br>E, INFORMATION MIGHT BE MISSING   | PCE<br>TCE                            | Tetrachloroethene<br>Trichloroethene   |  |               | 1120 .       | TLE TIMES SITE<br>JOHN STREET<br>TLE, WASHINGTON |                                    |  |

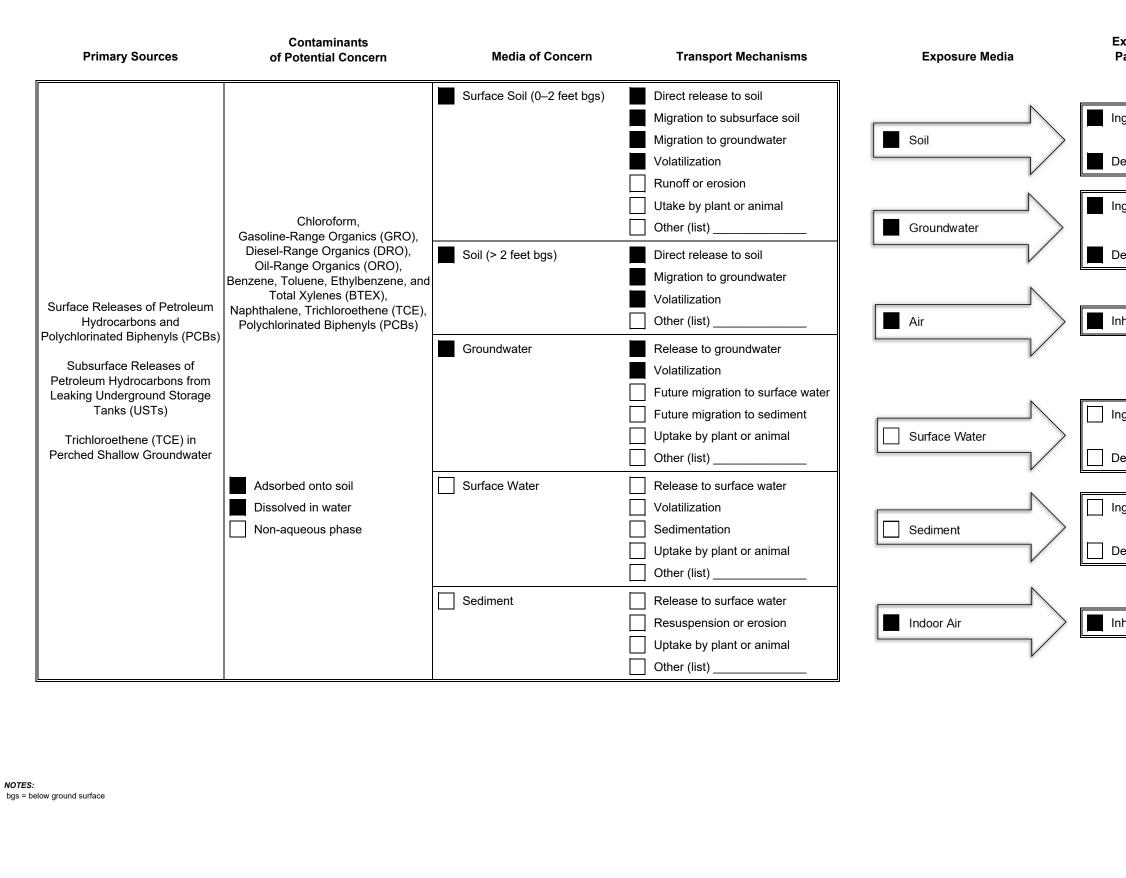


| DATE        | 0/19/21 |
|-------------|---------|
| DRAWN BY    | RMC     |
| REVIEWED BY | JB      |



SEATTLE, WASHINGTON

| <b>DATE</b> | 19/21 |
|-------------|-------|
| DRAWN BY    | RMC   |
| REVIEWED BY | JB    |



| kposure<br>athway |                    | Fut                                       | Construction<br>Worker (J) tue<br>Residential/<br>Recreational | ors                           |  |  |  |  |
|-------------------|--------------------|---|--|-------------------------------|--|--|--|--|
|                   |                    |   |  |                               |  |  |  |  |
| gestion           |                    |   | С  |                               |  |  |  |  |
| ermal Exposure    |                    |   | С  |                               |  |  |  |  |
| gestion           |                    |   | С  |                               |  |  |  |  |
|                   |                    |   |  |                               |  |  |  |  |
| ermal Exposure    |                    |   | С  |                               |  |  |  |  |
|                   |                    |   |  |                               |  |  |  |  |
| halation          |                    |   | С  |                               |  |  |  |  |
|                   |                    |   |  |                               |  |  |  |  |
|                   |                    |   |  |                               |  |  |  |  |
| gestion           |                    |   |  |                               |  |  |  |  |
| ermal Contact     |                    |   |  |                               |  |  |  |  |
|                   |                    |   |  |                               |  |  |  |  |
| gestion           |                    |   |  |                               |  |  |  |  |
| ermal Contact     |                    |   |  |                               |  |  |  |  |
|                   |                    |   |  |                               |  |  |  |  |
|                   |                    | 1   |  |                               |  |  |  |  |
| halation          |                    |   | С  |                               |  |  |  |  |
|                   |                    |   |  |                               |  |  |  |  |
|                   |                    |   |  |                               |  |  |  |  |
|                   |                    |   | GURE 10  |                               |  |  |  |  |
|                   | <br>               | ON-SITE CONC                              | EPTUAL SITE M  | JUEL                          |  |  |  |  |
|                   | PREPARED<br>BY     |   |  |                               |  |  |  |  |
|                   | REPORT             | T REVISED REMEDIAL INVESTIGATION REPORT   |  |                               |  |  |  |  |
|                   | LOCATION           | V 1120 JOHN STREET<br>SEATTLE, WASHINGTON |  |                               |  |  |  |  |
|                   | PREPARED<br>FOR    | ONNI JOHN STREE                           | T (LAND) LLC   |                               |  |  |  |  |
|                   | DATE<br>03/10/2022 | DRAWN BY<br>CSW                           | <b>REVIEWED BY</b><br>JB                                       | PROJECT NUMBER<br>015365.0010 |  |  |  |  |
|                   |                    |   |  |                               |  |  |  |  |

| Primary Sources  | Contaminants<br>of Potential Concern  | Media of Concern  | Transport Mechanisms  | Exposure Media   | Exposure<br>Pathway  | Commercial<br>Industrial<br>Construction<br>Worker (L) Bestdential<br>Residential/<br>Recreational<br>Receptors<br>Receptors  |
|--|---|---|---|------------------|--|---|
|  | Tetrachloroethene (PCE),<br>Trichloroethene (TCE),<br>cis-1,2-Dichloroethene (cis-1,2-DCE), | <ul> <li>Surface Soil (0–2 feet bgs)</li> <li>Soil (&gt; 2 feet bgs)</li> </ul>   | <ul> <li>Direct release to soil</li> <li>Migration to subsurface soil</li> <li>Migration to groundwater</li> <li>Volatilization</li> <li>Runoff or erosion</li> <li>Utake by plant or animal</li> <li>Other (list)</li> <li>Direct release to soil</li> <li>Migration to groundwater</li> </ul> | Soil Groundwater | <ul> <li>Ingestion</li> <li>Dermal Exposure</li> <li>Ingestion</li> <li>Dermal Exposure</li> </ul> |   |
| Releases of Tetrachloroethene<br>(PCE) migrating from the Troy<br>Laundry Site | Vinyl Chloride (VC) Adsorbed onto soil Dissolved in water                                   | Adsorbed onto soil   Surface Water     Surface Water     ContainExtering     Other (list)     Adsorbed onto soil     Surface Water     ContainExtering     Other (list)     Other (list) |   |                  | <ul> <li>Inhalation</li> <li>Ingestion</li> <li>Dermal Contact</li> <li>Ingestion</li> </ul>       |   |
|  | Non-aqueous phase   | Sediment  | Uptake by plant or animal Other (list) Release to surface water Resuspension or erosion Uptake by plant or animal Other (list)  | Indoor Air       | Dermal Contact Inhalation  |   |
| ES:<br>s = below ground surface  |   |   |   |                  | PREPARI<br>BY<br>REPOR<br>LOCATIO<br>PREPARI<br>FOR<br>DATE<br>10/18/202                           | T       REVISED REMEDIAL INVESTIGATION REPORT         DN       1120 JOHN STREET<br>SEATTLE, WASHINGTON         ED       ONNI JOHN STREET (LAND) LLC         DRAWN BY       REVIEWED BY         PROJECT NUMBER |

Attachment A Boring Logs and As-Built Well Diagrams

| P   | ) E N<br>P A                    | VIR<br>RTN  | O N M E N T A L<br>E R S I N C  |  |          |  | Во  | ring: M                         | IW-1                       |                   |
|---|---------------------------------|---|---|--|----------|--|---|---------------------------------|----------------------------|-------------------|
| Clier<br>Site<br>City<br>Date<br>Log  | nt: Or<br>Addr<br>& Sta<br>of D | ni Gro<br>e <b>ss:</b> 1<br>n <b>te:</b> Se<br>rilling<br>y: M. 1 | oup<br>120 John Street<br>eattle WA<br><i>:</i> September 5, 2012<br>Busby, L.H.G.  | Contractor: Cascade Drilling<br>Equipment: CME-75 HSA<br>Borehole Diameter: 8"<br>Sampler Specs: 2.5"<br>Hammer Size: 140lbs<br>Elevation (ft amsl): Unknown ATD |          |  | Casing Material: Sch 40 PVC<br>Casing Size: 2"<br>Screen Interval: 12-27'<br>Screen Size (in.): 0.010"<br>Screen Type: Sch 40 PVC machi<br>Filter Pack: #2/12 |                                 |                            |                   |
| Depth (ft)  | Lithology                       | USCS  | Description   | Interval   | Recovery | Blow Counts  | Sample  | PID                             | Well Completion<br>Details | Comments          |
| $\begin{array}{c} 0 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ 15 \\ 16 \\ 17 \\ 18 \\ 20 \\ 21 \\ 22 \\ 24 \\ 26 \\ 27 \\ 28 \\ 20 \\ 11 \\ 12 \\ 21 \\ 21 \\ 21 \\ 21 \\ 21$ |                                 | SP<br>ML<br>ML<br>ML  | Ground Surface         Concrete         Pea Gravel         Brown; moist; loose; mostly coarse sand; no odor         Silt with sand         Brown; moist; very stiff; mostly silt with minor sand         Gravelly Silt with Sand         Brown; moist; very stiff; mostly silt with some gravel and minor sand         Silt         Dark gray; wet; mostly silt with trace sand and trace gravel         Silt         Dark gray; wet; mostly silt with some sand and trace gravel         Silt         Dark gray; mostly silt with some sand and trace gravel         Silt         Dark gray; mostly silt with trace fine sand and trace gravel         End of Boring |  |          | 1<br>2<br>1<br>4<br>12<br>12<br>20<br>50-6<br>12<br>23<br>30<br>50-5<br>50-5 | MW1-10  | 1.8<br>0.8<br>0.7<br>0.8<br>0.4 | #2/12 Silca Sand           | W.L 14.09 bgs ATI |
| 32  |                                 |   | End of Bonnig   |  |          |  |   |                                 |                            |                   |
| Proje   | ect #: (                        | 65602   | .0  | She  | et:      | 1 of 1   |   | Drawn by:                       | KLA Check                  | ed by: EK         |

| ENVIRONMENTAL<br>PARTNERS INC  |  |  | Во                | ring: M  | W-2                        |          |
|--|--|--|-------------------|--|----------------------------|----------|
| <i>Client:</i> Onni Group<br><i>Site Address:</i> 1120 John Street<br><i>City &amp; State:</i> Seattle WA<br><i>Date of Drilling:</i> September 4 & 5, 2012<br><i>Logged by:</i> M. Busby, L.H.G.<br><i>Total Depth (ft):</i> 100.5  | Contractor: Cascade DrillingCasing Material: Sc120 John StreetEquipment: CME-75 HSACasing Size: 2"eattle WABorehole Diameter: 8.25"Screen Interval: 85: September 4 & 5, 2012Sampler Specs: 2.5"Screen Size (in.): 0.Busby, L.H.G.Hammer Size: 140lbsScreen Type: Sch 44 |  |                   | <i>Contractor:</i> Cascade Drilling<br><i>Equipment:</i> CME-75 HSA<br><i>Borehole Diameter:</i> 8.25"<br><i>Sampler Specs:</i> 2.5"<br><i>Hammer Size:</i> 140lbs |                            |          |
| Depth (ft)<br>USCS<br>USCS<br>Descriptio   | u<br>Interval<br>Recovery  | Blow Counts  | Sample            | PID  | Well Completion<br>Details | Comments |
| O       Ground Surface         ML       Silt         Brown; dry; hard mostly s         sand         Silt with Sand         Brown; dry; hard; mostly         Silt         Brown; dry; hard; mostly         Silt         Brown; dry; hard; mostly         Silt         Brown; dry; hard; mostly         Sand         ML         Silt         Brown; dry; hard; mostly         sand and trace gravel         ML         Silt         Brown; dry; hard; mostly         sand and trace gravel         Silt         Brown; dry; hard; mostly         Sand and trace gravel         Silt         Brown; dry; hard; mostly         Sand and trace gravel         Sand and trace gravel | silt with trace  | 12<br>21<br>50-6<br>12<br>18<br>35<br>12<br>18<br>25<br>12<br>18<br>25<br>50-6 | MW2-10<br>MW-2-15 | 25<br>102<br>91<br>3.6   | Bentonite<br>PVC blank     |          |
|  |  | 50-6"  |                   | 1.2  |                            |          |
| <b>Project #:</b> 65602.0  | Sheet  | :1 of 4  |                   | Drawn by:  | ALA Checke                 | d by: EK |

| ENVIRONMENTAL<br>PARTNERS INC  |  | Boring: M                       | W-2   |  |  |
|--|--|---------------------------------|---|--|--|
| Client: Onni Group<br>Site Address: 1120 John Street<br>City & State: Seattle WA<br>Date of Drilling: September 4 & 5, 2012<br>Logged by: M. Busby, L.H.G.<br>Total Depth (ft): 100.5  | Contractor: Cascade<br>Equipment: CME-75<br>Borehole Diameter:<br>Sampler Specs: 2.5"<br>Hammer Size: 140lbs<br>Elevation (ft amsl): U | e Drilling<br>HSA<br>8.25"<br>s | Casing Material: Sch 40 PVC<br>Casing Size: 2"<br>Screen Interval: 85'- 100'<br>Screen Size (in.): 0.010"<br>Screen Type: Sch 40 PVC mach<br>Filter Pack: #2/12 |  |  |
| Depth (ft)<br>USCS Description   | Blow   | ample PID                       | Well Completion<br>Details Comments   |  |  |
| 30   30   35   40   41   45   50     10     11     12     13     14     15     15     15     16     17     18     19     19     10     10     10     11     12     135 | 20<br>50-6"<br>50-6"<br>10<br>17<br>20   | 1.8<br>2.4<br>2.1<br>0.1        | PVC blank   |  |  |
| <b>Project #:</b> 65602.0  | Sheet: 2 of 4  | Drawn by:                       | KLA Checked by: EK  |  |  |

| ENVIRONMENTAL<br>PARTNERS INC   |   | Boring: MW-2                                      |   |
|---|---|---|---|
| Client: Onni Group<br>Site Address: 1120 John Street<br>City & State: Seattle WA<br>Date of Drilling: September 4 & 5, 2012<br>Logged by: M. Busby, L.H.G.  | Contractor: Cascade Dril<br>Equipment: CME-75 HSA<br>Borehole Diameter: 8.25<br>Sampler Specs: 2.5"<br>Hammer Size: 140lbs<br>Elevation (ft amsl): Unkr | ling Casir<br>A Casir<br>"Scree<br>Scree<br>Scree | ng Material: Sch 40 PVC<br>ng Size: 2"<br>en Interval: 85'- 100'<br>en Size (in.): 0.010"<br>en Type: Sch 40 PVC machine<br>r Pack: #2/12 |
| Depth (ft)<br>USCS<br>USCS<br>Description   | Interval<br>Blow Counts<br>Blow Counts  | e PID Well C                                      | Completion<br>Details Comments  |
| -       ML       Silt         Light brown; dry; hard; mostly silt with minor sand         55-         - | 50-6"   | 3.5<br>3.4<br>1.6                                 | PVC blank   |
| 65-65-Cit   | <br>50-5"   | 3.5   | DVG   |
| ML Silt<br>Brown; dry; hard; mostly silt with minor<br>gravel and trace sand  | 50-5"   | 3.3   |   |
|   | 50-5"   | _20   |   |
| <b>Project #:</b> 65602.0   | Sheet: 3 of 4   | Drawn by: KLA                                     | Checked by: EK  |

| P PARTNERS IN C   | B   | oring: MW-2                                 |  |  |  |
|---|---|---|--|--|--|
| Client: Onni Group<br>Site Address: 1120 John Street<br>City & State: Seattle WA<br>Date of Drilling: September 4 & 5, 2012<br>Logged by: M. Busby, L.H.G.<br>Total Depth (ft): 100.5   | Contractor: Cascade Drillin<br>Equipment: CME-75 HSA<br>Borehole Diameter: 8.25"<br>Sampler Specs: 2.5"<br>Hammer Size: 140lbs<br>Elevation (ft amsl): Unknow | g Casil<br>Casil<br>Screa<br>Screa<br>Screa | Casing Material: Sch 40 PVC<br>Casing Size: 2"<br>Screen Interval: 85'- 100'<br>Screen Size (in.): 0.010"<br>Screen Type: Sch 40 PVC machi<br>Filter Pack: #2/12 |  |  |
| Depth (ft)<br>Lithology<br>USCS<br>Descriptiou  | Interval<br>Recovery<br>Blow Counts   | PID Well (                                  | Completion<br>Details  |  |  |
| 80       ML       Gravelly Silt<br>Brown and light gray; dry; mostly silt<br>with minor gravel         80       Silty Sand         85       SM         96       SM         97       SM         98       Silty Sand         90       SM         SILty Sand         Brown; and light gray; moist to wet;<br>mostly fine to medium sand with some<br>silt         90       SM         91       SM         92       SM         93       Silty Gravel with Sand         94       Brown; wet; mostly fine gravel with<br>some silt and minor sand | 50-6"<br>50-6" MW2-85   | 0.6<br>101<br>57<br>31<br>3.5               | W.L 88' bgs ATD  |  |  |
| Project #: 65602.0  | <b>Sheet:</b> 4 of 4  | Drawn by: KLA                               | Checked by: EK   |  |  |

| <b>e</b> pi                  | ) E N<br>P A                     | VIR (<br>RTN        | O N M E N T A L<br>E R S I N C   |                            |  |             | Во     | ring: M\   | N-3                                 |  |
|------------------------------|----------------------------------|---------------------|--|----------------------------|--|-------------|--------|--|-------------------------------------|--|
| Site<br>City<br>Date<br>Logg | Addr<br>& Sta<br>e of D<br>ged b | nte: Se<br>rilling: | 120 John Street<br>attle WA<br>April 29 & 30, 2013<br>Caddey, L.G.   | Equi<br>Bore<br>Sam<br>Ham | <i>Contractor:</i> Cascade Drilling<br><i>Equipment:</i> CME-75 HSA<br><i>Borehole Diameter:</i> 15"(0-30) 8"(30-100)<br><i>Sampler Specs:</i> 2.5"<br><i>Hammer Size:</i> 140lbs<br><i>Elevation (ft amsl):</i> 0 |             |        | Casing Material: Sch 40 PVC<br>Casing Size: 2"<br>Screen Interval: 85'- 100'<br>Screen Size (in.): 0.010"<br>Screen Type: Sch 40 PVC machin<br>Filter Pack: 2/12 |                                     |  |
| Depth (ft)                   | Lithology                        | nscs                | Description  | Interval                   | Z  | Its         | Sample | PID  | Well Completion<br>Details Comments |  |
| 0-                           | xxx                              |                     | Ground Surface   | _                          |  |             |        |  |                                     |  |
| -                            |                                  | SP                  | Concrete<br>Poorly-graded Sand<br>Gray; damp; mostly fine to medium<br>sand; apparent fill material  |                            |  |             |        |  | Concrete<br>Traffic-rated monument  |  |
| 5                            |                                  | SW-<br>SM           | Well-Graded Sand with Silt and<br>Gravel<br>Gray-green; damp; loose; mostly<br>fine to coarse sand with few silt and<br>few gravel<br>Becomes medium dense | Ŀ                          |  | 4<br>4<br>5 |        | 0.1  |                                     |  |
| 10                           |                                  |                     |  |                            |  | 4<br>5<br>6 |        | 0.1  | ary steel casing                    |  |
| -<br>15-                     |                                  | SP-<br>SM           | Poorly-graded Sand with Silt and<br>Gravel<br>Gray; damp; medium dense;mostly<br>fine to medium sand with few silt<br>and few gravel;                      |                            |  |             |        |  | Temporary ste                       |  |
| -                            |                                  |                     | Becomes dense  |                            |  | 50-6"       |        | 0.1  |                                     |  |
| 20-                          |                                  |                     | 6" perched water table   |                            |  | 19<br>_21   |        | 0.4  | Bentonite                           |  |
| -                            |                                  | CL<br>SW-           | Sandy Lean Clay with Gravel<br>Gray; damp; hard; low plasticity; no<br>dilatency; mostly clay with some<br>sand and few gravel                             | )                          |  |             |        |  | PVC blank                           |  |
| 25-                          |                                  | SM                  |  |                            |  |             |        | -  |                                     |  |
| Proje                        | ect #: (                         | 65602.              | 0  | She                        | et:  | 1 of 4      |        | Drawn by: K  | LA Checked by: EC                   |  |

|   | N V I R<br>A R T N   | O N M E N T A L<br>E R S I N C   |          |     |  | Во             | ring: M  | W-3   |             |
|---|--|--|----------|-----|--|----------------|--|---|-------------|
| Site Add<br>City & S<br>Date of<br>Logged | <i>Client:</i> Onni Group<br><i>Site Address:</i> 1120 John Street<br><i>City &amp; State:</i> Seattle WA<br><i>Date of Drilling:</i> April 29 & 30, 2013<br><i>Logged by:</i> E. Caddey, L.G.<br><i>Total Depth (ft):</i> 100 |  |          |     | ent: CN                                | 2.5"<br>140lbs | Casing Size:<br>) Screen Interv<br>Screen Size ( | <b>al:</b> 85'- 100'<br><b>in.):</b> 0.010"<br>Sch 40 PVC machine |             |
| Depth (ft)<br>Litholoav                   |  | Description  | Interval | 2   | nts                                    | Sample         | PID  | Well Completic<br>Details   |             |
|   | SW-<br>SC  | Well-graded Sand with Silt and<br>Gravel<br>Gray-blue; damp; very dense;<br>mostly fine to coarse sand with few<br>silt and few gravel |          |     | 50-6"<br>19<br>50-6"<br>50-5"<br>50-5" |                | 0.0  | PVC blank   |             |
| 50  |  |  |          |     |  |                | _  |   |             |
| Project #                                 | <b>#:</b> 65602.   | .0   | She      | et: | 2 of 4                                 |                | Drawn by: K                                      | CLA Che   | cked by: EC |

|  | ONMENTAL<br>IERSINC   |                           |                           |  | Во  | ring: M\            | N-3   |                     |
|--|---|---------------------------|---------------------------|--|---|---------------------|---|---------------------|
| Client: Onni G<br>Gite Address:<br>City & State: S<br>Date of Drillin<br>Logged by: E. | roup<br>1120 John Street<br>eattle WA<br><b>g:</b> April 29 & 30, 2013<br>Caddey, L.G.  | Equ<br>Bore<br>Sam<br>Ham | ipm<br>eho<br>nple<br>nme | ent: CN<br>le Diam<br>r Specs<br>r Size: | scade Drilling<br>1E-75 HSA<br>1eter: 15"(0-30<br>5: 2.5"<br>140lbs |                     | Casing Material: S<br>Casing Size: 2"<br>Screen Interval: S<br>Screen Size (in.):<br>Screen Type: Sch | 85'- 100'<br>0.010" |
| Total Depth (fi  | ): 100  | Elev                      | atic                      | on (ft an                                | <b>nsl):</b> 0  |                     | Filter Pack: 2/12   |                     |
| Depth (ft)<br>Lithology<br>USCS  | Description   |                           | Recovery                  | Blow Counts                              | Sample  | PID                 | Well Completion<br>Details  | Comments            |
|  | Gray-blue; damp; very dense;<br>mostly fine to coarse sand with few<br>clay and few gravel<br>Well-graded Sand with Silt and<br>Gravel<br>Gray-green; damp; very dense; fin<br>to coarse sand with few silt and fer<br>gravel | v /                       |                           | 25<br>50-5"                              |   | 0.0 0.1 0.1 0.2 0.2 | Bentonite   |                     |
| 75   |   |                           |                           |  |   |                     |   |                     |

| <b>edi</b>                           |  | VIR O<br>R T N                                  | O N M E N T A L<br>E R S I N C  |                            |                          |                   | Во     | ring: MV                             | N-3   |            |          |
|--------------------------------------|--|---|---|----------------------------|--------------------------|-------------------|--------|--------------------------------------|---|------------|----------|
| Client<br>Site A<br>City &<br>Date o | t: Onr<br>Addre<br>& Stat<br>of Dri<br>ed by | ni Gro<br>ss: 1<br>te: Se<br>illing:<br>r: E. C | up<br>120 John Street<br>attle WA<br>April 29 & 30, 2013<br>Caddey, L.G.  | Equi<br>Bore<br>Sam<br>Ham | ipm<br>eho<br>ple<br>ime | ent: CN           | 140lbs | Casing Si<br>Screen Int<br>Screen Si | ze:2"<br><sup>;</sup> erval:<br>ze (in.):<br>pe:Sch |            |          |
|                                      | Lithology                                    | USCS  | Description   | Interval                   | Recovery                 | Blow Counts       | Sample | PID                                  | Well Comp<br>Details                                |            | Comments |
|                                      |  |   | <i>Well-graded Sand with Gravel</i><br>Brown; damp; very dense; fine to<br>coarse sand with few gravel                                  |                            |                          | 25<br>50-6"       |        | 0.1                                  |   |            |          |
| 80<br>-<br>-<br>-<br>-               |  | SW-<br>SM                                       | Well-graded Sand with Silt and<br>gravel<br>Brown-gray; damp; very dense;<br>mostly fine to coarse sand with few<br>silt and few gravel |                            |                          | 50-6"             |        | 0.2                                  |   |            |          |
| 85                                   |  | SW  | Well-graded Sand<br>Brown; damp; very dense; mostly<br>fine to coarse sand with few silt  |                            |                          | 26<br>50-6"       |        | 0.5                                  |   |            |          |
| 90-                                  |  |   |   |                            |                          | 28<br>23<br>50-6" |        | 0.2                                  | 10/20 Silca Sand                                    | een        |          |
| 95                                   |  | SP  | <b>Poorly-graded Sand with Gravel</b><br>Gray-brown; moist to wet; very<br>dense; mostly medium sand with<br>few gravel                 |                            |                          | 20<br>20<br>25    |        | 0.3                                  | 10/20 Silca   | PVC screen |          |
| 100<br>Project                       | + #- 61                                      | 5602  | 0   | Sh                         |                          | 4 of 4            |        | 0.4                                  |   |            | d by: EC |

|   | <b>epi</b>       | E N<br>P A     | VIR<br>RTN        | O N M E N T A L<br>E R S I N C   |  |          |             | Boring | : U-1 |       |                                    |  |  |  |
|---|------------------|----------------|-------------------|--|--|----------|-------------|--------|-------|-------|------------------------------------|--|--|--|
| 0     Ground Surface       2     Concrete       3     Poorly-graded Sand with Gravel       6     Becomes very dense       10     0.2       4     Becomes very dense       10     0.0       10     SM       10     SM       10     SM       11     SM       12     SM       13     Silly Sand with Gravel       14     SM       16     SP       18     SP       29     Poorly-graded Sand with Gravel       10     10       11     SM       12     SM       13     Silly Sand with Gravel       14     SM       16     SP       18     SP       29     SP  | Site A<br>Date o | Addre<br>of Di | ess: 1<br>rilling | 120 John Street, Seattle WA<br>; July 19, 2012   | Drill Method: CME-75 HSA<br>Borehole Size: 10" |          |             |        |       |       |                                    |  |  |  |
| 0       Concrete         2       SP       Poorly-graded Sand with Gravel<br>Brown, damp; mostly medium sand<br>with few gravel       0.2         4       Becomes very dense       0.2         10       20       0.0         10       20       0.0         10       20       0.0         10       20       0.0         10       20       0.0         10       20       0.0         10       20       0.0         10       20       0.0         10       20       0.0         10       20       0.0         11       20       0.0         12       SM       Sility Sand with Gravel<br>Gray; most to wet; very dense;<br>mostly fine to coarse sand with<br>some silt and mice gravel       10         14       5P       Poorly-graded Sand with Gravel<br>Brown; damp; very dense; mostly<br>fine sand with few gravel       36       U-1:15       0.8         18       5P       Poorly-graded Sand with Gravel<br>Brown; damp; very dense; mostly<br>fine sand with few gravel       most       most  | Depth (ft)       | Lithology      | USCS              | Description  | Interval                                       | Recovery | Blow Counts | Sample | PID   | Sheen | Comments                           |  |  |  |
| SP     Poorly-graded Sand with Gravel       Becomes very dense     10       Becomes very dense     10       SM     Silly Sand with Gravel       Gray: most to wet; very dense;     50-6       U-1:10     26       SM     Silly Sand with Gravel       Gray: most to wet; very dense;     50-6       SW-     mostly line to coarse sand with some clay       SG     V-1:10       SG     V-1:15       0.8     So-6       SP     Poorly-graded Sand with Gravel       Becomes server dense; mostly fine to coarse sand with some clay       SC     So-6       SP     Poorly-graded Sand with Gravel       Becomes server dense; mostly fine to coarse sand with some clay       SO-6     U-1:15       SP     Poorly-graded Sand with Gravel       Brown; damp; very dense; mostly fine to coarse sand with some clay       SP     Poorly-graded Sand with Gravel       Brown; damp; very dense; mostly fine to coarse sand with some clay       SP     Poorly-graded Sand with Gravel       Brown; damp; very dense; mostly fine to coarse sand with some clay | 0                | ~~             |                   |  |  |          |             |        |       |       |                                    |  |  |  |
| 6     30     0.0       8     30     0.0       10     5M     Silly Sand with Gravel<br>Gray; moist to wet; very dense;<br>sw-threst to wet; very dense;<br>sw-threst to wet; very dense;<br>some silt and minor gravel     10       12     SW-threst to wet; very dense;<br>some silt and minor gravel     10       14     SC     Well-graded Sand with Clay<br>Gray; dense; dense; mostly<br>fine to coarse sand with some clay     36       16     SP     Poorly-graded Sand with Gravel<br>Brown; damp; very dense; mostly<br>fine sand with few gravel     36  | 2                |                | SP                | <b>Poorly-graded Sand with Gravel</b><br>Brown; damp; mostly medium sand   | -  |          |             |        | 0.2   |       | No petro odor or staining observed |  |  |  |
| 10     SM     Silly Sand with Gravel       12     Gray; moist to wet; very dense;       12     SW-       12     SW-       12     SW-       12     SW-       12     SW-       13     SC       14     SC       16     SP       18     SP       20     Poorly-graded Sand with Gravel       18     SP       20     Poorly-graded Sand with Gravel       18     SP       20     Brown; damp; very dense; mostly fine sand with few gravel   | 4<br>6           |                |                   | Becomes very dense   |  |          | 20          |        | 0.0   |       |                                    |  |  |  |
| 12       SW-<br>mostly fine to coarse sand with<br>some silt and minor gravel         14       Well-graded Sand with Clay<br>Gray; damp; very dense; mostly<br>fine to coarse sand with some clay         14       36<br>50-6       U-1:15       0.8         18       SP       Poorly-graded Sand with Gravel<br>Brown; damp; very dense; mostly<br>fine sand with few gravel       0.8   |                  |                |                   |  |  |          |             | U-1:10 | 26    | no    |                                    |  |  |  |
| 16<br>18<br>SP Poorly-graded Sand with Gravel<br>Brown; damp; very dense; mostly<br>fine sand with few gravel<br>20<br>10<br>50-6<br>0-1:15<br>0.8<br>0.8<br>0-1:15<br>0.8<br>0.8<br>0.8<br>0.8<br>0.8<br>0.8<br>0.8<br>0.8   |                  |                | SW-               | Gray; moist to wet; very dense;<br>mostly fine to coarse sand with<br>some silt and minor gravel<br>Well-graded Sand with Clay<br>Gray; damp; very dense; mostly |  |          |             |        |       |       |                                    |  |  |  |
| SP Poorly-graded Sand with Gravel<br>Brown; damp; very dense; mostly<br>fine sand with few gravel   | 16               |                |                   |  |  |          |             | U-1:15 | 0.8   |       |                                    |  |  |  |
|   |                  |                | SP                | Brown; damp; very dense; mostly  |  |          | 50-6        |        | 0.2   | no    |                                    |  |  |  |
| Project #: 65602.0 Sheet: 1 of 1 Drawn by: KLA Checked by: EK   |                  |                |                   |  |  |          |             |        |       |       |                                    |  |  |  |

| PD ENVIRONMENTAL<br>PARTNERS INC   |          |   |                        | Boring           | : U-2             |       |                                       |  |  |  |  |
|--|----------|---|------------------------|------------------|-------------------|-------|---------------------------------------|--|--|--|--|
| <i>Client:</i> Onni Group<br><i>Site Address:</i> 1120 John Street, Seattle WA<br><i>Date of Drilling:</i> July 19, 2012<br><i>Logged by:</i> E. Caddey, L.G.  | Dr<br>Bo | Drilling Contractor: Cascade Drilling<br>Drill Method: CME-75 HSA<br>Borehole Size: 10"<br>Decommissioning Method: Hydrated bentonite chips |                        |                  |                   |       |                                       |  |  |  |  |
| Depth (ft)<br>Depth (ft)<br>Description  |          | 7   | ıts                    | Sample           | PID               | Sheen | Comments                              |  |  |  |  |
| 0       Ground Surface         2       SP         2       Poorly-graded Sand<br>Brown; damp; mostly medium sand<br>with trace gravel         4       Becomes very dense         6       Becomes very dense         10       SM         10       SM         10       SM         10       SM         10       SM         10       Gray; moist to wet; very dense;<br>mostly fine to coarse sand with<br>some silt and minor gravel         12       SW-         SW-       Gray; damp; very dense; mostly<br>fine to coarse sand with Clay<br>Gray; damp; very dense; mostly<br>fine to coarse sand with minor clay<br>and few gravel         14       Image: Some silt and minor gravel         18       Image: Some silt and minor clay |          |   | 12<br>16<br>16<br>50-6 | U-2:10<br>U-2:15 | 0.2<br>1.6<br>2.3 | no    | No petro odor or<br>staining observed |  |  |  |  |
| 20   |          |   | 70-6                   |                  | 2.1               | no    |                                       |  |  |  |  |
| Project #: 65602.0   | Shee     | et: 1   | of 1                   | Drawn            | by: KLA           | CI    | hecked by: EK                         |  |  |  |  |

| PARTN                           | O N M E N T A L<br>E R S I N C   |   |          |             | Boring             | : U-6      |       |                                    |  |  |  |  |
|---------------------------------|--|---|----------|-------------|--------------------|------------|-------|------------------------------------|--|--|--|--|
| Date of Drilling                | 120 John Street, Seattle WA<br>: July 26, 2012   | Drilling Contractor: Cascade Drilling<br>Drill Method: Limited access HSA<br>Borehole Size: 8.25"<br>Decommissioning Method: Hydrated bentonite chips |          |             |                    |            |       |                                    |  |  |  |  |
| Logged by: E. (                 | Jaddey, L.G.   |   | com      |             | ioning wethoa: Hyd | arated ben |       | 55                                 |  |  |  |  |
| Depth (ft)<br>Lithology<br>USCS | Description  | Interval  | Recovery | Blow Counts | Sample             | PID        | Sheen | Comments                           |  |  |  |  |
| 0                               | Ground Surface   |   |          |             |                    |            |       |                                    |  |  |  |  |
| 2SP                             | Concrete<br>Poorly-graded Sand with Gravel<br>Brown; damp; mostly medium sand<br>with few gravel   |   |          |             |                    |            |       | No petro odor or staining observed |  |  |  |  |
| 6                               | Becomes very dense   |   |          | 25<br>50-6  |                    | 0.0        |       |                                    |  |  |  |  |
| 8                               |  |   |          | 25<br>50-6  | U-6:10             | 0.2        | no    |                                    |  |  |  |  |
| 12-                             | 8" of perched water  |   |          |             | U-6:6W             |            |       |                                    |  |  |  |  |
| 16                              | Well-graded Sand with Clay<br>Gray; damp; very dense; mostly<br>fine to coarse sand with some clay |   |          | 50-6        | U-6:15             | 0.3        |       |                                    |  |  |  |  |
| 20                              |  |   |          | 50-6        | U-6:20             | 0.0        | no    |                                    |  |  |  |  |
| <b>Project #:</b> 65602         | .0   | Sheet   | t: 1 c   | of 1        | Drawn              | by: KLA    | Ch    | necked by: EK                      |  |  |  |  |

| P                     | P A                        | VIR<br>RTN                                  | O N M E N T A L<br>E R S I N C  | Boring: U-7   |          |                |        |         |       |                                       |  |  |  |  |
|-----------------------|----------------------------|---|---|---|----------|----------------|--------|---------|-------|---------------------------------------|--|--|--|--|
| Cliei<br>Site<br>Date | nt: On<br>Addro<br>e of Di | ni Gro<br>e <b>ss:</b> 1<br>r <i>illing</i> |   | Drilling Contractor: Cascade Drilling<br>Drill Method: Limited access HSA<br>Borehole Size: 8.25"<br>Decommissioning Method: Hydrated bentonite chips |          |                |        |         |       |                                       |  |  |  |  |
| Depth (ft)            | Lithology                  | USCS  | Description   |   | Recovery | Blow Counts    | Sample | PID     | Sheen | Comments                              |  |  |  |  |
| 0-                    | _                          | _   | Ground Surface  |   |          |                |        |         |       |                                       |  |  |  |  |
| 2468_                 |                            | SP  | Concrete<br>Poorly-graded Sand with Gravel<br>Brown; damp; mostly medium sand<br>with few gravel          |   |          | 15<br>15<br>24 |        | 0.0     |       | No petro odor or<br>staining observed |  |  |  |  |
| 0                     |                            |   |   |   |          | 44<br>50-6     | U-7:10 | 0.0     | no    |                                       |  |  |  |  |
| 4                     |                            | SW-<br>SC                                   | <i>Well-graded Sand with Clay</i><br>Gray; damp; very dense; mostly<br>fine to coarse sand with some clay |   |          | 50-6           | U-7:15 | 0.0     |       |                                       |  |  |  |  |
| 20                    |                            |   |   |   |          | 50-6           | U-7:20 | 0.0     | no    |                                       |  |  |  |  |
| Proie                 | ect #: 6                   | 5602  | 0   | Shee  | et: 1    | of 1           | Drawn  | by: KLA | Cł    | necked by: EK                         |  |  |  |  |

| <b>M</b>                      | E N V<br>P A R          | IR<br>TN                              | O N M E N T A L<br>E R S I N C   |           |               |                   | Boring   | : U-8         |             |                                       |
|-------------------------------|-------------------------|---------------------------------------|--|-----------|---------------|-------------------|--|---------------|-------------|---------------------------------------|
| Client:<br>Site Ac<br>Date of | Onni<br>ddres<br>f Dril | i Gro<br><b>ss:</b> 1<br><i>ling:</i> | up<br>120 John Street<br>: July 26, 2012   | Dr.<br>Bo | ill N<br>oreł | Method<br>hole Si | <i>tractor:</i> Cascade D<br>/: Limited Access HS<br>ze: 8.25" | rilling<br>SA | tonito shi  |                                       |
| Logged                        | a by:                   | 'E. C                                 | Caddey, L.G.   |           | col           |                   | ioning Method: Hyd   | drated ben    | tonite chip | DS                                    |
| Depth (ft)                    | Litnology               | USCS                                  | Description  | Interval  | Recovery      | Blow Counts       | Sample   | PID           | Sheen       | Comments                              |
| 0-                            | ~                       |                                       | Ground Surface   |           |               |                   |  |               |             |                                       |
| 2<br>2<br>4<br>6              |                         | SP                                    | Concrete<br>Poorly-graded Sand with Gravel<br>Brown; damp; mostly medium sand<br>with few gravel                             |           |               | 50-6              |  | 0.0           |             | No petro odor or<br>staining observed |
| 10                            |                         |                                       |  |           |               | 9<br>25<br>50-6   | U-8:10   | 0.0           |             |                                       |
| 14                            | 111                     | \$W-<br>SC                            | <b>Well-graded Sand with Clay</b><br>Gray; damp; very dense; mostly<br>fine to coarse sand with minor clay<br>and few gravel |           |               | 50-6              | U-8:15<br>U-8:20   | 0.6           |             |                                       |
|                               |                         |                                       |  |           |               |                   |  |               |             |                                       |
| Project                       | <b>#:</b> 65            | 602.                                  | 0 5  | Shee      | et: 1         | of 1              | Drawn  | by: KLA       | Ch          | necked by: EK                         |

| P                     | ) E N<br>P A               | VIR<br>RTN                                  | O N M E N T A L<br>E R S I N C  |   |          |             | Boring: | : U-9   |       |                                      |  |  |  |  |
|-----------------------|----------------------------|---|---|---|----------|-------------|---------|---------|-------|--------------------------------------|--|--|--|--|
| Cliei<br>Site<br>Date | nt: On<br>Addro<br>e of Di | ni Gro<br>e <b>ss:</b> 1<br>r <i>illing</i> |   | Drilling Contractor: Cascade Drilling<br>Drill Method: CME-75 HSA<br>Borehole Size: 8.25"<br>Decommissioning Method: Hydrated bentonite chips |          |             |         |         |       |                                      |  |  |  |  |
| Depth (ft)            | Lithology                  | USCS  | Description   | Interval  | Hecovery | Blow Counts | Sample  | PID     | Sheen | Comments                             |  |  |  |  |
| 0-                    | ××××                       |   | Ground Surface  |   |          |             |         |         |       |                                      |  |  |  |  |
| 2                     |                            | SP  | Concrete<br>Poorly-graded Sand with Gravel<br>Brown; damp; mostly medium sand<br>with few gravel          |   |          |             |         |         |       | No petro odor or<br>staining observe |  |  |  |  |
| 6<br>8                |                            |   |   |   | 50       | 25<br>0-6   |         | 0.1     |       |                                      |  |  |  |  |
| 2                     |                            |   |   |   |          | 17<br>0-6   |         | 0.0     |       |                                      |  |  |  |  |
| 4<br>6<br>8<br>8      |                            | SW-<br>SC                                   | <i>Well-graded Sand with Clay</i><br>Gray; damp; very dense; mostly<br>fine to coarse sand with some clay |   |          | 0-6         |         | 0.1     |       |                                      |  |  |  |  |
|                       | 11118                      |   |   |   |          |             |         | 0.2     |       |                                      |  |  |  |  |
|                       |                            | 5602.                                       | 0   | Sheet   |          |             | Drown   | by: KLA |       | necked by: EK                        |  |  |  |  |

| C II         | ΡΑ               | VIRONMENTAL<br>RTNERS INC  |                          | BORING       | ID: A-4        |                                   |                           |  |  |  |  |  |
|--------------|------------------|--|--------------------------|--------------|----------------|-----------------------------------|---------------------------|--|--|--|--|--|
| SITE A       | DDRESS           |  |                          | CLIENT:      |                |                                   |                           |  |  |  |  |  |
| 1120         | John S           | t, Seattle, Wa   |                          | Onni Group   |                |                                   |                           |  |  |  |  |  |
|              |                  | IRACTOR:   |                          | PROJECT #:   |                |                                   |                           |  |  |  |  |  |
|              |                  | lling, LP  |                          | 65602        |                |                                   |                           |  |  |  |  |  |
|              | NG EQUI          |  |                          | DATE:        |                |                                   |                           |  |  |  |  |  |
|              |                  | ed Rig - CME - 75  |                          | 4/30/2018    |                |                                   |                           |  |  |  |  |  |
|              |                  |  |                          | GROUND SUF   | RFACE ELEV. FI | FAMSL:                            | DECOMMISSIONING MATERIAL: |  |  |  |  |  |
|              | w-Stem<br>ED BY: | Auger  |                          | TOTAL DEPTH  | 1.             | Hydrated Bentonite BOREHOLE SIZE: |                           |  |  |  |  |  |
|              | Fadder           | 1  |                          | 25' bgs      | 1.             |                                   | 8-Inch                    |  |  |  |  |  |
|              | 1 44401          |  | s S                      |              |                | Ê                                 |                           |  |  |  |  |  |
| Depth (feet) | NSCS             | Description<br>USCS name; Color; Moisture; Density;<br>Plasticity; Dilatency; EPI description; Other     | Interval &<br>% Recovery | Blows per 6" | Sample         | PID (ppm)                         | Comments                  |  |  |  |  |  |
| 0            |                  | Concrete Surface   |                          |              |                |                                   |                           |  |  |  |  |  |
| _            |                  |  |                          |              |                |                                   |                           |  |  |  |  |  |
| 5 -          |                  | SILT; gray; damp; silt; no odor  | 100                      | 5-6-11       | A-4:5          | 0                                 |                           |  |  |  |  |  |
| -            |                  |  |                          |              |                |                                   |                           |  |  |  |  |  |
|              |                  |  |                          |              |                |                                   |                           |  |  |  |  |  |
| 10 -         | ML               |  | 100                      | 6-6-07       | A-4:10         | 0                                 |                           |  |  |  |  |  |
| _            |                  |  |                          |              |                |                                   |                           |  |  |  |  |  |
| 15 -         |                  | SILT; gray; damp; high plasticity; mostly silt<br>with few fine sand and trace fine gravel; no<br>odor   | 100                      | 15-18-21     | A-4:15         | 0                                 |                           |  |  |  |  |  |
| -            | ML               |  |                          |              |                |                                   |                           |  |  |  |  |  |
| 20 -         | ML               | SANDY SILT; brown; damp; high plasticity;<br>mostly silt with minor fine sand and few gravel;<br>no odor | 66                       | 37-50/6"     | A-4:20         | 0                                 |                           |  |  |  |  |  |
| -            | SP               | POORLY-GRADED SAND; dry; fine sand; no<br>odor   | _                        |              |                |                                   |                           |  |  |  |  |  |
| 05           |                  |  |                          |              | 4.4.05         |                                   |                           |  |  |  |  |  |
| 25 -         |                  | End of Borehole  | 100                      | 23-26-31     | A-4:25         | 0                                 |                           |  |  |  |  |  |
| _            |                  |  |                          |              |                |                                   |                           |  |  |  |  |  |
| 30           | TES:             |  |                          |              |                |                                   |                           |  |  |  |  |  |

| ed)                      | E N V<br>P A R               | 'IRONMENTAL<br>TNERSINC   |                          | BORING                | ID: A-5/C-2    | 0         |                           |
|--------------------------|------------------------------|---|--------------------------|-----------------------|----------------|-----------|---------------------------|
| SITE ADD                 |                              |   |                          | CLIENT:               |                |           |                           |
|                          |                              | Seattle, Wa   |                          | Onni Grou             | р              |           |                           |
|                          |                              | RACTOR:   |                          | PROJECT #:            | •              |           |                           |
| Cascade                  | e Drilli                     | ing, LP   |                          | 65602                 |                |           |                           |
| DRILLING                 | EQUIP                        | MENT:   |                          | DATE:                 |                |           |                           |
| Fruck M                  | lounte                       | ed Rig - CME - 75   |                          | 5/1/2018              |                |           |                           |
| DRILLING                 | 6 METHO                      | CD:   |                          | GROUND SU             | RFACE ELEV. FT | AMSL:     | DECOMMISSIONING MATERIAL: |
| -wolloh                  |                              | Auger   |                          |                       |                |           | Hydrated Bentonite        |
| .OGGED<br><b>C. McFa</b> |                              |   |                          | TOTAL DEPT<br>25' bgs | Ή:             |           | BOREHOLE SIZE:<br>8-Inch  |
|                          | auuen                        |   | <u> </u>                 | 23 593                |                | <u> </u>  |                           |
| Depth (feet)             | USCS                         |   | Interval &<br>% Recovery | Blows per 6"          | Sample         | PID (ppm) | Comments                  |
| 0                        |                              | Gravel Surface  |                          |                       |                |           |                           |
|                          | • 0 • •<br>0 • 0<br>• 0 • 0  | WELL-GRADED GRAVEL WITH SAND; gray;<br>very moist; mostly fine-coarse gravel with some<br>fine-coarse sand; no odor | 5                        | 7-11-14               | A-5/C-20:5     | 0         |                           |
|                          | GW • 0<br>• 0 • 0<br>• 0 • 0 | No recovery; concrete rubble  |                          |                       |                |           |                           |
| 15 -                     | ML                           | GRAVELLY SILT; gray; damp; mostly silt with minor gravel and trace coarse sand; no odor                             | 100                      | 24-50/6"              | A-5/C-20:15    | 0         |                           |
| 20 -                     | SP                           | POORLY-GRADED SAND; brown; damp;<br>mostly fine sand with few silt; no odor   | 33                       | 50/6"                 | A-5/C-20:20    | 0         |                           |
| 25 -                     |                              | End of Borehole   | 33                       | 50/6"                 | A-5/C-20:25    | 0         |                           |
| 30<br>NOTE               | S:                           |   |                          |                       |                |           |                           |

|                         | IVIRONMENTAL<br>RTNERS INC   |                          | BORING       | ID: A-6        |                          |                          |  |  |  |  |  |
|-------------------------|--|--------------------------|--------------|----------------|--------------------------|--------------------------|--|--|--|--|--|
| SITE ADDRES             | SS   |                          | CLIENT:      |                |                          |                          |  |  |  |  |  |
| 1120 John               | St, Seattle, Wa  |                          | Onni Group   | ט              |                          |                          |  |  |  |  |  |
| ORILLING CO             | NTRACTOR:  |                          | PROJECT #:   |                |                          |                          |  |  |  |  |  |
| Cascade D               |  |                          | 65602        |                |                          |                          |  |  |  |  |  |
| DRILLING EQ             |  |                          | DATE:        |                |                          |                          |  |  |  |  |  |
|                         | nted Rig - CME - 75  |                          | 5/1/2018     |                |                          |                          |  |  |  |  |  |
| ORILLING ME             |  |                          | GROUND SUF   | RFACE ELEV. FI | AMSL:                    | DECOMMISSIONING MATERIAL |  |  |  |  |  |
| Hollow-Ste              | m Auger  |                          |              | 1.             |                          | Hydrated Bentonite       |  |  |  |  |  |
| LOGGED BY:<br>C. McFadd | en   |                          | TOTAL DEPTH  | 1:             | BOREHOLE SIZE:<br>8-Inch |                          |  |  |  |  |  |
|                         |  |                          |              |                |                          |                          |  |  |  |  |  |
| Depth (feet)            | Description<br>USCS name; Color; Moisture; Density;<br>Plasticity; Dilatency; EPI description; Other | Interval &<br>% Recovery | Blows per 6" | Sample         | PID (ppm)                | Comments                 |  |  |  |  |  |
| 0                       | Gravel Surface<br>Concrete   |                          |              |                |                          |                          |  |  |  |  |  |
| 5 -                     | GRAVELLY SILT; gray; wet; mostly silt with some fine sand and minor gravel; no odor                  | 100                      | 7-6-09       | A-6:5          | 0                        |                          |  |  |  |  |  |
| -  ML                   |  |                          |              |                |                          |                          |  |  |  |  |  |
| 10 - ML                 | SANDY SILT; gray; damp; mostly silt with some fine sand and trace gravel; no odor                    | 100                      | 11-16-17     | A-6:10         | 0                        |                          |  |  |  |  |  |
| 15 -                    | SILT; gray; damp; silt with few sand; no odor  | 100                      | 12-15-19     | A-6:15         | 0                        |                          |  |  |  |  |  |
| 20 - ML                 | GRAVELLY SILT; gray damp; mostly silt with minor gravel and minor sand; no odor                      | 100                      | 37-50/6"     | A-6:20         | 0                        |                          |  |  |  |  |  |
|                         | POORLY-GRADED SAND WITH GRAVEL;<br>brown; dry; mostly fine-medium sand with                          | _                        |              |                |                          |                          |  |  |  |  |  |

| ep           | P A R                      | IRONMENTAL<br>TNERSINC  |                          | BORING       | ID: A-7        |           |                          |  |  |  |
|--------------|----------------------------|---|--------------------------|--------------|----------------|-----------|--------------------------|--|--|--|
| SITE A       | DDRESS                     |   |                          | CLIENT:      |                |           |                          |  |  |  |
| 1120         | John St,                   | Seattle, Wa   |                          | Onni Group   |                |           |                          |  |  |  |
|              |                            |   |                          | PROJECT #:   |                |           |                          |  |  |  |
|              | ade Drill                  |   |                          | 65602        |                |           |                          |  |  |  |
|              | ING EQUIP                  |   |                          |              |                |           |                          |  |  |  |
|              |                            | ed Rig - CME - 75   |                          | 5/19/2018    |                |           |                          |  |  |  |
|              |                            |   |                          | GROUND SUF   | RFACE ELEV. FT | FAMSL:    | DECOMMISSIONING MATERIAL |  |  |  |
|              | w-Stem                     | Auger   |                          | TOTAL DEPTH  | 1.             |           | Hydrated Bentonite       |  |  |  |
|              | ED BY:<br><b>nsperge</b> i | ·PG   |                          | 35' bgs      | 1.             |           | BOREHOLE SIZE:<br>8-Inch |  |  |  |
|              |                            |   | %<br>Z                   |              |                | Ê         |                          |  |  |  |
| Depth (feet) | nscs                       | Description<br>USCS name; Color; Moisture; Density;<br>Plasticity; Dilatency; EPI description; Other                                | Interval &<br>% Recovery | Blows per 6" | Sample         | PID (ppm) | Comments                 |  |  |  |
| 0            |                            | Concrete Surface  |                          |              |                |           |                          |  |  |  |
| -            |                            |   |                          |              |                |           |                          |  |  |  |
| 5 -          | SP                         | POORLY-GRADED SAND; light olive brown;<br>damp; very dense; mostly fine sand with trace<br>silt and trace gravel                    | 50                       | 8-15-50      | A-7:5          | 2.2       |                          |  |  |  |
| 10 -         |                            | Color change to olive gray  | 100                      | 6-12-16      | A-7:10         | 2.7       |                          |  |  |  |
| -            | SP                         |   |                          |              |                |           |                          |  |  |  |
| 15 -         |                            | SILTY SAND; light olive brown; moist; medium dense; mostly fine sand with minor silt and few medium gravel                          | 100                      | 8-12-17      | A-7:15         | 1.6       |                          |  |  |  |
| 20 -         | SM                         |   | 100                      | 12-21-27     | A-7:20         | 1         |                          |  |  |  |
| 25 -         |                            | Color change to reddish gray; moist; dense  | 50                       | 9-14-18      | A-7:25         | 2.3       |                          |  |  |  |
| -<br>30 -    | SM                         | Large cobble, no recovery   | 0                        | 50/6"        |                |           |                          |  |  |  |
| -            | SM                         |   |                          | 30/0         |                |           |                          |  |  |  |
| 35 -         | SP                         | POORLY-GRADED SAND; reddish gray;<br>damp; very dense; mostly fine sand with trace<br>silt and trace fine gravel<br>End of Borehole | 100                      | 14-36-32     | A-7:35         | 2.9       |                          |  |  |  |
|              |                            |   |                          |              |                |           |                          |  |  |  |

|              | PAR                | IRONMENTAL<br>TNERSINC  | BORING ID: A-8           |              |               |           |  |  |  |  |
|--------------|--------------------|---|--------------------------|--------------|---------------|-----------|--|--|--|--|
| SITE A       | DDRESS             |   |                          | CLIENT:      |               |           |  |  |  |  |
| 1120         | John St            | , Seattle, Wa   |                          | Onni Group   |               |           |  |  |  |  |
| DRILL        | ING CONT           | RACTOR:   |                          | PROJECT #:   |               |           |  |  |  |  |
|              | ade Drill          |   |                          | 65602        |               |           |  |  |  |  |
|              | ING EQUIF          |   |                          | DATE:        |               |           |  |  |  |  |
|              |                    | ed Rig - CME - 75   |                          | 5/19/2018    |               |           |  |  |  |  |
|              | ING METH           |   |                          | GROUND SUR   | FACE ELEV. F1 | AWSL:     | DECOMMISSIONING MATERIAL<br>Hydrated Bentonite |  |  |  |
|              | ED BY:             | Auger   |                          | TOTAL DEPTH  | ł:            |           | BOREHOLE SIZE:                                 |  |  |  |
| N. Hi        | nsperge            | r PG  |                          | 35' bgs      |               | 8-Inch    |  |  |  |  |
| Depth (feet) | nscs               | <b>Description</b><br>USCS name; Color; Moisture; Density;<br>Plasticity; Dilatency; EPI description; Other         | Interval &<br>% Recovery | Blows per 6" | Sample        | PID (ppm) | Comments                                       |  |  |  |
| 0            |                    | Concrete Surface  |                          |              |               |           |  |  |  |  |
| 5 -          |                    | POORLY-GRADED SAND; light olive brown;  |                          |              | A-8:5         | 2         |  |  |  |  |
| -            | SP                 | damp; medium dense; mostly fine sand with few silt  | 100                      | 3-5-07       |               |           |  |  |  |  |
| 10 -         | SM                 | SILTY SAND; grayish brown; damp; medium dense; mostly fine sand with minor silt                                     | 100                      | 6-5-11       | A-8:10        | 4.1       |  |  |  |  |
| 15 -         | GM                 | Increased moisture to moist   | 100                      | 9-11-17      | A-8:15        | 2.2       |  |  |  |  |
| 20 -         | SM                 | POORLY-GRADED SAND; reddish gray;<br>moist; very dense; mostly fine sand with trace<br>silt and trace medium gravel | 100                      | 20-21-23     | A-8:20        | 4.4       |  |  |  |  |
| 25 -         |                    | SILT; reddish gray; damp; medium dense; low plasticity; mostly silt with trace fine gravel                          | 100                      | 8-10-11      | A-8:25        | 3.4       |  |  |  |  |
| - 30         | - <b>ML</b>        | Very dense  | 33                       | 50/6"        | A-8:30        | 3.8       |  |  |  |  |
| -<br>35 -    | •    <b>ML</b><br> | End of Borehole   | 100                      | 50/6"        | A-8:35        | 3.3       |  |  |  |  |

| P            |            | IRONMENTAL<br>TNERSINC  |                          | BORING       | ID: C-16       |           |                           |  |  |  |
|--------------|------------|---|--------------------------|--------------|----------------|-----------|---------------------------|--|--|--|
| SITE A       | DDRESS     |   |                          | CLIENT:      |                |           |                           |  |  |  |
| 1120         | John St    | , Seattle, Wa   |                          | Onni Grou    | р              |           |                           |  |  |  |
|              | ING CONT   |   |                          | PROJECT #:   | -              |           |                           |  |  |  |
| Casc         | ade Drill  | ling, LP  |                          | 65602        |                |           |                           |  |  |  |
| DRILL        | ING EQUIF  | PMENT:  |                          | DATE:        |                |           |                           |  |  |  |
| Truc         | k Mount    | ed Rig - CME - 75   |                          | 4/30/2018    |                |           |                           |  |  |  |
| DRILL        | ING METH   | OD:   |                          | GROUND SUI   | RFACE ELEV. FT | AMSL:     | DECOMMISSIONING MATERIAL: |  |  |  |
|              | w-Stem     | Auger   |                          |              |                |           | Hydrated Bentonite        |  |  |  |
|              | ED BY:     |   |                          | TOTAL DEPT   | H:             |           | BOREHOLE SIZE:            |  |  |  |
|              | cFadden    |   | >                        | 10' bgs      |                |           | 8-Inch                    |  |  |  |
| Depth (feet) | nscs       | <b>Description</b><br>USCS name; Color; Moisture; Density;<br>Plasticity; Dilatency; EPI description; Other | Interval &<br>% Recovery | Blows per 6" | Sample         | PID (ppm) | Comments                  |  |  |  |
| 0            |            | Concrete Surface  |                          |              |                |           |                           |  |  |  |
| 5 -          |            | SILTY SAND; brown; moist; mostly fine sand<br>with minor silt and trace gravel; no odor                     | 1<br>100                 | 2-6-10       | C-16:5         | 0         |                           |  |  |  |
| 10 -         | - SM<br>ML | SANDY SILT; bluish gray; damp; high<br>plasticity; mostly silt with minor fine sand; no<br>odor             | 0 100                    | 13-16-21     | C-16:10        | 0         |                           |  |  |  |
| <u>15</u>    | TES:       | End of Borehole   |                          |              |                |           |                           |  |  |  |

| epi          |           | IRONMENTAL<br>TNERSINC  |                          | BORING       | ID: C-17          |           |                          |  |  |
|--------------|-----------|---|--------------------------|--------------|-------------------|-----------|--------------------------|--|--|
| SITE A       | DDRESS    |   |                          | CLIENT:      |                   |           |                          |  |  |
|              |           | , Seattle, Wa   |                          | Onni Group   |                   |           |                          |  |  |
|              | ING CONT  |   |                          | PROJECT #:   |                   |           |                          |  |  |
| Casc         | ade Dril  | ling, LP  |                          | 65602        |                   |           |                          |  |  |
| DRILL        | ING EQUIF | PMENT:  |                          | DATE:        |                   |           |                          |  |  |
| [ruc         | k Mount   | ed Rig - CME - 75   |                          | 5/1/2018     |                   |           |                          |  |  |
| DRILL        | ING METH  | OD:   |                          | GROUND SUF   | RFACE ELEV. F1    | AMSL:     | DECOMMISSIONING MATERIAL |  |  |
|              | w-Stem    | Auger   |                          |              |                   |           | Hydrated Bentonite       |  |  |
|              | ED BY:    |   |                          |              | H:                |           | BOREHOLE SIZE:<br>8-Inch |  |  |
|              | cFadden   |   | ح [                      | 10' bgs      |                   | -         | 0-111C11                 |  |  |
| Depth (feet) | nscs      | <b>Description</b><br>USCS name; Color; Moisture; Density;<br>Plasticity; Dilatency; EPI description; Other               | Interval &<br>% Recovery | Blows per 6" | Sample            | PID (ppm) | Comments                 |  |  |
| 0            |           | Gravel Surface  |                          |              |                   |           |                          |  |  |
| 5 -          | GW-GM     | WELL-GRADED GRAVEL WITH SILT AND<br>SAND; gray; wet; mostly fine-coarse gravel<br>with minor silt and minor sand; no odor | 66                       | 50/6"        | C-17:5<br>C-17:10 | 0         |                          |  |  |
| -            | _         |   | 66                       | 100/6"       |                   |           |                          |  |  |
| 15           |           |   | 1                        |              |                   | 1         |                          |  |  |

|                                  | VIRONMENTAL<br>RTNERS INC  |                          | BORING       | ID: C-18       |           |                          |  |  |  |
|----------------------------------|--|--------------------------|--------------|----------------|-----------|--------------------------|--|--|--|
| SITE ADDRESS                     |  |                          | CLIENT:      |                |           |                          |  |  |  |
|                                  | , Seattle, Wa  |                          | Onni Group   |                |           |                          |  |  |  |
| DRILLING CONT                    |  |                          | PROJECT #:   |                |           |                          |  |  |  |
| Cascade Dril                     | ling, LP   |                          | 65602        |                |           |                          |  |  |  |
| DRILLING EQUIF                   |  |                          | DATE:        |                |           |                          |  |  |  |
|                                  | ed Rig - CME - 75  |                          | 4/30/2018    |                |           | 1                        |  |  |  |
| DRILLING METH                    |  |                          | GROUND SU    | RFACE ELEV. FT | AMSL:     | DECOMMISSIONING MATERIAL |  |  |  |
| Hollow-Stem                      | Auger  |                          |              |                |           | Hydrated Bentonite       |  |  |  |
| LOGGED BY:<br><b>C. McFadden</b> |  |                          | TOTAL DEPT   | H:             |           | BOREHOLE SIZE:<br>8-Inch |  |  |  |
|                                  |  | <u>&gt;</u>              |              |                |           |                          |  |  |  |
| Depth (feet)                     | Description<br>USCS name; Color; Moisture; Density;<br>Plasticity; Dilatency; EPI description; Other | Interval &<br>% Recovery | Blows per 6" | Sample         | PID (ppm) | Comments                 |  |  |  |
| 0                                | Gravel + Concrete  |                          |              |                |           |                          |  |  |  |
| 5 -<br>                          | WELL-GRADED SAND WITH GRAVEL; gray<br>wet; mostly fine-coarse sand with some grave<br>no odor        | ;<br>sl;<br>100          | 21-20-40     | C-18:8         | 0         |                          |  |  |  |
| 10 -                             | End of Borehole  |                          |              |                |           |                          |  |  |  |
| _                                |  |                          |              |                |           |                          |  |  |  |
|                                  |  |                          |              |                |           |                          |  |  |  |

| epi              |   | IRONMENTAL<br>TNERSINC   |                          | BORING                 | ID: C-19       |           |                          |  |  |  |
|------------------|---|--|--------------------------|------------------------|----------------|-----------|--------------------------|--|--|--|
| SITE A           | DDRESS  |  |                          | CLIENT:                |                |           |                          |  |  |  |
| 120              | John St,  | Seattle, Wa  |                          | Onni Group             |                |           |                          |  |  |  |
| DRILLI           | ING CONTI   | RACTOR:  |                          | PROJECT #:             |                |           |                          |  |  |  |
| Casc             | ade Drill   | ing, LP  |                          | 65602                  |                |           |                          |  |  |  |
|                  | ING EQUIP   |  |                          | DATE:                  |                |           |                          |  |  |  |
|                  |   | ed Rig - CME - 75  |                          | 5/1/2018               |                |           | 1                        |  |  |  |
|                  | ING METH  |  |                          | GROUND SUF             | RFACE ELEV. F1 | FAMSL:    | DECOMMISSIONING MATERIAL |  |  |  |
|                  | w-Stem  | Auger  |                          |                        |                |           | Hydrated Bentonite       |  |  |  |
|                  | ED BY:<br><b>:Fadden</b>                            |  |                          | TOTAL DEPTI<br>25' bgs | H:             |           | BOREHOLE SIZE:<br>8-Inch |  |  |  |
|                  |   |  | _× ≥                     | 23 095                 |                | $\square$ |                          |  |  |  |
| Depth (feet)     | nscs  | Description<br>USCS name; Color; Moisture; Density;<br>Plasticity; Dilatency; EPI description; Other | Interval &<br>% Recovery | Blows per 6"           | Sample         | PID (ppm) | Comments                 |  |  |  |
| 0                |   | Gravel Surface   |                          |                        |                |           |                          |  |  |  |
| 5 -<br>-<br>10 - | GP  | Gravel; wet; limited recovery  | 1                        | 2-3-06                 | C-19:5         | 0         |                          |  |  |  |
| -<br>15 -        | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | SILT; bluish gray; damp; high plasticity; silt with trace coarse sand; no odor                       |                          |                        | C-19:15        | 0         |                          |  |  |  |
| 20 -             | ·   | SANDY SILT; gray; damp; mostly silt with minor sand; no odor   | 33                       | 50/6"                  | C-19:20        | 0         |                          |  |  |  |
| 25 -             |   | End of Borehole  | -                        |                        |                |           |                          |  |  |  |

|   | VIR<br>RTN           | O N M E N T A L<br>E R S I N C   |          |                         |  | Во  | ring: N   | IW-1                       |                   |
|---|----------------------|--|----------|-------------------------|--|---|---|----------------------------|-------------------|
| Client: Onni Group<br>Site Address: 1120 John Street<br>City & State: Seattle WA<br>Date of Drilling: September 5, 2012<br>Logged by: M. Busby, L.H.G.  |                      |  |          | pm<br>hol<br>plei<br>me | ent: CN<br>le Diam<br>r Specs<br>r Size:                                     | scade Drilling<br>/E-75 HSA<br>peter: 8"<br>s: 2.5" | Casing Material: Sch 40 PVC<br>Casing Size: 2"<br>Screen Interval: 12-27'<br>Screen Size (in.): 0.010"<br>Screen Type: Sch 40 PVC machine<br>Filter Pack: #2/12 |                            |                   |
| Depth (ft)<br>Lithology   | USCS                 | Description  | Interval | Recovery                | Blow Counts  | Sample  | PID   | Well Completion<br>Details | Comments          |
| 0<br>1<br>2<br>3<br>4<br>4<br>5<br>6<br>7<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>14<br>15<br>16<br>17<br>14<br>16<br>17<br>14<br>16<br>17<br>14<br>16<br>17<br>16<br>17<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10 | SP<br>ML<br>ML<br>ML | Ground Surface         Concrete         Pea Gravel         Brown; moist; loose; mostly coarse sand; no odor         Silt with sand         Brown; moist; very stiff; mostly silt with minor sand         Gravelly Silt with Sand         Brown; moist; very stiff; mostly silt with minor sand         Gravelly Silt with Sand         Brown; moist to wet; hard; mostly silt with some gravel and minor sand         Silt         Dark gray; wet; mostly silt with trace sand and trace gravel         Sandy Silt         Dark gray; wet; mostly silt with some sand and trace gravel         Silt         Dark gray; wet; mostly silt with trace fine sand and trace gravel         Silt         Brown; moist; hard; mostly silt with some sand and trace gravel |          |                         | 1<br>2<br>1<br>4<br>12<br>12<br>20<br>50-6<br>12<br>23<br>30<br>50-5<br>50-5 | MW1-10  | 1.8<br>0.8<br>0.7<br>0.8<br>0.4   | #2/12 Silca Sand           | W.L 14.09 bgs ATI |
| 31-<br>32-  |                      | End of Boring  |          |                         |  |   |   |                            |                   |
| <b>Project #:</b> 6   | 5602                 | .0   | She      | et:                     | 1 of 1   |   | Drawn by:   | I<br>KLA <b>Check</b> a    | ed by: EK         |

| Client: Onni GroupContractor: Cascade DrillingCasing Material: Sch 40 PVCSite Address: 1120 John StreetEquipment: CME-75 HSACasing Size: 2"City & State: Seattle WABorehole Diameter: 8.25"Screen Interval: 85'- 100'Date of Drilling: September 4 & 5, 2012Sampler Specs: 2.5"Screen Size (in.): 0.010"Logged by: M. Busby, L.H.G.Hammer Size: 140lbsScreen Type: Sch 40 PVC materialTotal Depth (ft): 100.5Elevation (ft amsl): Unknown ATDFilter Pack: #2/12Example: Set SectionScreen SizeScreen SizeExample: SectionScreen SizeScreen SizeState: SectionScreen SizeScreen Size <th>PARTNE PARTNE</th> <th>ONMENTAL<br/>ERSINC</th> <th></th> <th></th> <th>Вс</th> <th>oring: M</th> <th><b>W-2</b></th> <th></th> | PARTNE PARTNE  | ONMENTAL<br>ERSINC  |                                   |  | Вс  | oring: M | <b>W-2</b>   |  |
|---|--|---|-----------------------------------|--|---|----------|--|--|
| 0     Ground Surface       Silt     Brown; dry; hard mostly silt with trace sand       5     12       6     12       21     50-6       25       ML       Silt with Sand       Brown; dry; hard; mostly silt with minor sand and trace gravel       10   | Client: Onni Grou<br>Site Address: 11<br>City & State: Sea<br>Date of Drilling:<br>Logged by: M. B | up<br>120 John Street<br>attle WA<br>September 4 & 5, 2012<br>Busby, L.H.G.   | Equipi<br>Boreho<br>Sampl<br>Hamm | ment: CN<br>ole Dian<br>er Spec:<br>er Size: | Iscade Drilling<br>ME-75 HSA<br>I <b>neter:</b> 8.25"<br><b>s:</b> 2.5"<br>140lbs | 9        | Casing Mater<br>Casing Size:<br>Screen Interv<br>Screen Size (<br>Screen Type: | 2"<br><b>ral:</b> 85'- 100'<br>( <b>in.):</b> 0.010"<br>• Sch 40 PVC machine |
| Concrete         ML       Silt         Brown; dry; hard mostly silt with trace         sand         10         ML         Silt with Sand         Brown; dry; hard; mostly silt with minor         10         ML         Silt with Sand         Brown; dry; hard; mostly silt with minor         10         10   | Depth (ft)<br>Lithology<br>USCS  | Description   | Interval                          | Blow Counts                                  | Sample  | PID      | Well Completio<br>Details  | on Comments  |
| ML Silf<br>Brown; dry; hard; mostly silt with trace<br>and and trace gravel<br>15-<br>16-<br>20-<br>20-<br>16-<br>16-<br>16-<br>16-<br>16-<br>16-<br>16-<br>16  | ML<br>ML<br>ML<br>ML<br>ML<br>ML<br>ML<br>ML   | Concrete Silt Brown; dry; hard mostly silt with trace sand Silt with Sand Brown; dry; hard; mostly silt with minor ssand and trace gravel Silt Brown; dry; hard; mostly silt with trace | <br>                              | 21<br>50-6                                   | MW-2-15   | 91       |  |  |
| 25  |  | •   | Shoo                              |  |   |          |  |  |

| Ø                                    | ) E N<br>P A  | VIR<br>RTN | O N M E N T A L<br>E R S I N C   |                           |                                  |   | Во     | ring: M  | <b>W-2</b>  |                     |          |
|--------------------------------------|---|------------|--|---------------------------|----------------------------------|---|--------|--|-------------|---------------------|----------|
| Clien<br>Site<br>City<br>Date<br>Log | <i>Client:</i> Onni Group<br><i>Site Address:</i> 1120 John Street<br><i>City &amp; State:</i> Seattle WA<br><i>Date of Drilling:</i> September 4 & 5, 2012<br><i>Logged by:</i> M. Busby, L.H.G.<br><i>Total Depth (ft):</i> 100.5 |            | Equip<br>Boreh<br>Samp<br>Hamn   | ome<br>nole<br>ler<br>ner | nt: CN<br>Diam<br>Specs<br>Size: | scade Drilling<br>/E-75 HSA<br><b>leter:</b> 8.25"                  |        | Casing Material: Sch 40 PVC<br>Casing Size: 2"<br>Screen Interval: 85'- 100'<br>Screen Size (in.): 0.010"<br>Screen Type: Sch 40 PVC machine<br>Filter Pack: #2/12 |             |                     |          |
| Depth (ft)                           | Lithology   | USCS       | Description  | Interval                  | Recovery                         | Blow Counts   | Sample | PID  |             | ompletion<br>etails | Comments |
|                                      |   | MH         | Elastic Silt<br>Dark brown; dry; hard; medium<br>plasticity; mostly silt with trace sand |                           |                                  | ш<br>50-6"<br>20<br>50-6"<br>10<br>17<br>20<br>50-6"<br>25<br>50-6" |        | 2.4  | PVC blank T | Bentonite           |          |
|                                      |   |            |  |                           |                                  | 50-6"   |        |  |             | 10                  |          |
| Proje                                |   | 65602      | 0  | Snee                      | <i>.</i> :2                      | ? of 4  |        | Drawn by:  | NLA         | Checke              | d by: EK |

| PARTNERS INC  |  | Boring: MW-2  |           |
|---|--|---|-----------|
| Client: Onni Group<br>Site Address: 1120 John Street<br>City & State: Seattle WA<br>Date of Drilling: September 4 & 5, 2012<br>Logged by: M. Busby, L.H.G.  | Contractor: Cascade Dr<br>Equipment: CME-75 HS<br>Borehole Diameter: 8.2<br>Sampler Specs: 2.5"<br>Hammer Size: 140lbs<br>Elevation (ft amsl): Unk | casing Material:       Sch 4         SA       Casing Size: 2"         :5"       Screen Interval: 85'- 11         Screen Size (in.): 0.010       Screen Type: Sch 40 P | 00'<br>)" |
| Depth (ft)<br>USCS<br>USCS<br>Description   | Interval<br>Recovery<br>Blow Counts  | ple PID Well Completion Co  | omments   |
| -       ML       Silt         Light brown; dry; hard; mostly silt with minor sand         55-         - | 50-6"  | 3.5<br>3.4<br>1.6   |           |
| 65 ML Gravelly Silt<br>ML Medium brown; dry; hard; mostly silt<br>with some gravel<br>Silt  | 50-5"  | 3.5   |           |
| 70-<br>-  | 50-5"  | 3.3   |           |
| 75  | 50-5"  | 20  |           |
| Project #: 65602.0  | Sheet: 3 of 4  | Drawn by: KLA Checked by: E   | K         |

| ENVIRONMENTAL<br>PARTNERS INC  | B   | oring: MW-2                                       |   |
|--|---|---|---|
| <i>Client:</i> Onni Group<br><i>Site Address:</i> 1120 John Street<br><i>City &amp; State:</i> Seattle WA<br><i>Date of Drilling:</i> September 4 & 5, 2012  | Contractor: Cascade Drillir<br>Equipment: CME-75 HSA<br>Borehole Diameter: 8.25"<br>Sampler Specs: 2.5"<br>Hammer Size: 140lbs<br>Elevation (ft amsl): Unknow | ng Casing<br>Casing<br>Screen<br>Screen<br>Screen | <i>Material:</i> Sch 40 PVC<br><i>Size:</i> 2"<br><i>Interval:</i> 85'- 100'<br><i>Size (in.):</i> 0.010"<br><i>Type:</i> Sch 40 PVC machine<br><i>ack:</i> #2/12 |
| Depth (ft)<br>Lithology<br>USCS<br>Description   | Interval<br>Recovery<br>Blow Counts<br>end  | PID Well Con<br>Deta                              | npletion<br>ails Comments   |
| ML       Gravelly Silt<br>Brown and light gray; dry; mostly silt<br>with minor gravel         80       Silty Sand         85       SM         96       SM         90       SM         90       SM         90       SM         91       SM         SILty Sand         Brown; and light gray; moist to wet;<br>mostly fine to medium sand with some<br>silt         90       SM         SILty Gravel with Sand         Brown; wet; mostly fine gravel with<br>some silt and minor sand | 50-6"<br>50-6" MW2-85   | 0.6<br>101<br>57<br>57<br>31<br>3.5               | W.L 88' bgs ATD   |
| Project #: 65602.0   | <b>Sheet:</b> 4 of 4  | Drawn by: KLA                                     | Checked by: EK  |

| P                                    | P A  | VIR (<br>RTN | O N M E N T A L<br>E R S I N C   |                            |                          |                         | Bo   | ring: M  | N-3                                 |
|--------------------------------------|--|--------------|--|----------------------------|--------------------------|-------------------------|--|--|-------------------------------------|
| Clier<br>Site<br>City<br>Date<br>Log | <i>Client:</i> Onni Group<br><i>Site Address:</i> 1120 John Street<br><i>City &amp; State:</i> Seattle WA<br><i>Date of Drilling:</i> April 29 & 30, 2013<br><i>Logged by:</i> E. Caddey, L.G.<br><i>Total Depth (ft):</i> 100 |              |  | Equi<br>Bore<br>Sam<br>Ham | pm<br>hol<br>plei<br>mei | ent: CN                 | scade Drilling<br>/E-75 HSA<br><b>neter:</b> 15"(0-3<br><b>s:</b> 2.5"<br>140lbs | Casing Material: Sch 40 PVC<br>Casing Size: 2"<br>) Screen Interval: 85'- 100'<br>Screen Size (in.): 0.010"<br>Screen Type: Sch 40 PVC machin<br>Filter Pack: 2/12 |                                     |
| Depth (ft)                           | Lithology  | USCS         | Description  | Interval                   | Recovery                 | Blow Counts             | Sample   | PID  | Well Completion<br>Details Comments |
| 0-                                   | $\times$   |              | Ground Surface<br>Concrete   |                            |                          |                         |  |  |                                     |
| -                                    | ~~~  | SP           | <b>Poorly-graded Sand</b><br>Gray; damp; mostly fine to medium<br>sand; apparent fill material   |                            |                          |                         |  |  | Concrete                            |
| 5                                    |  | SW-<br>SM    | Well-Graded Sand with Silt and<br>Gravel<br>Gray-green; damp; loose; mostly<br>fine to coarse sand with few silt and<br>few gravel<br>Becomes medium dense | b                          |                          | 4<br>4<br>5             |  | 0.1  |                                     |
| 10                                   |  |              |  |                            |                          | 4<br>5<br>6             |  | 0.1  | ary steel casing                    |
| -<br>-<br>15-                        |  | SP-<br>SM    | Poorly-graded Sand with Silt and<br>Gravel<br>Gray; damp; medium dense;mostly<br>fine to medium sand with few silt<br>and few gravel;<br>Becomes dense     |                            |                          |                         |  | 0.1  | Temporary ste                       |
|                                      |  |              | 6" perched water table   |                            |                          | 50-6"<br>19<br>21<br>23 |  |  | Bentonite                           |
| -                                    |  | CL           | <b>Sandy Lean Clay with Gravel</b><br>Gray; damp; hard; low plasticity; no<br>dilatency; mostly clay with some<br>sand and few gravel                      | )                          |                          |                         |  | - 0.4  | PVC blank                           |
| 25-                                  |  | SW-<br>SM    |  |                            |                          |                         |  |  |                                     |
| Proje                                | ect #: (   | 65602.       | 0  | She                        | eet:                     | 1 of 4                  |  | Drawn by: K  | LA Checked by: EC                   |

| PARTNERS INC  |   |                                 |   | Во  | ring: M   |                            |          |  |  |
|---|---|---------------------------------|---|---|---|----------------------------|----------|--|--|
| Client: Onni Group<br>Site Address: 1120 John Street<br>City & State: Seattle WA<br>Date of Drilling: April 29 & 30, 2<br>Logged by: E. Caddey, L.G.<br>Total Depth (ft): 100   | Eq<br>Bo<br>2013 Sa<br>Ha                                     | quipn<br>oreho<br>ample<br>amme | nent: CN  | scade Drilling<br>IE-75 HSA<br><b>eter:</b> 15"(0-30<br>s: 2.5"<br>140lbs | Casing Material: Sch 40 PVC<br>Casing Size: 2"<br>0-100) Screen Interval: 85'- 100'<br>Screen Size (in.): 0.010"<br>Screen Type: Sch 40 PVC mach<br>Filter Pack: 2/12 |                            |          |  |  |
| JX (it)   | escription  | Interval                        | nts   | Sample  | PID   | Well Completion<br>Details | Comments |  |  |
| Gravel         Gray-blue; dar         Gray-blue; dar         mostly fine to d         silt and few gra         30-         -         -         30-         -         -         35-         -         -         -         35-         -< | Sand with Clay and<br>np; very dense;<br>coarse sand with few |                                 | 50-6"<br>19<br>50-6"<br>50-5"<br>50-5"<br>17<br>50-5" |   | 0.0<br>0.1<br>0.2<br>0.0  | PVC blank                  |          |  |  |
| 50  |   |                                 |   |   | -   |                            |          |  |  |

| Ø                                   | ) E N<br>P A                                 | VIR<br>RTN  | O N M E N T A L<br>E R S I N C  | Boring: MW-3             |                           |   |   |                                 |   |           |                 |  |
|-------------------------------------|--|---|---|--------------------------|---------------------------|---|---|---------------------------------|---|-----------|-----------------|--|
| Clie<br>Site<br>City<br>Date<br>Log | nt: On<br>Addro<br>& Sta<br>e of Di<br>ged b | ni Gro<br>e <b>ss:</b> 1<br>n <b>te:</b> Se<br>rilling<br>y: E. ( | oup<br>120 John Street<br>eattle WA<br>: April 29 & 30, 2013<br>Caddey, L.G.  | Equ<br>Bor<br>San<br>Han | ipm<br>eho<br>nple<br>nme | ent: CN<br>le Diam<br>r Specs<br>er Size:             | scade Drilling<br>/E-75 HSA<br><b>neter:</b> 15"(0-30<br><b>s:</b> 2.5"<br>140lbs |                                 | Casing Material: Sch 40 PVC<br>Casing Size: 2"<br>0-100) Screen Interval: 85'- 100'<br>Screen Size (in.): 0.010"<br>Screen Type: Sch 40 PVC machi |           |                 |  |
| Tota                                | al Dep                                       | th (ft)   | : 100   | Elev                     | atio                      | on (ft an   | nsl): 0   |                                 | Filter P  | ack: 2/12 |                 |  |
| Depth (ft)                          | Lithology                                    | USCS  | Description   | 1                        | Interval<br>Recoverv      | Blow Counts   | Sample  | PID                             | Well Co<br>Det  |           | Comments        |  |
|                                     |  | SW-<br>SM<br>SW   | Well-graded Sand with Clay and<br>Gravel<br>Gray-blue; damp; very dense;<br>mostly fine to coarse sand with few<br>clay and few gravel<br>Well-graded Sand with Silt and<br>Gravel<br>Gray-green; damp; very dense; fine<br>to coarse sand with few silt and few<br>gravel<br>Well-graded Sand with Gravel<br>Brown; damp; very dense; fine to<br>coarse sand with few gravel |                          |                           | 25<br>50-5"<br>50-6"<br>50-6"<br>25<br>50-6"<br>50-6" |   | 0.0<br>0.1<br>0.1<br>0.2<br>0.2 | Bentonite   | PVC blank |                 |  |
| 75–                                 |  |   |   |                          |                           |   |   | _                               |   |           |                 |  |
| roje                                | ect #: (                                     | 0002  | .0  | Sn                       | ieet:                     | 3 of 4  |   | Drawn by: K                     | LA  | Checked   | <i>i ∪y.</i> ⊑0 |  |

| P                            |                                   | VIR (<br>RTN  | O N M E N T A L<br>E R S I N C  | Boring: MW-3               |                         |                   |                |  |                      |             |          |
|------------------------------|-----------------------------------|---|---|----------------------------|-------------------------|-------------------|----------------|--|----------------------|-------------|----------|
| Site<br>City<br>Date<br>Logg | nt: On<br>Addre<br>& Sta<br>of Dr | ni Gro<br>e <b>ss:</b> 1<br>te: Se<br>filling:<br>y: E. C | oup<br>120 John Street<br>eattle WA<br>: April 29 & 30, 2013<br>Caddey, L.G.  | Equi<br>Bore<br>Sam<br>Ham | ipm<br>eho<br>ple<br>me | ent: CN           | 2.5"<br>140lbs | Casing Material: Sch 40 PVC<br>Casing Size: 2"<br>) Screen Interval: 85'- 100'<br>Screen Size (in.): 0.010"<br>Screen Type: Sch 40 PVC mach<br>Filter Pack: 2/12 |                      |             |          |
| Depth (ft)                   | Lithology                         | nscs  | Description   | Interval                   | 2                       | nts               | Sample         | PID  | Well Comp<br>Details |             | Comments |
| -                            |                                   |   | <i>Well-graded Sand with Gravel</i><br>Brown; damp; very dense; fine to<br>coarse sand with few gravel                                  |                            |                         | 25<br>50-6"       |                | 0.1  |                      |             |          |
| 80<br>-<br>-<br>-            |                                   | SW-<br>SM   | Well-graded Sand with Silt and<br>gravel<br>Brown-gray; damp; very dense;<br>mostly fine to coarse sand with few<br>silt and few gravel | ,                          |                         | 50-6"             |                | 0.2  |                      |             |          |
| 85                           |                                   | SW  | Well-graded Sand<br>Brown; damp; very dense; mostly<br>fine to coarse sand with few silt  |                            |                         | 26<br>50-6"       |                | 0.5  |                      |             |          |
| 90-                          |                                   |   |   |                            |                         | 28<br>23<br>50-6" |                | 0.2  | 10/20 Silca Sand     | een         |          |
| 95-                          |                                   | SP  | <b>Poorly-graded Sand with Gravel</b><br>Gray-brown; moist to wet; very<br>dense; mostly medium sand with<br>few gravel                 |                            |                         | 20<br>20<br>25    |                | 0.3  | 10/20 Silca Sar      | PVC screen  |          |
| -<br>100<br>Proje            | ect #: 6                          | 5602  | 0   | Sh                         | eet:                    | 4 of 4            |                | 0.4  |                      | ▼<br>Checke | d by: EC |

|   | IRONMENTA<br>TNERSINC  | L                    | BORING ID: MW-4 |                |         |            |            |                          |  |  |
|---|--|----------------------|-----------------|----------------|---------|------------|------------|--------------------------|--|--|
| SITE ADDRESS                              |  |                      | CLIENT:         |                |         | CASING MA  | TERIAL A   | ND SIZE:                 |  |  |
| 1120 John St                              | Seattle, Wa  |                      | Onni Grou       | ıp             |         | 2-Inch PV  |            |                          |  |  |
| ORILLING CONT                             |  |                      | PROJECT #:      | -              |         | SCREEN SI  |            |                          |  |  |
| Cascade Drill                             | ing, LP  |                      | 65602           |                |         | 0.010-Inc  | h Slot     |                          |  |  |
| ORILLING EQUIF                            | MENT:  |                      | DATE:           |                |         | SCREEN IN  | TERVAL:    |                          |  |  |
| Fruck Mounte                              | ed Rig - CME - 75  |                      | 5/12/2018       |                |         | 105'-93' b | gs         |                          |  |  |
| DRILLING METH                             | OD:  |                      | GROUND SL       | JRFACE ELEV. F | F AMSL: | FILTER PAG | CK:        |                          |  |  |
|   | Auger  |                      |                 |                |         | 2-12 Mon   | terey Sa   | nd                       |  |  |
| OGGED BY:                                 | BOREHOLE   | SIZE:                | TOTAL DEPT      | TH:            |         | FILTER PAG |            | AL:                      |  |  |
| C. McFadden                               | 8-Inch   |                      |                 |                |         | 105'-90' b | gs         |                          |  |  |
| Depth (feet)<br>USCS                      | Description<br>USCS name; Color; Moisture; Density;<br>Plasticity; Dilatency; EPI description; Other |                      | Blows per 6"    | Sample         | Sample  | We         | ll Constru | iction                   |  |  |
| 0   | Asphalt Surface  |                      |                 |                |         | *****      | ****       | Flush<br>Monumer         |  |  |
| 5 -                                       | Concrete (Hard drilling)   |                      |                 |                |         |            | <b>#</b>   | Cement<br>2-Inch PV      |  |  |
| 10<br>- <b>SM</b>                         | SILTY SAND WITH GRAVEL;<br>damp; mostly fine sand with m   |                      | 06-9-12         | MW-4:10        | 0       |            |            | Casing<br>Hydrated       |  |  |
|   | minor gravel; no odor<br>SANDY SILT WITH GRAVEL;   |                      | 0 15-20-21      | MW-4:15        | 0       |            |            | Bentonite                |  |  |
| 20 - ML                                   | plasticity; mostly silt with some<br>minor fine gravel; no odor                                      | fine sand and        | 328-50/6"       | MW-4:20        | 0       |            |            |                          |  |  |
| 25 — III II II<br>- sм                    | SILTY SAND WITH GRAVEL;<br>mostly fine sand with some silt   |                      | 0 20-22-34      | MW-4:25        | 0       |            |            |                          |  |  |
| 30 - 11   11   11   11   11   11   11   1 | fine-medium gravel; no odor<br>POORLY-GRADED SAND; bro<br>mostly fine sand with trace silt;          |                      | 0 38-40-50/6"   | MW-4:30        | 0       |            |            |                          |  |  |
| 35<br>- SM                                | SILTY SAND; brownish gray; v<br>bearing (low-yield); mostly fine                                     | very moist; water 10 | 0 50/6"         | MW-4:35        | 0       |            |            |                          |  |  |
| 40<br>- <b>SM</b><br>45                   | silt and few gravel; no odor<br>SILTY SAND WITH GRAVEL;<br>mostly fine sand with minor silt          | and minor            |                 | MW-4:40        | 0       |            |            |                          |  |  |
| -   ML                                    | gravel; no odor<br>SANDY SILT WITH GRAVEL;   | 90<br>brown; damp    | 031-50/6"       | 10107-4.43     |         |            |            |                          |  |  |
| 50 -              <br>-     ML            | with faint rusting; mostly silt wit<br>sand and minor gravel; no odo<br>SANDY SILT WITH GRAVEL;      | r <u>10</u>          | 0 21-25-28      | MW-4:50        | 0       |            |            |                          |  |  |
| 55 -         <br>-  ML                    | mottles green, purple, and red<br>damp; mostly silt with minor fin<br>gravel                         | dish brown;          | 0 27-28-28      | MW-4:55        | 0       |            |            |                          |  |  |
| 60 -      <br>-  ML                       | Color change to greeish gray/b<br>increased moisture to moist; no                                    | o odor               | 0 25-27-28      | MW-4:60        | 0       |            |            |                          |  |  |
| 65 -                                      | Inconsistent moisture througho<br>odor<br>Color change to brown with fair                            | 10                   | 032-50/6"       | MW-4:65        | 0       |            |            |                          |  |  |
| 70 - IIIIIIIII<br>;ĜŴ, ○                  | decreased moisture to dry; no<br>WELL-GRADED GRAVEL WIT  | odor 10<br>TH SAND;  | 0 27-21-28      | MW-4:70        | 0       |            |            |                          |  |  |
| /5  | brown; dry; mostly weathered g<br>sand; no odor<br>SILTY SAND WITH GRAVEL;                           | brown; dry;          | 0 21-21-50/6"   | MW-4:75        | 0       |            |            |                          |  |  |
| 80 -<br>- SM                              | mostly fine sand with minor silt gravel; no odor   | and weathered 10     | 0 50/6"         | MW-4:80        | 0       |            |            |                          |  |  |
| 85 -                                      |  | 10                   | 0 50/6"         | MW-4:85        | 0       |            |            |                          |  |  |
| 90 -<br>-<br>05 SM                        | Increase in fractured/weathere dry; no odor  |                      |                 | MW-4:90        | 0       |            | 2          | 2-12 Montei<br>Sand      |  |  |
| 95 - SM<br>- SM                           |  | 33                   | 3100/5"         | MW-4:95        | 0       |            |            | 0.010-Incl<br>Slot Scree |  |  |
| 00<br>- <b>SW-SM</b><br>05                | WELL-GRADED SAND WITH<br>GRAVEL; brown; wet; mostly fi<br>with minor silt and few gravel; r          | ine-coarse sand      | 050/6"          | MW-4:100       | 0       |            |            |                          |  |  |
| 10  |  |                      |                 |                |         |            |            |                          |  |  |

| P            |  | IRONMENTAL<br>TNERSINC   |                          | BORING       | ID: MW-5       |           |                                 |
|--------------|--|--|--------------------------|--------------|----------------|-----------|---------------------------------|
| SITE A       | ADDRESS  |  |                          | CLIENT:      |                |           | CASING MATERIAL AND SIZE:       |
| 1120         | John St  | Seattle, Wa  |                          | Onni Group   | <b>b</b>       |           | 2-Inch PVC                      |
|              | ING CONT                                       |  |                          | PROJECT #:   |                |           | SCREEN SIZE:                    |
|              | ade Drill                                      | •  |                          | 65602        |                |           | 0.010-Inch Slot                 |
|              | ING EQUIF                                      |  |                          | DATE:        |                |           | SCREEN INTERVAL:                |
|              |  | ed Rig - CME - 75  |                          | 4/26/2018    |                |           | 105'-93' bgs                    |
|              | ING METH                                       |  |                          | GROUND SUF   | RFACE ELEV. FT | AMSL:     | FILTER PACK:                    |
|              | ow-Stem Auger       GED BY:     BOREHOLE SIZE: |  |                          | TOTAL DEPTH  | 4.             |           | 2-12 Monterey Sand              |
|              | cFadden  | 8-Inch   |                          | 105' bgs     |                |           | 105'-90' bgs                    |
| Depth (feet) | nscs   | Description<br>USCS name; Color; Moisture; Density;<br>Plasticity; Dilatency; EPI description; Other                     | Interval &<br>% Recovery | Blows per 6" | Sample         | PID (ppm) | Well Construction               |
| 0            |  | Concrete Surface   |                          |              |                |           | Flush                           |
| 5            | - SM   | SILTY SAND WITH GRAVEL; brown; damp;<br>dense; mostly fine sand with some silt and                                       | 100                      | 28-50/6"     | MW-5:5         | 0         | Monumen<br>Cement<br>2-Inch PVC |
| 10           |  | minor gravel; no odor<br>SANDY SILT WITH GRAVEL; brown; damp;  | 100                      | 9-16-18      | MW-5:10        | 0         | Casing                          |
| 15           | -    ML  | medium dense; medium plasticity; mostly silt<br>with some fine sand and minor gravel; no odor                            | r <u>100</u>             |              | MW-5:15        | 0         | Hydrated<br>Bentonite           |
| 20           |  | POORLY-GRADED SAND; brown; wet;<br>medium dense; mostly medium sand with trace   | 100                      | 21-23-27     | MW-5:20        | 0         |                                 |
| 25           |  | silt; no odor<br>SANDY SILT WITH GRAVEL; gray; dry;  | - <u>100</u>             | 27-50/6"     | MW-5:25        | 0         |                                 |
| 30           | -  | mostly silt with some fine sand and minor<br>gravel; no odor<br>SILTY SAND WITH GRAVEL; brown; dry;                      | 66                       | 50/6"        | MW-5:30        | 0.1       |                                 |
| 35           | SM   | dense; mostly fine-medium sand with minor sil<br>and minor gravel<br>SANDY SILT WITH GRAVEL; gray; dry;                  | lt <u>66</u>             | 31-50/6"     | MW-5:35        | 0         |                                 |
| 40           |  | mostly silt with some fine sand and minor<br>gravel; no odor   | 100                      | 50/6"        | MW-5:40        | 0         |                                 |
| 45           | -  |  | 100                      | 50/6"        | MW-5:45        | 0         |                                 |
| 50           |  |  | 0                        | 80/6"        |                |           |                                 |
| 55           |  |  | 100                      | 41-50/6"     | MW-5:55        | 0         |                                 |
| 60           | -  | SANDY SILT WITH GRAVEL; strong brown;<br>dry; mostly silt with some fine sand and minor                                  | 100                      | 50/6"        | MW-5:60        | 0         |                                 |
| 65           |  | gravel; no odor<br>SANDY SILT WITH GRAVEL; gray; dry;  | 100                      | 60/6"        | MW-5:65        | 0         |                                 |
| 70           | -  | mostly silt with some fine sand and minor gravel; no odor  | 33                       | 100/6"       | MW-5:70        | 0         |                                 |
| 75           |  |  | 33                       | 100/6"       | MW-5:75        | 0         |                                 |
| 80           |  | Decreased silt content and color change to brown; no odor  | 33                       |              | MW-5:80        | 0         |                                 |
| 85           | -  ML  |  | 33                       | 100/3"       | MW-5:85        | 0         |                                 |
| 90           |  | SILTY SAND WITH GRAVE; brown; dry;<br>mostly fine-medium sand with minor silt and  | 33                       | 200/5"       | MW-5:90        | 0         | 2-12 Monter<br>Sand             |
| 95           | - SM   | minor gravel; no odor  | 33                       | 100/6"       | MW-5:95        | 0         | 0.010-Inch<br>Slot Scree        |
| 00           | SM   | Wet  | 33                       | 21-22-20     | MW-5:100       | 0         |                                 |
| 05           | SW-SM  | WELL-GRADED SAND WITH SILT AND<br>GRAVEL; brown; wet; mostly fine-medium<br>sand with few silt and minor gravel; no odor | 100                      | 50/6"        | MW-5:105       | 0         |                                 |

| <b>1120</b><br>Drilli | DDRESS    |  |                          | BORING ID: MW-6 |                |           |                          |  |  |  |  |  |
|-----------------------|-----------|--|--------------------------|-----------------|----------------|-----------|--------------------------|--|--|--|--|--|
| RILLI                 |           |  |                          | CLIENT          |                |           |                          |  |  |  |  |  |
| RILLI                 | John St   | , Seattle, Wa  |                          | Onni Group      | o              |           |                          |  |  |  |  |  |
| -                     | NG CONT   | RACTOR:  |                          | PROJECT#        |                |           |                          |  |  |  |  |  |
| Jasca                 | ade Drill | ling, LP   |                          | 65602           |                |           |                          |  |  |  |  |  |
| RILLI                 | NG EQUIF  | -<br>MENT:   |                          | DATE            |                |           |                          |  |  |  |  |  |
| ruck                  | Mounte    | ed Rig - CME - 75  |                          | 3/16/2019       |                |           |                          |  |  |  |  |  |
| RILLI                 | NG METH   | OD:  |                          | GROUND SUF      | RFACE ELEV. FT | AMSL:     | DECOMMISSIONING MATERIAL |  |  |  |  |  |
|                       | w-Stem    | Auger  |                          | Not Measu       |                |           | Hydrated Bentonite       |  |  |  |  |  |
|                       | ED BY:    |  |                          | TOTAL DEPTH     | 4:             |           | BOREHOLE SIZE:           |  |  |  |  |  |
|                       | Fadden    | / M. Esparra   |                          | 35' bgs         |                |           | 8-Inch                   |  |  |  |  |  |
| Depth (feet)          | NSCS      | <b>Description</b><br>USCS name; Color; Moisture; Density;<br>Plasticity; Dilatency; EPI description; Other          | Interval &<br>% Recovery | Blows per 6"    | Sample         | PID (ppm) | Comments                 |  |  |  |  |  |
| 0                     |           | Asphalt Surface  |                          |                 |                |           |                          |  |  |  |  |  |
| _                     |           | SANDY SILT; light brown; damp; low plasticity;<br>mostly silt with some fine sand; no odor                           |                          |                 |                |           |                          |  |  |  |  |  |
| 5-                    | ML        |  | 50                       | 3-3-4           | MW-6:5         | 0.0       |                          |  |  |  |  |  |
| -<br>10-              |           | POORLY-GRADED GRAVEL WITH SAND;<br>brown; damp; mostly large gravel and cobbles<br>with minor fine sand; no odor     |                          |                 | MW-6:10        | 0.0       |                          |  |  |  |  |  |
| -0                    | GP        |  | 33                       | 50/6"           |                | 0.0       |                          |  |  |  |  |  |
| 15-                   |           | SANDY SILT WITH GRAVEL; dark bluish gray;<br>damp; low plasticity  |                          |                 | MW-6:15        | 0.0       |                          |  |  |  |  |  |
|                       |           |  | 80                       | 10-12-15        |                |           |                          |  |  |  |  |  |
|                       |           | SILT; dark bluish gray; dry; silt; no odor   |                          |                 |                |           |                          |  |  |  |  |  |
| 20-                   | ML        |  | 100                      | 10-12-15        | MW-6:20        | 0.0       |                          |  |  |  |  |  |
| - 25-                 |           | SANDY SILT WITH GRAVEL; dark bluish gray;<br>dry; mostly silt with minor fine sand and minor<br>fine gravel; no odor |                          |                 | MW-6:25        | 0.0       |                          |  |  |  |  |  |
| -                     |           |  | 33                       | 50/6"           |                |           |                          |  |  |  |  |  |
| 30-                   | ML        | SANDY SILT; dark bluish gray; damp; medium<br>plasticity; mostly silt with minor fine sand; no<br>odor               | 66                       | 25-50/6"        | MW-6:30        | 0.0       |                          |  |  |  |  |  |
| _                     | ML        | SILT; dark bluish gray; dry; mostly silt with trace fine gravel; no odor   |                          |                 |                |           |                          |  |  |  |  |  |
| 35-                   |           | End of Borehole  | 100                      | 12-20-25        | MW-6:35        | 0.0       |                          |  |  |  |  |  |
| 40                    |           |  |                          |                 |                |           |                          |  |  |  |  |  |
| -                     |           | water or moisture observed   | <u> </u>                 |                 |                | I         |                          |  |  |  |  |  |

| eл           | ΡΑ       | VIRONMENTAL<br>RTNERS INC  |                          | BORING ID: MW-7  |         |           |  |  |  |  |  |
|--------------|----------|--|--------------------------|--|---------|-----------|--|--|--|--|--|
| SITE A       | DDRESS   |  |                          | CLIENT   |         |           |  |  |  |  |  |
| 1120 、       | John S   | t, Seattle, Wa   |                          | Onni Grou  | р       |           |  |  |  |  |  |
|              |          | TRACTOR:   |                          | PROJECT #  |         |           |  |  |  |  |  |
|              |          | lling, LP  |                          | 65602  |         |           |  |  |  |  |  |
|              |          |  |                          |  |         |           |  |  |  |  |  |
|              |          | ted Rig - CME - 75   |                          | 3/16/2019 GROUND SURFACE ELEV. FT AMSL: DECOMMISSIONING MATERI |         |           |  |  |  |  |  |
|              | NG METH  | Non Auger  |                          | Not Measu  |         | AIVISL:   | DECOMMISSIONING MATERIAL<br>Hydrated Bentonite |  |  |  |  |
|              |          | TAuger   |                          | TOTAL DEPT   |         |           | BOREHOLE SIZE:                                 |  |  |  |  |
|              |          | n / M. Esparra   |                          | 35' bgs  |         | 8-Inch    |  |  |  |  |  |
| Depth (feet) | nscs     | Description<br>USCS name; Color; Moisture; Density;<br>Plasticity; Dilatency; EPI description; Other             | Interval &<br>% Recovery | Blows per 6"   | Sample  | PID (ppm) | Comments                                       |  |  |  |  |
| 0            |          | Asphalt Surface  |                          |  |         |           |  |  |  |  |  |
| _            | SP       | POORLY-GRADED SAND; light brown; dry;<br>fine sand with trace silt; no odor                                      |                          |  |         |           |  |  |  |  |  |
| 5-           | JP       | ·<br>•   | 80                       | 7-10-10  | MW-7:5  | 0.0       |  |  |  |  |  |
| 10-          | ML       | SANDY SILT; dark bluish gray; dry to moist for<br>3" at 10.5'; mostly silt with minor fine sand; no<br>odor      | 100                      | 7-7-10   | MW-7:10 | 0.0       |  |  |  |  |  |
| _            |          | SILT; dark bluish gray; dry; mostly silt with trace fine sand; no odor   |                          | 7-7-10   |         |           |  |  |  |  |  |
| 15-          | ML       | Same as above; trace gravel; no odor   | 100                      | 12-17-25   | MW-7:15 | 0.0       |  |  |  |  |  |
| 20-          | <u> </u> | SANDY SILT; dark bluish gray; damp; mostly<br>silt with minor fine sand and trace gravel; no<br>odor             | 66                       | 20-50/6"   | MW-7:20 | 0.0       |  |  |  |  |  |
| 25-          | ML       | SILT; dark bluish gray; dry; mostly silt with trace fine gravel; no odor   | 100                      | 12-19-20   | MW-7:25 | 0.0       |  |  |  |  |  |
| -<br>30-     | ML       | SANDY SILT WITH GRAVEL; reddish gray;<br>dry; mostly silt with minor fine sand and minor<br>fine gravel; no odor | 30                       | 50/5"  | MW-7:30 | 0.0       |  |  |  |  |  |
| -            | SP       | POORLY-GRADED SAND; reddish gray; dry;<br>mostly fine sand with few fine gravel; no odor                         |                          |  | MM 7 05 |           |  |  |  |  |  |
| 35-          | L        | End of Borehole  | 66                       | 20-50/6"   | MW-7:35 | 0.0       |  |  |  |  |  |
| 40           |          |  |                          |  |         |           |  |  |  |  |  |
| 40           |          |  |                          |  |         |           |  |  |  |  |  |
|              | EQ: N    | o water observed   |                          |  |         |           |  |  |  |  |  |

| <b>QDD</b>   | PAF  | VIRONMENTAL<br>RTNERS INC  |                          | BORING ID: MW-8 |                 |                          |                          |  |  |  |  |  |
|--------------|--|--|--------------------------|-----------------|-----------------|--------------------------|--------------------------|--|--|--|--|--|
| SITE AD      | DRESS  |  |                          | CLIENT          |                 |                          |                          |  |  |  |  |  |
| 1120 Jo      | ohn St   | , Seattle, Wa  |                          | Onni Grou       | р               |                          |                          |  |  |  |  |  |
|              |  | RACTOR   |                          | PROJECT #       |                 |                          |                          |  |  |  |  |  |
| Cascad       | de Dril  | ling, LP   |                          | 65602           |                 |                          |                          |  |  |  |  |  |
| ORILLIN      |  |  |                          | DATE            |                 |                          |                          |  |  |  |  |  |
| Fruck I      | Mounte   | ed Rig - CME - 75  |                          | 3/16/2019       |                 |                          |                          |  |  |  |  |  |
| ORILLIN      |  |  |                          |                 | RFACE ELEV. F1  | FAMSL:                   | DECOMMISSIONING MATERIAL |  |  |  |  |  |
|              | ollow-Stem Auger<br>DGGED BY:<br>. McFadden / M. Esparra |  |                          |                 | red             |                          | Hydrated Bentonite       |  |  |  |  |  |
|              |  |  |                          |                 | H:              | BOREHOLE SIZE:<br>8-Inch |                          |  |  |  |  |  |
|              | auuen  | -  | <u>&gt;</u>              | 14' bgs         |                 |                          |                          |  |  |  |  |  |
| Depth (feet) | uscs   | Description<br>USCS name; Color; Moisture; Density;<br>Plasticity; Dilatency; EPI description; Other | Interval &<br>% Recovery | Blows per 6"    | Sample          | PID (ppm)                | Comments                 |  |  |  |  |  |
| 0            |  | Asphalt Surface  | _                        |                 |                 |                          |                          |  |  |  |  |  |
| _            |  |  |                          |                 |                 |                          |                          |  |  |  |  |  |
| 5-           |  | Hard Drilling; Concrete Rubble   | 20                       | 50/6"           | MW-8:5          | 0.0                      |                          |  |  |  |  |  |
| 10-          |  | Hard Drilling; Concrete Rubble   | 20                       | 50/6"           | MW-8:10         | 0.0                      |                          |  |  |  |  |  |
| -            |  |  |                          |                 |                 |                          |                          |  |  |  |  |  |
| 15-          |  | End of Borehole  |                          |                 |                 |                          |                          |  |  |  |  |  |
| -            |  |  |                          |                 |                 |                          |                          |  |  |  |  |  |
| 20-          |  |  |                          |                 |                 |                          |                          |  |  |  |  |  |
| -            |  |  |                          |                 |                 |                          |                          |  |  |  |  |  |
| 25-          |  |  |                          |                 |                 |                          |                          |  |  |  |  |  |
|              |  |  |                          |                 |                 |                          |                          |  |  |  |  |  |
| 30-          |  |  |                          |                 |                 |                          |                          |  |  |  |  |  |
|              |  |  |                          |                 |                 |                          |                          |  |  |  |  |  |
| 35-          |  |  |                          |                 |                 |                          |                          |  |  |  |  |  |
| 40           |  |  |                          |                 |                 |                          |                          |  |  |  |  |  |
| 40           |  | t attempt- refusal at 8' bgs. 2nd attemp<br>fusal at 12' bgs. 5th attempt- refusal at<br>5 5' bgs    |                          | sal at 14' 3r   | d attornat rafi |                          | /                        |  |  |  |  |  |

| epi          | PAR              | 'IRONM<br>TNERS                                | ENTAL   |     | BORING ID: T-4 |                |                 |                      |                                     |                   |  |  |
|--------------|------------------|--|---|-----|----------------|----------------|-----------------|----------------------|-------------------------------------|-------------------|--|--|
| ITE A        | DDRESS           |  |   |     | CLIENT:        |                |                 | CASING MATERIA       | AL AND SIZE:                        |                   |  |  |
| 120、         | John St,         | Seattle, Wa                                    |   |     | Onni Grou      | р              |                 | Temporary 2-Inch PVC |                                     |                   |  |  |
| RILLI        | NG CONTI         | RACTOR:  |   |     | PROJECT #:     |                | SCREEN SIZE:    |                      |                                     |                   |  |  |
| Casca        | ade Drill        | ing, LP  |   |     | 65602          |                | 0.010-Inch Slot |                      |                                     |                   |  |  |
| RILLI        | NG EQUIP         | MENT:  |   |     | DATE:          |                | SCREEN INTERV   | AL:                  |                                     |                   |  |  |
|              |                  | ed Rig - CME -                                 | 75  |     | 5/2/2018       |                |                 | 15'-5" bgs           |                                     |                   |  |  |
|              |                  |  |   |     | GROUND SUF     | RFACE ELEV. F1 | AMSL:           | FILTER PACK:         | <b>.</b> .                          |                   |  |  |
|              | w-Stem           | Auger  |   |     | TOTAL DEPTI    | 1.             |                 | 2-12 Monterey        |                                     |                   |  |  |
|              | ED BY:<br>Fadden |  | BOREHOLE SIZE:<br>8-Inch  |     | 15' bgs        | Π.             | 15'-5" bgs      | ERVAL.               |                                     |                   |  |  |
| Depth (feet) | 0 USCS name      |  | Description<br>USCS name; Color; Moisture; Density;<br>lasticity; Dilatency; EPI description; Other |     | scription      |                | Blows per 6"    | Sample               | PID (ppm)                           | Well Construction |  |  |
| 0            |                  | Concrete Surfac                                | e   |     |                |                |                 |                      | Temporary<br>Well                   |                   |  |  |
| 5 -          | SM               |  | TH GRAVEL; brown; damp;<br>with minor silt and minor  | 100 | 19-50/6"       | T-4:5          | 0               |                      | 2-PVC Casin<br>2-12 Montere<br>Sand |                   |  |  |
| 10 -         | ML               | and moist throug                               | own; wet for 3-inches at 11'<br>hout sampler; mostly silt with<br>and few gravel; no odor           | 100 | 21-23-25       | T-4:10         | 0               |                      |                                     |                   |  |  |
| -            | ML               | Color change to<br>2-inches and dat<br>no odor | gray; moist at 15.5 for<br>np-moist throughout sample;  | _   |                |                |                 |                      | 0.010-Inch<br>Slot Screen           |                   |  |  |
| 15 -         |                  | En   | d of Borehole   | 100 | 16-19-20       | T-4:15         | 0               |                      |                                     |                   |  |  |
| 20           |                  | :GW collected                                  |   |     |                |                |                 |                      |                                     |                   |  |  |

| epi          | PAR       | IRONM<br>TNERS                   | ENTAL<br>INC   |                          | BORING ID: T-5 |               |                      |                 |                           |  |  |  |
|--------------|-----------|----------------------------------|--|--------------------------|----------------|---------------|----------------------|-----------------|---------------------------|--|--|--|
| ITE AI       | DDRESS    |                                  |  |                          | CLIENT:        |               |                      | CASING MATER    | RIAL AND SIZE:            |  |  |  |
| 120、         | John St   | Seattle, Wa                      |  |                          | Onni Grou      | р             | Temporary 2-Inch PVC |                 |                           |  |  |  |
|              |           | RACTOR:                          |  |                          | PROJECT #:     |               | SCREEN SIZE:         |                 |                           |  |  |  |
| asca         | ade Drill | ing, LP                          |  |                          | 65602          |               |                      | 0.010-Inch Slot |                           |  |  |  |
| RILLI        | NG EQUIF  | MENT:                            |  |                          | DATE:          |               | SCREEN INTERVAL:     |                 |                           |  |  |  |
| ruck         | Mounte    | ed Rig - CME -                   | - 75   |                          | 5/2/2018       |               |                      | 15'-5" bgs      |                           |  |  |  |
| RILLI        | NG METH   | OD:                              |  |                          | GROUND SUF     | RFACE ELEV. F | FILTER PACK:         |                 |                           |  |  |  |
| ollo         | w-Stem    | Auger                            |  |                          |                |               | 2-12 Montere         | ey Sand         |                           |  |  |  |
|              | ED BY:    |                                  | BOREHOLE SIZE:   |                          | TOTAL DEPTI    | H:            |                      | FILTER PACK IN  | NTERVAL:                  |  |  |  |
|              | Fadden    |                                  | 8-Inch   | Interval &<br>% Recovery | 15' bgs        |               |                      | 15'-5" bgs      |                           |  |  |  |
| Depth (feet) |           |                                  |  |                          | Blows per 6"   | Sample        | ample (udd)          | Well Co         | onstruction               |  |  |  |
| 0            |           | Concrete Surfac                  | е  |                          |                |               |                      |                 |                           |  |  |  |
|              |           |                                  |  |                          |                |               |                      |                 | Temporary<br>Well         |  |  |  |
| 5 -          |           |                                  | TH GRAVEL; brown; moist;<br>with minor silt and minor    | 100                      | 11-15-19       | T-5:5         | 0                    |                 | 2-PVC Casin               |  |  |  |
| _            | SM        | g                                |  |                          |                |               |                      |                 | 2-12 Montere<br>Sand      |  |  |  |
| 0 -          |           | Wet; faint rusting               | g; no odor   | 100                      | 9-11-10        | T-5:10        | 0                    |                 |                           |  |  |  |
| _            | SM        | GRAVELLY SIL<br>minor gravel and | T; gray; damp; mostly silt with<br>I trace sand; no odor | _                        |                |               |                      |                 | 0.010-Inch<br>Slot Screer |  |  |  |
| 15 -         | ML        |                                  | d of Borehole  |                          |                | T-5:15        | 0                    |                 |                           |  |  |  |
|              |           | LI                               |  | 100                      | 19-20-20       |               |                      |                 |                           |  |  |  |
| _            |           |                                  |  |                          |                |               |                      |                 |                           |  |  |  |
| 20           |           |                                  |  |                          |                |               |                      |                 |                           |  |  |  |

| <b>PD</b>    | PAR      | IRONM<br>TNERS                        |   |                          | BORING ID: T-6 |                |                      |                                |                           |  |  |  |
|--------------|----------|---------------------------------------|---|--------------------------|----------------|----------------|----------------------|--------------------------------|---------------------------|--|--|--|
| TE AD        | DDRESS   |                                       |   |                          | CLIENT:        |                |                      | CASING MATER                   | IAL AND SIZE:             |  |  |  |
| 120 J        | John St  | Seattle, Wa                           |   |                          | Onni Grou      | 0              | Temporary 2-Inch PVC |                                |                           |  |  |  |
|              |          | RACTOR:                               |   |                          | PROJECT #:     |                | SCREEN SIZE:         |                                |                           |  |  |  |
| asca         | de Drill | ing, LP                               |   |                          | 65602          |                |                      | 0.010-Inch SI                  | ot                        |  |  |  |
|              | NG EQUIP |                                       |   |                          | DATE:          |                |                      | SCREEN INTERVAL:<br>15'-5" bgs |                           |  |  |  |
| ruck         | Mounte   | ed Rig - CME                          | - 75  |                          | 5/2/2018       |                |                      |                                |                           |  |  |  |
| RILLIN       | NG METH  | OD:                                   |   |                          | GROUND SUF     | RFACE ELEV. FT | FAMSL:               | FILTER PACK:                   |                           |  |  |  |
| ollov        | w-Stem   | Auger                                 |   |                          |                |                |                      | 2-12 Montere                   | y Sand                    |  |  |  |
|              | D BY:    |                                       | BOREHOLE SIZE:  |                          | TOTAL DEPTH    | 4:             |                      | FILTER PACK IN                 | TERVAL:                   |  |  |  |
|              | Fadden   |                                       | 8-Inch  | Interval &<br>% Recovery | 15' bgs        |                | 1                    | 15'-5" bgs                     |                           |  |  |  |
| Depth (feet) | nscs     | USCS name; 0<br>Plasticity; Dilater   | Description<br>name; Color; Moisture; Density;<br>y; Dilatency; EPI description; Other<br>e Surface |                          | Blows per 6"   | Sample         | PID (ppm)            | Well Construction              |                           |  |  |  |
| 0            |          | Concrete Surfac                       | ce  |                          |                |                |                      |                                |                           |  |  |  |
|              |          |                                       |   |                          |                |                |                      |                                | Temporary<br>Well         |  |  |  |
| 5 -          |          | SANDY SILT W                          | ITH GRAVEL; brown; damp;  |                          |                | T-6:5          | 0                    |                                | 2-PVC Casir               |  |  |  |
| _            | ML       | mostly silt with r<br>gravel; no odor | ninor fine sand and minor   | 100                      | 12-16-20       |                |                      |                                | 2-12 Montere<br>Sand      |  |  |  |
| 0 -          | ML       | Increased moist                       | ure to moist; no odor   | 100                      | 20-22-24       | T-6:10         | 0                    |                                |                           |  |  |  |
|              | SM       | SILTY SAND; g<br>sand with some       | ray-brown; wet; mostly fine<br>silt and trace gravel; no odor                                       |                          |                |                |                      |                                | 0.010-Inch<br>Slot Screer |  |  |  |
| 5 -          |          | Er                                    | nd of Borehole  | 100                      | 24-22-26       | T-6:15         | 0                    |                                |                           |  |  |  |
| 0            |          |                                       |   |                          |                |                |                      |                                |                           |  |  |  |

| edi          | PAR       | IRONM<br>TNERS                      |  |                          | BORING ID: T-7 |               |                  |                   |                      |  |  |  |
|--------------|-----------|-------------------------------------|--|--------------------------|----------------|---------------|------------------|-------------------|----------------------|--|--|--|
| SITE AI      | DDRESS    |                                     |  |                          | CLIENT:        |               |                  | CASING MATE       | RIAL AND SIZE:       |  |  |  |
|              |           | , Seattle, Wa                       |  |                          | Onni Grou      | р             |                  |                   | Temporary 2-Inch PVC |  |  |  |
|              | NG CONT   |                                     |  |                          | PROJECT #:     | <u> </u>      | SCREEN SIZE:     |                   |                      |  |  |  |
| Casca        | ade Drill | ing, LP                             |  |                          | 65602          |               |                  | 0.010-Inch Slot   |                      |  |  |  |
| RILLI        | NG EQUIF  | MENT:                               |  |                          | DATE:          |               | SCREEN INTERVAL: |                   |                      |  |  |  |
| ruck         | Mounte    | ed Rig - CME                        | - 75   |                          | 5/2/2018       |               |                  | 15'-5" bgs        |                      |  |  |  |
| RILLI        | NG METH   | OD:                                 |  |                          | GROUND SUF     | RFACE ELEV. F | FILTER PACK:     |                   |                      |  |  |  |
| lollo        | w-Stem    | Auger                               |  |                          |                |               | 2-12 Monter      | ey Sand           |                      |  |  |  |
|              | ED BY:    |                                     | BOREHOLE SIZE:   |                          | TOTAL DEPTI    | H:            |                  | FILTER PACK I     | NTERVAL:             |  |  |  |
|              | Fadden    |                                     | 8-Inch   |                          | 15' bgs        |               |                  | 15'-5" bgs        |                      |  |  |  |
| Depth (feet) | NSCS      | USCS name; 0<br>Plasticity; Dilater | escription<br>Color; Moisture; Density;<br>ncy; EPI description; Other | Interval &<br>% Recovery | Blows per 6"   | Sample        | PID (ppm)        | Well Construction |                      |  |  |  |
| 0            |           | Gravel Surface                      |  |                          |                |               |                  |                   |                      |  |  |  |
|              |           |                                     |  |                          |                |               |                  |                   | Temporary<br>Well    |  |  |  |
| 5 -          |           |                                     | ITH GRAVEL; brown; moist;<br>ium sand with minor silt and              |                          |                | T-7:5         | 0                |                   | 2-PVC Casir          |  |  |  |
| _            | SM        | minor gravel; no                    | odor   | 100                      | 13-13-15       |               |                  |                   | 2-12 Montere<br>Sand |  |  |  |
| 0 -          | ML        | SANDY SILT; b<br>mostly silt with s | rown; moist and wet at 11';<br>some fine sand; no odor                 | 100                      | 9-13-12        | T-7:10        | 0                |                   |                      |  |  |  |
| _            |           |                                     |  |                          |                |               |                  |                   | 0.010-Inch           |  |  |  |
|              | ML        |                                     | ITH GRAVEL; gray; moist;<br>ninor fine sand; no odor                   |                          |                |               |                  |                   | Slot Screer          |  |  |  |
| 15 -         |           | Er                                  | d of Borehole  | 100                      | 21-23-23       | T-7:15        | 0                |                   |                      |  |  |  |
| -            |           |                                     |  |                          |                |               |                  |                   |                      |  |  |  |
| 20<br>NOT    |           | GW collected                        | from temporary well scr  | reen, k                  | poring decom   | nmissioned fo | llowing (        | groundwater sa    | ample                |  |  |  |

| P               |                            | IRONMENTAL<br>TNERSINC   |                          | BORING ID: T-8       |                |           |                                 |  |  |  |  |
|-----------------|----------------------------|--|--------------------------|----------------------|----------------|-----------|---------------------------------|--|--|--|--|
| SITE A          | DDRESS                     |  |                          | CLIENT:              |                |           |                                 |  |  |  |  |
| 1120            | John St                    | , Seattle, Wa  |                          | Onni Grou            | р              |           |                                 |  |  |  |  |
|                 | ING CONT                   |  |                          | PROJECT #:           | -              |           |                                 |  |  |  |  |
| Casc            | ade Drill                  | ing, LP  |                          | 65602                |                |           |                                 |  |  |  |  |
|                 | ING EQUIF                  |  |                          | DATE:                |                |           |                                 |  |  |  |  |
|                 |                            | ed Rig - CME - 75  |                          | 5/20/2018            |                |           |                                 |  |  |  |  |
|                 | ING METH                   |  |                          | GROUND SU            | RFACE ELEV. FT | AMSL:     | DECOMMISSIONING MATERIAL:       |  |  |  |  |
|                 | w-Stem                     | Auger  |                          |                      |                |           | Hydrated Bentonite              |  |  |  |  |
| 1               | ED BY:<br><b>nsperge</b> l | r PG   |                          | TOTAL DEPT<br>9' bgs | H:             |           | BOREHOLE SIZE:<br><b>8-Inch</b> |  |  |  |  |
|                 | lisperge                   |  | <u>ح ک</u>               | o byo                |                | <u> </u>  |                                 |  |  |  |  |
| Depth (feet)    | uscs                       | Description<br>USCS name; Color; Moisture; Density;<br>Plasticity; Dilatency; EPI description; Other                               | Interval &<br>% Recovery | Blows per 6"         | Sample         | PID (ppm) | Comments                        |  |  |  |  |
| 0               | SP                         | Asphalt Surface<br>POORLY-GRADED SAND; light olive brown;<br>dry; very dense; mostly fine sand with trace silt<br>and trace gravel | -                        |                      |                |           |                                 |  |  |  |  |
| 5 -             | SP                         | Color change to light gray; dry; very dense;<br>odor<br>Concrete Debris from 6'-9'   | 100                      | 25-50/6"             | T-8:5          | 138.5     |                                 |  |  |  |  |
|                 |                            | Refusal at 9' bgs  |                          |                      |                |           |                                 |  |  |  |  |
| 25 -<br>-<br>30 |                            |  |                          |                      |                |           |                                 |  |  |  |  |
| NO              | TES:                       |  |                          |                      |                |           |                                 |  |  |  |  |

| TE A         | DDRESS          |  |                          | CLIENT:  |          |                    |          |  |  |  |  |
|--------------|-----------------|--|--------------------------|--|----------|--------------------|----------|--|--|--|--|
| 120          | John St         | , Seattle, Wa  |                          | Onni Group   |          |                    |          |  |  |  |  |
|              |                 |  |                          | PROJECT #:<br>65602<br>DATE:<br>10/27/2018<br>GROUND SURFACE ELEV. FT AMSL: DECOMMISSIONING MATERIAL |          |                    |          |  |  |  |  |
| asca         | ade Drill       | ing, LP  |                          |  |          |                    |          |  |  |  |  |
|              | NG EQUIP        |  |                          |  |          |                    |          |  |  |  |  |
| ruck         | Mounte          | ed Rig - CME - 75  |                          |  |          |                    |          |  |  |  |  |
| RILLI        | NG METH         | OD:  |                          |  |          |                    |          |  |  |  |  |
| ollo         | w-Stem          | Auger  |                          | Not Measur   | red      | Hydrated Bentonite |          |  |  |  |  |
|              | ED BY:          | 5  |                          | TOTAL DEPTH  | 1:       | BOREHOLE SIZE:     |          |  |  |  |  |
| . Mc         | Fadden          |  |                          | 25' bgs  |          |                    | 8-Inch   |  |  |  |  |
| Depth (feet) | USCS            | Description<br>USCS name; Color; Moisture; Density;  |                          | Blows per 6"   | Sample   | PID (ppm)          | Comments |  |  |  |  |
|              | ns              | Plasticity; Dilatency; EPI description; Other  | Interval &<br>% Recovery |  | Sample   | DID                | Comments |  |  |  |  |
| 0            |                 | Asphalt Surface  |                          |  |          |                    |          |  |  |  |  |
| _            |                 |  |                          |  |          |                    |          |  |  |  |  |
| 5-           | •••••           | WELL-GRADED SAND WITH GRAVEL; gray;  | 66                       | 20-20  |          | 4.6                |          |  |  |  |  |
| _            | ∘ ∘<br>sw       | dry; mostly fine-coarse sand with some gravel;<br>no odor; metal fragment encountered  | 00                       | 20-20  |          | 3.7                |          |  |  |  |  |
| 10           | ••••            |  |                          |  |          |                    |          |  |  |  |  |
| 10-          | °sw             | WELL-GRADED SAND WITH GRAVEL; gray;<br>dry; mostly fine-coarse sand with some gravel;<br>no odor; rebar encountered in split spoon | 33                       | 15-15-15   |          | 0.8<br>1.6         |          |  |  |  |  |
| _            |                 | SANDY SILT; gray; damp; medium plasticity;<br>mostly silt with minor fine sand and few gravel;<br>no odor                          |                          |  |          |                    |          |  |  |  |  |
| 15-          | ML              |  | 15                       | 15-20-25   | T-9:15.5 | 0.9<br>1.2         |          |  |  |  |  |
| _            | · · · · ·       | WELL-GRADED SAND WITH GRAVEL; gray;<br>wet; mostly fine-coarse sand with some gravel;<br>no odor                                   |                          |  |          |                    |          |  |  |  |  |
| 20-          | • <b>SW</b> , • |  | 100                      | 14-25-30   | T-9:20   | 0.0                |          |  |  |  |  |
| _            |                 | SANDY SILT; gray; moist; mostly silt with<br>minor fine sand ; water zone in upper 2/3 of<br>split spoon; no odor                  |                          |  |          | 0.0                |          |  |  |  |  |
| 25-          | SM              | SILTY SAND WITH GRAVEL; gray; moist;<br>mostly sand with minor silt and minor gravel;<br>no odor End of Borehole                   | 100                      | 20-22-30   | T-9:25   | 0.0                |          |  |  |  |  |
| 30-          |                 |  |                          |  |          |                    |          |  |  |  |  |
| _            |                 |  |                          |  |          |                    |          |  |  |  |  |
| 35-          |                 |  |                          |  |          |                    |          |  |  |  |  |
| _            |                 |  |                          |  |          |                    |          |  |  |  |  |
| 40           |                 |  |                          |  |          |                    |          |  |  |  |  |

| epi            | PAR      | IRONMENTAL<br>TNERSINC   |                          | BORING ID: T-10   |         |                          |                                   |  |  |  |  |
|----------------|----------|--|--------------------------|---|---------|--------------------------|-----------------------------------|--|--|--|--|
| ITE AI         | DDRESS   |  |                          | CLIENT:   |         |                          |                                   |  |  |  |  |
| 120 .          | John St  | , Seattle, Wa  |                          | Onni Group  | )       |                          |                                   |  |  |  |  |
| RILLI          | NG CONT  | RACTOR:  |                          | PROJECT #:<br>65602<br>DATE:<br>10/27/2018<br>GROUND SURFACE ELEV. FT AMSL: DECOMMISSIONING MATERIAL: |         |                          |                                   |  |  |  |  |
|                |          | ling, LP   |                          |   |         |                          |                                   |  |  |  |  |
|                | NG EQUIF |  |                          |   |         |                          |                                   |  |  |  |  |
|                |          | ed Rig - CME - 75  |                          |   |         |                          |                                   |  |  |  |  |
|                | NG METH  |  |                          |   |         | DECOMMISSIONING MATERIAL |                                   |  |  |  |  |
| 10110\<br>OGGE | N-Stem   | Auger  |                          | Not Measur  |         |                          | Hydrated Bentonite BOREHOLE SIZE: |  |  |  |  |
|                | Fadden   |  |                          | 35' bgs   |         |                          | 8-Inch                            |  |  |  |  |
| Depth (feet)   | USCS     | Description<br>USCS name; Color; Moisture; Density;<br>Plasticity; Dilatency; EPI description; Other                         | Interval &<br>% Recovery | Blows per 6"  | Sample  | PID (ppm)                | Comments                          |  |  |  |  |
| 0              |          | Asphalt Surface  |                          |   |         |                          |                                   |  |  |  |  |
| 5-             |          |  |                          |   |         | 0.0                      |                                   |  |  |  |  |
| _              | SM       | SILTY SAND WITH GRAVEL; brown; damp;<br>mostly medium sand with minor silt and minor<br>gravel; no odor                      | 100                      | 12-19-20  |         |                          |                                   |  |  |  |  |
| 10-            | SM       | SILTY SAND WITH GRAVEL; brown; damp;<br>mostly medium sand with minor silt and minor<br>gravel; no odor                      | 80                       | 26-50/6"  | T-10:10 | 0.0                      |                                   |  |  |  |  |
| -<br>15-       |          | SANDY SILT WITH GRAVEL; brown; damp;<br>slight increase in moisture; mostly silt with<br>some sand and minor gravel; no odor |                          |   | T-10:15 | 0.0                      |                                   |  |  |  |  |
| _              |          | POORLY-GRADED SAND WITH GRAVEL;  | 100                      | 6-8-10  |         |                          |                                   |  |  |  |  |
| 20-            | SP       | brown; damp; mostly medium sand with some<br>gravel; few silt in bottom 3 inches of split<br>spoon; no odor                  |                          |   | T-10:20 | 0.0                      |                                   |  |  |  |  |
| _              |          |  | 80                       | 20-50/6"  |         |                          |                                   |  |  |  |  |
| 25-            |          | No recovery; dry sampler   |                          |   |         |                          |                                   |  |  |  |  |
| 20-            |          |  | 0                        | 50/6"   |         |                          |                                   |  |  |  |  |
| -              |          | SANDY SILT WITH GRAVEL; gray; dry; mostly silt with minor gravel; no odor  |                          |   |         |                          |                                   |  |  |  |  |
| 30-            |          |  | 75                       | 20-50/6"  | T-10:30 | 0.0                      |                                   |  |  |  |  |
| -<br>35-       | SM       | SILTY SAND WITH GRAVEL; brown; dry;<br>mostly fine-medium sand with minor silt and<br>minor gravel; no odor                  |                          |   | T-30:35 | 0.0                      |                                   |  |  |  |  |
| _              |          | End of Borehole  | 1                        |   |         |                          |                                   |  |  |  |  |
| 40             |          |  |                          |   |         |                          |                                   |  |  |  |  |

| P A R T N E R S I     P A R T N E R S I     Client: Onni Group     Site Address: 1120 Joh     Date of Drilling: July 19     Logged by: E. Caddey,      (1)     Abology     So     So     So     Conc | nn Street, Seattle WA<br>9, 2012<br>L.G.<br>Description<br>Ground Surface   | Drill<br>Bor | l Method<br>ehole Si<br>ommiss | Boring<br>tractor: Cascade D<br>I: CME-75 HSA<br>ze: 10"<br>ioning Method: Hy | rilling | Itonite chip | <u>)5</u>                          |
|--|---|--------------|--------------------------------|---|---------|--------------|------------------------------------|
| 0  | Ground Surface  | Interval     | Counts                         |   |         |              |                                    |
|  |   |              | Blow                           | Sample  | PID     | Sheen        | Comments                           |
|  |   |              |                                |   |         |              |                                    |
| - Brown  | rete<br>y-graded Sand with Gravel<br>n; damp; mostly medium sand<br>ew gravel   | _            |                                |   | 0.2     |              | No petro odor or staining observed |
| Becor  | nes very dense  |              | 10<br>20<br>30                 |   | 0.0     |              |                                    |
| 8-10-10-10-10-10-10-10-10-10-10-10-10-10-  |   |              | 10<br>50-6                     | U-1:10  | 26      | no           |                                    |
| 12 SW-<br>SC score<br>Gray;<br>SC SC SC SC<br>SC SC SC SC<br>SC SC S  | Sand with Gravel<br>moist to wet; very dense;<br>y fine to coarse sand with<br>silt and minor gravel<br>graded Sand with Clay<br>damp; very dense; mostly<br>o coarse sand with some clay |              |                                |   |         |              |                                    |
| 16   |   |              | 36<br>50-6                     | U-1:15  | 0.8     |              |                                    |
| Brown  | <b>y-graded Sand with Gravel</b><br>n; damp; very dense; mostly<br>and with few gravel  |              | 50-6                           |   | 0.2     | no           |                                    |
| Project #: 65602.0   |   |              | 1 of 1                         |   | by: KLA |              | necked by: EK                      |

| PARTNER:  | MENTAL<br>SINC   |   |          |                        | Boring           | : U-2                    |       |                                       |  |
|---|--|---|----------|------------------------|------------------|--------------------------|-------|---------------------------------------|--|
| Client: Onni Group  | John Street, Seattle WA<br>y 19, 2012  | Drilling Contractor: Cascade Drilling<br>Drill Method: CME-75 HSA<br>Borehole Size: 10"<br>Decommissioning Method: Hydrated bentonite chips |          |                        |                  |                          |       |                                       |  |
| Depth (ft)<br>Lithology<br>USCS   | Description  |   | Recovery | Blow Counts            | Sample           | PID                      | Sheen | Comments                              |  |
| 4<br>4<br>5<br>5<br>8<br>6<br>6<br>6<br>6<br>6<br>6<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10 | Ground Surface         poncrete         poncrete         pown; damp; mostly medium sand         pown; damp; wery dense         pown; damp; very dense;         postly fine to coarse sand with         me silt and minor gravel         ell-graded Sand with Clay         ay; damp; very dense; mostly         e to coarse sand with minor clay         d few gravel |   |          | 12<br>16<br>16<br>50-6 | U-2:10<br>U-2:15 | 0.2<br>1.6<br>2.3<br>2.3 | no    | No petro odor or<br>staining observed |  |
| 20-   |  |   |          | 70-6                   |                  | 2.1                      | no    |                                       |  |
| <b>Project #:</b> 65602.0   | S  | Sheet   | : 1      | of 1                   | Drawn            | by: KLA                  | Cł    | necked by: EK                         |  |

| P                                       |                          | VIR<br>RTN                   | O N M E N T A L<br>E R S I N C  |           |               |                   | Boring  | : U-6         |              |                                    |
|---|--------------------------|------------------------------|---|-----------|---------------|-------------------|---|---------------|--------------|------------------------------------|
| Clier<br>Site<br>Date                   | nt: Or<br>Addr<br>e of D | nni Gro<br>ess: 1<br>rilling | oup<br>120 John Street, Seattle WA<br>: July 26, 2012   | Dri<br>Bo | ill I<br>orel | Method<br>hole Si | <i>tractor:</i> Cascade D<br>: Limited access HS<br>ze: 8.25" | rilling<br>SA |              |                                    |
| Log                                     | gea b                    | <i>y:</i>                    | Caddey, L.G.  |           | co            |                   | ioning Method: Hyd  | brated ben    | itonite chip | DS                                 |
| Depth (ft)                              | Lithology                | SOSU                         | Description   | Interval  | Recovery      | Blow Counts       | Sample  | PID           | Sheen        | Comments                           |
| 0-                                      | ~~~                      |                              | Ground Surface  |           |               |                   |   |               |              |                                    |
| 2                                       | ***                      | SP                           | Concrete<br>Poorly-graded Sand with Gravel<br>Brown; damp; mostly medium sand<br>with few gravel          | -         |               |                   |   |               |              | No petro odor or staining observed |
| 4                                       |                          |                              |   |           |               | 25                |   |               |              |                                    |
| 6                                       |                          |                              | Becomes very dense  |           |               | 50-6              |   | 0.0           |              |                                    |
| 8-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1 |                          |                              |   |           |               | 25                |   |               | no           |                                    |
| 12                                      |                          |                              |   |           |               | 20<br>50-6        | U-6:10  | 0.2           |              |                                    |
| 14                                      |                          |                              | 8" of perched water   |           |               |                   | U-6:6W  |               |              |                                    |
| 16                                      |                          | SW-<br>SC                    | <i>Well-graded Sand with Clay</i><br>Gray; damp; very dense; mostly<br>fine to coarse sand with some clay |           |               | 50-6              | U-6:15  | 0.3           |              |                                    |
| 18-                                     |                          |                              |   |           |               | 50-6              | U-6:20  | 0.0           | no           |                                    |
|   | 21/1                     |                              |   |           |               | 0-00              | 0-0.20  | 0.0           |              |                                    |
| Broid                                   | ect #• 4                 | 65602                        | 0   | Shee      |               | of 1              | Drawn   | by: KLA       | <br>CH       | necked by: EK                      |

|                         | NVIR<br>RTN         | O N M E N T A L<br>E R S I N C  | Boring: U-7   |          |                |        |     |       |                                       |  |  |
|-------------------------|---------------------|---|---|----------|----------------|--------|-----|-------|---------------------------------------|--|--|
| Date of D               | ress: 1<br>Drilling | 120 John Street<br><i>:</i> July 26, 2012   | Drilling Contractor: Cascade Drilling<br>Drill Method: Limited access HSA<br>Borehole Size: 8.25" |          |                |        |     |       |                                       |  |  |
| logged b                | ру: Е. (            | Caddey, L.G.  | Decommissioning Method: Hydrated bentonite chips  |          |                |        |     |       |                                       |  |  |
| Depth (ft)<br>Lithology | NSCS                | Description   | Interval  | Recovery | Blow Counts    | Sample | PID | Sheen | Comments                              |  |  |
| 0                       |                     | Ground Surface  |   |          |                |        |     |       |                                       |  |  |
| 2                       | SP                  | Concrete<br>Poorly-graded Sand with Gravel<br>Brown; damp; mostly medium sand<br>with few gravel          | -   |          | 15             |        |     |       | No petro odor or<br>staining observed |  |  |
| 8                       |                     |   |   |          | 15<br>15<br>24 |        | 0.0 |       |                                       |  |  |
| 2                       |                     |   |   |          | 44<br>50-6     | U-7:10 | 0.0 | no    |                                       |  |  |
| 6                       | SW-<br>SC           | <i>Well-graded Sand with Clay</i><br>Gray; damp; very dense; mostly<br>fine to coarse sand with some clay |   |          | 50-6           | U-7:15 | 0.0 |       |                                       |  |  |
| 0                       |                     |   |   |          | 50-6           | U-7:20 | 0.0 | no    |                                       |  |  |
| Project #:              | •                   |   | Sheet   |          |                | Drawn  |     |       |                                       |  |  |

|                                 | O N M E N T A L<br>I E R S I N C  |           |               |                   | Boring   | : U-8         |              |                                       |
|---------------------------------|---|-----------|---------------|-------------------|--|---------------|--------------|---------------------------------------|
| <i>Client:</i> Onni Gr          | oup<br>1120 John Street<br><b>j:</b> July 26, 2012  | Dri<br>Bo | ill N<br>oreh | Method<br>nole Si | <i>tractor:</i> Cascade D<br>/: Limited Access HS<br>ze: 8.25" | rilling<br>SA | itanita ahir | oc.                                   |
|                                 |   |           | 201           |                   | <i>ioning Method:</i> Hydrated be                              |               |              |                                       |
| Depth (ft)<br>Lithology<br>USCS | Description   | Interval  | Recovery      | Blow Counts       | Sample   | PID           | Sheen        | Comments                              |
| 0                               | Ground Surface  | _         |               |                   |  |               |              |                                       |
| 2 SP                            | Concrete<br>Poorly-graded Sand with Gravel<br>Brown; damp; mostly medium sand<br>with few gravel                      | -         |               | 50-6              |  | 0.0           |              | No petro odor or<br>staining observed |
| 10                              |   |           |               | 9<br>25<br>50-6   | U-8:10   | 0.0           |              |                                       |
| 14 SW-<br>SC<br>16 18           | Well-graded Sand with Clay<br>Gray; damp; very dense; mostly<br>fine to coarse sand with minor clay<br>and few gravel |           |               | 50-6              | U-8:15   | 0.6           |              |                                       |
| 20                              |   |           |               | 50-6              | U-8:20   | 0.3           |              |                                       |
| Project #: 65602                | 2.0   | Shee      | et: 1         | of 1              | Drawn  | by: KLA       | Ch           | ecked by: EK                          |

| P                    |                            | VIR<br>RTN                                  | O N M E N T A L<br>E R S I N C  |   |             | <b>Boring:</b> | U-9 |       |                                       |  |  |  |
|----------------------|----------------------------|---|---|---|-------------|----------------|-----|-------|---------------------------------------|--|--|--|
| Clie<br>Site<br>Date | nt: On<br>Addro<br>e of Di | ni Gro<br>e <b>ss:</b> 1<br>r <i>illing</i> | oup<br>120 John Street<br><i>:</i> July 26, 2012  | Drilling Contractor: Cascade Drilling<br>Drill Method: CME-75 HSA<br>Borehole Size: 8.25" |             |                |     |       |                                       |  |  |  |
| Log                  | ged b                      | у: Е. (                                     | Caddey, L.G.  | Decommissioning Method: Hydrated bentonite chips  |             |                |     |       |                                       |  |  |  |
| Depth (ft)           | Lithology                  | NSCS  | Description   | Interval<br>Recoverv  | Blow Counts | Sample         | PID | Sheen | Comments                              |  |  |  |
| 0-                   | ××××                       |   | Ground Surface  |   |             |                |     |       |                                       |  |  |  |
| 2                    |                            | SP  | Concrete<br>Poorly-graded Sand with Gravel<br>Brown; damp; mostly medium sand<br>with few gravel          | _   |             |                |     |       | No petro odor or<br>staining observed |  |  |  |
| 6                    |                            |   |   |   | 25<br>50-6  |                | 0.1 |       |                                       |  |  |  |
| 0<br>                |                            |   |   |   | 17<br>50-6  |                | 0.0 |       |                                       |  |  |  |
| 4<br>6<br>8          |                            | SW-<br>SC                                   | <i>Well-graded Sand with Clay</i><br>Gray; damp; very dense; mostly<br>fine to coarse sand with some clay |   | 50-6        |                | 0.1 |       |                                       |  |  |  |
| -                    |                            |   |   |   |             |                | 0.2 |       |                                       |  |  |  |
|                      | oot #: (                   | 5602  | 0   | Sheet:  | 1 of 1      | Drawn by       |     | Ch    | ecked by: EK                          |  |  |  |

| epi          | PAR                     | IRONM<br>TNERS                    |   |                          | BORING ID: U-10         |                |                                 |                                  |                           |  |  |  |
|--------------|-------------------------|-----------------------------------|---|--------------------------|-------------------------|----------------|---------------------------------|----------------------------------|---------------------------|--|--|--|
| ITE A        | DDRESS                  |                                   |   |                          | CLIENT:                 |                |                                 | CASING MAT                       | ERIAL AND SIZE:           |  |  |  |
| 120          | John St,                | Seattle, Wa                       |   |                          | Onni Grou               | р              |                                 | Temporary                        | / 2-Inch PVC              |  |  |  |
| RILLI        | NG CONT                 | RACTOR:                           |   |                          | PROJECT #:              |                | SCREEN SIZE:<br>0.010-Inch Slot |                                  |                           |  |  |  |
|              | ade Drill               |                                   |   |                          | 65602                   |                |                                 |                                  |                           |  |  |  |
| RILLI        | NG EQUIP                | MENT:                             |   |                          | DATE:                   |                | SCREEN INTERVAL:                |                                  |                           |  |  |  |
|              |                         | ed Rig - CME                      | - 75  |                          | 5/13/2018               |                | 20'-10" bgs                     |                                  |                           |  |  |  |
|              | NG METH                 |                                   |   |                          | GROUND SUI              | RFACE ELEV. F1 | FILTER PACK:                    |                                  |                           |  |  |  |
|              | w-Stem                  | Auger                             |   |                          | TOTAL DEDT              |                | 2-12 Monte                      |                                  |                           |  |  |  |
|              | ED BY:<br><b>Fadden</b> |                                   | BOREHOLE SIZE:<br>8-Inch  |                          | TOTAL DEPTH:<br>20' bgs |                |                                 | FILTER PACK INTERVAL:            |                           |  |  |  |
| Depth (feet) | USCS                    | USCS name; (                      | escription<br>Color; Moisture; Density;                               | Interval &<br>% Recovery | Blows per 6"            | Sample         |                                 | 20'-10" bgs<br>Well Construction |                           |  |  |  |
| Dep          |                         | Plasticity; Dilate                | asticity; Dilatency; EPI description; Other                           |                          |                         |                | L II                            |                                  |                           |  |  |  |
| 0            |                         | Asphalt Surface                   |   |                          |                         |                |                                 |                                  | Temporary<br>Well         |  |  |  |
| -            | -                       |                                   |   |                          |                         |                |                                 |                                  | 2-PVC Casin               |  |  |  |
| 5 -          |                         | SANDY SILT W                      | ITH GRAVEL; gray; damp;   |                          |                         | U-10:5         | 0                               |                                  | 2-FVC Casin               |  |  |  |
|              |                         | medium plastici<br>sand and minor | ty; mostly silt with minor fine<br>gravel; no odor                    | 100                      | 8-9-09                  |                |                                 |                                  |                           |  |  |  |
| 0 -          | ML.                     | POORLY-GRAI                       | DED SAND WITH SILT; gray;   | 100                      | 10-13-13                | U-10:10        | 0                               |                                  |                           |  |  |  |
| -            |                         | moist; mostly fir                 | ne sand with few silt; no odor  |                          |                         |                |                                 |                                  | 2-12 Montere<br>Sand      |  |  |  |
| 5 -          | SP-SM                   |                                   |   | 33                       | 50/6"                   |                | 0                               |                                  |                           |  |  |  |
| -            |                         |                                   |   |                          |                         |                |                                 |                                  | 0.010-Inch<br>Slot Screen |  |  |  |
| 20 -         | SM                      |                                   | ITH GRAVEL; gray; wet   | 66                       | 80/6"                   | U-10:20        | 0                               |                                  |                           |  |  |  |
| -            |                         | mostly silt with r                | ITH GRAVEL; gray; dry;<br>minor fine sand and minor<br>nd of Borehole |                          |                         |                |                                 |                                  |                           |  |  |  |
| 25 -         | -                       |                                   |   |                          |                         |                |                                 |                                  |                           |  |  |  |
|              |                         |                                   |   |                          |                         |                |                                 |                                  |                           |  |  |  |
| -            |                         |                                   |   |                          |                         |                |                                 |                                  |                           |  |  |  |
| 30           |                         |                                   |   |                          |                         |                |                                 |                                  |                           |  |  |  |

| edi            | PAR                                  | VIRONM<br>RTNERS                                      | INC  |                          | BORING ID: U-11 |                |                       |                      |                           |  |  |  |
|----------------|--------------------------------------|---|--|--------------------------|-----------------|----------------|-----------------------|----------------------|---------------------------|--|--|--|
| SITE AI        | DDRESS                               |   |  |                          | CLIENT:         |                |                       | CASING MATER         | IAL AND SIZE:             |  |  |  |
| 120 、          | John St                              | , Seattle, Wa   |  |                          | Onni Grou       | р              |                       | Temporary 2-Inch PVC |                           |  |  |  |
|                |                                      | RACTOR:   |  |                          | PROJECT #:      | -              |                       | SCREEN SIZE:         |                           |  |  |  |
| Casca          | ade Dril                             | ling, LP  |  |                          | 65602           |                | 0.010-Inch Slot       |                      |                           |  |  |  |
| RILLI          | NG EQUIF                             | PMENT:  |  |                          | DATE:           |                | SCREEN INTER          | SCREEN INTERVAL:     |                           |  |  |  |
| ruck           | Mount                                | ed Rig - CME ·  | - 75   |                          | 5/13/2018       |                | 25'-15' bgs           |                      |                           |  |  |  |
| RILLI          | NG METH                              | OD:   |  |                          | GROUND SU       | RFACE ELEV. F1 | FILTER PACK:          |                      |                           |  |  |  |
|                | w-Stem                               | Auger   | 1  |                          |                 |                |                       | 2-12 Montere         | -                         |  |  |  |
|                | ED BY:<br>Fadden                     |   | BOREHOLE SIZE:<br>8-Inch   |                          | TOTAL DEPT      | H:             | FILTER PACK INTERVAL: |                      |                           |  |  |  |
|                | rauuen                               |   | 0-111C11   | _ <u>&gt;</u>            | 25' bgs         |                |                       | 25'-15' bgs          |                           |  |  |  |
| Depth (feet)   | ວິບSCS name;<br>⊃ Plasticity; Dilate |   | escription<br>Color; Moisture; Density;<br>ncy; EPI description; Other | Interval &<br>% Recovery | Blows per 6"    | Sample         | PID (ppm)             | Well Co              | nstruction                |  |  |  |
| 0              |                                      | Asphalt Surface                                       |  |                          |                 |                |                       |                      | Temporary<br>Well         |  |  |  |
| 5 -            |                                      | Concrete  |  |                          |                 |                |                       |                      | 2-PVC Casing              |  |  |  |
| -<br>10 -      |                                      | SANDY SILT W<br>mostly silt with r<br>gravel; no odor | ITH GRAVEL; gray; damp;<br>ninor fine sand and minor                   | 100                      | 8-12-15         | U-11:10        | 0                     |                      |                           |  |  |  |
| - 5            | ML                                   | Increased moist                                       | ure to moist   | 100                      | 18-20-20        | U-11:15        | 0                     |                      | 2-12 Montere              |  |  |  |
| - 20 -         | I ML                                 | Moist with petro                                      | eum odor   | 100                      | 19-21-23        | U-11:20        | 17                    |                      | Sand                      |  |  |  |
| -<br>25 -      | ML                                   | Wet; no odor<br>En                                    | d of Borehole  | 100                      | 21-50/6"        | U-11:25        | 0                     |                      | 0.010-Inch<br>Slot Screen |  |  |  |
| -<br>30<br>NOT | ES: 11-                              |   | d of Borehole<br>d from temporary well s                               |                          |                 | mmissioned     |                       |                      |                           |  |  |  |

| <u>epi</u>   | PAR                     | IRONM<br>TNERS                                      |  |                          | BORING ID: U-12 |               |                  |                   |                           |  |  |  |
|--------------|-------------------------|---|--|--------------------------|-----------------|---------------|------------------|-------------------|---------------------------|--|--|--|
| SITE A       | DDRESS                  |   |  |                          | CLIENT:         |               |                  | CASING MATE       | RIAL AND SIZE:            |  |  |  |
| 120          | John St                 | , Seattle, Wa                                       |  |                          | Onni Grou       | р             |                  | Temporary         | 2-Inch PVC                |  |  |  |
| RILLI        | ING CONT                | RACTOR:   |  |                          | PROJECT #:      |               |                  | SCREEN SIZE:      |                           |  |  |  |
| Casc         | ade Drill               | ing, LP   |  |                          | 65602           |               | 0.010-Inch Slot  |                   |                           |  |  |  |
| RILLI        | ING EQUIP               | MENT:   |  |                          | DATE:           |               | SCREEN INTERVAL: |                   |                           |  |  |  |
|              |                         | ed Rig - CME  | - 75   |                          | 5/13/2018       |               | 25'-15' bgs      |                   |                           |  |  |  |
|              | ING METH                |   |  |                          | GROUND SUI      | RFACE ELEV. F | T AMSL:          | FILTER PACK:      |                           |  |  |  |
|              | w-Stem                  | Auger   |  |                          |                 |               |                  | 2-12 Monter       | -                         |  |  |  |
|              | ED BY:<br><b>Fadden</b> |   | BOREHOLE SIZE:<br>8-Inch   |                          | TOTAL DEPT      | H:            |                  | FILTER PACK       | NTERVAL:                  |  |  |  |
|              |                         |   | 4  | åry                      |                 |               | Ê                | 20 10 590         |                           |  |  |  |
| Depth (feet) | nscs                    | USCS name; 0<br>Plasticity; Dilate                  | escription<br>Color; Moisture; Density;<br>ncy; EPI description; Other | Interval &<br>% Recovery | Blows per 6"    | Sample        | PID (ppm)        | Well Construction |                           |  |  |  |
| 0            |                         | Asphalt Surface                                     |  |                          |                 |               |                  |                   | Temporary<br>Well         |  |  |  |
| -            |                         |   |  |                          |                 |               |                  |                   |                           |  |  |  |
| F            |                         |   |  |                          |                 |               |                  |                   | 2-PVC Casing              |  |  |  |
| 5 -          |                         | Concrete rubble                                     | and silt; no odor  | 66                       | 8-8-09          |               | 0                |                   |                           |  |  |  |
| -            | _                       |   |  |                          |                 |               |                  |                   |                           |  |  |  |
| 10 -         | -   ML                  | SANDY SILT W<br>damp; mostly si<br>minor gravel; no | ITH GRAVEL; bluish gray;<br>It with minor fine sand and<br>o odor      | 100                      | 15-21-25        | U-12:10       | 0                |                   |                           |  |  |  |
| 15 -         |                         |   | luish gray; damp; mostly silt<br>sand and trace gravel; no odor        | · 100                    | 19-21-21        | U-12:15       | 0.1              |                   |                           |  |  |  |
| -<br>20 -    | -   ML                  |   | DED SAND; brown; wet; fine<br>g petroleum odor                         | 100                      | 14-16-19        | U-12:20       | 662.4            |                   | 2-12 Monterey<br>Sand     |  |  |  |
| -<br>25 -    | SP                      |   |  |                          |                 | U-12:25       | 0.9              |                   | 0.010-Inch<br>Slot Screen |  |  |  |
| -            |                         | with some fine s                                    | luish gray; damp; mostly silt<br>sand; no odor<br>nd of Borehole       | 100                      | 21-50/6"        |               |                  |                   |                           |  |  |  |
| 30           |                         |   |  |                          |                 |               |                  |                   |                           |  |  |  |

| epi          | PAR       | TNERS                              | ENTAL<br>INC   |                          | BORING       | ID: U-13      |           |               |                           |
|--------------|-----------|------------------------------------|--|--------------------------|--------------|---------------|-----------|---------------|---------------------------|
| SITE A       | DDRESS    |                                    |  |                          | CLIENT:      |               |           | CASING MATE   | RIAL AND SIZE:            |
|              |           | Seattle, Wa                        |  |                          | Onni Grou    | D             |           | Temporary     |                           |
|              | NG CONTI  |                                    |  |                          | PROJECT #:   | <u> </u>      |           | SCREEN SIZE:  |                           |
| Casca        | ade Drill | ing, LP                            |  |                          | 65602        |               |           | 0.010-Inch S  | lot                       |
| RILLI        | NG EQUIP  | MENT:                              |  |                          | DATE:        |               |           | SCREEN INTER  | RVAL:                     |
| <b>Fruck</b> | Mounte    | d Rig - CME                        | - 75   |                          | 5/3/2018     |               |           | 25'-15' bgs   |                           |
| DRILLI       | NG METH   | DD:                                |  |                          | GROUND SUF   | RFACE ELEV. F | T AMSL:   | FILTER PACK:  |                           |
| lollo        | w-Stem    | Auger                              |  |                          |              |               |           | 2-12 Monter   | ey Sand                   |
|              | ED BY:    |                                    | BOREHOLE SIZE:   |                          | TOTAL DEPTI  | H:            |           | FILTER PACK I | NTERVAL:                  |
|              | Fadden    |                                    | 8-Inch   |                          | 25' bgs      |               |           | 25'-15' bgs   |                           |
| Depth (feet) | nscs      | USCS name; (                       | escription<br>Color; Moisture; Density;<br>ncy; EPI description; Other | Interval &<br>% Recovery | Blows per 6" | Sample        | PID (ppm) | Well C        | onstruction               |
| 0            |           | Gravel Surface                     |  |                          |              |               |           |               | Temporary                 |
|              |           | Concrete                           |  | -                        |              |               |           |               | Well                      |
| _            |           |                                    |  |                          |              |               |           |               |                           |
|              |           |                                    |  |                          |              |               |           |               |                           |
|              |           |                                    |  |                          |              |               |           |               | 2-PVC Casing              |
| 5 -          |           |                                    | ITH GRAVEL; brown; damp;   |                          |              | U-13:5        | 0         |               |                           |
|              |           | mostly fine sand                   | I with minor silt and minor  | 100                      | 3-4-06       |               |           |               |                           |
|              |           | gravel; no odor                    |  |                          |              |               |           |               |                           |
| -            | SM        |                                    |  |                          |              |               |           |               |                           |
|              |           |                                    |  |                          |              |               |           |               |                           |
|              |           |                                    |  |                          |              |               |           |               |                           |
| 10 -         |           | SANDY SILT W                       | ITH GRAVEL; brown 10'-10.5'  |                          |              | U-13:10       | 0         |               |                           |
|              |           | then damp; mos<br>minor gravel; no | tly silt with some fine sand and                                       | 100                      | 22-16-23     |               |           |               |                           |
|              |           |                                    |  |                          |              |               |           |               |                           |
| -            | ML        |                                    |  |                          |              |               |           |               |                           |
|              |           |                                    |  |                          |              |               |           |               |                           |
| 15 -         |           |                                    |  |                          |              | U-13:15       | 0         |               |                           |
| 15 -         |           | POORLY-GRAD                        | DED SAND; brown; damp;<br>I with few silt; no odor                     | 100                      | 15-16-16     | 0-13.15       |           |               |                           |
|              |           | moonly mile carre                  |  |                          |              |               |           |               |                           |
| _            |           |                                    |  |                          |              |               |           |               | 2-12 Monterey             |
|              |           |                                    |  |                          |              |               |           |               | Sand                      |
|              |           |                                    |  |                          |              |               |           |               |                           |
| 20 -         | SP        |                                    |  |                          |              | U-13:20       | 0         |               |                           |
|              |           |                                    |  | 100                      | 13-17-23     |               |           |               |                           |
|              |           |                                    |  |                          |              |               |           |               |                           |
| -            |           |                                    |  |                          |              |               |           |               | 0.010-Inch<br>Slot Screen |
|              |           |                                    |  |                          |              |               |           |               |                           |
|              |           |                                    |  |                          |              |               |           |               |                           |
| 25 -         |           | En                                 | d of Borehole  |                          |              |               | 0         |               |                           |
|              |           |                                    |  | 0.5                      | 50/6"        |               |           |               |                           |
|              |           |                                    |  |                          |              |               |           |               |                           |
| -            | 1         |                                    |  |                          |              |               |           |               |                           |
|              |           |                                    |  |                          |              |               |           |               |                           |
| 30           |           |                                    |  |                          |              |               |           |               |                           |

| epi          | PAR         | IRONM<br>TNERS                                      |  |                          | BORING       | ID: U-14       |             |             |                           |
|--------------|-------------|---|--|--------------------------|--------------|----------------|-------------|-------------|---------------------------|
| ITE A        | DDRESS      |   |  |                          | CLIENT:      |                |             | CASING MAT  | ERIAL AND SIZE:           |
| 120          | John St,    | Seattle, Wa   |  |                          | Onni Grou    | р              |             | Temporary   | 2-Inch PVC                |
| RILL         | ING CONTI   | RACTOR:   |  |                          | PROJECT #:   |                | SCREEN SIZE | :           |                           |
| asc          | ade Drill   | ing, LP   |  |                          | 65602        |                |             | 0.010-Inch  | Slot                      |
| RILL         | ING EQUIP   | MENT:   |  |                          | DATE:        |                |             | SCREEN INT  | ERVAL:                    |
| rucl         | k Mounte    | d Rig - CME   | - 75   |                          | 5/3/2018     |                |             | 20'-10" bgs | 6                         |
| RILL         | ING METH    | DD:   |  |                          | GROUND SUF   | RFACE ELEV. F1 | FAMSL:      | FILTER PACK | :                         |
| lollo        | w-Stem      | Auger   |  |                          |              |                |             | 2-12 Monte  | erey Sand                 |
| OGG          | ED BY:      |   | BOREHOLE SIZE:   |                          | TOTAL DEPTI  | H:             |             | FILTER PACK | (INTERVAL:                |
|              | Fadden      |   | 8-Inch   |                          | 20' bgs      |                |             | 20'-10" bgs | 6                         |
| Depth (feet) | USCS        | USCS name: (  | escription<br>Color; Moisture; Density;<br>ncy; EPI description; Other | Interval &<br>% Recovery | Blows per 6" | Sample         | PID (ppm)   | Well        | Construction              |
| 0            |             | Gravel Surface                                      |  |                          |              |                |             |             | Temporary                 |
| ·            | -           |   |  |                          |              |                |             |             | Well 2-PVC Casin          |
| 5            |             | POORLY-GRAD   | DED SAND; brown; dry; mostly   |                          |              | U-14:5         | 0           |             | 2-1 00 04311              |
|              |             | fine sand with tr                                   |  | 100                      | 6-6-04       |                |             |             |                           |
|              | SP          |   |  |                          |              |                |             |             |                           |
| 0            |             | SILTY SAND W<br>moslty fine sand<br>gravel; no odor | ITH GRAVEL; brown; wet;<br>I with some silt and minor                  | 100                      | 12-15-14     | U-14:10        | 0           |             |                           |
|              | - SM        | 9.2.0,  |  |                          |              |                |             |             | 2-12 Montere<br>Sand      |
| 5            | ::::::::::: | SILT; gray; dry;<br>and trace sand;                 | mostly silt with trace gravel no odor                                  | 100                      | 21-22-26     | U-14:15        | 0           |             |                           |
|              | -   ML      |   |  |                          |              |                |             |             | 0.010-Inch<br>Slot Screen |
| 20           |             | Er  | d of Borehole  | 100                      | 23-20-20     | U-14:20        | 0           |             |                           |
| 25           | -           |   |  |                          |              |                |             |             |                           |
| 0            |             |   |  |                          |              |                |             |             |                           |
|              |             |   | ed from temporary well so  |                          | · · · ·      |                |             |             |                           |

|                      | IRONM<br>TNERS                                     |   |                          | BORING       | ID: U-15      |           |               |                           |
|----------------------|--|---|--------------------------|--------------|---------------|-----------|---------------|---------------------------|
| SITE ADDRESS         |  |   |                          | CLIENT:      |               |           | CASING MATE   | RIAL AND SIZE:            |
| 120 John St          | , Seattle, Wa                                      |   |                          | Onni Grou    | р             |           | Temporary     | 2-Inch PVC                |
| RILLING CONT         |  |   |                          | PROJECT #:   | <u> </u>      |           | SCREEN SIZE   |                           |
| Cascade Drill        | ing, LP  |   |                          | 65602        |               |           | 0.010-Inch \$ | Slot                      |
| RILLING EQUIF        | MENT:  |   |                          | DATE:        |               |           | SCREEN INTE   | RVAL:                     |
| ruck Mount           | ed Rig - CME                                       | - 75  |                          | 5/20/2018    |               |           | 25'-15' bgs   |                           |
| RILLING METH         | OD:  |   |                          | GROUND SUF   | RFACE ELEV. F | T AMSL:   | FILTER PACK:  |                           |
|                      | Auger  |   |                          |              |               |           | 2-12 Monte    | rey Sand                  |
| OGGED BY:            |  | BOREHOLE SIZE:  |                          | TOTAL DEPTI  | H:            |           | FILTER PACK   | INTERVAL:                 |
| N. Hinsperge         | r PG   | 8-Inch  |                          | 25' bgs      |               |           | 25'-15' bgs   |                           |
| Depth (feet)<br>USCS | USCS name; (                                       | escription<br>Color; Moisture; Density;<br>ncy; EPI description; Other      | Interval &<br>% Recovery | Blows per 6" | Sample        | PID (ppm) | Well C        | construction              |
| 0                    | Asphalt Surface                                    |   |                          |              |               |           |               | Temporary                 |
| _                    |  |   |                          |              |               |           |               | Well                      |
| 5                    |  |   |                          |              | U-15:5        | 4.4       |               | 2-PVC Casing              |
| 5                    | POORLY-GRAI<br>dry; very dense;<br>and trace mediu | DED SAND; light olive brown;<br>mostly fine sand with trace silt<br>im sand | 33                       | 50/6"        | 0-13.0        | 4.4       |               |                           |
| - SP                 |  |   |                          |              |               |           |               |                           |
| 10 - SM              | SILTY SAND; g<br>mostly fine sand<br>gravel        | rayish brown; wet; very dense;<br>I with minor silt and trace fine          | 100                      | 25-25-25     | U-15:10       | 12.1      |               |                           |
| 15 -                 | Addition of large                                  | e cobbles   | 33                       | 25-27-50/6"  | U-15:15       | 9.4       |               |                           |
| - SM                 |  |   |                          |              |               |           |               | 2-12 Monterey<br>Sand     |
| 20                   | SILT; reddish gr<br>silt with trace fin            | ay; damp; low plasticity; mostly<br>e gravel                                | 100                      | 15-15-20     | U-15:20       | 2.9       |               |                           |
| -    <b>ML</b>       |  |   |                          |              |               |           |               | 0.010-Inch<br>Slot Screen |
| 25         <br>  SP  | POORLY-GRAI<br>dense; trace silt                   | DED SAND; yellow; damp;   | 100                      | 15-15-25     | U-15:25       | 2         |               |                           |
| _                    | Er   | nd of Borehole  |                          |              |               |           |               |                           |
| 30                   |  |   |                          |              |               |           |               |                           |

| QD F          | N V I R O N M E N T A L<br>A R T N E R S I N C   |                          | BORING I     | D: U-16       |           |                          |
|---------------|--|--------------------------|--------------|---------------|-----------|--------------------------|
| SITE ADDRE    | SS   |                          | CLIENT:      |               |           |                          |
| 1120 Johr     | St, Seattle, Wa  |                          | Onni Group   | )             |           |                          |
| ORILLING C    | ONTRACTOR:   |                          | PROJECT #:   |               |           |                          |
| Cascade I     | Drilling, LP   |                          | 65602        |               |           |                          |
| DRILLING E    | QUIPMENT:  |                          | DATE:        |               |           |                          |
| Fruck Mo      | unted Rig - CME - 75   |                          | 5/20/2018    |               |           |                          |
| RILLING M     | ETHOD:   |                          | GROUND SUR   | FACE ELEV. FI | AMSL:     | DECOMMISSIONING MATERIAL |
|               | em Auger   |                          |              |               |           | Hydrated Bentonite       |
| OGGED BY      |  |                          | TOTAL DEPTH  | 1:            |           | BOREHOLE SIZE:           |
| N. Hinspe     | rger PG  |                          | 30' bgs      |               | 1         | 8-Inch                   |
| Depth (feet)  |  | Interval &<br>% Recovery | Blows per 6" | Sample        | PID (ppm) | Comments                 |
| 0             | Asphalt Surface  |                          |              |               |           |                          |
| 5 -           | SILTY SAND; reddish gray; damp; very dense;<br>mostly fine sand with minor silt and trace to<br>coarse gravel              | 100                      | 25-50/6"     | U-16:5        | 3.9       |                          |
| 10 -<br>- SN  | Dry, very dense  | 10                       | 50/6"        | U-16:10       | 3.6       |                          |
| 15 -<br>- si  | Color change to light olive brown  | 33                       | 20-50/6"     | U-16:15       | 9.1       |                          |
| 20            | POORLY-GRADED SAND WITH GRAVEL;<br>light olive brown; dry; very dense; mostly fine<br>sand with some gravel and trace silt | 100                      | 50/6"        | U-16:20       | 3.2       |                          |
| 25 -<br>-     | Addition of large cobbles  | 100                      | 50/6"        | U-16:25       | 0.2       |                          |
| 30 - <b>S</b> | Decreased gravel and color change to reddish   | 100                      | 50-50-50     | U-16:30       | 2         |                          |
| 35            |  |                          |              |               |           |                          |
|               | I  | 1                        | L            |               | 1         | _1                       |

| <b>1120</b><br>Drilli | DDRESS    |  |                          |              |                |           |                          |  |  |  |  |
|-----------------------|-----------|--|--------------------------|--------------|----------------|-----------|--------------------------|--|--|--|--|
| RILLI                 |           |  |                          | CLIENT       |                |           |                          |  |  |  |  |
| RILLI                 | John St   | , Seattle, Wa  |                          | Onni Group   | o              |           |                          |  |  |  |  |
| -                     | NG CONT   | RACTOR:  |                          | PROJECT #:   |                |           |                          |  |  |  |  |
| Jasca                 | ade Drill | ling, LP   |                          | 65602        |                |           |                          |  |  |  |  |
| RILLI                 | NG EQUIF  | -<br>MENT:   |                          | DATE         |                |           |                          |  |  |  |  |
| ruck                  | Mounte    | ed Rig - CME - 75  |                          | 3/16/2019    |                |           |                          |  |  |  |  |
| RILLI                 | NG METH   | OD:  |                          | GROUND SUF   | RFACE ELEV. FT | AMSL:     | DECOMMISSIONING MATERIAL |  |  |  |  |
|                       | w-Stem    | Auger  |                          | Not Measu    |                |           | Hydrated Bentonite       |  |  |  |  |
|                       | ED BY:    |  |                          | TOTAL DEPTH  | 4:             |           | BOREHOLE SIZE:           |  |  |  |  |
|                       | Fadden    | / M. Esparra   |                          | 35' bgs      |                |           | 8-Inch                   |  |  |  |  |
| Depth (feet)          | NSCS      | <b>Description</b><br>USCS name; Color; Moisture; Density;<br>Plasticity; Dilatency; EPI description; Other          | Interval &<br>% Recovery | Blows per 6" | Sample         | PID (ppm) | Comments                 |  |  |  |  |
| 0                     |           | Asphalt Surface  |                          |              |                |           |                          |  |  |  |  |
| _                     |           | SANDY SILT; light brown; damp; low plasticity;<br>mostly silt with some fine sand; no odor                           |                          |              |                |           |                          |  |  |  |  |
| 5-                    | ML        |  | 50                       | 3-3-4        | MW-6:5         | 0.0       |                          |  |  |  |  |
| -<br>10-              |           | POORLY-GRADED GRAVEL WITH SAND;<br>brown; damp; mostly large gravel and cobbles<br>with minor fine sand; no odor     |                          |              | MW-6:10        | 0.0       |                          |  |  |  |  |
| -0                    | GP        |  | 33                       | 50/6"        |                | 0.0       |                          |  |  |  |  |
| 15-                   |           | SANDY SILT WITH GRAVEL; dark bluish gray;<br>damp; low plasticity  |                          |              | MW-6:15        | 0.0       |                          |  |  |  |  |
|                       |           |  | 80                       | 10-12-15     |                |           |                          |  |  |  |  |
|                       |           | SILT; dark bluish gray; dry; silt; no odor   |                          |              |                |           |                          |  |  |  |  |
| 20-                   | ML        |  | 100                      | 10-12-15     | MW-6:20        | 0.0       |                          |  |  |  |  |
| - 25-                 |           | SANDY SILT WITH GRAVEL; dark bluish gray;<br>dry; mostly silt with minor fine sand and minor<br>fine gravel; no odor |                          |              | MW-6:25        | 0.0       |                          |  |  |  |  |
| -                     |           |  | 33                       | 50/6"        |                |           |                          |  |  |  |  |
| 30-                   | ML        | SANDY SILT; dark bluish gray; damp; medium<br>plasticity; mostly silt with minor fine sand; no<br>odor               | 66                       | 25-50/6"     | MW-6:30        | 0.0       |                          |  |  |  |  |
| _                     | ML        | SILT; dark bluish gray; dry; mostly silt with trace fine gravel; no odor   |                          |              |                |           |                          |  |  |  |  |
| 35-                   |           | End of Borehole  | 100                      | 12-20-25     | MW-6:35        | 0.0       |                          |  |  |  |  |
| 40                    |           |  |                          |              |                |           |                          |  |  |  |  |
| -                     |           | water or moisture observed   | <u> </u>                 |              |                | I         |                          |  |  |  |  |

| eл           | ΡΑ       | VIRONMENTAL<br>RTNERS INC  |                          | BORING   | ID: MW-7 |           |  |  |  |  |  |
|--------------|----------|--|--------------------------|--|----------|-----------|--|--|--|--|--|
| SITE A       | DDRESS   |  |                          | CLIENT   |          |           |  |  |  |  |  |
| 1120 、       | John S   | t, Seattle, Wa   |                          | Onni Grou  | р        |           |  |  |  |  |  |
|              |          | TRACTOR:   |                          | PROJECT #:   |          |           |  |  |  |  |  |
|              |          | lling, LP  |                          | 65602  |          |           |  |  |  |  |  |
|              |          |  |                          |  |          |           |  |  |  |  |  |
|              |          | ted Rig - CME - 75   |                          | 3/16/2019 GROUND SURFACE ELEV. FT AMSL: DECOMMISSIONING MATE |          |           |  |  |  |  |  |
|              | NG METH  | Non Auger  |                          | Not Measu  |          | AIVISL:   | DECOMMISSIONING MATERIAL<br>Hydrated Bentonite |  |  |  |  |
|              |          | TAuger   |                          | TOTAL DEPT   |          |           | BOREHOLE SIZE:                                 |  |  |  |  |
|              |          | n / M. Esparra   |                          | 35' bgs  |          | 8-Inch    |  |  |  |  |  |
| Depth (feet) | nscs     | Description<br>USCS name; Color; Moisture; Density;<br>Plasticity; Dilatency; EPI description; Other             | Interval &<br>% Recovery | Blows per 6"   | Sample   | PID (ppm) | Comments                                       |  |  |  |  |
| 0            |          | Asphalt Surface  |                          |  |          |           |  |  |  |  |  |
| _            | SP       | POORLY-GRADED SAND; light brown; dry;<br>fine sand with trace silt; no odor                                      |                          |  |          |           |  |  |  |  |  |
| 5-           | JP       |  | 80                       | 7-10-10  | MW-7:5   | 0.0       |  |  |  |  |  |
| 10-          | ML       | SANDY SILT; dark bluish gray; dry to moist for<br>3" at 10.5'; mostly silt with minor fine sand; no<br>odor      | 100                      | 7-7-10   | MW-7:10  | 0.0       |  |  |  |  |  |
| _            |          | SILT; dark bluish gray; dry; mostly silt with trace fine sand; no odor   |                          | 7-7-10   |          |           |  |  |  |  |  |
| 15-          | ML       | Same as above; trace gravel; no odor   | 100                      | 12-17-25   | MW-7:15  | 0.0       |  |  |  |  |  |
| 20-          | <u> </u> | SANDY SILT; dark bluish gray; damp; mostly<br>silt with minor fine sand and trace gravel; no<br>odor             | 66                       | 20-50/6"   | MW-7:20  | 0.0       |  |  |  |  |  |
| 25-          | ML       | SILT; dark bluish gray; dry; mostly silt with trace fine gravel; no odor   | 100                      | 12-19-20   | MW-7:25  | 0.0       |  |  |  |  |  |
| -<br>30-     | ML       | SANDY SILT WITH GRAVEL; reddish gray;<br>dry; mostly silt with minor fine sand and minor<br>fine gravel; no odor | 30                       | 50/5"  | MW-7:30  | 0.0       |  |  |  |  |  |
| -            | SP       | POORLY-GRADED SAND; reddish gray; dry;<br>mostly fine sand with few fine gravel; no odor                         |                          |  |          |           |  |  |  |  |  |
| 35-          | L        | End of Borehole  | 66                       | 20-50/6"   | MW-7:35  | 0.0       |  |  |  |  |  |
| 40           |          |  |                          |  |          |           |  |  |  |  |  |
| 40           |          |  |                          |  |          |           |  |  |  |  |  |
|              | EQ: N    | o water observed   |                          |  |          |           |  |  |  |  |  |

| <b>QDD</b>   | PAF                                       | VIRONMENTAL<br>RTNERS INC  |                          | BORING        | ID: MW-8        |           |                          |
|--------------|---|--|--------------------------|---------------|-----------------|-----------|--------------------------|
| SITE AD      | DRESS                                     |  |                          | CLIENT        |                 |           |                          |
| 1120 Jo      | ohn St                                    | , Seattle, Wa  |                          | Onni Grou     | р               |           |                          |
|              | ILLING CONTRACTOR:<br>Iscade Drilling, LP |  |                          |               |                 |           |                          |
| Cascad       | de Dril                                   | ling, LP   |                          | 65602         |                 |           |                          |
| ORILLIN      |   |  |                          | DATE          |                 |           |                          |
| Fruck I      | Mounte                                    | ed Rig - CME - 75  |                          | 3/16/2019     |                 |           |                          |
| ORILLIN      |   |  |                          |               | RFACE ELEV. F1  | FAMSL:    | DECOMMISSIONING MATERIAL |
|              |   | Auger  |                          | Not Measu     |                 |           | Hydrated Bentonite       |
|              |   | / M. Esparra   |                          | TOTAL DEPT    | H:              |           | BOREHOLE SIZE:<br>8-Inch |
|              | auuen                                     | -  | <u>&gt;</u>              |               |                 |           |                          |
| Depth (feet) | uscs                                      | Description<br>USCS name; Color; Moisture; Density;<br>Plasticity; Dilatency; EPI description; Other | Interval &<br>% Recovery | Blows per 6"  | Sample          | PID (ppm) | Comments                 |
| 0            |   | Asphalt Surface  | _                        |               |                 |           |                          |
| _            |   |  |                          |               |                 |           |                          |
| 5-           |   | Hard Drilling; Concrete Rubble   | 20                       | 50/6"         | MW-8:5          | 0.0       |                          |
| 10-          |   | Hard Drilling; Concrete Rubble   | 20                       | 50/6"         | MW-8:10         | 0.0       |                          |
| -            |   |  |                          |               |                 |           |                          |
| 15-          |   | End of Borehole  |                          |               |                 |           |                          |
| -            |   |  |                          |               |                 |           |                          |
| 20-          |   |  |                          |               |                 |           |                          |
| -            |   |  |                          |               |                 |           |                          |
| 25-          |   |  |                          |               |                 |           |                          |
|              |   |  |                          |               |                 |           |                          |
| 30-          |   |  |                          |               |                 |           |                          |
|              |   |  |                          |               |                 |           |                          |
| 35-          |   |  |                          |               |                 |           |                          |
| 40           |   |  |                          |               |                 |           |                          |
| 40           |   | t attempt- refusal at 8' bgs. 2nd attemp<br>fusal at 12' bgs. 5th attempt- refusal at<br>5 5' bgs    |                          | sal at 14' 3r | d attornat rafi |           | /                        |

| $\Rightarrow$                          | TR                            | 2C   |                          | BORING       | ID: TRC-B1     |                                   |                               |  |  |  |
|--|-------------------------------|--|--------------------------|--------------|----------------|-----------------------------------|-------------------------------|--|--|--|
|  | DDRESS                        |  |                          | CLIENT:      |                |                                   |                               |  |  |  |
| 1120 .                                 | John St                       | , Seattle, Wa  |                          | Onni Group   |                |                                   |                               |  |  |  |
| ORILLIN                                | NG CONT                       | RACTOR:  |                          | PROJECT #:   |                |                                   |                               |  |  |  |
| Casca                                  | de Dril                       | ling, LP   |                          | 15365        |                |                                   |                               |  |  |  |
|  | NG EQUIF                      |  |                          | DATE:        |                |                                   |                               |  |  |  |
|  |                               | ed Rig - CME - 75  |                          | 10/27/2020   |                |                                   | 1                             |  |  |  |
|  | NG METH                       |  |                          |              | RFACE ELEV. FT | AMSL:                             | DECOMMISSIONING MATERIAL:     |  |  |  |
|  |                               | Auger (HSA)  |                          | Not Measu    |                |                                   | Hydrated Bentonite            |  |  |  |
|  | DGGED BY:<br>. <b>Dorfner</b> |  |                          |              | H:             | BOREHOLE SIZE:<br>8-Inch Diameter |                               |  |  |  |
| Depth (feet)                           | NSCS                          | Description<br>USCS name; Color; Moisture; Density;<br>Plasticity; Dilatency; EPI description; Other   | Interval &<br>% Recovery | Blows per 6" | Sample         | PID (ppm)                         | Comments                      |  |  |  |
| 0_<br>1-<br>2-<br>3-<br>4-             |                               | ~4" Thick Asphalt Surface<br>POORLY-GRADED SAND WITH GRAVEL;<br>grayish brown; dry; loose to medium dense;<br>mostly fine-grained sand, minor fine gravel,<br>concrete and wire debris | -                        |              |                |                                   |                               |  |  |  |
| -<br>5-<br>-<br>6-<br>-<br>7-          | SP                            | 5' As above  | 20                       | 12,8,3       | TRC-B1:5       | 0.7                               |                               |  |  |  |
| 8-<br>9-<br>10-<br>11-<br>12-<br>13-   | CH                            | FAT CLAY WITH GRAVEL; reddish gray;<br>damp; stiff; mostly clay, minor gravel, few sand  | 100                      | 13,10,12     | TRC-B1:10      | 0.4<br>0.0                        |                               |  |  |  |
| 14-<br>15-<br>16-<br>17-               |                               | SANDY SILT; reddish gray; damp; medium<br>stiff; mostly silt, some fine sand, few gravel   | 100                      | 5,6,6        | TRC-B1:15      | 0.2<br>0.2                        |                               |  |  |  |
| 18-<br>19-<br>20-<br>21-<br>22-<br>23- | ML                            | 20' As above<br>20.5' Cobble<br>SILTY SAND; grayish brown to brown; moist;<br>dense; mostly fine sand, minor silt, trace fine<br>gravel  | 100                      | 21,30,40     | TRC-B1:20      | 0.0<br>0.0                        | 20.5' Crushed rock in sampler |  |  |  |
| 24-<br>25-<br>26                       | ES:                           | POORLY-GRADED SAND WITH GRAVEL;<br>grayish brown; dry; dense; mostly fine to   | 80                       | 20,50/6"     | TRC-B1:25      | 0.0                               |                               |  |  |  |

| ٠,                                   | TR       | 2C  |                          | BORING       | ID: TRC-B1     |           |                                   |  |  |  |
|--------------------------------------|----------|---|--------------------------|--------------|----------------|-----------|-----------------------------------|--|--|--|
|                                      | DDRESS   |   |                          | CLIENT:      |                |           |                                   |  |  |  |
|                                      |          | , Seattle, Wa   |                          | Onni Grou    | р              |           |                                   |  |  |  |
|                                      |          | RACTOR:   |                          | PROJECT #:   |                |           |                                   |  |  |  |
|                                      |          | ling, LP  |                          | 15365        |                |           |                                   |  |  |  |
|                                      | NG EQUIF |   |                          | DATE:        |                |           |                                   |  |  |  |
|                                      |          | ed Rig - CME - 75   |                          | 10/27/2020   |                |           | 1                                 |  |  |  |
|                                      | NG METH  |   |                          |              | RFACE ELEV. FT | AMSL:     | DECOMMISSIONING MATERIAL          |  |  |  |
| LOGGE                                |          | Auger (HSA)   |                          | Not Measu    |                |           | Hydrated Bentonite BOREHOLE SIZE: |  |  |  |
| N. Do                                |          |   |                          | 51.5' bgs    | 1.             |           | 8-Inch Diameter                   |  |  |  |
| Depth (feet)                         | NSCS     | Description<br>USCS name; Color; Moisture; Density;<br>Plasticity; Dilatency; EPI description; Other                                  | Interval &<br>% Recovery | Blows per 6" | Sample         | PID (ppm) | Comments                          |  |  |  |
| _                                    |          | medium-grained sand, minor fine to  |                          |              |                | 0.1       |                                   |  |  |  |
| 27-<br><br>28-<br><br>29-<br><br>30- |          | medium-grained gravel, trace silt<br>30' As above; very dense; silt increases to  |                          |              | TRC-B1:30      | 0.1       |                                   |  |  |  |
| _                                    |          | minor   | 90                       | 22,50/6"     | 110-01.50      |           |                                   |  |  |  |
| 31-                                  |          |   |                          | 22,0010      |                | 0.1       |                                   |  |  |  |
| 32-                                  |          |   |                          |              |                |           |                                   |  |  |  |
| 33-                                  |          |   |                          |              |                |           |                                   |  |  |  |
| 34-                                  |          |   |                          |              |                |           |                                   |  |  |  |
| _                                    |          |   |                          |              |                |           |                                   |  |  |  |
| 35-                                  | SP       | 35' As above; some iron oxide staining  |                          |              | TRC-B1:35      | 0.1       |                                   |  |  |  |
| 36-                                  |          | 35.5' Cobble  | 50                       | 50/6"        |                | 0.0       |                                   |  |  |  |
| 37-                                  |          | 36.5' Moist; silt decreases to trace  |                          |              |                |           |                                   |  |  |  |
| 38-                                  |          |   |                          |              |                |           |                                   |  |  |  |
| -                                    |          |   |                          |              |                |           |                                   |  |  |  |
| 39-                                  |          |   |                          |              |                |           |                                   |  |  |  |
| 40-                                  |          | 40' As above; light olive brown color   |                          |              | TRC-B1:40      | 0.3       |                                   |  |  |  |
| 41-                                  |          | ~   | 60                       | 50/6"        |                | 0.2       |                                   |  |  |  |
| 42-                                  |          | 41.5' Coarse gravel in sampler  |                          |              |                |           |                                   |  |  |  |
| _                                    |          |   |                          |              |                |           |                                   |  |  |  |
| 43-                                  |          |   |                          |              |                |           |                                   |  |  |  |
| 44-                                  |          |   |                          |              |                |           |                                   |  |  |  |
| 45-                                  |          | 45' As above; some iron oxide staining  |                          |              | TRC-B1:45      | 0.0       |                                   |  |  |  |
| 46-                                  |          |   | 100                      | 27,30,30     |                | 0.1       |                                   |  |  |  |
| 47-                                  |          | POORLY-GRADED SAND; light olive brown;<br>moist; dense; mostly fine-grained sand, trace<br>silt                                       |                          |              |                |           |                                   |  |  |  |
| 48-                                  |          |   |                          |              |                |           |                                   |  |  |  |
| -<br>49-                             | SP       |   |                          |              |                |           |                                   |  |  |  |
| -<br>50-                             |          | 50' Color becomes reddish yellow to light   |                          |              | TRC-B1:50      | 0.0       |                                   |  |  |  |
| 50-<br>-<br>51-                      |          | reddish brown; becomes medium dense;<br>mostly fine to medium-grained sand, few silt,<br>trace gravel, iron oxide staining throughout | 100                      | 15,20,24     | 110-110        | 0.0       |                                   |  |  |  |
| 52                                   |          | End of Borehole   |                          |              |                |           |                                   |  |  |  |

| ->                         | Tr  | C   |                          | BORING       | ID: TRC-B2    |           |                          |  |  |  |
|----------------------------|---|---|--------------------------|--------------|---------------|-----------|--------------------------|--|--|--|
| _                          | DDRESS  |   |                          | CLIENT       |               | _         |                          |  |  |  |
| 1120                       | John Si   | , Seattle, Wa   |                          | Onni Grou    | D             |           |                          |  |  |  |
|                            | A   | RACTOR  |                          | PROJECT #:   |               |           |                          |  |  |  |
| Casca                      | de Dril   | ling, LP  |                          | 15365        |               |           |                          |  |  |  |
|                            | NG EQUI   |   |                          | DATE         |               |           |                          |  |  |  |
| Truck                      | Mount   | ed Rig - CME - 75   |                          | 10/27/2020   |               |           |                          |  |  |  |
| RILLIN                     | NG METH   | IOD:  |                          | GROUND SUF   | REACE ELEV FT | AMSL      | DECOMMISSIONING MATERIAL |  |  |  |
| Iollov                     | w-Stem  | Auger (HSA)   |                          | Not Measu    | red           |           | Hydrated Bentonite       |  |  |  |
| OGGE                       |   |   |                          | TOTAL DEPTH  | t:            |           | BOREHOLE SIZE:           |  |  |  |
| N. Do                      | rfner   | 1   |                          | 51.5' bgs    |               | -         | 8-Inch Diameter          |  |  |  |
| Depth (feet)               | nscs  | Description<br>USCS name; Color; Moisture; Density;<br>Plasticity; Dilatency; EPI description; Other  | Interval &<br>% Recovery | Blows per 6" | Sample        | PID (ppm) | Comments                 |  |  |  |
| 0_<br>1-<br>2-<br>3-<br>4- | SP  | -4" Thick Asphalt Surface<br>POORLY-GRADED SAND WITH GRAVEL,<br>grayish brown to reddish gray; dry; loose;<br>mostly fine to medium-grained sand, minor<br>gravel, few silt |                          |              |               |           |                          |  |  |  |
| 5-                         | 12.00   |   | -                        | Loss I       | TRC-B2:5      | 01        |                          |  |  |  |
| 6-<br>7-<br>8-             | ML  | SANDY SILT; reddish gray; damp; medium<br>stiff; mostly silt, minor fine sand, few gravel   | 100                      | 5,5,5        |               | 0.0       |                          |  |  |  |
| 9-                         |   | for an and a  |                          |              |               |           |                          |  |  |  |
| 10-                        |   |   |                          |              | TRC-B2:10     | 01        |                          |  |  |  |
| C -                        | 2.1.5   | POORLY-GRADED SAND; gravish brown; wet;<br>loose; mostly medium-grained sand  | 100                      | 6,8,13       |               |           |                          |  |  |  |
| 11-<br>12-<br>13-<br>14-   | SP  | 11'-11.5' Reddish gray color  |                          |              |               | 0_1       |                          |  |  |  |
| 1.1.1                      | 223   |   |                          |              |               |           |                          |  |  |  |
| 15-                        |   | SILTY SAND, grayish brown damp, medium  |                          | 1000         | TRC-B2:15     | 01        |                          |  |  |  |
| 16-<br>17-<br>18-          | SM  | dense; mostly fine to medium-grained sand,<br>minor silt<br>16' Few gravel  | 100                      | 10,12,12     |               | 01        |                          |  |  |  |
| 19-                        | 4         5         4   |   |                          |              |               |           |                          |  |  |  |
| 20-                        | 4         10 </td <td>Mark and the second</td> <td>-</td> <td></td> <td>TRC-B2:20</td> <td>0.1</td> <td></td> | Mark and the second   | -                        |              | TRC-B2:20     | 0.1       |                          |  |  |  |
| 1.1                        | μιμι  | POORLY-GRADED SAND; grayish brown;  | 75                       | 10,12,15     |               | 0.7       |                          |  |  |  |
| 21-<br>22-<br>23-          | SP  | damp; medium dense; mostly medium-grained<br>sand, trace silt   |                          |              |               | 0.2       |                          |  |  |  |
| 24-                        |   |   |                          |              |               |           |                          |  |  |  |
| 25-                        |   |   |                          |              | TRC-B2:25     | 0.0       |                          |  |  |  |
|                            | 91  | POORLY-GRADED SAND WITH GRAVEL  | 100                      | 17 10.00     | TRG-D2.20     | 0.0       |                          |  |  |  |
| 26_                        | Sec. 151  | grayish brown; moist; medium dense; mostly  | 100                      | 17,18,20     |               |           |                          |  |  |  |

| *7                              | Tr                   | 2X   |                          | BORING       | ID: TRC-B2                            |           |   |
|---------------------------------|----------------------|--|--------------------------|--------------|---------------------------------------|-----------|---|
|                                 | DDRESS               |  |                          | CLIENT       |                                       | _         |   |
| 120                             | John St              | , Seattle, Wa  |                          | Onni Grou    | p                                     |           |   |
| RILLI                           | NG CONT              | RACTOR   | -                        | PROJECT #:   |                                       |           |   |
|                                 |                      | ling, LP   |                          | 15365        |                                       |           |   |
|                                 | NG EQUIF             |  |                          | DATE         |                                       |           |   |
| 100 B                           | State State State St | ed Rig - CME - 75  | _                        | 10/27/2020   |                                       | ALLON .   |   |
|                                 | NG METH              |  |                          | Not Measu    | RFACE ELEV. FT                        | AMSL:     | DECOMMISSIONING MATERIAL<br>Hydrated Bentonite  |
| -                               | D BY:                | Auger (HSA)  | -                        | TOTAL DEPT   |                                       |           | BOREHOLE SIZE:  |
| I. Do                           | a sub-               |  |                          | 51.5' bgs    | · · · · · · · · · · · · · · · · · · · |           | 8-Inch Diameter   |
| Depth (feet)                    | nscs                 | Description<br>USCS name; Color; Moisture, Density;<br>Plasticity; Dilatency; EPI description; Other   | Interval &<br>% Recovery | Blows per 6" | Sample                                | PID (ppm) | Comments  |
| -                               | 1305                 | fine to medium-grained sand, minor fine gravel, trace silt   |                          |              |                                       | 0.0       |   |
| 27-<br>28-<br>29-<br>30-<br>31- |                      | 30' As above; dense<br>30.5' Slightly wet  | 90                       | 30, 50/6"    | TRC-B2:30                             | 00        |   |
| 32-<br>33-<br>34-<br>35-        | SP                   | 31' Returns to moist, crushed rock in sampler  |                          |              | 100 00 00                             |           |   |
| 36-<br>37-<br>38-<br>39-        |                      | 35' As above; color is olive gray; no odor<br>35,5' Crushed rock in sampler  | 30                       | 50/6"        | TRC-B2:35                             | 01        | After collecting sample at 35' bgs<br>drill rig breaks down. Continue or<br>10/28/20. Hard drilling Refusal<br>met, move location West ~4'. |
| 40-                             |                      |  |                          |              | TRC-B2R:40                            | 0.1       |   |
| 40-<br>41-<br>42-<br>43-        | SM                   | SILTY SAND; light gray to olive gray; dry; very<br>dense; mostly fine to medium-grained sand,<br>some silt, trace gravel, intermittent thin silt<br>lenses                                     | 50                       | 50/6"        | ING-D2K.4U                            | 0.0       | "R" in sample name distinguishes<br>samples from borehole after being<br>moved  |
| 44-                             |                      |  |                          |              | TRC-B2R/45                            | 0.0       |   |
| 40-<br>46-<br>47-<br>48-        | SP                   | POORLY-GRADED SAND WITH GRAVEL;<br>reddish yellow to light reddish brown, dry, very<br>dense; mostly fine to medium-grained sand,<br>minor gravel, few silt, iron oxide staining<br>throughout | 25                       | 50/6"        | a concentration of the                | 9.9       |   |
| 49                              |                      |  |                          |              |                                       |           |   |
| 50-<br>51-                      |                      | 50' As above   | 50                       | 50/6"        | TRC-B2R:50                            | 00        |   |
| 52                              | 121-21               | End of Borehole  |                          |              |                                       |           | , i   |

| •7                                       | Tr                | 2X  |                          | BORING                   | ID: TRC-B3    |           |                                  |  |  |  |
|--|-------------------|---|--------------------------|--------------------------|---------------|-----------|----------------------------------|--|--|--|
|  | DRESS             |   |                          | CLIENT                   |               | _         |                                  |  |  |  |
| 1120                                     | John St           | , Seattle, Wa   |                          | Onni Group               |               |           |                                  |  |  |  |
| RILLIN                                   | G CONT            | RACTOR  | -                        | PROJECT #:<br>15365      |               |           |                                  |  |  |  |
|  |                   | ling, LP  |                          |                          |               |           |                                  |  |  |  |
|  | IG EQUIF          |   |                          | DATE                     |               |           |                                  |  |  |  |
| 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | and the second of | ed Rig - CME - 75   |                          | 10/28/2020               |               |           |                                  |  |  |  |
|  | IG METH           |   |                          | 3007 H                   | RFACE ELEV FT | AMSL:     | DECOMMISSIONING MATERIAL         |  |  |  |
|  |                   | Auger (HSA)   | _                        | Not Measu<br>TOTAL DEPTH |               | -         | Hydrated Bentonite               |  |  |  |
| OGGE                                     |                   |   |                          | 51.5' bgs                | 1.            |           | BOREHOLE SIZE<br>8-Inch Diameter |  |  |  |
| set)                                     | -                 | Description   | & lery                   |                          | 1.00          | Ê         |                                  |  |  |  |
| Depth (feet)                             | USCS              | USCS name; Color; Moisture, Density;<br>Plasticity; Dilatency; EPI description; Other           | Interval &<br>% Recovery | Blows per 6"             | Sample        | PID (ppm) | Comments                         |  |  |  |
| 0_                                       | 1-10-1            | ~4" Thick Asphalt Surface   |                          |                          |               |           |                                  |  |  |  |
| 1-<br>2-                                 |                   | POORLY-GRADED SAND, grayish brown,<br>damp, loose, mostly fine to medium-grained<br>sand        |                          |                          |               |           |                                  |  |  |  |
| 3-                                       |                   |   |                          |                          |               |           |                                  |  |  |  |
| 5-                                       | 2.53              | and and and an an and a second second   |                          |                          | TRC-B3:5      | 0.0       |                                  |  |  |  |
| 24                                       |                   | 5' - Becomes dense lo very dense  | 50                       | 24, 50/6"                | 110-00.0      | 1.00      |                                  |  |  |  |
| 6-                                       |                   |   |                          | 21,00.0                  |               | 0.0       |                                  |  |  |  |
| 7-                                       |                   |   |                          |                          |               |           |                                  |  |  |  |
| 8-                                       | SP                |   |                          |                          |               |           |                                  |  |  |  |
| 9-                                       | 6.72              |   |                          |                          |               |           |                                  |  |  |  |
| 1.4                                      |                   |   |                          |                          |               |           |                                  |  |  |  |
| 10-                                      |                   | 10' As above  | 1                        | A                        | TRC-B3 10     | 00        |                                  |  |  |  |
| 11-                                      |                   | 11' Wet   | 50                       | 50/6"                    |               | 0.0       |                                  |  |  |  |
| 12-                                      |                   |   |                          |                          |               | 1.1       |                                  |  |  |  |
|  |                   |   |                          |                          |               |           |                                  |  |  |  |
| 13-                                      | 6389              |   |                          |                          |               |           |                                  |  |  |  |
| 14-                                      |                   |   |                          |                          |               |           |                                  |  |  |  |
| 15-                                      |                   | POORLY-GRADED SAND WITH GRAVEL  |                          |                          | TRC-B3:15     | 0.0       |                                  |  |  |  |
| 16-                                      |                   | gravish brown; moist; very dense; mostly fine<br>to medium-grained sand, minor gravel, few silt | 90                       | 20, 50/6"                |               | 0.0       |                                  |  |  |  |
| 1  |                   | to medium-grained sand, minor gravel, few silt  |                          |                          |               | 00        |                                  |  |  |  |
| 17-                                      |                   |   |                          |                          |               |           |                                  |  |  |  |
| 18-                                      | 1.22              |   |                          |                          |               |           |                                  |  |  |  |
| 19-                                      |                   |   |                          |                          |               |           |                                  |  |  |  |
| 1.14                                     |                   |   |                          |                          | TRC-B3:20     | 0.0       |                                  |  |  |  |
| 20-                                      | 53                | 20' - As above, moist to wet.   | 75                       | 25, 50/4"                | 110-09.20     |           |                                  |  |  |  |
| 21-                                      |                   | 21' - Coarse gravel   | 13                       | 20, 00/4                 |               | 0.0       |                                  |  |  |  |
| 22-                                      |                   |   |                          |                          |               |           |                                  |  |  |  |
| 23-                                      | SP                |   |                          |                          |               |           |                                  |  |  |  |
| 1.14                                     |                   |   |                          |                          |               |           |                                  |  |  |  |
| 24-                                      | 158               |   |                          |                          |               |           |                                  |  |  |  |
| 25-                                      |                   | 25' - As above, moist, no silt (P-G SAND W/<br>GRAVEL)  | -                        |                          | TRC-B3:25     | 0.0       |                                  |  |  |  |
| 26                                       | 0.2.5             | 25 5" - Iron oxide staining   | 25                       | 50/5"                    |               | 1.1       | Ja                               |  |  |  |

| •>                       | TR                                       | 2X  |                          | BORING ID: TRC-B3 |               |            |  |  |  |  |  |
|--------------------------|--|---|--------------------------|-------------------|---------------|------------|--|--|--|--|--|
|                          | DRESS                                    |   |                          | CLIENT            |               |            |  |  |  |  |  |
| 120                      | John St                                  | , Seattle, Wa   |                          | Onni Group        |               |            |  |  |  |  |  |
|                          |  | RACTOR:   | -                        | PROJECT #:        |               |            |  |  |  |  |  |
|                          |  | ling, LP  | _                        | 15365             |               |            |  |  |  |  |  |
|                          | IG EQUIF                                 |   |                          | DATE              |               |            |  |  |  |  |  |
| 1                        | - 10- 10- 10- 10- 10- 10- 10- 10- 10- 10 | ed Rig - CME - 75   | _                        | 10/28/2020        |               | Thurs.     |  |  |  |  |  |
|                          | IG METH                                  | Auger (HSA)   |                          | Not Measu         | RFACE ELEV FT | AMSL.      | DECOMMISSIONING MATERIAL<br>Hydrated Bentonite |  |  |  |  |
|                          | D BY:                                    | Auger (HSA)   | - 1                      | TOTAL DEPTI       | 11.10.10.10   | -          | BOREHOLE SIZE:                                 |  |  |  |  |
|                          | fner                                     |   |                          | 51.5' bgs         | C             |            | 8-Inch Diameter                                |  |  |  |  |
| Depth (feet)             | NSCS                                     | Description<br>USCS name; Color; Moisture, Density;<br>Plasticity, Dilatency, EPI description; Other  | Interval &<br>% Recovery | Blows per 6"      | Sample        | PID (ppm)  | Comments                                       |  |  |  |  |
|                          | 1758                                     |   |                          |                   |               | 0.0        |  |  |  |  |  |
| 27-<br>28-<br>29-<br>30- |  | DOODLY CRADED CAND, group brown to  |                          |                   | TRC-B3;30     | 0.0        |  |  |  |  |  |
| 31-                      |  | POORLY-GRADED SAND; gravish brown to<br>reddish brown; wet; very dense; mostly  | 40                       | 50/6"             |               | 0.0        |  |  |  |  |  |
|                          |  | medium-grained sand, trace silt   |                          |                   |               | .0.0       |  |  |  |  |  |
| 32-<br>33-               | SP                                       |   |                          |                   |               |            |  |  |  |  |  |
| 34-                      | - 30                                     |   |                          |                   |               |            |  |  |  |  |  |
| 35-                      | hiiiii                                   | SILT; dark brown; dry; very dense; mostly silt,   | -                        |                   | TRC-B3:35     | 0.0        |  |  |  |  |  |
| 36-                      |  | trace fine sand, trace fine gravel  | 40                       | 50/6"             | *             | 0.0        |  |  |  |  |  |
| 37-                      |  |   |                          |                   |               |            |  |  |  |  |  |
| 38-<br>39-               | ML                                       |   |                          |                   |               |            |  |  |  |  |  |
|                          |  | but a statistic second second   |                          |                   | 100 01 (0     |            |  |  |  |  |  |
| 40-                      |  | SILTY SAND; light olive brown; dry; very<br>dense; mostly fine to medium-grained sand,<br>minor silt, trace gravel, iron oxide staining<br>throughout   | 75                       | 20, 50/6"         | TRC-B3:40     | 01         |  |  |  |  |  |
| 42-<br>43-<br>44-        | SM                                       |   |                          |                   |               |            |  |  |  |  |  |
| 45-                      |  | POORLY-GRADED SAND; strong brown to   |                          |                   | TRC-B3:45     | 0.0        |  |  |  |  |  |
| 46-                      |  | reddish yellow; damp, very dense; mostly fine<br>to medium-grained sand, few silt   | 40                       | 50/6"             |               | 00         |  |  |  |  |  |
| 47-                      | 553                                      |   |                          |                   |               |            |  |  |  |  |  |
| 48-                      |  |   |                          |                   |               |            |  |  |  |  |  |
| 100                      | SP                                       | a fordier and a second s |                          |                   |               |            |  |  |  |  |  |
| 49-                      |  |   |                          |                   |               |            |  |  |  |  |  |
| 50-<br>51-               |  | 50' As above; dry; trace gravel; slight iron oxide staining   | 50                       | 50/6"             | TRC-B3:50     | 0 0<br>0 0 |  |  |  |  |  |
| 52                       |  | End of Borehole   |                          |                   |               |            |  |  |  |  |  |

| 17           | Tr       | 2C   | BORING ID: TRC-B4        |                          |  |           |                                   |  |  |  |
|--------------|----------|--|--------------------------|--------------------------|--|-----------|-----------------------------------|--|--|--|
|              | DDRESS   |  |                          | CLIENT                   |  |           |                                   |  |  |  |
| 1120         | John St  | , Seattle, Wa  |                          | Onni Grou                | p  |           |                                   |  |  |  |
|              | A        | RACTOR   |                          | PROJECT #:               |  |           |                                   |  |  |  |
| Casca        | de Dril  | ling, LP   |                          | 15365                    |  |           |                                   |  |  |  |
|              | NG EQUIF |  |                          | DATE                     |  |           |                                   |  |  |  |
| Truck        | Mounte   | ed Rig - CME - 75  |                          | 10/29/2020               |  |           | a second second second            |  |  |  |
|              | NG METH  |  |                          |                          | RFACE ELEV FT                            | AMSL.     | DECOMMISSIONING MATERIA           |  |  |  |
|              |          | Auger (HSA)  | _                        | Not Measu                |  | -         | Hydrated Bentonite                |  |  |  |
| LOGGE        |          |  |                          | TOTAL DEPTH<br>51.5' bgs | -t:                                      |           | BOREHOLE SIZE:<br>8-Inch Diameter |  |  |  |
|              | inter    | General and State  | x A                      |                          |  | Ê         |                                   |  |  |  |
| Depth (feet) | USCS     | Description<br>USCS name; Color; Moisture, Density;<br>Plasticity; Dilatency; EPI description; Other | Interval &<br>% Recovery | Blows per 6"             | Sample                                   | PID (ppm) | Comments                          |  |  |  |
| 0_           | F-2-1    | ~4" Thick Asphalt Surface<br>POORLY-GRADED SAND, grayish brown,                                      |                          |                          |  |           | 1                                 |  |  |  |
| 1-           | 62.5     | damp; loose; mostly fine to medium-grained   |                          |                          |  |           |                                   |  |  |  |
| 2-           |          | sand, few gravel, trace silt   |                          |                          |  |           |                                   |  |  |  |
| 3-           | 200      |  |                          |                          |  |           |                                   |  |  |  |
| 4-           |          |  |                          |                          |  |           |                                   |  |  |  |
| 4-           | SS       | A contract of the second second second   |                          |                          | المتاريخ                                 | 15.31     |                                   |  |  |  |
| 5-           | SP       | 5' As above; color is dark bluish gray; faint odor   |                          | 20252                    | TRC-B4:5                                 | 8.1       |                                   |  |  |  |
| 6-           | 2023     |  | 60                       | 5,13,15                  |  | 6.5       |                                   |  |  |  |
| 7-           | 63.91    |  | -                        |                          |  |           |                                   |  |  |  |
| 8-           |          |  |                          |                          |  |           |                                   |  |  |  |
| 14           |          |  |                          |                          |  |           |                                   |  |  |  |
| 9-           |          |  |                          |                          |  |           |                                   |  |  |  |
| 10-          | SM       | SILTY SAND; grayish brown; damp; medium  |                          |                          | TRC-B4 10                                | 0.3       |                                   |  |  |  |
| 11-          |          | dense; mostly fine sand, some silt, no odor<br>POORLY-GRADED SAND; gravish brown;                    | 100                      | 10,13,8                  |  | 0.2       |                                   |  |  |  |
| 12-          | 1382     | damp; medium dense; mostly fine sand, few silt   |                          |                          |  | 0.00      |                                   |  |  |  |
|              |          | 11' Iron oxide staining  |                          |                          |  |           |                                   |  |  |  |
| 13-          |          |  |                          |                          |  |           |                                   |  |  |  |
| 14-          |          | 1  |                          |                          |  |           |                                   |  |  |  |
| 15-          | 1        | 16' An about mostly mostly mostly and and  |                          |                          | TRC-B4:15                                | 0.1       |                                   |  |  |  |
| 16-          | 통음음      | 15' As above, mostly medium-grained sand,<br>trace gravel, trace silt                                | 100                      | 8,12,15                  |  | 0.0       |                                   |  |  |  |
| 1            |          | 16' Becomes mostly fine-grained sand   |                          |                          |  | U.U.      |                                   |  |  |  |
| 17-          | 13.5     |  |                          |                          |  |           |                                   |  |  |  |
| 18-          | SP       |  |                          |                          |  |           |                                   |  |  |  |
| 19-          |          |  |                          |                          |  |           |                                   |  |  |  |
| 20-          | 643      |  |                          |                          | TRC-84:20                                | 01        |                                   |  |  |  |
| 10.44        |          | 20' As above; mostly medium-grained sand   | 100                      | 17, 50/6"                | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | 1.100     |                                   |  |  |  |
| 21-          | 6.61     | 21.5' Few gravel, few silt   |                          |                          |  | 0.0       |                                   |  |  |  |
| 22-          | 1911     | 21.3 Few graver, rew bill  |                          |                          |  |           |                                   |  |  |  |
| 23-          | 235      |  |                          |                          |  |           |                                   |  |  |  |
| 24-          | 2.33     |  |                          |                          |  |           |                                   |  |  |  |
| -            |          |  |                          |                          | TOO DU OF                                |           |                                   |  |  |  |
| 25-          |          | 25' As above; mostly fine-grained, very dense  | 100                      | 10 50/0"                 | TRC-B4:25                                | 0.2       |                                   |  |  |  |
| 26-          |          |  | 100                      | 19, 50/6"                |  | 0.3       |                                   |  |  |  |

| 1                 | Tr                           | 2C   |                          | BORING                   | ID: TRC-B4     | ÷         |                                   |  |  |
|-------------------|------------------------------|--|--------------------------|--------------------------|----------------|-----------|-----------------------------------|--|--|
|                   | DDRESS                       |  |                          | CLIENT                   |                | _         |                                   |  |  |
| 120               | John St                      | Seattle, Wa  |                          | Onni Group               |                |           |                                   |  |  |
|                   | A                            | RACTOR   |                          | PROJECT #                |                |           |                                   |  |  |
| _                 |                              | ling, LP   |                          | 15365                    |                |           |                                   |  |  |
|                   | NG EQUIF                     |  |                          | DATE                     |                |           |                                   |  |  |
| And the second    | and the second second second | ed Rig - CME - 75  |                          | 10/29/2020               |                |           |                                   |  |  |
|                   | NG METH                      |  |                          |                          | RFACE ELEV. FT | AMSL:     | DECOMMISSIONING MATERIAL          |  |  |
|                   |                              | Auger (HSA)  |                          | Not Measu<br>TOTAL DEPTH |                | -         | Hydrated Bentonite                |  |  |
|                   | D BY:<br>rfner               |  |                          | 51.5' bgs                | К.             |           | BOREHOLE SIZE:<br>8-Inch Diameter |  |  |
|                   |                              | 42 Martinet  | x Z                      | Sine age                 |                | Ê         |                                   |  |  |
| Depth (feet)      | NSCS                         | Description<br>USCS name; Color; Moisture, Density;<br>Plasticity; Dilatency; EPI description, Other                         | Interval &<br>% Recovery | Blows per 6"             | Sample         | PID (ppm) | Comments                          |  |  |
| 27-<br>28-<br>29- | SM                           | SILTY SAND; gravish brown; moist; very<br>dense; mostly fine to medium-grained sand,<br>minor silt, trace gravel             |                          |                          |                |           |                                   |  |  |
| 30-               |                              | POORLY-GRADED SAND, strong brown, wet,   |                          |                          | TRC-B4:30      | 0.3       |                                   |  |  |
| 31-               |                              | very dense; mostly fine to medium-grained<br>sand, trace silt  | 80                       | 20 50/6"                 |                | 0.3       |                                   |  |  |
| 32-               |                              | 31' Iron oxide staining  | 1                        |                          |                | -         |                                   |  |  |
| 1.14              | SP                           |  |                          |                          |                |           |                                   |  |  |
| 33-               | SP                           |  |                          |                          |                |           |                                   |  |  |
| 34-               |                              |  |                          |                          |                |           |                                   |  |  |
| 35-               |                              | 35' As above, moist, medium dense  | -                        |                          | TRC-84.35      | 0.6       |                                   |  |  |
| 36-               | 0.10                         | An ender of the balance of the second second   | 90                       | 19,20,20                 |                | 0.9       |                                   |  |  |
| 6.4               | 0.0                          | WELL-GRADED SAND; grayish brown; wet;<br>medium dense; fine to coarse-grained sand;  |                          |                          |                | 0.0       |                                   |  |  |
| 37-               |                              | few fine-grained gravel, trace silt  |                          |                          |                |           |                                   |  |  |
| 38-               | SW.                          |  |                          |                          |                |           |                                   |  |  |
| 39-               | · . o .                      |  |                          |                          |                |           |                                   |  |  |
| 40-               | o • • •                      |  |                          |                          | TRC-B4 40      | 01        |                                   |  |  |
| -                 |                              | SILT; grayish brown to reddish gray; damp;<br>very dense; mostly silt, few sand  | 20                       | 50/6"                    | THE REPORT OF  | 100       |                                   |  |  |
| 41-               |                              |  | Ē                        |                          |                | 0.2       |                                   |  |  |
| 42-               |                              |  |                          |                          |                |           |                                   |  |  |
| 43-               |                              |  |                          |                          |                |           |                                   |  |  |
| 44-               |                              |  |                          |                          |                |           |                                   |  |  |
|                   |                              |  | _                        |                          | ND A DU IN     | 100       |                                   |  |  |
| 45-               | ML                           | 45' As above; yellow to light reddish brown,   | 100                      | 10 00 00                 | TRC-84,45      | 0.0       |                                   |  |  |
| 46-               |                              | damp; medium dense; low plasticity<br>45.5' Color becomes bluish gray  | 100                      | 15,20,23                 |                | 0.0       |                                   |  |  |
| 47-               |                              |  | -                        |                          |                |           |                                   |  |  |
| 48-               |                              |  |                          |                          |                |           |                                   |  |  |
|                   |                              |  |                          |                          |                |           |                                   |  |  |
| 49-               |                              |  |                          |                          |                |           |                                   |  |  |
| 50-               | hinni                        | POORLY-GRADED SAND WITH GRAVEL; red  | -                        | 1                        | TRC-B4:50      | 0.0       | unit at a standard                |  |  |
| 51-               | SP                           | to reddish yellow, damp, very dense; mostly<br>fine to medium-grained sand, minor fine to<br>medium-grained gravel, few silt | 90                       | 20, 50/6"                |                | 0.1       | Iron oxide staining               |  |  |
| 52                |                              | End of Borehole  | 4                        | ,),                      |                |           | -                                 |  |  |

| ٠,   | TR       | 2C   |                          | BORING       | ID: TRC-B5     |            |                                   |  |  |  |
|--|----------|--|--------------------------|--------------|----------------|------------|-----------------------------------|--|--|--|
|  | DDRESS   |  |                          | CLIENT:      |                |            |                                   |  |  |  |
| 1120 .   | John St  | , Seattle, Wa  |                          | Onni Group   |                |            |                                   |  |  |  |
| DRILLIN  | NG CONT  | RACTOR:  |                          | PROJECT #:   |                |            |                                   |  |  |  |
| Casca  | de Drill | ing, LP  |                          | 15365        |                |            |                                   |  |  |  |
|  | NG EQUIF |  |                          | DATE:        |                |            |                                   |  |  |  |
|  |          | ed Rig - CME - 75  |                          | 10/29/2020   |                |            |                                   |  |  |  |
|  |          |  |                          |              | RFACE ELEV. FT | AMSL:      | DECOMMISSIONING MATERIAL:         |  |  |  |
| LOGGE  |          | Auger (HSA)  |                          | Not Measu    |                |            | Hydrated Bentonite BOREHOLE SIZE: |  |  |  |
| N. Doi   |          |  |                          | 21.5' bgs    | 1.             |            | 8-Inch Diameter                   |  |  |  |
| Depth (feet)                                   | USCS     | Description<br>USCS name; Color; Moisture; Density;<br>Plasticity; Dilatency; EPI description; Other   | Interval &<br>% Recovery | Blows per 6" | Sample         | PID (ppm)  | Comments                          |  |  |  |
| 0_<br>1-<br>                                   |          | ~4" Thick Asphalt Surface<br>POORLY-GRADED SAND; grayish brown;<br>damp; loose; mostly medium-grained sand,<br>trace silt, concrete debris                 |                          |              |                |            |                                   |  |  |  |
| 4-<br>-<br>5-<br>-<br>6-<br>-<br>7-<br>-<br>8- | SP       | 6' No more debris<br>7' Mostly fine sand   | 90                       | 5,5,5        | TRC-B5:6       | 0.7<br>0.1 |                                   |  |  |  |
| 9-<br>-<br>10-<br>-<br>11-                     |          | 10' As above; silt increases to few<br>10.5' - 11.5' Iron oxide staining   | 100                      | 6,10,15      | TRC-B5:10      | 0.2<br>0.1 |                                   |  |  |  |
| 12-<br>-<br>13-<br>-<br>14-<br>-               |          | SILTY SAND; grayish brown; damp; loose to<br>medium dense; mostly fine sand, minor silt  |                          |              |                |            |                                   |  |  |  |
| 15-<br>-<br>16-<br>-                           | SM       | 15' As above; few gravel<br>16.5' Moist  | 100                      | 18,20,20     | TRC-B5:15      | 0.1<br>0.1 |                                   |  |  |  |
| 17-<br>  |          |  |                          |              |                |            |                                   |  |  |  |
| 20-<br>_<br>21-                                | SP       | POORLY-GRADED SAND WITH GRAVEL;<br>grayish brown; damp; very dense; mostly fine<br>to medium-grained sand, minor fine to<br>coarse-grained gravel, no silt | 50                       | 50/6"        | TRC-B5:20      | 0.0        |                                   |  |  |  |

NOTES: Air Vac'd to ~6' bgs.

| <hr/>                               | R      | 20   | BORING                   | BORING ID: TRC-B6 |                |            |                           |  |  |  |  |
|-------------------------------------|--------|--|--------------------------|-------------------|----------------|------------|---------------------------|--|--|--|--|
| SITE ADDR                           |        |  |                          | CLIENT:           |                |            |                           |  |  |  |  |
| 1120 Joh                            | nn St, | Seattle, Wa  |                          | Onni Group        |                |            |                           |  |  |  |  |
| ORILLING (                          | CONT   | RACTOR:  |                          | PROJECT #:        |                |            |                           |  |  |  |  |
| Cascade                             | Drill  | ing, LP  |                          | 15365             |                |            |                           |  |  |  |  |
| DRILLING I                          | EQUIP  | MENT:  |                          | DATE:             |                |            |                           |  |  |  |  |
| Truck Mo                            | ounte  | ed Rig - CME - 75  |                          | 10/30/2020        |                |            |                           |  |  |  |  |
| DRILLING I                          | METH   | DD:  |                          | GROUND SUI        | RFACE ELEV. FT | AMSL:      | DECOMMISSIONING MATERIAL: |  |  |  |  |
| Hollow-S                            | Stem   | Auger (HSA)  |                          | Not Measu         | red            |            | Hydrated Bentonite        |  |  |  |  |
| OGGED B                             |        |  |                          | TOTAL DEPT        | H:             |            | BOREHOLE SIZE:            |  |  |  |  |
| N. Dorfn                            | er     |  |                          | 21.5' bgs         |                | 1          | 8-Inch Diameter           |  |  |  |  |
| Depth (feet)                        | NSCS   | Description<br>USCS name; Color; Moisture; Density;<br>Plasticity; Dilatency; EPI description; Other   | Interval &<br>% Recovery | Blows per 6"      | Sample         | PID (ppm)  | Comments                  |  |  |  |  |
| 0<br>1-<br>2-<br>3-<br>4-           | SP     | ~4" Thick Asphalt Surface<br>POORLY-GRADED SAND; grayish brown;<br>damp; loose; mostly fine to medium-grained<br>sand, few fine gravel, few silt |                          |                   |                |            |                           |  |  |  |  |
| 5-<br>6-<br>7-<br>8-<br>8-<br>-     | ML     | SILT; reddish gray; damp; loose; medium<br>plasticity; mostly silt, few gravel, trace sand, no<br>odor   | 2 100                    | 5,6,7             | TRC-B6:5       | 0.0        |                           |  |  |  |  |
| 9-<br><br>10-<br><br>11-<br><br>12- |        | POORLY-GRADED SAND; grayish brown;<br>damp; loose; mostly fine to medium-grained<br>sand, few silt, interbedded silt lenses <1" thick            | 80                       | 5,8,8             | TRC-B6:10      | 0.1<br>0.1 |                           |  |  |  |  |
| 13-<br>14-<br>15-<br>16-            | SP     | 15' As above; no silt lenses; few gravel;<br>becomes medium dense<br>15.5' Moist   | 90                       | 9,12,12           | TRC-B6:15      | 0.1        |                           |  |  |  |  |
| 17-<br>18-<br>19-<br>20-            |        | 16' Returns to damp<br>SILTY SAND; grayish brown; damp; very   |                          |                   | TRC-B6:20      | 0.1        |                           |  |  |  |  |
| 21-                                 | SM     | dense; mostly fine-grained sand, minor silt,<br>trace gravel   | 75                       | 19, 50/6"         |                | 0.1        |                           |  |  |  |  |
|                                     |        | End of Borehole  |                          |                   |                | L          |                           |  |  |  |  |

| •>                         | Tr      | C   | BORING                   | ID: TRC-B7                        | S             |           |                                   |  |  |  |
|----------------------------|---------|---|--------------------------|-----------------------------------|---------------|-----------|-----------------------------------|--|--|--|
| -                          | DDRESS  | La de Carta   | CLIENT:                  |                                   |               |           |                                   |  |  |  |
| 120 .                      | John Si | , Seattle, Wa   |                          | Onni Group<br>PROJECT #:<br>15365 |               |           |                                   |  |  |  |
| RILLI                      | NG CONT | RACTOR:   | -                        |                                   |               |           |                                   |  |  |  |
|                            |         | ling, LP  |                          |                                   |               |           |                                   |  |  |  |
|                            | NG EQUI |   |                          | DATE                              |               |           |                                   |  |  |  |
| 100 B                      | 1       | ed Rig - CME - 75   |                          | 10/30/2020                        |               | -         |                                   |  |  |  |
|                            | NG METH |   |                          |                                   | RFACE ELEV FT | AMSL:     | DECOMMISSIONING MATERIAL          |  |  |  |
| _                          | W-Stem  | Auger (HSA)   |                          | Not Measu<br>TOTAL DEPT           | 17.12.27      | _         | Hydrated Bentonite                |  |  |  |
| 1                          | rfner   |   |                          | 51.5' bgs                         | ж.            |           | BOREHOLE SIZE:<br>8-Inch Diameter |  |  |  |
| Depth (feet)               | nscs    | Description<br>USCS name; Color; Moisture, Density;<br>Plasticity; Dilatency; EPI description; Other  | Interval &<br>% Recovery | Blows per 6"                      | Sample        | PID (ppm) | Comments                          |  |  |  |
| 1. S. A. S. A.             |         |   | 11                       | 1                                 |               | ā         |                                   |  |  |  |
| 0_<br>1-<br>2-<br>3-<br>4- | SP      | -4" Thick Asphalt Surface<br>POORLY-GRADED SAND WITH GRAVEL;<br>grayish brown; damp; loose; mostly fine to<br>medium-grained sand, minor gravel, few silt |                          |                                   |               |           |                                   |  |  |  |
| 5-                         | 1.200   | POORLY-GRADED SAND; gravish brown:  |                          |                                   | TRC-B7:5      | 33        |                                   |  |  |  |
| 6-<br>7-<br>8-             | SP      | damp; medium dense; mostly fine to<br>medium-grained sand, trace silt, wood and<br>brick debris   | 90                       | 9,12,12                           |               | 0.1       |                                   |  |  |  |
| 9-                         |         |   |                          |                                   |               |           |                                   |  |  |  |
|                            | 3.65    |   |                          |                                   |               | 1.9       |                                   |  |  |  |
| 10-                        | hnimi   | SILT, reddish gray; damp; medium dense;   |                          | 1.000                             | TRC-B7:10     | 0.0       |                                   |  |  |  |
| 11-<br>12-                 |         | medium plasticity; mostly silt, trace sand, trace fine gravel, no odor  | 100                      | 7,10,10                           |               | 00        |                                   |  |  |  |
| 13-<br>14-                 |         |   |                          |                                   |               |           |                                   |  |  |  |
| 15-                        | ML      |   |                          |                                   | TRC-87-15     | 0.3       |                                   |  |  |  |
| 1.4                        | IMI     | 15' As above, sand increases to few   | 100                      | 6,9,11                            |               |           |                                   |  |  |  |
| 16-<br>17-<br>18-          |         |   |                          |                                   |               | 0.0       |                                   |  |  |  |
| 19-                        |         |   |                          |                                   |               |           |                                   |  |  |  |
| 20-                        | hmm     | A REAL PROPERTY OF THE PARTY OF THE PARTY OF  | -                        |                                   | TRC-B7:20     | 0.0       |                                   |  |  |  |
| 21-<br>22-<br>23-          |         | POORLY-GRADED SAND, grayish brown<br>damp; very dense; mostly fine to<br>medium-grained sand, few gravel, few sill  | 100                      | 20, 50/6"                         |               | 00        |                                   |  |  |  |
| -                          | 265     |   |                          |                                   |               |           |                                   |  |  |  |
| 24-                        | 25      | 10 C  |                          |                                   |               | 1.00      |                                   |  |  |  |
| 25-                        | 1.5     | 25' As above  | -                        |                                   | TRC-B7:25     | 0.0       |                                   |  |  |  |
| 26-                        | 12-32   | 26' Iron oxide staining   | 50                       | 50/6"                             |               | 0.6       |                                   |  |  |  |

|              | TRC ITE ADDRESS   |  |                          |                          | ID: TRC-B7                              |           |                                   |  |  |  |  |
|--------------|---|--|--------------------------|--------------------------|---|-----------|-----------------------------------|--|--|--|--|
| _            |   |  |                          | CLIENT:<br>Onni Group    |   |           |                                   |  |  |  |  |
| 1120         | John St   | Seattle, Wa  |                          | Onni Grou                | р                                       |           |                                   |  |  |  |  |
|              | A   | RACTOR   |                          | PROJECT #:               |   |           |                                   |  |  |  |  |
|              |   | ing, LP  |                          | 15365                    |   |           |                                   |  |  |  |  |
|              | NG EQUIF  |  |                          | DATE                     |   |           |                                   |  |  |  |  |
| A ALCONE !!  | Constraint States and S | ed Rig - CME - 75  |                          | 10/30/2020               |   |           |                                   |  |  |  |  |
|              | NG METH   |  |                          |                          | RFACE ELEV FT                           | AMSL      | DECOMMISSIONING MATERIAL          |  |  |  |  |
|              |   | Auger (HSA)  | _                        | Not Measu                |   | _         | Hydrated Bentonite                |  |  |  |  |
| OGGE         |   |  |                          | TOTAL DEPTI<br>51.5' bgs | HC.                                     |           | BOREHOLE SIZE:<br>8-Inch Diameter |  |  |  |  |
|              | mer   | all the second second  | 2 2                      | 51.5 bg3                 |   | -         |                                   |  |  |  |  |
| Depth (feet) | NSCS  | Description<br>USCS name; Color; Moisture, Density;<br>Plasticity; Dilatency; EPI description; Other | Interval &<br>% Recovery | Blows per 6"             | Sample                                  | PID (ppm) | Comments                          |  |  |  |  |
| 27-          | 2003  | -  |                          |                          |   |           | -                                 |  |  |  |  |
| 28-          | SP  |  |                          |                          |   |           |                                   |  |  |  |  |
| 1.1          |   |  |                          |                          |   | 1 - C     |                                   |  |  |  |  |
| 29-          | 1918  |  |                          |                          |   | -         |                                   |  |  |  |  |
| 30-          | 1577  |  | -                        |                          | TRC-B7 30                               | 0.0       |                                   |  |  |  |  |
| 31-          |   | 30' As above; trace gravel; iron oxide staining;   | 90                       | 17, 50/6"                |   | 0.0       |                                   |  |  |  |  |
|              |   | wet<br>30 5' 1"-thick lens of reddish gray, very fine  | -                        |                          |   | -242.4    |                                   |  |  |  |  |
| 32-          | 12.53   | sand with no iron oxide staining<br>31' Moist  |                          |                          |   |           |                                   |  |  |  |  |
| 33-          | 15.3  |  |                          |                          |   |           |                                   |  |  |  |  |
| 34-          |   |  |                          |                          |   |           |                                   |  |  |  |  |
| 35-          |   |  |                          |                          | TRC-B7:35                               | 0.1       |                                   |  |  |  |  |
| 1.5          | 26.25   | POORLY-GRADED SAND WITH GRAVEL;<br>gravish brown; wet; very dense; mostly fine to                    | 40                       | 50/6"                    | 110-01:00                               | 1.00      |                                   |  |  |  |  |
| 36-          |   | medium-grained sand, minor gravel, lew silt  |                          | 2019                     |   | 0.1       |                                   |  |  |  |  |
| 37-          | én  |  |                          |                          |   |           |                                   |  |  |  |  |
| 38-          | SP  |  |                          |                          |   |           |                                   |  |  |  |  |
| 39-          | 22  |  |                          |                          |   |           |                                   |  |  |  |  |
| -            |   |  |                          |                          |   | 35        |                                   |  |  |  |  |
| 40-          | ML  | SILT; brown; damp; hard; medium plasticity;  | 100                      | 1000                     | TRC-B7:40                               | 0.1       |                                   |  |  |  |  |
| 41-          |   | mostly silt, trace sand, trace gravel<br>ORGANIC SOIL; dark brown; hard; medium                      | 100                      | 50/6"                    |   | 0.0       |                                   |  |  |  |  |
| 42-          | 211   | plasticity, mostly silt-sized particles with what<br>appears to be organic material, slight odor     |                          |                          |   |           |                                   |  |  |  |  |
| C 24         | OL/OH   | apparte la siguine material, aligni odol   |                          |                          |   |           |                                   |  |  |  |  |
| 0.34         | 510H  |  |                          |                          |   |           |                                   |  |  |  |  |
| 44-          | At  |  |                          |                          |   |           |                                   |  |  |  |  |
| 45-          | 1771  | POORLY-GRADED SAND; grayish brown;   |                          | C                        | TRC-B7:45                               | 0.0       |                                   |  |  |  |  |
| 46-          |   | damp, very dense; mostly fine to<br>medium-grained sand, few gravel, few silt, iron                  | 100                      | 20, 50/6"                |   | 0.0       |                                   |  |  |  |  |
| 47-          |   | oxide staining throughout  | -7                       | 1                        |   |           |                                   |  |  |  |  |
| -            |   |  |                          |                          |   |           |                                   |  |  |  |  |
| 48-          | SP  |  |                          |                          |   |           |                                   |  |  |  |  |
| 49-          |   |  |                          |                          | A                                       |           |                                   |  |  |  |  |
| 50-          |   |  |                          |                          | TRC-B7:50                               | 0.0       |                                   |  |  |  |  |
| 51-          |   | 50' As above; reddish yellow to lighl reddish<br>brown color   | 80                       | 20, 50/6"                | 111-11-11-11-11-11-11-11-11-11-11-11-11 | 0.0       |                                   |  |  |  |  |
| 52           | - 12 (G)  | End of Borehole  |                          |                          |   |           |                                   |  |  |  |  |

NOTES:

| ->           | Tr            | C  | BORING                   | ID: TRC-B8               | -  |           |                                   |  |  |  |
|--------------|---------------|--|--------------------------|--------------------------|--|-----------|-----------------------------------|--|--|--|
|              | DDRESS        | + , W  |                          | CLIENT                   |  | -         |                                   |  |  |  |
| 1120 .       | John St       | Seattle, Wa  |                          | Onni Group               |  |           |                                   |  |  |  |
| DRILLI       | NG CONT       | RACTOR   | -                        | PROJECT #:               |  |           |                                   |  |  |  |
| Casca        | de Drill      | ing, LP  |                          | 15365                    |  |           |                                   |  |  |  |
|              | NG EQUIP      |  |                          | DATE                     |  |           |                                   |  |  |  |
| 1. m         | 104 Add 100 A | ed Rig - CME - 75  |                          | 11/2/2020                |  | _         |                                   |  |  |  |
|              | NG METH       |  |                          |                          | RFACE ELEV. FT                           | AMSL:     | DECOMMISSIONING MATERIAL          |  |  |  |
|              |               | Auger (HSA)  | _                        | Not Measu                |  | _         | Hydrated Bentonite                |  |  |  |
| OGGE         |               |  |                          | TOTAL DEPTI<br>51.5' bgs | 4:                                       |           | BOREHOLE SIZE:<br>8-Inch Diameter |  |  |  |
|              | inici         |  | 12                       |                          |  | 2         |                                   |  |  |  |
| Depth (feet) | USCS          | Description<br>USCS name; Color; Moisture, Density;<br>Plasticity; Dilatency; EPI description; Other | Interval &<br>% Recovery | Blows per 6"             | Sample                                   | PID (ppm) | Comments                          |  |  |  |
| 0_           | 1-2-17        | ~4" Thick Asphalt Surface<br>POORLY-GRADED SAND, grayish brown,                                      |                          |                          |  |           | 1                                 |  |  |  |
| 1-           |               | damp; loose; mostly fine to medium-grained   |                          |                          |  |           |                                   |  |  |  |
| 2-           |               | sand, trace silt, trace gravel   |                          |                          |  |           |                                   |  |  |  |
| 3-           |               |  |                          |                          |  |           |                                   |  |  |  |
| 1.14         |               |  |                          |                          |  |           |                                   |  |  |  |
| 4-           | 534           | 4' Asphalt   |                          |                          |  |           |                                   |  |  |  |
| 5-           |               |  |                          |                          |  |           |                                   |  |  |  |
| 6-           |               | 6' As above (Poorly-Graded Sand)   | -                        |                          | TRC-B8:6                                 | 0.5       |                                   |  |  |  |
| 7-           |               | A reaction of the second second  | 100                      | 4,6,6                    |  | 05        |                                   |  |  |  |
| -            |               |  | -                        |                          |  |           |                                   |  |  |  |
| 8-           | NGU.          |  |                          |                          |  |           |                                   |  |  |  |
| 9-           |               |  |                          |                          |  |           |                                   |  |  |  |
| 10-          | SP            | 10' As above   | -                        |                          | TRC-B8:10                                | 0.7       |                                   |  |  |  |
| 11-          | 문한물           | 10.5' Silt increases to few  | 100                      | 5,6,8                    |  | 0.7       |                                   |  |  |  |
|              | 1.20          | 11' Silt decreases to trace  | 1                        |                          |  |           |                                   |  |  |  |
| 12-          | 1963          |  |                          |                          |  |           |                                   |  |  |  |
| 13-          | 1988          |  |                          |                          |  |           |                                   |  |  |  |
| 14-          |               |  |                          |                          |  |           |                                   |  |  |  |
| 15-          | See.          |  |                          |                          | TRC-B8:15                                | 0.4       |                                   |  |  |  |
| 1.14         | 2528          | 15' As above, wet, no silt, no gravel  | 100                      | 6,8,12                   | 1. |           |                                   |  |  |  |
| 16-          | 593           |  |                          |                          |  | 0.6       |                                   |  |  |  |
| 17-          |               |  |                          |                          |  |           |                                   |  |  |  |
| 18-          | 8.54          |  |                          |                          |  |           |                                   |  |  |  |
| 19-          | 1.1           |  |                          |                          |  |           |                                   |  |  |  |
| 1.04         |               |  |                          |                          | TRC-B8:20                                | 0.8       |                                   |  |  |  |
| 20-          |               | SILT, reddish gray, dry, medium dense;<br>medium plasticity, mostly silt, trace fine gravel,         | 90                       | 6,15,20                  | TKG-08:20                                |           |                                   |  |  |  |
| 21-          |               | maybe few clay   |                          | 0,10,20                  |  | 0.7       |                                   |  |  |  |
| 22-          |               |  |                          |                          |  |           |                                   |  |  |  |
| 23-          | ML            |  |                          |                          |  |           |                                   |  |  |  |
| 1.1          |               |  |                          |                          |  |           |                                   |  |  |  |
| 24-          |               |  |                          |                          |  |           |                                   |  |  |  |
| 25-          | hunn          |  |                          |                          | TRC-B8:25                                | 0.6       |                                   |  |  |  |
| 26-          | ×             | POORLY-GRADED SAND WITH GRAVEL,<br>grayish brown; damp; very dense; mostly fine                      | 60                       | 50/5"                    |  | 0.3       |                                   |  |  |  |

| 1            | Tr                                       |   | BORING                              | ID: TRC-B8   | 2             |           |  |  |  |
|--------------|--|---|-------------------------------------|--------------|---------------|-----------|--|--|--|
|              | DRESS                                    |   |                                     | CLIENT       |               |           |  |  |  |
| 1120 J       | John S                                   | t, Seattle, Wa  |                                     | Onni Group   |               |           |  |  |  |
|              |  | RACTOR  |                                     | PROJECT #:   |               |           |  |  |  |
|              |  | ling, LP  | _                                   | 15365        |               |           |  |  |  |
|              | IG EQUI                                  |   |                                     | DATE         |               |           |  |  |  |
| A 444 A 44   | 10-10-10-10-10-10-10-10-10-10-10-10-10-1 | ed Rig - CME - 75   | -                                   | 11/2/2020    |               | 44101     |  |  |  |
|              | IG METH                                  |   |                                     | Not Measu    | RFACE ELEV FT | AMSL.     | DECOMMISSIONING MATERIAL<br>Hydrated Bentonite |  |  |
| OGGE         |  | Auger (HSA)   | - 1                                 | TOTAL DEPTI  |               | -         | BOREHOLE SIZE:                                 |  |  |
| N. Dor       |  |   |                                     | 51.5' bgs    | Č             |           | 8-Inch Diameter                                |  |  |
| Depth (feet) | USCS                                     | Description<br>USCS name; Color; Moisture; Density;   | Interval &<br>% Recovery            | Blows per 6" | Sample        | (mqq) Cl4 | Comments                                       |  |  |
| Depti        | ŝ  | Plasticity; Dilatency; EPI description; Other   | Inte<br>% Re                        |              | oumpie        | Ē         | Comments                                       |  |  |
| 1            | 1014                                     | sand, minor medium-grained sand, minor fine   | - Q                                 |              |               | 1         | -  |  |  |
| 27-          | 신산                                       | to coarse-grained gravel, trace silt  |                                     |              |               |           |  |  |  |
| 28-          |  |   |                                     |              |               |           |  |  |  |
| 29-          |  |   |                                     |              |               |           |  |  |  |
| 30-          |  |   | -                                   |              | TRC-B8.30     | 03        |  |  |  |
|              | 138                                      | 30' As above  | 50                                  | 50/6"        | arra series   | 1.00      |  |  |  |
| 31-          | Se                                       |   |                                     | 1.112        |               | 01        |  |  |  |
| 32-          | SP                                       |   |                                     |              |               |           |  |  |  |
| 33-          |  |   |                                     |              |               |           |  |  |  |
| 34-          | 7.1.1                                    |   |                                     |              |               |           |  |  |  |
| 35-          | 28                                       |   |                                     |              | TDC D0-35     | 0.2       |  |  |  |
| -            |  | 35' As above; silt increases to few; crushed rock in sampler  | 50                                  | 50/6"        | TRC-B8:35     | 0.3       |  |  |  |
| 36-          |  | Total II Sumpton  | 50                                  | 50/0         |               | 0.4       |  |  |  |
| 37-          |  |   |                                     |              |               |           |  |  |  |
| 38-          | 42.9                                     |   |                                     |              |               |           |  |  |  |
| 39-          |  |   |                                     |              |               |           |  |  |  |
| -            |  |   |                                     |              | 111 100 M     | 15.7      |  |  |  |
| 40-          |  | SILTY SAND WITH GRAVEL; reddish gray;   | 1                                   | -            | TRC-B8:40     | 1.2       |  |  |  |
| 41-          |  | damp to moist; very dense; mostly fine to<br>medium-grained sand, minor silt, few fine to                         | 50                                  | 50/6"        |               | 1.5       |  |  |  |
| 42-          |  | coarse-grained gravel   |                                     |              |               |           |  |  |  |
| 43-          |  |   |                                     |              |               |           |  |  |  |
| 0.5          |  |   |                                     |              |               |           |  |  |  |
| 44-          |  |   |                                     |              |               | 100       |  |  |  |
| 45-          | SM                                       | 45' As above; light olive brown color; damp   | 100 - 100<br>100 - 100<br>100 - 100 | 1.2.1        | TRC-B8:45     | 0.6       |  |  |  |
| 46-          |  | 46' Iron oxide staining   | 50                                  | 50/6"        |               | 0.8       |  |  |  |
| 47-          |  | 22 0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -  | 1                                   |              |               |           |  |  |  |
|              |  |   |                                     |              |               |           |  |  |  |
| 48-          |  |   |                                     |              |               |           |  |  |  |
| 49-          |  |   |                                     |              |               |           |  |  |  |
| 50-          |  | GRAVELLY SILT WITH SAND; light olive  |                                     | 4            | TRC-B8:50     | 0.4       |  |  |  |
| 51-          | ML                                       | brown; damp; very dense; mostly silt, some<br>fine to coarse-grained gravel, minor fine to<br>medium-grained sand | 75                                  | 25, 50/6"    |               | 0.4       |  |  |  |
| -52          |  | End of Borehole   |                                     |              |               | -         | -  |  |  |

| 7 11.0   |                |   |                          |                               | BORING ID: TRC-B9 |            |                                    |  |  |  |
|--|----------------|---|--------------------------|-------------------------------|-------------------|------------|------------------------------------|--|--|--|
| -  |                |   |                          | CLIENT                        |                   | -          |                                    |  |  |  |
| 120  | John St        | , Seattle, Wa   |                          | Onni Grou                     | p                 |            |                                    |  |  |  |
| RILLIN   | NG CONT        | RACTOR:   | -                        | PROJECT #:                    |                   |            |                                    |  |  |  |
|  |                | ling, LP  |                          | 15365                         |                   |            |                                    |  |  |  |
|  | NG EQUIF       |   |                          | DATE                          |                   |            |                                    |  |  |  |
| 10 B   | Second Second  | ed Rig - CME - 75   |                          | 11/2/2020                     |                   |            |                                    |  |  |  |
|  | NG METH        |   |                          | GROUND SURFACE ELEV. FT AMSL. |                   |            | DECOMMISSIONING MATERIAL           |  |  |  |
|  |                | Auger (HSA)   | _                        | Not Measu                     | 1604              | -          | Hydrated Bentonite                 |  |  |  |
|  | D BY:<br>rfner |   |                          | TOTAL DEPTI<br>51.5' bgs      | HC.               |            | BOREHOLE SIZE:<br>8-Inch Diameter  |  |  |  |
| Depth (feet)                                       | USCS           | Description<br>USCS name; Color; Moisture, Density;<br>Plasticity; Dilatency; EPI description; Other  | Interval &<br>% Recovery | Blows per 6"                  | Sample            | PID (ppm)  | Comments                           |  |  |  |
| 0_<br>1-<br>2-<br>3-<br>4-<br>5-<br>6-<br>7-<br>8- | SP             | <ul> <li>-4" Thick Asphalt Surface<br/>POORLY-GRADED SAND WITH GRAVEL;<br/>grayish brown; damp; loose; mostly fine to<br/>medium-grained sand, minor gravel, few silt</li> <li>5' As above; medium dense</li> <li>6' Pieces of concrete and other debris in mouth<br/>of sampler</li> </ul> | 40                       | 12,20, 50/2"                  | TRC-B9:5          | 1.3<br>5.5 | 6' ∝ 10' Hard Drilling             |  |  |  |
| 9-<br>10-<br>11-<br>12-<br>13-                     |                | SILT; reddish gray; dry; medium dense; mostly<br>silt, few fine to coarse-grained gravel, trace<br>sand, maybe few clay, no odor  | 100                      | 3,9,12                        | TRC-89:10         | 10<br>0.8  |                                    |  |  |  |
| 14-<br>15-<br>16-<br>17-<br>18-                    | ML             | 15' As above, damp  | 100                      | 9,10,18                       | TRC-89:15         | 0.7<br>0.6 | 15' Water in top of sampler (sluft |  |  |  |
| 19-<br>20-<br>21-<br>22-                           |                | 20' As above  | 60                       | 12,15,22                      | TRC-B9:20         | 0.5<br>0.5 |                                    |  |  |  |
| 23-<br>24-<br>25-<br>26-                           | SP             | POORLY-GRADED SAND; grayish brown;  | 100                      | 11,20,37                      | TRC-B9:25         | 10.        |                                    |  |  |  |

| E ADDRESS CLIENT: CLIENT: 20 John St, Seattle, Wa Onni Group PROJECT #: scade Drilling, LP 15365 LLING EQUIPMENT: DATE: Inck Mounted Rig - CME - 75 11/2/2020   |                         | 2S   |                         | 0.00.000                     | ID: TRC-B9 |           |                          |  |  |
|---|-------------------------|--|-------------------------|------------------------------|------------|-----------|--------------------------|--|--|
| LING CONTRACTOR<br>scade Drilling, LP<br>LING COURNENT<br>LING COURNENT |                         |  |                         | CLIENT                       |            | -         |                          |  |  |
| scade Drilling, LP     15365       LLING EQUIPMENT<br>(ck Mounted Rig - CME - 75     DATE       JUNC BEUUPMENT<br>(ck Mounted Rig - CME - 75     11/2/2020       LLING METHOD     SGROUND SURFACE ELEV, FT AMSL<br>Mot Measured     Decommissioning MATERIA<br>Hydrated Bentonite<br>SGROUND SURFACE ELEV, FT AMSL<br>Hydrated Bentonite<br>SGROUND SURFACE ELEV<br>SGROUND SURFACE EL  | 20 John St              | , Seattle, Wa  |                         |                              |            |           |                          |  |  |
| LING EQUIPMENT     DATE       LING ECUIPMENT     DATE       LING METHOD     TI2/2020       Itow Method     TI2/2020       Itow Method     Not Measured       Definer     Description       USCS name Color, Mosture, Density,<br>Treed of the send, Dinner Str.     Description       USCS name, Color, Mosture, Density,<br>Treed of the send, Dinner Str.     Sample       Str.     Description<br>USCS name, Color, Mosture, Density,<br>Treed of the send, Dinner Str.     Sample       Str.     Description<br>USCS name, Color, Mosture, Density,<br>Treed of the send, Dinner Str.     Sample       Str.     Description<br>USCS name, Color, Mosture, Density,<br>Treed of the to medium graned send, minor set,<br>and the send, minor set,<br>medium, graned send, minor set,<br>medium, bic coarse-graned gravel     Soft     TRC-B9:40     12       Str.     Str. T. Exown, damp, very dense, moody file<br>set, table bio box minor, wery dense, moody file<br>set, table bio box minor, wery dense, moody file<br>medium bic coarse-graned gravel     Soft     TRC-B9:45     0.8       Str.     Str. T. Exown, damp, very dense, moody file<br>medium, gravery dense, m  | LLING CONT              | RACTOR   |                         |                              |            |           |                          |  |  |
| State     11/2/2020       CROWN SURFACE LEVY FT AMSL.     DECOMMISSIONIG MATERIAL<br>Model Measured     Hydrated Bentonite<br>Hydrated Bentonite       Dorfner     TOTAL DEPTH.     BORHOLE SIZE:<br>SILS' bgs     DORCHOLE SIZE:<br>SILS' bgs       Dorfner     Description<br>USCS mame: Cobr Measure Densyl;<br>Plasticity, Diatoncy, EPI description, Other     Image: Sils of the sils of th   |                         |  |                         |                              |            |           |                          |  |  |
| LLING METHOD     GROUND SURFACE ELEV FT AMSL.     DECOMMISSIONING MATERIA<br>Not Measured       Not Measured     Dordner       Definer     Description       USCS mame. Core Mosture. Density<br>Plasticity. Dialoncy. EPI description. Other     Set BY<br>Set BY       Image: Set By<br>Definer     Description       Image: Set By<br>Definer     Description.<br>USCS mame. Core Mosture. Density<br>Plasticity. Dialoncy. EPI description. Other     Set By<br>Set By<br>Definer       Image: Set By<br>Definer     Comments       Image: Set By<br>Description     Set By Description.<br>USCS mame. Core Mosture. Density<br>modum graned gravel. few sit     Set By<br>Description       Image: Set By<br>Description     Set By<br>Description.     Set By<br>Description.     Set By<br>Description.       Image: Set By<br>Description     Set By<br>Description.     Set By<br>Description.     Set By<br>Description.       Image: Set By<br>Description     Set By Description.     TRC-B9.30     0.7       Image: Set By<br>Description     Set By Description.     TRC-B9.30     0.7       Image: Set By Description     Set By Description.     TRC-B9.30     0.7       Image: Set By Description     Set By Description.     TRC-B9.30     0.7       Image: Set By Description     Set By Description.     TRC-B9.40     1.2       Image: Set By Description     Set By Description.     Set By Description.     TRC-B9.45     0.8       Image: Set By Descript   |                         |  |                         | and the second second second |            |           |                          |  |  |
| Not Measured     Hydrated Bentonite       SGED BY     TOTAL DEPTH     SORPHIC       00rfner     TOTAL DEPTH     BOREHOLE SIZE       01     USCS mame. Color, Mosture Density,<br>USCS mame. Color, Mosture Jeans, mand<br>modum.grained gane, medum dense to dense,<br>medum.grained gane, Issue<br>SP,     Sample     E     Comments       78     Sam, USCS mame. Color, Mosture Jeans,<br>USCS Mame. Color, Mosture Jeans, Minor<br>modum.grained gane, Issue<br>SP,     100     50/6°     TRC-B9.30     0.7       78     30° As above, readdish gray, wel<br>30° Coarse gravel in sampler     100     50/6°     TRC-B9.35     0.8       78     30° As above, wel<br>30° Coarse gravel in sampler     90     50/6°     TRC-B9.40     1.2       78     30° As above, wel<br>30° Coarse gravel in sampler     90     50/6°     TRC-B9.45     0.8       79     SM     30° As above, wel<br>30° Coarse gravel in sampler     90     50/6°     TRC-B9.45     0.8       79     SM     SILTY SAND WITH GRAVEL, paysish brown to<br>light lowe brown, most, very dense, mostly film     90     50/6°     TRC-B9.45     0.8  | 211 C. 100 Carl 10 Carl | an and the second second   | _                       | hand the first second        |            |           |                          |  |  |
| SEED BY     Description     Bookstand       03     USCS name, Color. Mosture, Density,<br>Plasted, Dialatery, EPI description, Other     10       17     USCS name, Color. Mosture, Density,<br>Plasted, Dialatery, EPI description, Other     10       17     Procent / GRADED SAND WITH GRAVEL.     100       18     SP     modulum graned gravel, flow sit     100       19     SP     Mathematical gravel, flow sit     100       10     30' As above, reddish gray, well     100     50/6"     17       11     SILTY SAND WITH GRAVEL, reddish gray, mell     50/6"     17     0.8       14     SILTY SAND WITH GRAVEL, reddish gray, mell     50/6"     0.8       15     SM     35' As above, well     90     50/6"     12       16     SILTY SAND WITH GRAVEL graysh brown for gravel in sampler     50/6"     12       16     SM     SILTY SAND WITH GRAVEL graysh brown for gravel in sampler     60       16     SILTY SAND WITH GRAVEL graysh brown for gravel and, moot gravel and, no odar     60     50/6"     12       18     SILTY SAND WITH GRAVEL graysh brown for gravel and, moot gravel and,   |                         |  |                         |                              |            | AMSL:     | DECOMMISSIONING MATERIAL |  |  |
| Dorfner     51.5' bgs     B-Inch Diameter       0   |                         | Auger (HSA)  | _                       |                              |            |           |                          |  |  |
| Bitses       Description       Bitses       Bitses       Sample       G         7       g       Sample       G       Comments         7       g       Sample       G       Comments         9       SP       moduling graned gravel, flow set       100       50/6°       TRC-B9.30       0.7         9       30° As above, reddish gray, wel       100       50/6°       TRC-B9.30       0.7         2       SF       moduling graned gravel, flow set       100       50/6°       0.8         30° As above, reddish gray, wel       100       50/6°       0.8       0.8         31       SILTY SAND WITH GRAVEL, reddish gray, mel       100       50/6°       0.8         36° Coarse gravel       90       50/6°       TRC-B9.35       0.8         36° Coarse gravel in sampler       90       50/6°       TRC-B9.40       12         37       Sill TY SAND WITH GRAVEL, graysh brown to flight dive brown to flight dive brown, mask, way dense, mostly fill few doo       50/6°       TRC-B9.40       12         38       Sill TY SAND WITH GRAVEL, graysh brown to flight dive brown, mask, way dense, mostly fill few doo       50/6°       TRC-B9.45       0.8         39       Sill TY SAND WITH GRAVEL, graysh brown to flight dive brown, mask, way de   |                         |  |                         |                              | £.         |           |                          |  |  |
| 77     Nand/ tace still       78     Symptotic Start Star   |                         |  |                         | 51.5 bgs                     |            |           | o-men Diameter           |  |  |
| 77     Nand/ tace still       78     Symptotic Start Star   | nscs                    | Description<br>USCS name; Color; Moisture, Density;<br>Plasticity, Dilatency, EPI description, Other   | Interval &<br>% Recover | Blows per 6"                 | Sample     | PID (ppm) | Comments                 |  |  |
| 1       SUC As above, retuins (gray, wet)       100       50/6"       0.8         2       SIL TY SAND WITH (GRAVEL); raddish gray, manor gravel       00       50/6"       0.8         3       35' As above, wet)       90       50/6"       0.8         36' Coarse gravel in sampler       90       50/6"       0.8         36' Multifies       SIL TY SAND WITH (GRAVEL, graysh brown to gravel)       0.8       0.8         37       SIL TY SAND WITH (GRAVEL, graysh brown to gravel)       50/6"       0.8         38       SIL TY SAND WITH (GRAVEL, graysh brown to gravel)       50/6"       0.6         39       SIL TY SAND WITH (GRAVEL, graysh brown to gravel)       60       50/6"       0.6         39       SIL TY SAND WITH GRAVEL, graysh brown to gravel       60       50/6"       0.6         39       SIL TY SAND WITH GRAVEL, graysh brown to gravel       60       50/6"       0.6         39       GRAVELLY SILT WITH SAND, light olive brown, most, more sin, minor medium to coarse-grained gravel, minor sin       60       22, 50/6"   | 8-<br>9-                | \sand, trace silt<br>POORLY-GRADED SAND WITH GRAVEL;<br>grayish brown; damp; medium dense to dense;<br>mostly fine to medium-grained sand, minor   |                         |                              |            | l,        |                          |  |  |
| 2       SILTY SAND WITH GRAVEL, reddish gray, mostly fine sand, minor silt, minor gravel       0.8         3       35' As above, wel       90       50/6"       0.8         3       36' Coarse gravel in sampler       90       50/6"       0.8         7       36' Coarse gravel in sampler       90       50/6"       0.8         9       50/6"       0.8       0.8         9       SILTY SAND WITH GRAVEL, grayish brown to inght olive brown, mostly, very dense, mostly silt, few 60       50/6"       0.6         1       SILTY SAND WITH GRAVEL, grayish brown to inght olive brown, mostl, very dense, mostly fine       60       50/6"       0.6         8       SILTY SAND WITH GRAVEL, grayish brown to inght olive brown, mostl, very dense, mostly fine       60       50/6"       0.8         9       SILTY SAND WITH GRAVEL, grayish brown to inght olive medum to coarse-grained gravel       60       50/6"       TRC-B9.45       0.8         6       SM       SM       50/6"       0.6       0.6       0.6         7       SM       SM       SM       50/6"       0.8       0.6         8       SM       SM       SM       50/6"       0.6       0.3         9       SM       SM       50/6"       0.6       0.6 <td>0-</td> <td>30' As above; reddish gray; wet</td> <td></td> <td>Sec. 1</td> <td>TRC-B9.30</td> <td>07</td> <td></td>  | 0-                      | 30' As above; reddish gray; wet  |                         | Sec. 1                       | TRC-B9.30  | 07        |                          |  |  |
| 2       model, very dense, mostly fine sand, minor silt, minor gravel       TRC-B9:35       0.8         36' Coarse gravel in sampler       90       50/6'       0.8         36' Sim       36' Coarse gravel in sampler       90       50/6'       0.8         36' Maximum damp, very dense; mostly silt, few fine to coarse-grained sand, no odor       60       50/6''       0.6         36' Maximum damp, very dense; mostly silt, few fine to coarse-grained sand, no odor       60       50/6''       0.6         36' Maximum damp, very dense; mostly silt, few fine to coarse-grained sand, no odor       60       50/6''       0.6         36' Maximum damp, very dense; mostly silt, few fine to coarse-grained sand, no odor       60       50/6''       0.6         36' Maximum damp, very dense; mostly silt, fiew fine to coarse-grained gravel       60       50/6''       0.8         36' Maximum damp, very dense; mostly filt minor medium to coarse-grained gravel       60       50/6''       0.6         36' Maximum damp, very dense; mostly silt, filt minor medium to coarse-grained gravel       7       0.6       0.6         36' Maximum damp, very dense; mostly silt, minor medium to coarse-grained gravel       7       0.6       0.3         36' Maximum damp, very dense; mostly silt, minor medium to coarse-grained gravel, minor sand       7       0.6       0.3         36' Maximum da  | 1-                      | SILTY SAND WITH GRAVEL reddish grav  | 100                     | 50/6"                        |            | 0.8       |                          |  |  |
| 6     SM     36' As above, welt     90     50/6"     0.8       7     36' Coarse gravel in sampler     90     50/6"     0.8       9     SILT; brown; damp; very dense; mostly silt, few fine to coarse-grained sand, no odor     60     50/6"     12       1     SILT; brown; damp; very dense; mostly silt, few fine to coarse-grained sand, no odor     60     50/6"     0.6       3     SILTY SAND WITH GRAVEL grayish brown to to medium-grained sand, minor it minor imedium to coarse-grained gravel     60     50/6"     TRC-B9.45     0.8       6     Silt Y SAND WITH GRAVEL grayish brown to medium to coarse-grained gravel     60     50/6"     0.6       5     Silt M     Silt TY SAND WITH GRAVEL grayish brown to medium to coarse-grained gravel     60     50/6"     0.6       6     Silt M     GRAVELLY SILT WITH SAND; light olive brown, moist, very dense; mostly silt, minor medium to coarse-grained gravel     80     22, 50/6"     0.6       9     GRAVELLY SILT WITH SAND; light olive brown, damp; very dense; mostly silt, minor fine to coarse-grained, minor sand     80     22, 50/6"     0.6   | 3-                      | moist; very dense, mostly fine sand, minor silt,   |                         |                              |            |           |                          |  |  |
| 66     90     50/6"     0.8       77     36" Coarse gravel in sampler     90     50/6"     0.8       99     50/6"     TRC-B9:40     1.2       90     50/6"     0.6       91     SILT: brown: damp; very dense; mostly silt, few<br>fine to coarse-grained sand. no odor     60       91     SILT: SAND WITH GRAVEL, grayish brown to<br>light olive brown, moist, very dense; mostly fine<br>to medium; to coarse-grained gravel     50/6"     TRC-B9:45     0.8       91     SM     SILTY SAND WITH GRAVEL, grayish brown to<br>inedium to coarse-grained gravel     60     50/6"     TRC-B9:45     0.8       92     SM     GRAVELLY SILT WITH SAND; light olive<br>brown; damp; very dense; mostly silt, minor<br>fine to coarse-grained gravel, minor sand     80     22, 50/6"     TRC-B9:50     0.6       93     GRAVELLY SILT WITH SAND; light olive<br>brown; damp; very dense; mostly silt, minor<br>fine to coarse-grained gravel, minor sand     80     22, 50/6"     0.6   |                         | 251 As shares wet  |                         |                              | TRC-B9:35  | 0.8       |                          |  |  |
| 30 Coarse graver in sampler         8         9         0         1   |                         |  | 90                      | 50/6"                        |            | 0.8       |                          |  |  |
| 0       5ILT; brown; damp; very dense; mostly silt, few fine to coarse-grained sand, no odor       60       50/6"       TRC-B9:40       1.2         1       0.6       0.6       0.6       0.6         3       SILTY SAND WITH GRAVEL, grayish brown to i light olive brown; moist, very dense; mostly fine to medium-grained sand, minor silt, minor medium to coarse-grained gravel.       50/6"       TRC-B9:45       0.8         3       SiLTY SAND WITH GRAVEL, grayish brown to to medium-grained sand, minor silt, minor medium to coarse-grained gravel.       60       50/6"       TRC-B9:45       0.8         3       Silt GRAVELLY SILT WITH SAND, light olive brown; damp, very dense; mostly silt, minor fine to coarse-grained gravel.       50/6"       TRC-B9:50       0.6         4       GRAVELLY SILT WITH SAND, light olive brown; damp, very dense; mostly silt, minor fine to coarse-grained gravel, minor sand       80       22, 50/6"       TRC-B9:50       0.6   | 7-<br>8-                | 36 Coarse gravel in sampler  |                         |                              |            |           |                          |  |  |
| Image: Substrate of the book and the bo   |                         | and the second sec |                         |                              | TDC PO-40  | 12        |                          |  |  |
| 1       0.6         2       ML         3       ML         4       5         5       SiLTY SAND WITH GRAVEL: grayish brown to light olive brown; moist; very dense; mostly fine to medium-grained sand, minor silt, minor medium to coarse-grained gravel.       TRC-B9:45       0.8         6       50/6"       0.6         7       SM       GRAVELLY SILT WITH SAND; light olive brown; damp; very dense; mostly silt, minor fine to coarse-grained gravel.       TRC-B9:50       0.6         9       0       GRAVELLY SILT WITH SAND; light olive brown; damp; very dense; mostly silt, minor fine to coarse-grained gravel, minor sand       80       22, 50/6"       0.3  |                         |  | pin.                    | 50/8/                        | TRG-89:40  |           |                          |  |  |
| 5       0.8         6       1       1       SILTY SAND WITH GRAVEL, grayish brown to light olive brown, moist, very dense; mostly fine for medium-grained sand, minor silt, minor medium to coarse-grained gravel       50/6"       0.8         7       8       50/6"       0.6         8       9       0       50/6"       0.6         9       0       GRAVELLY SILT WITH SAND, light olive brown; damp; very dense; mostly silt, minor fine to coarse-grained gravel, minor sand       80       22, 50/6"       0.6         ML       GRAVELLY SILT WITH SAND, light olive brown; damp; very dense; mostly silt, minor sand       80       22, 50/6"       0.3   | 2-<br>- ML<br>3-        | ing to exercise grained parts, no outr   |                         | 30/0                         |            | 0,6       |                          |  |  |
| 6-     7-     8-     50/6"     0.6       7-     8-     9-     0.6       9-     0-     60     50/6"     0.6       9-     0-     0.6     50/6"     0.6       9-     0-     0.6     50/6"     0.6       9-     0-     0.6     50/6"     0.6       9-     0-     0.6     50/6"     0.6       9-     0-     0.6     50/6"     0.6       9-     0-     0.6     50/6"     0.6       9-     0-     0.6     50/6"     0.6       9-     0-     0.6     50/6"     0.6       9-     0-     0.3     0.3  |                         |  |                         |                              |            | 1.2       |                          |  |  |
| 6-     1     to medium-grained sand, minor silt, minor medium to coarse-grained gravel     0.6       7-     SM     SM     0.6       8-     9-     0     TRC-B9.50     0.6       0-     ML     Brown; damp; very dense; mostly silt, minor fine to coarse-grained gravel, minor sand     80     22, 50/6"     0.3  |                         | SILTY SAND WITH GRAVEL, grayish brown to   |                         | FRION                        | TRC-B9:45  | 0.8       |                          |  |  |
| 0<br>1<br>GRAVELLY SILT WITH SAND: light olive<br>brown; damp; very dense; mostly silt, minor<br>fine to coarse-grained gravel, minor sand<br>End of Borehole<br>TRC-B9:50<br>0.6<br>0.3  | 7-<br>SM                | to medium-grained sand, minor silt, minor  | 60                      | 0/00                         |            | 0.6       |                          |  |  |
| ML     GRAVELLY SILT WITH SAND, light onverse; mostly silt, minor     80     22, 50/6"     0.3       End of Borehole     0.3  | -                       |  |                         |                              |            |           |                          |  |  |
|   |                         | brown; damp; very dense; mostly silt, minor<br>fine to coarse-grained gravel, minor sand   | 80                      | 22, 50/6"                    | TRC-B9/50  | 1.42      |                          |  |  |
|   |                         | End of Borehole  |                         |                              |            |           |                          |  |  |
| N NUL-NO.   |                         |  |                         |                              |            |           |                          |  |  |

| <b>↔</b> 1   |           |  |   |    | BORING       | ID: MW-9S      |  |                 |  |  |
|--|-----------|--|---|----|--------------|----------------|--|-----------------|--|--|
| SITE AD  |           |  |   |    | CLIENT:      |                |  | CASING MATERIAL | AND SIZE:  |  |
| 1120 J   | ohn St,   | Seattle, Wa  |   |    | Onni Grou    | р              |  | 2" Sch 40 PVC   |  |  |
|  | IG CONTF  |  |   |    | PROJECT #:   | -              | SCREEN SIZE:                           |                 |  |  |
|  | de Drilli | •  |   |    | 15365        |                |  | 0.010" Slot     |  |  |
|  | IG EQUIP  |  |   |    | DATE:        |                |  | SCREEN INTERVA  | L:   |  |
|  |           | d Rig - CME -  | 75  |    | 11/4/2020    |                |  | 11'-21' bgs     |  |  |
|  |           |  |   |    | Not Measu    | RFACE ELEV. FI | I AMSL:                                | FILTER PACK:    |  |  |
| LOGGE  |           | Auger (HSA)  | BOREHOLE SIZE:  |    | TOTAL DEPT   |                |  | Silica Sand     | RVAL ·   |  |
| N. Dor   |           |  | 8-Inch Diameter   |    | 21.5' bgs    |                |  | 9'-21' bgs      |  |  |
| Depth (feet)   | nscs      | Description<br>USCS name; Color; Moisture; Density;<br>Plasticity; Dilatency; EPI description; Other |   |    | Blows per 6" | Sample         | PID (ppm)                              | Well Cons       | truction   |  |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | SP        | grayish brown; da<br>medium-grained<br>medium-grained<br>6' As above<br>7.5' Silt increases          | ED SAND WITH GRAVEL;<br>amp; loose; mostly fine to<br>sand, minor fine to<br>gravel, trace silt               | 60 | 6,7,10       |                | 0.7<br>0.6<br>0.5<br>0.7<br>0.5<br>0.3 |                 | Traffic-Rated<br>Monument Set<br>in Concrete<br>Hydrated<br>Bentonite<br>Chips<br>Well Casing<br>Silica Sand<br>Filter Pack<br>Well Screen |  |
| 20   | ML        | medium dense; r<br>coarse-grained g<br>21' Color become  | ; grayish brown; damp;<br>nostly silt, minor fine to<br>ravel, trace sand<br>es reddish gray<br>d of Borehole | 80 | 17,22,24     |                | 0.5<br>0.5                             |                 | End Cap  |  |

NOTES: Air Vac'd to ~6' bgs. No samples collected ATD.

|  | TRO  |   |  |   | BORING                                 |                               |  |             |            |                                |
|--|--|---|--|---|--|-------------------------------|--|-------------|------------|--------------------------------|
| _  | DDRESS   |   |  |   | CLIENT:                                |                               | -  | CASING MA   | ATERIAL AN | D SIZE                         |
| 120  | John St.   | Seattle, Wa   |  |   | Onni Group                             |                               |  | 2" Sch 40   | PVC        |                                |
|  | NG CONT  |   |  |   | PROJECT #:                             |                               |  | SCREEN SIZE |            |                                |
| asc  | ade Drill  | ing, LP   |  |   | 15365                                  |                               | 0.010" Slot  |             |            |                                |
| RILLI  | NG EQUIP   | MENT:   |  |   | DATE:                                  |                               | SCREEN IN  | TERVAL:     |            |                                |
| ruck   | Mounte   | d Rig - CME   | - 75   |   | 11/3/2020                              |                               | 95'-110' b   | ogs         |            |                                |
| RILLI  | NG METH  | OD  |  |   | GROUND SUR                             | RFACE ELEV. FT                | AMSL:  | FILTER PAG  | CK:        |                                |
| lollo  | w-Stem   | Auger (HSA)   | )  |   | Not Measur                             | red                           |  | Silica Sa   | nd         |                                |
| OGGED BY: BOREHOLE SIZE:   |  |   |  | TOTAL DEPTH                                       | FILTER PAG                             |                               | AL   |             |            |                                |
|  | Oorfner 8-Inch Diameter  |   |  | 111.5' bgs  | 93'-110' k                             | ogs                           |  |             |            |                                |
| Depth (feet)   | w Description<br>USCS name; Color; Moisture; Density;<br>Plasticity; Dilatency; EPI description, Other |   | #<br>Interval &<br>% Recovery  | Blows per 6"                                      | Sample                                 | PID (ppm)                     | We   | ll Constru  | ction      |                                |
| 0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24<br>25 | SP<br>SP   | GRAVELLY SI<br>dense; mostly<br>POORLY-GRA<br>wet; very dens<br>medium-graine | ADED SAND WITH GRAVE<br>damp; loose; mostly fine to<br>ed sand, minor fine to<br>ed gravel, trace silt<br>ecomes medium dense<br>ADED SAND; grayish brow<br>e, mostly fine to<br>ed sand, few silt<br>ILT; grayish brown; damp;<br>silt, minor gravel<br>ADED SAND; grayish brow<br>nse; mostly fine to<br>ed sand, few silt | o<br>50<br>50<br>100<br>very 80<br>n; 80<br>n; 80 | 9,10,10<br>50/6"<br>50/6"<br>18, 50/6" | MW-9:10<br>MW-9:15<br>MW-9:20 | 0.2<br>0.1<br>0.3<br>0.3<br>0.1<br>0.1<br>0.1<br>0.2 |             |            | Hydrated<br>Bentonite<br>Chips |
| 25<br>26<br>27<br>28   | ML   | SILT; reddish g<br>silt, few sand,  | gray; damp; medium stiff; n<br>few gravel, no odor   | 75  | 12,20,25                               | INIYY-9.25                    | 0.1  |             |            |                                |

| •>1          | <b>IR</b>                                       |   |  | BORING ID: MW-9          |                            |                |             |             |                  |  |
|--------------|---|---|--|--------------------------|----------------------------|----------------|-------------|-------------|------------------|--|
|              | DRESS   |   |  |                          | CLIENT:                    |                |             | CASING M    | ATERIAL AND SIZE |  |
| 1120 J       | ohn St  | , Seattle, Wa   |  |                          | Onni Group                 | 0              | 2" Sch 4    | PVC         |                  |  |
| DRILLIN      | IG CONT   | RACTOR  |  |                          | PROJECT #:                 |                | SCREEN SIZE |             |                  |  |
| Casca        | de Dril   | ling, LP  |  |                          | 15365                      |                |             | 0.010" Slot |                  |  |
| DRILLIN      | IG EQUIF  | MENT:   | 2  |                          | DATE:                      |                |             | SCREEN IN   | ITERVAL:         |  |
|              |   | ed Rig - CME  | - 75   |                          | 11/3/2020                  |                | -           | 95'-110' b  |                  |  |
|              | IG METH   |   |  |                          | Contracting Contraction of | RFACE ELEV. FT | AMSL:       | FILTER PA   |                  |  |
|              | ollow-Stem Auger (HSA)                          |   |  |                          | Not Measur                 | 18 A.C.        |             | Silica Sa   |                  |  |
| N. Dor       | ED BY: BOREHOLE SIZE:<br>orfner 8-Inch Diameter |   |  |                          | TOTAL DEPTH                | Į.             |             | 93'-110' L  | CK INTERVAL:     |  |
|              |   |   | - T - 6 6 7  | x Z                      | TTIO Dg5                   |                | Ê           | 55-110 1    | /93              |  |
| Depth (feet) | NSCS  | USCS name   | Description<br>; Color; Moisture; Density;<br>ency; EPI description; Other | Interval &<br>% Recovery | Blows per 6"               | Sample         | PID (ppm)   | We          | II Construction  |  |
| 29 -         |   |   |  |                          |                            |                |             |             |                  |  |
| 30 -         | ЩЩ  |   | ADED SAND WITH GRAVEL:   | _                        |                            | MW-9:30        | 0.1         |             |                  |  |
| 31           | 1933  | gravish brown   | damp; medium dense; mostly   | 60                       | 12,18,22                   |                | 0.3         |             |                  |  |
| -            | 25.52   | fine to medium<br>trace silt  | n-grained sand, minor gravel,  | -                        |                            |                | 0.0         |             |                  |  |
| 32 -         | 1.51  |   |  |                          |                            |                |             |             |                  |  |
| 33 -         |   |   |  |                          |                            |                |             |             |                  |  |
| 34 -         |   | 1.0.0   |  |                          |                            |                |             |             |                  |  |
| 35           | 금요일   | 35' As above; sand content is dominantly fine sand; crushed rock in sampler |  |                          | · · · · · ·                | MW-9:35        | 0.2         |             |                  |  |
| 36 -         |   |   |  | 75                       | 50/6"                      |                | 0.2         |             |                  |  |
| -            |   |   |  | -                        |                            | 1              | 0.2         |             |                  |  |
| 37 -         |   |   |  |                          |                            |                |             |             |                  |  |
| 38 -         |   |   |  |                          |                            |                |             |             |                  |  |
| 39 -         |   |   |  |                          |                            |                |             |             |                  |  |
| 40           | SP  | 40' As above;   | reddish gray, very dense, silt   |                          | ++1                        | MW-9:40        | 0.2         |             |                  |  |
| 41           |   | increases to fe   | w; no odor   | 75                       | 50/6"                      |                | 0.2         |             |                  |  |
|              | $T \in \mathcal{T}_{1}$                         |   |  | -                        |                            |                | 0,2         |             |                  |  |
| 42 -         |   |   |  |                          |                            |                |             |             |                  |  |
| 43 -         | 5.5   |   |  |                          |                            |                |             |             |                  |  |
| 44 -         |   |   |  |                          |                            |                | _           |             |                  |  |
| 45           |   | 10.0  |  | -                        |                            | MW-9:45        | 0.5         |             |                  |  |
| 46 -         | 1993  | dense; no odo   | grayish brown; damp; very<br>r   | 60                       | 50/6"                      |                | 0.3         |             |                  |  |
| -            |   | 46' Silt increas  | ies  |                          |                            |                |             |             |                  |  |
| 47 -         |   |   |  |                          |                            |                |             |             |                  |  |
| 48 -         | 문화되   |   |  |                          |                            |                |             |             |                  |  |
| 49 -         |   | 14  |  |                          |                            |                |             |             |                  |  |
| 50           |   | SILTY SAND  | WITH GRAVEL; grayish brown   | -                        |                            | MW-9:50        | 0.3         |             |                  |  |
| 51 -         |   | to light olive bi   | rown; damp; very dense; mostly   | 90                       | 20, 50/6"                  |                | 0.3         |             |                  |  |
| -            |   | fine sand, min<br>51' Coarse gra  | or silt, minor gravel<br>avel in mouth of sampler                          | -                        |                            |                |             |             |                  |  |
| 52 -         | SM  |   | and a start of the start of  |                          |                            |                |             |             |                  |  |
| 53 -         |   |   |  |                          |                            |                |             |             |                  |  |
| 54 -         |   |   |  |                          |                            |                |             |             |                  |  |
| 55           |   | on the state  |  | _                        |                            | MW-9:55        | 0.3         |             |                  |  |
| 56           |   | GRAVELLY S  | ILT WITH SAND; bluish gray to ay; damp; medium dense to                    | 90                       | 20,25,30                   |                | 1.00        |             |                  |  |

| E ADDRESS               |           |   |   |              | BORING ID: MW-9        |                |                       |                 |                  |  |  |
|-------------------------|-----------|---|---|--------------|------------------------|----------------|-----------------------|-----------------|------------------|--|--|
|                         | -         |   |   |              | CLIENT:                |                |                       | CASING M        | ATERIAL AND SIZE |  |  |
| 20 J                    | ohn s     | St, Seattle, Wa                                       | í   |              | Onni Group             | 0              | _                     | 2" Sch 4        | 0 PVC            |  |  |
|                         |           | TRACTOR   |   |              | PROJECT #:             |                | SCREEN SIZE           |                 |                  |  |  |
|                         |           | illing, LP  |   |              | 15365                  |                | 0.010" S              |                 |                  |  |  |
|                         | 1.12.12.1 | IPMENT:   |   |              | DATE:                  |                |                       | SCREEN I        |                  |  |  |
|                         |           | ited Rig - CME  | - 75  | _            | 11/3/2020              | A routeral and |                       | 95'-110'        |                  |  |  |
|                         | G ME1     |   |   |              | 12040 A 2004 T 3.0 A 3 | RFACE ELEV. FT | and the second second | FILTER PACK:    |                  |  |  |
|                         | DBY:      | n Auger (HSA  | BOREHOLE SIZE   | _            | Not Measur             |                |                       | Silica Sa       | IND              |  |  |
| Dorfner 8-Inch Diameter |           |   | 111.5' bgs  |              |                        | 93'-110'       |                       |                 |                  |  |  |
| Mar A Martin            |           |   | Interval &<br>% Recovery  | Blows per 6" | Sample                 | PID (ppm)      | We                    | Il Construction |                  |  |  |
|                         | Ш         | dense; mostly   | silt, minor gravel, minor sand,   |              |                        |                | 0.4                   | VIIIA           | VIIIA            |  |  |
| 7                       | ML        | dark bluish gra                                       | WITH GRAVEL, bluish gray to<br>ay; moist to wet, very dense;  | 50           | 50/6"                  | MW-9:60        | 0.3                   |                 |                  |  |  |
|                         | SM        | mostly fine to<br>minor gravel<br>61.5' Dark bro      | medium-grained sand, minor silt,<br>wn color  |              |                        | 200700         |                       |                 |                  |  |  |
| THULL IN IN             |           | red to reddish mostlly fine to                        | ADED SAND WITH GRAVEL;<br>yellow; damp; very dense;<br>medium-grained sand, minor<br>t, iron oxide staining throughout;<br>ed dilt lenses | 75           | 20, 50/6"              | MW-9:65        | 0.3<br>0.4            |                 |                  |  |  |
| TTTTTTTTTTTT            | SP        | 70' As above<br>70.5' Color be<br>gray<br>71' Becomes | comes bluish gray to dark bluish<br>slightly wet  | 75           | 50/5"                  | MW-9:70        | 0.3<br>0.3            |                 |                  |  |  |
| 1.1.1.1.1               |           | damp; very de<br>coarse-graine                        | WITH GRAVEL; grayish brown;<br>ense; mostly fine to<br>d sand, minor fine to  | 50           | 50/6"                  | MW-9:75        | 0.4<br>0.4            |                 |                  |  |  |
| The rest of the         |           | coarse-graine<br>76.5' Crushed                        | d gravel, minor silt<br>rock in mouth of sampler  |              |                        |                |                       |                 |                  |  |  |
| Ē                       | SM        | 80' As above  |   |              |                        | MW-9;80        | 0.1                   |                 |                  |  |  |
|                         |           |   | rock in mouth of sampler  | 90           | 20, 50/6"              |                | 0                     |                 |                  |  |  |
|                         |           |   | TOCK IN MOULT OF SAMPLET  |              |                        |                |                       |                 |                  |  |  |

| >TRC                    |                                       |  |                          | BORING ID: MW-9 |                |             |             |                |  |  |
|-------------------------|---------------------------------------|--|--------------------------|-----------------|----------------|-------------|-------------|----------------|--|--|
| SITE ADDRESS            |                                       |  | _                        | CLIENT:         |                |             | CASING MAT  | ERIAL AND SIZE |  |  |
| 1120 John St,           | Seattle, Wa                           |  |                          | Onni Group      | 0              |             | 2" Sch 40   | PVC            |  |  |
| RILLING CONTR           |                                       |  |                          | PROJECT #:      |                | SCREEN SIZE |             |                |  |  |
| Cascade Drilli          | ing, LP                               |  |                          | 15365           |                | 0.010" Slo  | t           |                |  |  |
| DRILLING EQUIP          | MENT:                                 | A  | -                        | DATE:           |                |             | SCREEN INT  | ERVAL:         |  |  |
| <b>Truck Mounte</b>     | d Rig - CME - i                       | 75   |                          | 11/3/2020       |                |             | 95'-110' bg | IS             |  |  |
| DRILLING METHO          | DD:                                   |  |                          | GROUND SUR      | RFACE ELEV. FT | AMSL:       | FILTER PACK | <b>K</b> :     |  |  |
| Iollow-Stem             |                                       |  |                          | Not Measur      | 14 1 1 1 m m   |             | Silica San  |                |  |  |
| OGGED BY: BOREHOLE SIZE |                                       |  |                          | TOTAL DEPTH     | ł.             |             | FILTER PACK |                |  |  |
| N. Dorfner              |                                       | 8-Inch Diameter                                      |                          | 111.5' bgs      |                | T           | 93'-110' bg | IS             |  |  |
| Depth (feet)<br>USCS    |                                       |  | Interval &<br>% Recovery | Blows per 6"    | Sample         | PID (ppm)   | Well        | Construction   |  |  |
| 85                      | time in out                           |  |                          | · _ · · ·       | MW-9:85        | 0.1         |             |                |  |  |
|                         | WELL-GRADED S                         | SAND WITH GRAVEL;<br>mp; very dense; mostly fine     | 30                       | 50/6"           | 101.02-8.02    |             |             |                |  |  |
| 86                      | to coarse-grained sand, minor fine to |  |                          | 00/0            |                | 0.1         |             |                |  |  |
| 87                      | coarse-grained gr                     | avel, lew silt                                       |                          |                 |                |             |             |                |  |  |
| 88                      |                                       |  |                          |                 |                |             |             |                |  |  |
| 89 -                    |                                       |  |                          |                 |                | -           |             |                |  |  |
| 90 01                   |                                       |  | -                        |                 | MW-9:90        | 0.2         |             |                |  |  |
|                         | POORLY-GRADE                          | D SAND; grayish brown;<br>mostly medium-grained      | 90                       | 15, 50/6"       | 10100-8.90     | 1.36        |             |                |  |  |
| 91                      | sand, few fine sar                    | nd, trace silt                                       |                          | 10,000          |                | 0.2         |             |                |  |  |
| 92 -                    |                                       |  |                          |                 |                |             |             |                |  |  |
| 93                      |                                       |  |                          |                 |                |             |             |                |  |  |
| 94                      |                                       |  |                          |                 |                |             |             | Silica Sanc    |  |  |
| 95 SP                   | 24 St. 5. 5.                          |  |                          |                 | MW-9:95        | 0.2         |             | Filter Pack    |  |  |
| - 1999                  | 95' As above                          |  | 60                       | 20, 50/6"       | WW-9-90        | 1.25        |             |                |  |  |
| 96                      | 96' Trace fine grav                   | vel  | 00                       | 20,000          |                | 0.1         |             | Well Scree     |  |  |
| 97 -                    |                                       |  |                          | 1.5.1.1         |                | _           |             |                |  |  |
| 98                      |                                       |  |                          |                 |                |             |             |                |  |  |
| 99                      |                                       |  |                          |                 |                |             |             |                |  |  |
| -Asses                  |                                       |  |                          | · · · · ·       | 100 0.100      | 0.6         | 100         | 2              |  |  |
| 00                      |                                       | D SAND WITH GRAVEL;<br>et; medium dense; mostly fine | 100                      | 15,20,20        | MW-9:100       |             |             |                |  |  |
| 01                      | to medium-graine                      | d sand, minor fine to                                | 100                      | 10,20,20        |                | 0.2         |             |                |  |  |
| 02 -                    | medium-grained g                      | jravel, trace silt                                   |                          | 1 ······        |                |             |             |                |  |  |
| 03                      |                                       |  |                          |                 |                |             |             |                |  |  |
| 04                      |                                       |  |                          |                 |                |             |             |                |  |  |
|                         | 10110-1-1-1                           | and the later of                                     |                          |                 | MMA O TOF      | 0.2         |             |                |  |  |
| 05 -<br>SP              | 105' As above; we                     | et; very dense                                       | 50                       | 50/6"           | MW-9:105       | 0,2         |             |                |  |  |
| 06 SP                   |                                       |  | 30                       |                 |                | 0.2         |             |                |  |  |
| 07                      |                                       |  |                          |                 |                |             |             |                |  |  |
| 08 -                    |                                       |  |                          |                 |                |             |             |                |  |  |
| 09                      |                                       |  |                          |                 |                |             |             |                |  |  |
|                         | 110' Ac about                         | et; very dense; trace coarse                         |                          | -               | MW-9:110       | 0.2         |             |                |  |  |
| 10                      | sand                                  | a, very dense, nace coarse                           | 75                       | 20, 50/6"       | WWY-9.110      | 1.1.1.1     |             | End Cap        |  |  |
| 11 - 20-20              |                                       |  | 15                       | 20,500          |                | 0.2         |             |                |  |  |
| End of Borehole         |                                       |  |                          |                 |                |             |             |                |  |  |

|                       | TRO   |                                       |  |                          | BORING                                  | ID: MW-105     | 5            |                               |   |
|-----------------------|---|---------------------------------------|--|--------------------------|---|----------------|--------------|-------------------------------|---|
|                       | ADDRESS   | _                                     |  |                          | CLIENT:                                 |                |              | CASING MATER                  | IAL AND SIZE:   |
| 1120                  | John St,  | Seattle, Wa                           |  |                          | Onni Grou                               | р              |              | 2" Sch 40 PV                  | 'C  |
| RILL                  | ING CONT  | RACTOR:                               |  |                          | PROJECT #:                              |                | SCREEN SIZE: |                               |   |
| Case                  | ade Drill   | ing, LP                               |  |                          | 15365                                   |                |              | 0.010" Slot                   |   |
| RILL                  | ING EQUIP   | MENT:                                 |  |                          | DATE:                                   |                |              | SCREEN INTER                  | VAL:  |
| ruc                   | k Mounte  | d Rig - CME -                         | 75   |                          | 11/4/2020                               |                |              | 15'-25' bgs                   |   |
| RILL                  | ING METH  | DD:                                   |  |                          | GROUND SU                               | RFACE ELEV. FT | AMSL:        | FILTER PACK:                  |   |
|                       |   | Auger (HSA)                           | 1  |                          | Not Measu                               |                |              | Silica Sand                   |   |
|                       | GED BY: BOREHOLE SIZE:<br>Dorfner 8-Inch Diameter |                                       |  |                          | TOTAL DEPT<br>31.5' bgs                 | H:             |              | FILTER PACK IN<br>13'-25' bgs | ITERVAL:  |
| Depth (feet)          | nscs  | USCS name; C                          | scription  | Interval &<br>% Recovery | Blows per 6"                            | Sample         | PID (ppm)    |                               | nstruction  |
| Dep                   |   | Plasticity; Dilaten                   | cy; EPI description; Other   | R R                      |   | ·              | PIC          |                               |   |
| 0<br>1<br>2<br>3<br>4 |   | grayish brown; w                      | ED SAND WITH GRAVEL;<br>vet*; loose; mostly fine to<br>sand, minor fine to     |                          |   |                |              |                               | Traffic-Rated<br>Monument Se<br>in Concrete<br>Hydrated<br>Bentonite<br>Chips |
| 5<br>6                | SP  | 5' As above; mee<br>6' Silt increases |  | 100                      | 6,9,21                                  | MW-10S:5       |              |                               | Well Casing   |
| 7<br>8<br>9<br>10     |   |                                       | TH GRAVEL; grayish brown;  |                          |   | MW-10S:10      | 0.4          |                               |   |
| 11<br>12<br>13        |   | wet*; medium de                       | ense; mostly fine to sand, minor silt, minor fine to                           | 40                       | 12,15,20                                |                |              |                               |   |
| 14                    | -   |                                       |  |                          |   |                |              |                               | Silica Sand<br>Filter Pack  |
| 15                    | -   | GRAVELLY SIL                          | Γ; reddish gray; damp;<br>stly silt, minor gravel, trace                       | 100                      | 9,15,16                                 | MW-10S:15      | 0.7          |                               |   |
| 6<br> 7<br> 8<br> 9   |   | sand, clay appea                      |  |                          | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |                | 0.8          |                               | Well Screer   |
| 20                    |   |                                       | ED SAND; grayish brown;<br>lense; mostly fine to                               | 80                       | 9,15,13                                 | MW-10S:20      | 0.9          | 21                            |   |
| 21<br>22<br>23        | -<br>-<br>-<br>-<br>-                             | medium-grained<br>21' Becomes we      | sand, trace silt   |                          |   |                | 0.8          |                               |   |
| 24<br>25<br>26        |   | damp; very dens<br>minor medium-g     | TH GRAVEL; grayish brown;<br>e; mostly silt, minor fine sand,<br>rained gravel | 40                       | 20, 50/4"                               | MW-10S:25      | 0.6<br>0.6   |                               | End Cap   |
| 27<br>28<br>29        | -   | 26.5' Medium to sampler; moist        | coarse-grained sand in   |                          |   |                |              |                               | Hydrated<br>Bentonite<br>Chips  |
| 30<br>31              |   | damp; medium d<br>silt_minor gravel   | TH GRAVEL; reddish gray;<br>lense; mostly fine sand, minor<br>d of Borehole    | 75                       | 13,13,20                                | MW-10S:30      | 0.5<br>0.7   |                               |   |

NOTES: Boring was set up in an area with up to 1" of standing water. \*Surface water was pouring into borehole.

| •>                                     | TRO                                     |  |   |                          | BORING ID: MW-10 CLIENT: CASING MATERIAL AND |                |             |            |           |                              |  |
|--|---|--|---|--------------------------|--|----------------|-------------|------------|-----------|------------------------------|--|
| _                                      | ADDRESS                                 |  |   |                          | CLIENT:                                      |                |             | CASING M   | ATERIAL A | ND SIZE                      |  |
| 1120                                   | John St                                 | Seattle, Wa                                      |   |                          | Onni Group                                   | p              |             | 2" Sch 4   | PVC       |                              |  |
|  | ING CONT                                |  |   |                          | PROJECT #:                                   |                | SCREEN SIZE |            |           |                              |  |
| Case                                   | cade Drill                              | ing, LP  |   |                          | 15365  |                |             | 0.010" S   | ot        |                              |  |
| RILL                                   | ING EQUIP                               | MENT:  |   |                          | DATE:  |                |             | SCREEN IN  | TERVAL:   |                              |  |
| Truc                                   | k Mounte                                | d Rig - CME                                      | - 75  |                          | 11/5/2020                                    |                |             | 90'-105' 1 | ogs       |                              |  |
| DRILL                                  | ING METH                                | OD:  |   |                          | GROUND SUF                                   | RFACE ELEV. FT | AMSL:       | FILTER PA  | CK:       |                              |  |
| Iol                                    | ow-Stem                                 | Auger (HSA)                                      | and the second se |                          | Not Measu                                    | red            |             | Silica Sa  | nd        |                              |  |
|  | ED BY:                                  |  | BOREHOLE SIZE   |                          | TOTAL DEPTH                                  | Ht             |             | FILTER PA  |           | VAL                          |  |
|  | Dorfner 8-Inch Diameter                 |  |   | 106.5' bgs               |  | T              | 88'-105'    | ogs        |           |                              |  |
| Depth (feet)                           | nscs                                    | USCS name;                                       | escription<br>Color; Moisture; Density;<br>ency; EPI description; Other   | Interval &<br>% Recovery | Blows per 6"                                 | Sample         | PID (ppm)   | We         | ll Constr | uction                       |  |
| 0                                      |   | ~6" Thick Cond                                   |   |                          |  |                |             | × -        | _ 18      | Traffic-Rated<br>Monument Se |  |
| 1<br>2<br>3<br>4                       |   | grayish brown;<br>medium-graine<br>medium-graine | DED SAND WITH GRAVEL,<br>wet*, loose, mostly fine to<br>d sand, minor fine to<br>d gravel, trace silt   |                          |  |                |             |            |           | in Concrete                  |  |
| 5<br>6                                 | SP                                      | 5' As above; we<br>6' Silt increase:             |   | 100                      | 3,9,10                                       | MW-10:5        | 0.3         |            |           | Hydrated                     |  |
| 7<br>8<br>9                            |   |  |   |                          |  |                |             |            |           | Bentonite<br>Chips           |  |
| 10<br>11                               | -                                       | damp; loose; m                                   | VITH GRAVEL; grayish brown;<br>nostly fine to medium-grained<br>t, minor fine to coarse-grained<br>de staining  | 90                       | 6,9.8  | MW-10:10       | 0.2<br>0.4  |            |           | Well Casing                  |  |
| 12<br>13<br>14<br>15<br>16<br>17<br>18 | - SP                                    | POORLY-GRA<br>wet; medium di<br>sand, trace silt | DED SAND; grayish brown;<br>ense; mostly medium-grained<br>trace fine gravel<br>nes dark gray; no odor  | 100                      | 9, 20, 22                                    | MW-10:16       | 0.5<br>0.4  |            |           |                              |  |
| 19<br>20<br>21<br>22                   | 0.0                                     | grayish brown;                                   | D SAND WITH GRAVEL;<br>damp, very dense, mostly fine<br>ed sand, few fine gravel, trace   | 100                      | 20, 50/6"                                    | MW-10:20       | 0.5<br>0.5  |            |           |                              |  |
| 23<br>24<br>25<br>26                   | - SW<br>- 0<br>- 0<br>- 0<br>- 0<br>- 0 |  | VITH GRAVEL; grayish brown;<br>ise; mostly fine sand, minor silt,   | 90                       | 30, 50/6"                                    | MW-10:25       | 0.6         |            |           |                              |  |

| <b>?</b> 1   |         | 2   |   |                          | BORING              | ID: MW-10      |                             |           |                  |
|--------------|---------|---|---|--------------------------|---------------------|----------------|-----------------------------|-----------|------------------|
|              | DRESS   | Personal Astronomy  |   |                          | GLIENT:             |                |                             | CASING M  | ATERIAL AND SIZE |
| 1120 J       | ohn S   | t, Seattle, Wa  | r,  |                          | Onni Grou           | p              |                             | 2" Sch 4  | 0 PVC            |
|              |         | RACTOR  |   |                          | PROJECT #:<br>15365 |                | SCREEN SIZE:<br>0.010" Slot |           |                  |
|              | IG EQUI |   |   |                          | DATE:               |                |                             | SCREEN I  |                  |
|              |         | ed Rig - CME  | - 75  |                          | 11/5/2020           |                |                             | 90'-105'  |                  |
|              | IG METH |   |   | _                        |                     | RFACE ELEV. FT | AMSL:                       | FILTER PA |                  |
|              |         | Auger (HSA  | 1   |                          | Not Measu           |                | 0.00                        | Silica Sa |                  |
| OGGEI        |         | riuger (neri  | BOREHOLE SIZE   | 1                        | TOTAL DEPTH         |                |                             |           | CK INTERVAL      |
|              |         |   |   |                          | 106.5' bgs          |                |                             | 88'-105'  | bgs              |
| Depth (feet) |         |   | Color: Moisture: Density:   | Interval &<br>% Recovery | Blows per 6"        | Sample         | PID (ppm)                   | We        | Il Construction  |
| 27 -         |         |   |   |                          | -                   |                | 1 1/1/1                     | 1////     |                  |
| 28 -         | ML      | damp; very de<br>minor gravel   | nse; mostly silt, minor sand,   |                          |                     |                |                             |           |                  |
| 29 -         |         |   |   |                          |                     |                |                             |           |                  |
|              |         |   |   |                          |                     | Caracteria a   |                             |           |                  |
| 30 -         |         |   | WITH GRAVEL; gravish brown,   | 1.1                      | Fight some i        | MW-10:30       | 0,7                         |           |                  |
| 31 -         |         | damp, very dense, mostly fine sand, minor silt, minor fine to medium-grained gravel |   | 100                      | 20, 50/6"           |                | 0.6                         |           |                  |
| 32           |         |   |   |                          |                     |                |                             |           |                  |
| -            | SM      |   |   |                          |                     |                |                             |           |                  |
| 33 -         |         |   |   |                          |                     |                |                             |           |                  |
| 34 -         |         |   |   |                          |                     |                |                             |           |                  |
| 35           |         | OALIDV ST T   | Caracter Law 2  |                          | 10 I                | MW-10:35       | 0.9                         |           |                  |
| 1.1          |         | SANDY SILT; grayish brown; dry; very dense;<br>mostly sill, minor fine sand         |   | 100                      | 25, 50/6"           | and terde      |                             |           |                  |
| 36 -         |         |   |   |                          | 0.5                 |                |                             |           |                  |
| 37 -         |         |   |   |                          |                     |                |                             |           |                  |
| 8            | ML      |   |   |                          |                     |                |                             |           |                  |
|              |         |   |   |                          |                     |                |                             |           |                  |
| 39 -         |         |   |   |                          |                     |                |                             |           |                  |
| 10           |         |   | WITH GRAVEL; grayish brown;   |                          | 1.000               |                |                             |           |                  |
| 11 -         |         | damp; very de   | nse; mostly fine sand, minor sill<br>oarse-grained gravel                           | 60                       | 50/6"               | MW-10:41       | 0.2                         |           |                  |
| 2 -          |         | 41' Color becc  | omes dark gray  | -                        |                     |                |                             |           |                  |
| -            | SM      |   |   |                          |                     |                |                             |           |                  |
| 13 -         |         |   |   |                          |                     |                |                             |           |                  |
| 44 -         |         |   |   |                          |                     |                |                             |           |                  |
| 45           |         |   |   |                          |                     | MW-10:45       | 0.5                         |           |                  |
| 45 -         | 0.0     | grayish brown   | ED SAND WITH GRAVEL;<br>; moist; very dense; mostly fine<br>ned sand, minor fine to | 60                       | 50/6"               | WIYV-10.40     | 0.3                         |           |                  |
| -            | · : : : | coarse-graine   | d gravel, trace silt  | -                        |                     |                | 0.67                        |           |                  |
| 47 -         | SW.     |   |   |                          |                     |                |                             |           |                  |
| 48 -         | · • •   |   |   |                          |                     |                |                             |           |                  |
| 49 -         | o : : : |   |   |                          |                     |                |                             |           |                  |
| -            | 0.      | 1 mar   |   |                          |                     | MAL 10-EO      | 0.0                         |           |                  |
| 50           |         | SILTY SAND  | WITH GRAVEL; gray; damp;  | 75                       | 50/6"               | MW-10:50       | 0,9                         |           |                  |
| 51 -         |         | very dense; m   | ostly fine sand, minor silt, minor<br>grained gravel                                | 15                       | 50/0                |                | 0.8                         |           |                  |
| 52 -         |         | inte to coarse-   | granied graver  |                          | 1                   |                | -                           |           |                  |
|              |         |   |   |                          |                     |                |                             |           |                  |
| 53 -         |         |   |   |                          |                     |                |                             | 1////     | VIIIA            |

| 🤅 T          | R      |  |   |                          | BORING            | ID: MW-10       |              |           |                  |
|--------------|--------|--|---|--------------------------|-------------------|-----------------|--------------|-----------|------------------|
| SITE ADI     |        |  |   |                          | CLIENT:           |                 | -            | CASING M  | ATERIAL AND SIZE |
| 120 Ja       | ohn St | , Seattle, Wa  |   |                          | Onni Group        | D               |              | 2" Sch 4  | 0 PVC            |
|              |        | RACTOR   |   |                          | PROJECT #:        |                 | SCREEN SIZE: |           |                  |
|              |        | ling, LP   |   | _                        | 15365             |                 |              | 0.010" S  | 1.815            |
| RILLING      |        |  | Δ.,   |                          | DATE:             |                 |              | SCREEN I  |                  |
|              |        | ed Rig - CME   | - 75  | _                        | 11/5/2020         |                 |              | 90'-105'  |                  |
| RILLIN       |        |  |   |                          | Collinear Collins | RFACE ELEV. FT  | AMSL:        | FILTER PA |                  |
| OGGED        |        | Auger (HSA)  | BOREHOLE SIZE   | -                        | Not Measur        |                 |              | Silica Sa | ING              |
| I. Dorf      |        |  | 8-Inch Diameter   |                          | 106.5' bgs        | 1.              |              | 88'-105'  |                  |
| Depth (feet) | USCS   | USCS name;   | escription<br>Color; Moisture; Density;<br>ency; EPI description; Other | Interval &<br>% Recovery | Blows per 6"      | Sample          | PID (ppm)    | 1 3.7     | Il Construction  |
| 11           |        |  | -%  | -                        |                   | , u             | VIIIA        | 11111     |                  |
| 54 -         |        |  |   | -                        | 1                 |                 | 152          |           |                  |
| 55 -         |        | 55' As above   |   | 1.1                      |                   | MW-10:55        | 0.3          |           |                  |
| 56 -         |        |  |   | 90                       | 15, 50/6"         |                 | 0.4          |           |                  |
| 57           |        |  |   | -                        |                   |                 |              |           |                  |
|              | SM     |  |   |                          |                   |                 |              |           |                  |
| 58 -         |        |  |   |                          |                   |                 |              |           |                  |
| 59 -         |        |  |   |                          |                   |                 | Sec. 1       |           |                  |
| 60 -         |        | 60' As above, color becomes grayish brown to<br>light olive brown, iron oxide staining |   | -                        |                   | MW-10:60        | 0.7          |           |                  |
| 61           |        |  |   | 80                       | 20, 50/5"         |                 | 0.6          |           |                  |
|              |        |  |   | -                        |                   |                 |              |           |                  |
| 62 -         |        |  |   |                          |                   |                 |              |           |                  |
| 63 _         |        |  |   |                          |                   |                 |              |           |                  |
| 64 -         |        |  |   |                          |                   |                 | 0            |           |                  |
| 65           |        | CANDY OUT 1  |   |                          |                   | MW-10:65        | 0.4          |           |                  |
| 66           |        | to reddish brow  | VITH GRAVEL, light olive brown<br>vn, dense, very dense, mostly         | 20                       | 50/4"             | and a second of | 0.6          |           |                  |
| -            |        | silt, minor fine :   | sand, few gravel  | 1                        |                   |                 | 0.0          |           |                  |
| 67           |        |  |   |                          |                   |                 |              |           |                  |
| 68 -         |        |  |   |                          |                   |                 |              |           |                  |
| 69 -         |        |  |   |                          |                   |                 | _            |           |                  |
| 70 -         | IML I  | 70' As above: o  | color becomes dark bluish gray  |                          |                   |                 | 0.9          |           |                  |
|              |        | Contractory of   | Signal Signal   | 30                       | 50/5"             | 243230300       |              |           |                  |
| 71 -         |        |  |   | 00                       | 3015              | MW-10:71        | 1.3          |           |                  |
| 72 -         |        |  |   |                          |                   |                 |              |           |                  |
| 73           |        |  |   |                          |                   |                 |              |           |                  |
| 74 -         |        |  |   |                          |                   |                 |              |           |                  |
|              |        |  |   |                          |                   |                 |              |           |                  |
| 75           |        | POORLY-GRA   | DED SAND; grayish brown;  |                          | row               | MW-10:75        | 0,7          |           |                  |
| 76           |        | medium-graine  | nse; mostly fine to<br>ed sand, trace silt, trace gravel                | 30                       | 50/6"             |                 |              |           |                  |
| 77           |        |  |   |                          |                   |                 |              |           |                  |
| 78           | SP     |  |   |                          |                   |                 |              |           |                  |
|              |        |  |   |                          |                   |                 |              |           |                  |
| 79 -         |        |  |   |                          |                   |                 |              |           |                  |
| 80           |        |  |   | -                        |                   | MW-10:80        | 1.1          |           | VIIIA            |

| TR   | C                                       |   |              | BORING ID: MW-10 |                   |             |               |                      |  |
|--|---|---|--------------|------------------|-------------------|-------------|---------------|----------------------|--|
| ITE ADDRESS  |   |   | -            | CLIENT:          |                   |             | CASING MAT    | ERIAL AND SIZE       |  |
|  | t, Seattle, Wa                          | r -   |              | Onni Grou        | D                 |             | 2" Sch 40     |                      |  |
| RILLING CON  |   |   |              | PROJECT #:       |                   |             | SCREEN SIZE   |                      |  |
| ascade Dr  | lling, LP                               |   |              | 15365            |                   | 0.010" Slot |               |                      |  |
| RILLING EQU  | PMENT:                                  |   |              | DATE:            |                   |             | SCREEN INT    | ERVAL:               |  |
| ruck Moun  | ted Rig - CME                           | E - 75  |              | 11/5/2020        |                   | 90'-105' bg | IS            |                      |  |
| RILLING MET  | HOD                                     |   |              | GROUND SUF       | RFACE ELEV. FT    | AMSL:       | FILTER PACH   | ¢:                   |  |
|  | h Auger (HSA                            |   |              | Not Measu        |                   |             | Silica San    |                      |  |
| OGGED BY:  |   | BOREHOLE SIZE   |              | TOTAL DEPTI      | Hi                |             | FILTER PACK   |                      |  |
| Dorfner 8-Inch Diameter  |   |   | 106.5' bgs   |                  | 0                 | 88'-105' bg | IS            |                      |  |
| Description<br>USCS name; Color; Moisture; Density;<br>Plasticity; Dilatency; EPI description; Other |   | Interval &<br>% Recovery  | Blows per 6" | Sample           | PID (ppm)         | Well        | Construction  |                      |  |
| 81 -   | damp; very de                           | WITH GRAVEL; grayish brown; -<br>ense; mostly fine to<br>d sand, minor silt, minor  | 75           | 50/6"            |                   | 0.5         |               |                      |  |
| 32 -   | fine-grained g<br>81' Iron oxide        | ravel   | 1            | 1                |                   |             |               |                      |  |
| 33 - SM  |   | siannig   |              |                  |                   |             |               |                      |  |
| 34   |   |   |              |                  |                   |             |               |                      |  |
|  |   |   |              | 1                | and the           |             |               |                      |  |
| 35   |   | ADED SAND WITH SILT AND   | 23           | 21.000           | MW-10:85          | 4           |               |                      |  |
| 36 - 11-11   | mostly fine to                          | yish brown; damp; very dense;<br>medium-grained sand, minor   | 30           | 50/6"            |                   |             |               |                      |  |
| 37 - 1-0466-   | medium-grain                            | ed gravel, minor silt   | <b>1</b>     | 1                |                   |             |               |                      |  |
| 38   |   |   |              |                  |                   |             |               |                      |  |
|  |   |   |              |                  |                   |             |               | Silica Sand          |  |
| 39   |   |   | Ľ.           |                  |                   | 175         |               | Filter Pack          |  |
| 90 - ISP-SN  | 90' As above:                           | gravel becomes fine to  | -            |                  | MW-10.90          | 1.6         |               |                      |  |
| 91   | coarse-graine                           |   | 40           | 50/6"            |                   | 0.6         |               |                      |  |
| 92 HILL  | al clusiled i                           | ock in model of sampler   | -            |                  |                   | 1.0         |               | Well Scree           |  |
|  |   |   |              |                  |                   |             |               |                      |  |
| 93   |   |   |              |                  |                   |             |               |                      |  |
| 94   |   |   |              |                  |                   |             |               |                      |  |
| 95 4444  | POORLY-GR                               | ADED SAND; grayish brown;   | -            |                  | MW-10.95          | 0,4         |               |                      |  |
| 96   | moist, very de                          | ed sand, trace fine gravel, trace   | 40           | 50/6"            |                   | 1.7         |               |                      |  |
| 97   | silt                                    | eu sanu, mace nne graver, nace  |              |                  |                   |             |               |                      |  |
| H2 12 1  |   |   | =            |                  |                   |             |               |                      |  |
| 98 -   |   |   |              |                  |                   |             |               |                      |  |
| 99 -   |   |   |              |                  |                   |             |               |                      |  |
| oo T   | 100' As above                           | e, wet  |              |                  | MW-10:100         | 0.2         | 100           | *                    |  |
| 01 SP  |   |   | 100          | 30, 50/6"        |                   | 0.3         |               |                      |  |
| 02   | 4                                       |   | 1            |                  |                   |             |               |                      |  |
| -  |   |   |              |                  |                   |             |               |                      |  |
| 03   |   |   |              |                  |                   |             |               |                      |  |
| 04   |   |   |              | II               |                   |             |               |                      |  |
| 05   | 105' As above                           | , wet   | -            |                  | MW-10:105         | 0.3         |               | C-10-                |  |
| 06   | 1.11.11.11.11.11.11.11.11.11.11.11.11.1 |   | 90           | 50/6"            |                   |             |               | End Cap              |  |
| 00   |   | End of Borehole   | 1            | 12-11            |                   |             |               |                      |  |
|  |   | AND A REAL PROPERTY AND A | 5.J          | 2-6-5            | with the stations |             | crete slab wa | - 143 - P. 1 - P. 14 |  |

Attachment B Completed Terrestrial Ecological Evaluation Form



# **Voluntary Cleanup Program**

### Washington State Department of Ecology Toxics Cleanup Program

### TERRESTRIAL ECOLOGICAL EVALUATION FORM

Under the Model Toxics Control Act (MTCA), a terrestrial ecological evaluation is necessary if hazardous substances are released into the soils at a Site. In the event of such a release, you must take one of the following three actions as part of your investigation and cleanup of the Site:

- 1. Document an exclusion from further evaluation using the criteria in WAC 173-340-7491.
- 2. Conduct a simplified evaluation as set forth in WAC 173-340-7492.
- 3. Conduct a site-specific evaluation as set forth in WAC 173-340-7493.

When requesting a written opinion under the Voluntary Cleanup Program (VCP), you must complete this form and submit it to the Department of Ecology (Ecology). The form documents the type and results of your evaluation.

## Completion of this form is not sufficient to document your evaluation. You still need to document your analysis and the basis for your conclusion in your cleanup plan or report.

If you have questions about how to conduct a terrestrial ecological evaluation, please contact the Ecology site manager assigned to your Site. For additional guidance, please refer to <a href="https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Terrestrial-ecological-evaluation">https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Terrestrial-ecological-evaluation</a>.

### Step 1: IDENTIFY HAZARDOUS WASTE SITE

Please identify below the hazardous waste site for which you are documenting an evaluation.

| Facility/Site Name:    | Former Seattle Times Property         |  |
|------------------------|---------------------------------------|--|
| Facility/Site Address: | 1120 John Street, Seattle, Washington |  |
| Facility/Site No: TB   | VCP Project No.: TBD                  |  |

### Step 2: IDENTIFY EVALUATOR

Please identify below the person who conducted the evaluation and their contact information.

| Name: Douglas Kunkel                    |  |         | Title: Principal Hydrogeologist |  |  |  |  |  |  |
|---|--|---------|---------------------------------|--|--|--|--|--|--|
| Organization: Environmental Partners, I | Organization: Environmental Partners, Inc. |         |                                 |  |  |  |  |  |  |
| Mailing address: 1180 NW Maple St. Su   | te 310                                     |         |                                 |  |  |  |  |  |  |
| City: Issaquah                          | City: Issaquah State: WA Zip code: 98027   |         |                                 |  |  |  |  |  |  |
| Phone: 425-395-0016 Fax: 425-395-       | 0011                                       | E-mail: | dougk@epi-wa.com                |  |  |  |  |  |  |

| St                             | tep 3:                                 | DOC  | UMENT EVALUATION TYPE AND RESULTS  |
|--------------------------------|--|--|--|
| Α.                             | Excl                                   | usion  | from further evaluation.   |
| 1.                             | Does                                   | s the S  | Site qualify for an exclusion from further evaluation?   |
|                                |  | ΧY   | lf you answered " <b>YES</b> ," then answer <b>Question 2</b> .  |
|                                |  | 🗌 N<br>Unkn  | IT VALLANGWARAA "NILI" AF "LINK NILIVVN " TAAN GKIN TA NTAA KK AT TAIG TARM  |
| 2.                             | Wha                                    | t is th  | e basis for the exclusion? Check all that apply. Then skip to Step 4 of this form.   |
|                                | Point                                  | of Co  | ompliance: WAC 173-340-7491(1)(a)  |
|                                |  | $\boxtimes$  | All soil contamination is, or will be,* at least 15 feet below the surface.  |
|                                |  |  | All soil contamination is, or will be,* at least 6 feet below the surface (or alternative depth if approved by Ecology), and institutional controls are used to manage remaining contamination.  |
|                                | Barri                                  | ers to   | Exposure: WAC 173-340-7491(1)(b)   |
|                                | ×                                      | $\boxtimes$  | All contaminated soil, is or will be,* covered by physical barriers (such as buildings or paved roads) that prevent exposure to plants and wildlife, and institutional controls are used to manage remaining contamination.  |
|                                | Unde                                   | evelop   | ed Land: WAC 173-340-7491(1)(c)  |
|                                |  |  | There is less than 0.25 acres of contiguous <sup>#</sup> undeveloped <sup>±</sup> land on or within 500 feet<br>of any area of the Site and any of the following chemicals is present: chlorinated<br>dioxins or furans, PCB mixtures, DDT, DDE, DDD, aldrin, chlordane, dieldrin,<br>endosulfan, endrin, heptachlor, heptachlor epoxide, benzene hexachloride,<br>toxaphene, hexachlorobenzene, pentachlorophenol, or pentachlorobenzene.   |
|                                |  | $\boxtimes$  | For sites not containing any of the chemicals mentioned above, there is less than 1.5 acres of contiguous <sup>#</sup> undeveloped <sup>±</sup> land on or within 500 feet of any area of the Site.  |
|                                | Back                                   | groun  | d Concentrations: WAC 173-340-7491(1)(d)   |
|                                |  |  | Concentrations of hazardous substances in soil do not exceed natural background levels as described in WAC 173-340-200 and 173-340-709.  |
| ac<br>± '<br>pro<br># '<br>hię | ceptab<br>"Unde\<br>event v<br>"Contig | le to E<br>velopec<br>vildlife<br>juous"<br>s, exter | based on future land use must have a completion date for future development that is<br>cology.<br>d land" is land that is not covered by building, roads, paved areas, or other barriers that would<br>from feeding on plants, earthworms, insects, or other food in or on the soil.<br>undeveloped land is an area of undeveloped land that is not divided into smaller areas of<br>nsive paving, or similar structures that are likely to reduce the potential use of the overall area |

| B. | 3. Simplified evaluation.   |   |  |
|----|---|---|--|
| 1. | 1. Does the Site qualify for a simplified evaluation?   |   |  |
|    | □ Y   | es If you answered "YES," then answer Question 2 below.   |  |
|    | ☐ N<br>Unkn   | o or own If you answered " <b>NO"</b> or " <b>UNKNOWN,</b> " then skip to <b>Step 3C</b> of this form.  |  |
| 2. | . Did you conduct a simplified evaluation?  |   |  |
|    | □ Y   | es If you answered "YES," then answer Question 3 below.   |  |
|    | 🗌 N   | lo If you answered " <b>NO</b> ," then skip to <b>Step 3C</b> of this form.   |  |
| 3. | Was further evaluation necessary?   |   |  |
|    | □ Y   | es If you answered "YES," then answer Question 4 below.   |  |
|    | □ N   | lo If you answered " <b>NO</b> ," then answer <b>Question 5</b> below.  |  |
| 4. | 4. If further evaluation was necessary, what did you do?  |   |  |
|    |   | Used the concentrations listed in Table 749-2 as cleanup levels. <i>If so, then</i> s <i>kip to</i> <b>Step 4</b> of this form.   |  |
|    |   | Conducted a site-specific evaluation. If so, then skip to Step 3C of this form.   |  |
| 5. | <b>5. If no further evaluation was necessary, what was the reason?</b> Check all that apply. Then skip to <b>Step 4</b> of this form. |   |  |
|    | Exposure A  | Analysis: WAC 173-340-7492(2)(a)  |  |
|    |   | Area of soil contamination at the Site is not more than 350 square feet.  |  |
|    |   | Current or planned land use makes wildlife exposure unlikely. Used Table 749-1.   |  |
|    | Pathway Analysis: WAC 173-340-7492(2)(b)  |   |  |
|    |   | No potential exposure pathways from soil contamination to ecological receptors.   |  |
|    | Contaminant Analysis: WAC 173-340-7492(2)(c)  |   |  |
|    |   | No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations that exceed the values listed in Table 749-2.   |  |
|    |   | No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations that exceed the values listed in Table 749-2, and institutional controls are used to manage remaining contamination.   |  |
|    |   | No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays.   |  |
|    |   | No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays, and institutional controls are used to manage remaining contamination. |  |

| C. | <b>C. Site-specific evaluation.</b> A site-specific evaluation process consists of two parts: (1) formulating the problem, and (2) selecting the methods for addressing the identified problem. Both steps require consultation with and approval by Ecology. <i>See</i> WAC 173-340-7493(1)(c). |   |  |  |
|----|--|---|--|--|
| 1. | I. Was there a problem? See WAC 173-340-7493(2).   |   |  |  |
|    | □ Y  | es If you answered "YES," then answer Question 2 below.   |  |  |
|    | □ N  | If you answered " <b>NO</b> ," then identify the reason here and then skip to <b>Question 5</b> below:  |  |  |
|    |  | No issues were identified during the problem formulation step.  |  |  |
|    |  | While issues were identified, those issues were addressed by the cleanup actions for protecting human health.   |  |  |
| 2. | 2. What did you do to resolve the problem? See WAC 173-340-7493(3).  |   |  |  |
|    |  | Used the concentrations listed in Table 749-3 as cleanup levels. <i>If so, then skip to</i> <b>Question 5</b> below.  |  |  |
|    |  | Used one or more of the methods listed in WAC 173-340-7493(3) to evaluate and address the identified problem. <i>If so, then answer <b>Questions 3 and 4</b> below.</i> |  |  |
| 3. | B. If you conducted further site-specific evaluations, what methods did you use?<br>Check all that apply. See WAC 173-340-7493(3).   |   |  |  |
|    |  | Literature surveys.   |  |  |
|    |  | Soil bioassays.   |  |  |
|    |  | Wildlife exposure model.  |  |  |
|    |  | Biomarkers.   |  |  |
|    |  | Site-specific field studies.  |  |  |
|    |  | Weight of evidence.   |  |  |
|    |  | Other methods approved by Ecology. If so, please specify:   |  |  |
| 4. | What was the result of those evaluations?  |   |  |  |
|    |  | Confirmed there was no problem.   |  |  |
|    |  | Confirmed there was a problem and established site-specific cleanup levels.   |  |  |
| 5. | 5. Have you already obtained Ecology's approval of both your problem formulation and problem resolution steps?   |   |  |  |
|    | □ Y  | es If so, please identify the Ecology staff who approved those steps:   |  |  |
|    | □ N  | lo  |  |  |

#### Step 4: SUBMITTAL

Please mail your completed form to the Ecology site manager assigned to your Site. If a site manager has not yet been assigned, please mail your completed form to the Ecology regional office for the County in which your Site is located.



If you need this publication in an alternate format, please call the Toxics Cleanup Program at 360-407-7170. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call 877-833-6341.