A Report Prepared for:

BMR-Dexter LLC
201 Elliott Avenue West, Suite 150
Seattle, WA 98119

FINAL
REMEDIAL INVESTIGATION REPORT
AMERICAN LINEN SUPPLY CO DEXTER AVE SITE
700 DEXTER AVENUE NORTH
SEATTLE, WASHINGTON

MARCH 31, 2026

By:

Akanksha Garg, EIT
Project Engineer

Brani Jurista, L.G.
Principal Geologist

BRANISLAV JURISTA

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LIST OF ACRONYMS AND ABBREVIATIONS

AO	Agreed Order
ARARs	Applicable or Relevant and Appropriate Requirements
AST	Aboveground Storage Tank
B&V	Black & Veatch
bgs	Below Ground Surface
BMRD	BMR-Dexter LLC
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes
CAA	Cleanup Action Alternative
CAP	Cleanup Action Plan
CCV	Continuing Calibration Verification
cDCE	cis-1,2-Dichloroethene
CLARC	Cleanup Levels and Risk Calculation
COC	Chemicals of Concern
COPC	Chemicals of Potential Concern
cPAH	Carcinogenic Polycyclic Aromatic Hydrocarbons
CSM	Conceptual Site Model
CSO	Combined Sewer Overflow
CVOCs	Chlorinated Volatile Organic Compounds
DNAPL	Dense Non-Aqueous Phase Liquid
DO	Dissolved Oxygen
DOF	Dalton, Olmsted & Fuglevand, Inc.
DRO	Diesel-Range Organics
EA	Environmental Associates
Ecology	State of Washington Department of Ecology
EPA	United States Environmental Protection Agency
ERD	Enhanced Reductive Dechlorination
ERH/SVE	Electrical Resistance Heating/Soil Vapor Extraction
ESA	Endangered Species Act
ESC	ESC Lab Sciences
Farallon	Farallon Consulting L.L.C.

FS	Feasibility Study
GeoEngineers	GeoEngineers, Inc.
GeoTech	Geotech Consultants, Inc.
gpm	Gallons Per Minute
GRO	Gasoline-Range Organics
IHS	Indicator Hazardous Substance
LNAPL	Light Non-Aqueous Phase Liquid
LUST	Leaking Underground Storage Tank
MCL	Maximum Contaminant Level
MDL	Method Detection Limit
µg/L	Micrograms Per Liter
mg/kg	Milligrams Per Kilogram
MTCA	Model Toxics Control Act
NAPL	Non-Aqueous Phase Liquid
NAVD 88	North American Vertical Datum of 1988
NV5	NV5 Environmental Inc.
ORP	Oxidation-Reduction Potential
ORO	Oil-Range Organics
Pace	Pace Analytical
PAH	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyl
PCE	Tetrachloroethene
PES	PES Environmental, Inc.
PLP	Potentially Liable Person
PQL	Practical Quantitation Limit
psi	Pounds Per Square Inch
PVC	Polyvinyl Chloride
RAO	Remedial Action Objective
RDL	Reported Detection Limit
RI	Remedial Investigation

Roux	Roux Associates
ROW	Right-of-Way
SES	SoundEarth Strategies, Inc.
TCE	Trichloroethene
TCLP	Toxicity Characteristic Leaching Procedure
tDCE	trans-1,2-Dichloroethene
TOC	Total Organic Carbon
TPH	Total Petroleum Hydrocarbons
UST	Underground Storage Tank
VC	Vinyl Chloride
VCP	Voluntary Cleanup Program
VOCs	Volatile Organic Compounds
WAC	Washington Administrative Code
Windward	Windward Environmental LLC

1.0 INTRODUCTION

NV5 Environmental Inc, (NV5) has prepared this remedial investigation ("RI") report on behalf of BMR-Dexter LLC ("BMRD") for the American Linen Supply Co Dexter Ave Site ("Site") located at 700 Dexter Avenue North, Seattle, Washington (Figure 1). The report was originally drafted by PES Environmental Inc. (PES) and subsequently revised by NV5. NV5 acquired PES in 2021 and renamed the firm to NV5 Environmental Inc in December 2024. The author of this report is noted as PES in this document for clarity. This report has been prepared consistent with Section VII.C and Exhibit C of Agreed Order No. DE 14302 ("AO") between the State of Washington Department of Ecology ("Ecology") and BMRD. The RI implemented the scopes of work presented in the Final Remedial Investigation/Feasibility Study ("RI/FS") Work Plan (PES, 2019f), the Final RI/FS Work Plan Addendum (PES, 2020), and the Final RI/FS Work Plan Addendum No. 2 (PES, 2021). PES conducted the RI concurrent with an interim action ("IA") performed at the 700 Dexter Avenue North Property ("Property") and investigations conducted at surrounding properties, as described below. This RI report briefly describes the investigations conducted at these properties and incorporates their results into the RI.

1.1 Definition of "Property" and "Site" for Purposes of a MTCA RI/FS

For the purpose of this report, the word "Site" will refer to an area where contamination released at the property located at 700 Dexter Avenue North ("Property") and contamination potentially released at other properties that is commingled with contamination released at the Property has come to be located, generally consistent with the definition of "site" or "facility" in the Washington Model Toxics Control Act ("MTCA", Chapter 173-340 of the Washington Administrative Code ("WAC")), and generally consistent with the AO[1]. The word "Property" will refer to the area within the 700 Dexter Avenue North property boundary (Figure 1). The Property constitutes a portion of the Site.

1.2 Report Purpose

The purpose of the RI/FS is to provide sufficient information regarding the physical characteristics of the Site and the nature and extent of contamination at the Site to allow Ecology to select a cleanup action consistent with MTCA. The RI's objective is to fill data gaps to complete the evaluation of the Site's physical characteristics and nature and extent of contamination associated with the Site.

To produce this RI report, PES has aggregated information generated during implementation of the Interim Action Work Plan (PES, 2018), RI/FS Work Plan (PES, 2019f), and RI/FS Work Plan addenda (PES, 2020 and 2021) with information generated during other relevant investigations conducted at and near the Site. This RI report presents a description of the RI investigation, results of the RI testing and sampling, a description of the Site characteristics, a summary of the nature and extent of contamination, an updated conceptual Site model that

[1] WAC 173-340-200(b) defines a "site" or "facility" as any site or area where a hazardous substance, other than a consumer product in consumer use, has been deposited, stored, disposed of, or placed, or otherwise come to be located. AO No. DE 14302 defines this Site by the full lateral and vertical extent of contamination in soil, groundwater, and air (vapor), and possible surface water and sediments attributed, but not limited to, releases from past operations of the commercial laundry and retail gasoline station formerly located on the Property.

identifies exposure pathways and receptors, cleanup levels for the Site, and the areas exceeding cleanup levels. The results presented in this RI report will be used during the forthcoming FS to develop and evaluate cleanup action alternatives and recommend a preferred alternative for Site cleanup.

It should be noted that the RI data evaluation and reporting included in this document is intended to be a snapshot of the Site conditions at the time of Draft RI Report preparation. That evaluation involved all data collected through the second quarter of 2021 (with the groundwater data evaluation focused on the period between 2017 and the second quarter of 2021) and preliminary cleanup levels ("PCULs") issued by Ecology in 2021. Data collected after the second quarter of 2021 and changes to the PCULs or soil gas screening levels issued during the Draft RI Report review and revision process will be incorporated as appropriate in any future RI data addendum (if prepared) or in the future FS.

1.3 Report Organization

This RI report is organized as follows:

Section 1 – Introduction:
Provides the purpose and organization of the report and defines the Site.

Section 2 – Site Background:
Presents summaries of the location, history, and development of the Property, the surrounding properties, the regulatory history of the Site, the Property development, and future development of other properties in and near the Site.

Section 3 – Environmental Setting:
Provides a summary of the physical setting, climate, regional geology and hydrogeology, potential groundwater use near the Site, and surface water presence and use near the Site.

Section 4 – Site Investigations and Cleanup Actions:
Presents brief summaries of the environmental investigations and cleanup actions conducted at the Site, including pre-RI work at the Property, independent and interim Property cleanup actions, RI work at the Site, and work conducted at other properties at the Site.

Section 5 – Remedial Investigation Results:
Provides summaries of the Site geology, Site hydrogeology, screening levels used in the evaluation of the chemistry data, and nature and extent of contamination.

Section 6 – Conceptual Site Model:
Provides a description of the conceptual site model for the Site, including contaminant sources, chemical fate and transport, current and future land and water use, vulnerable populations and overburdened communities in the area, and exposure pathways and receptors.

Section 7 – Proposed Cleanup Levels and Areas of Concern:
Presents a description of chemicals of potential concern identification, proposed cleanup levels development for evaluating cleanup alternatives in the FS, and the areas exceeding the proposed cleanup levels.

Section 8 – Summary:
Presents a summary of the RI, including the scope of the work performed, the RI findings, and the areas exceeding the proposed cleanup levels.

Section 9 – References: Lists the sources of information referenced in the document.

2.0 SITE BACKGROUND

This section summarizes the Property location and description, the Property history and development, the surrounding facilities, the regulatory history of the Site, and future Property use.

2.1 Property Location and Description

BMRD owns the Property at 700 Dexter Avenue North in Seattle, Washington (Figure 1). The Property is located in the northeast quarter of Section 30, Township 25 North, Range 4 East, Willamette Meridian in King County, Washington. It consists of one tax parcel (King County Assessor Parcel Number 224900-0285-03) and since May 2017 is zoned SM-SLU 175/85-280, which is a Seattle mixed use zone for the South Lake Union Urban Center that allows both residential and a wide variety of commercial development. Appendix A provides a legal description of the Property. An ALTA Survey shows that the Property encompasses 59,822 square feet (approximately 1.4 acres). All but the southwest corner of the Property lies within the U.S. Government Meander Line buffer surrounding the historic Lake Union shoreline. Properties within this buffer are considered to have the potential for archeological resources.

The Property includes two adjacent 14-story office towers that encompass the entire parcel. Three levels of underground parking (below the elevation of 8th Avenue North) and a partial subgrade level for parking and support facilities (located between the elevation of Dexter Avenue North and 8th Avenue North) lie beneath the office towers. The recently-constructed buildings include on-street retail and offices at floors above the surrounding streets.

Excavation for the parking garage and foundations extended to elevations ranging from 10.7 to 0.7 feet above the North American Vertical Datum of 1988 ("NAVD 88")[2], varying based on the location of subsurface support facilities (e.g., elevators) and foundation requirements for the buildings. The depth of soil excavated to allow construction of the parking garage and support facilities varied with location on the Property based on variability in the ground surface elevations. For a large portion of the Property where the pre-construction ground surface elevation was approximately 40 feet, the excavation depth for construction of the garage and foundations ranged from 29.3 to 39.3 feet below the pre-construction ground surface.

[2] All elevations in this report are referenced to NAVD88, unless otherwise noted.

Dexter Avenue North, at an approximate elevation of 57 feet NAVD 88, bounds the Property to the west, and 8th Avenue North (approximate elevation of 43 feet) bounds the Property to the east. Valley Street, which bounds the Property to the north, and Roy Street, which bounds the Property to the south, both slope gently to the east. Full utility services are available in the area, with water, sanitary sewer, and storm drainage provided by Seattle Public Utilities, power provided by Seattle City Light, natural gas provided by Puget Sound Energy, and telecommunications provided by Century Link. Figure 2 provides a map of the utilities surrounding the Property.

2.2 Property History and Development

This section provides a brief summary of the Property history and development. The 2013 Draft RI Report (SES, 2013b), which served as a source of this summary, provides more detailed information, including copies of city records and photographs. Former Property owners included American Linen Supply Company (prior to April 28, 2015) and 700 Dexter LLC (between April 28, 2015, and January 8, 2017).

2.2.1 Buildings and Operations

Residences existed on the Property from at least 1893 until 1925. American Linen Supply Company acquired the southern half of the Property in 1925 and developed it into an industrial laundry operation. Building A, the first of the three buildings that comprised the American Linen development, was constructed in 1925 and began operations as a commercial laundry (Figure 3). The eastern part of Building A occupied the southeast quadrant of the Property and was constructed with a basement, first floor, and overhead mezzanine. This part of Building A included a boiler room in the northwest corner of the basement, an incinerator to the south of the boiler room, and a freight elevator to the southeast of the incinerator (see Figure 4 and the building plans provided in Appendix A). The western part of Building A occupied the southern half of the southwest quadrant of the Property and was constructed with a first floor and overhead mezzanine. A refueling facility (i.e., gasoline service station) was built on the northwest corner of the Property in 1930 (Figures 3 and 4). The refueling facility reportedly had several underground storage tanks ("USTs") and two dispenser islands.

In 1947, building additions were reportedly constructed by American Linen. The western part of Building A was expanded to the north so that Building A occupied the entire southern half of the Property. The Building A expansion was constructed with a basement, first floor, and overhead mezzanine. The original boiler room was replaced by a new boiler room constructed in the northwest corner of the Building A basement (just east of Dexter Avenue North), with four 6,000-gallon USTs supplying heating oil for the boilers installed to the south and east of the new boiler room. Also in 1947, Building B (a single-story, masonry garage) was built as an addition to the northeastern corner of Building A (Figure 3). Building B initially operated as a parking garage and automotive repair facility.

In 1966, Building C was built in the northwest quadrant of the Property (Figure 3), and the refueling facility at that location was demolished. Building C contained three levels: a basement, first floor, and overhead mezzanine. Between 1947 and 1966, a fuel dispenser was constructed, and up to three USTs were installed along the northern Property boundary in the northeast quadrant of the Property.

According to building plans and available reports (SoundEarth Strategies, 2013b and 2015a), the following laundry and dry cleaning operations occurred at the Property:

- Laundry operations were in the northeast portion of the first floor of Building A as shown on 1946 and 1947 building plans (Appendix A). Wood washers, metal washers, extractors, and tumblers were located on the first floor east of the underlying original boiler room, with a starch cooker, two starch extractors, two tubs, and two press units located along the east wall of this area. Feed tables were located east of the freight elevator, and a receiving area was located south of the feed tables. A July 1966 building plan showing the Building C addition indicates that washing also took place on the first floor of the original western part of Building A, and that ironing took place on the first floor to the east of the newer boiler room;

- Four trenches shown in 1940s building plans drained water from the first-floor laundry operations to drains located in the northeast part of the Building A basement. The 2-foot-wide trenches were constructed flush with the first-floor surface and 4 inches deep on the west end sloping to 6 inches deep on the east end. Although not shown on any building plan, the basement drains presumably connected to either the southern or eastern sanitary sewer lines (Figure 4).

- Dry cleaning was conducted on the Property as early as 1966, as shown on 1965 and 1966 building plans (Appendix A). SES (2013b) indicates that dry cleaning machines operated in the western part of Building A and reportedly leaked solvents into the subsurface. SES (2015a) shows the dry cleaning machines located on the first floor of Building A to the east of the newer boiler room (Figure 5). Plans for Building C indicate conflicting information about where dry cleaning took place. A July 1966 plan indicates that no dry cleaning was performed in Building A and that the first floor of Building C was a "high bay area – dry cleaning plant" with non-inflammable solvents/liquids. A December 1965 building plan, however, indicates that the first floor of Building C was a "dry cleaning and laundry work area," and a 1970 building plan indicates that the first floor of Building C was only a "garment sorting area." A December 1965 building plan indicates that the Building C basement was a truck loading and storage area;

- As reported by SES (2013b) and shown on a September 1978 building plan, three 6-foot diameter horizontal, aboveground storage tanks ("ASTs") were located in the basement of the northeast part of Building A. The use of these ASTs is indicated on the building plan. A sump (presumably Sump No. 3) was shown under one of the concrete tank slabs; and

- By 1990, the dry cleaning machines had been removed, and in the mid-1990s, commercial laundry operations ceased (SES, 2013a).

A wastewater treatment facility for the commercial laundry operations was constructed in Building B in 1986. The treatment facility included several ASTs containing acids, caustics, polymers, sludge, and water (see Appendix A). Waste material from the wastewater treatment facility was either discharged through the sewer system or conveyed into a disposal container to the north of Building B. The wastewater treatment system was removed when the commercial laundry operations ended in the mid-1990s.

The buildings were subsequently leased to various tenants, including several automotive repair shops, a bakery, and a car rental office. A 1990 building plan (Appendix A) indicates that two paint booths were located on the "main floor," east of the newer boiler room. The buildings on the Property were demolished between January 14 and March 8, 2013.

2.2.2 Subsurface Utilities

2.2.2.1 Property and Immediately Adjacent to the Property

Based on the available records, the following historical utilities existed outside the buildings at the Property (Figure 4):

1. **Sanitary Sewer Lines.** A 1926 Seattle Engineering Department side sewer card shows five sanitary side-sewers running between the east side of the Property and the 8-inch-diameter combined sewer line located beneath the 8th Avenue North Right-of-Way ("ROW"). Four were connected to Building A, and one was connected to the Building B area. An oil/water separator was located in the southeast corner of the yard area and was tied to one of the side sewer lines that connected to the 8-inch-diameter combined sewer line located beneath the 8th Avenue North ROW.

2. **Storm Drains.** Three catch basins were located on the west side of the yard area in the northeastern quadrant of the Property. The catch basins were connected to a storm drain that ran easterly to connect to the combined sewer in 8th Avenue North (see the basement floor plan in Appendix A). Additionally, SES reported a north-south trending trench drain was present in the yard in the northern portion of the Property.

3. **Natural Gas Line.** A gas line was located immediately west of the storm drain line along the west side of the yard area in the northeastern quadrant of the Property. The line connected to the 4-inch-diameter main line beneath the southern sidewalk of Valley Street.

4. **Electrical Lines.** Power to the Property came from a power pole in the eastern sidewalk of 8th Avenue North ROW. Power lines ran through an underground electrical conduit to an electrical vault in the southwest corner of the yard area in the northeastern quadrant of the Property.

5. **Water Lines.** One water line from the 12-inch-diameter cast iron water line beneath 8th Avenue North entered the Property from the east, and three water lines entered the Property from the west. Of the three western lines, one connected to the south part of Building A, and the other two connected to Building C.

6. **Tank 5.** A tank installed before 1966 (Tank 5) was located in the south part of the yard area in the northeastern quadrant of the Property. The tank reportedly functioned as a cooling tank for laundry wastewater. SES oversaw the removal of this tank in 2013 (SES, 2013b).

7. **Ducts.** Four 4-inch-diameter polyvinyl chloride ("PVC") ducts were installed beneath the Property in 1984 near the Roy and Dexter intersection. The purpose of the PVC ducts was not indicated in the documents reviewed by SES (2013b).

SES summarized a review of the subsurface utilities associated with operations in the buildings at the Property (SES, 2013b). Following is a brief summary by building (Figure 3):

1. **Building A.** Subsurface utilities beneath the Building A basement included six sumps (Nos. 1 through 4, 7, and 8) in the north central part of the building, a sump in the southeastern part of the building (in an area formerly used as a garage), the eastern sanitary sewer line, and a drainage system associated with the boilers installed in 1947. Drainage components in the boiler room included Sump No. 8 (a 3.5-foot by 3.5-foot by 3.5-foot sump covered with a wood grate that was connected to the sewer system, according to an April 1947 building plan), two boiler blow down pits, two floor drains between the boiler pits (according to SES (2013b), although not shown on any building plan), three 4-inch floor drains to the west and south of the boiler pits, and two sets of trenches to the north and south of the boiler pits. The northern trench (12 inches wide by 12 inches deep and covered with a steel grate) was for boiler blow-off, and the southern trench (18 inches wide and from 18 to 30 inches deep) reportedly contained oil and steam piping. A trench to the south of the original boiler room was reportedly filled with concrete in 1947. SES indicated that Sump No. 7 in the northeast corner of the building was likely removed or filled in preparation for the construction of Building B in 1947. SES (2013b) indicated that product delivery lines for the 6,000-gallon USTs still existed beneath the sidewalk on the east side of Dexter Avenue North and still ran beneath the Property. During Property redevelopment, the delivery lines were removed on the Property and cut down but left in place beneath the sidewalk. Additionally, water treatment trenches and Sump No. 6 were located beneath the first floor of the building.

2. **Building B.** A wastewater treatment plant for the commercial laundry operations operated in Building B between 1986 and the mid-1990s (Figure 4). The plant included pumps, a sump, drains, and a sanitary sewer line beneath the wastewater treatment plant that connected the plant to the flow control structure in the northeast quadrant of the Property.

3. **Building C.** Subsurface utilities beneath Building C included a trench drain located along the southern wall of the building, 4-inch-diameter floor drains located under the central and northern part of the building that exited the northeastern part of the building and connected to the combined sewer line beneath 8th Avenue North, a sump (No. 5), and natural gas lines connected to the boiler system in Building A. Additionally, several 5-inch-diameter pipe sleeves were located on the first floor of Building C adjacent to load-bearing columns in the former dry cleaning area; the pipe sleeves ran from the first floor into the basement.

During redevelopment of the Property, subsurface utilities were replaced. All utilities on the Property prior to excavation for the underground parking garage and building foundation elements were removed. Utility connections between the main lines in the street ROW were replaced, and in some cases the utility mains in the street were replaced. After renovation of the utility mains and reconnection of the utility lines to the Property, utility corridors consisting of multiple shallow utility lines encased in low-permeability fill lie beneath most of the northern portion of Roy Street on the south side of the Property and the southeast side of

8th Avenue North, east of the Property. A utility corridor containing communication and fiber lines encased in low-permeability soil is located along the east side of Dexter Avenue North (west of the Property), and a natural gas line was installed and encased in low-permeability soil on the south side of Valley Street near the northwest corner of the Property. Figure 2 depicts the locations of the sanitary sewer lines, storm drain main lines, and areas of aggregated shallower utilities (water, power, natural gas, and telecommunications).

2.2.2.2 Streets Surrounding the Property

Sanitary sewer and storm drain lines in the street rights-of-way near the Property are shown on Figure 2.

West of the Property: A King County main sewer line beneath Dexter Avenue North is located between elevations 43.65 and 43.30 feet, which is over 10 feet above groundwater in the area. The sewer line was installed in 1911 and slopes downward to the north. A side sewer exited the northeast corner of the former building at 701 Dexter Avenue North and connected to the main sewer line. Three side sewers exit the southeast corner, middle, and northeast corner of the building located at 717 Dexter Avenue North and connect to the main sewer line. The side sewer from the southeast corner connects to a drainage lateral within the footprint of the building.

North of the Property: The King County main sewer line beneath Dexter Avenue North is located between elevations 43.30 and 42.00 feet, which is over 10 feet above groundwater in the area. The sewer line was installed in 1911 and slopes downward to the north. A side sewer exits the middle of the west side of the building located at 810 Dexter Avenue North and connects to the main sewer line. The Seattle Public Utilities ("SPU") combined main line beneath 8th Avenue North is between 30.40 and 26.60 feet elevation, sloping downward to the north. The SPU combined main line was installed in 1923. Numerous lateral lines along the length of the east side of the 810 Dexter Avenue North building are connected to the 8th Avenue North main line, including both side sewers and storm drain laterals. The depths of the side sewers and laterals are not known, but given their points of origin in the building, it is likely that they are less than 10 feet deep at the building end of the pipes.

East of the Property: The SPU combined main line beneath 8th Avenue North is located between elevations 33.80 and 34.40 feet, which is less than 10 feet above groundwater in the area. The line was installed in 1923 and slopes downward to the north. Side sewers run from the southwestern and northwestern portion of the building at 800 Roy Street (also referred to as 800 Aloha) to the main line. The depths of the side sewers and laterals are less than 10 feet deep, given the elevation of the combined main line. A water line runs from 8th Avenue North to the southwestern portion of the building. The SPU combined line beneath the alley on the east side of 800 Roy Street is located between elevations 25.00 and 23.00 feet, which is the approximate elevation of groundwater in the area. The line slopes downward to the north. The SPU combined line in the alley was installed in 1953. The south end of the combined line begins approximately 60 feet north of Roy Street, where two side sewers connect from the east side of the building at 800 Roy Street. Three SPU side sewers ran from the west side of the former buildings on the east side of the alley to the SPU combined main line beneath the alley, and an SPU drainage lateral for the alley is adjacent to the former building concrete pad.

Other sewer and drainage laterals run east from the former building to the main lines beneath 9th Avenue North. Historical building plans for the former buildings east of the alley show bathroom facilities located within the former buildings (SES, 2013 and King County Assessor records), but the orientation or connection of the sewer laterals from the bathrooms could not be determined.

South of the Property: The SPU stormwater drainage main line beneath Roy Street begins in the eastern half of the 700 block and is between 42.86 feet elevation to the west and 27.72 feet elevation at 9th Avenue North, which is less than 10 feet above groundwater in the area. The SPU drainage main line was installed in 2014. Large-diameter sewer lines constructed as part of the Denny Way Combined Sewer Overflow ("CSO") project lie beneath the south side of the Roy Street ROW. Besides the large-diameter pipelines, the major component of the project near the Property is the East Tunnel Portal/Drop Structure located just south of the intersection of Roy Street and 8th Avenue North. The approximately 70-foot-deep vertical shaft, which is still present, was used during construction of the Mercer Street Tunnel and the Lake Union and South Lake Union CSO pipelines.

2.3 Property Regulatory History

In November 2012, 700 Dexter LLC (the previous Property owner) entered Ecology's Voluntary Cleanup Program ("VCP"; Project No. NW2652) to begin addressing subsurface contamination at the Site. Under the VCP, 700 Dexter LLC submitted a draft RI Report (SES, 2013b) and a draft FS Report (SES, 2013c). In 2015, 700 Dexter LLC requested that future cleanup work be administered under a formal agreement with Ecology, so Ecology terminated their participation in the VCP. Subsequently, Ecology issued determination of potential liable party ("PLP") status letters to 700 Dexter LLC and American Linen in December 2015, based on American Linen being the owner and operator of the Property at the time of disposal or release of hazardous substances and 700 Dexter LLC having owned and possessed a hazardous substance and having arranged for treatment of the hazardous substance at the Property. On January 12, 2017, Ecology also issued a determination of PLP status letter to BMRD as the current owner of the Property.

BMRD and Ecology entered into AO No. DE 14302 with an effective date of October 24, 2017. The AO requires that BMRD perform an RI/FS and prepare a preliminary draft Cleanup Action Plan ("DCAP"). The RI/FS required by the AO is the subject of this report. The AO also describes the requirements for performing the IA, which is summarized in Section 4.3 and described in more detail in the Interim Action Completion Report (NV5, 2025).

2.4 Histories of Other Properties in and near the Site

This section describes the properties in and adjacent to the Site (Figure 6).

2.4.1 Parcels Southwest of the Property

2.4.1.1 601 Dexter (Facility Site ID 56257757)

The 601 Dexter site is located at 601 Dexter Avenue North. The property is a 0.54-acre (23,632-square-foot) parcel containing a single-story office building and asphalt-paved parking lot. The west side of the office building was constructed in 1919 and expanded to the east in the 1940s (Hart Crowser, 2019). Historical operations at the property included a gasoline service station, a dry cleaner, and light industrial businesses (Hart Crowser, 2019). A side sewer exits the northeast side of the building and connects to the main sewer line beneath Dexter Avenue North.

2.4.1.2 Seattle DOT Dexter Parcel (Facility Site ID 81735)

The Seattle DOT Dexter Parcel site is located 615 Dexter Avenue North. The property is a 0.56-acre (24,192-square-foot) parcel with street addresses of 614 and 620 Dexter Avenue North. The parcel contains a single-story warehouse building with a basement and two asphalt-paved parking lots and is used as a printing facility, warehouse, and offices. Historical operations at the property included industrial manufacturing and plastic mixing (SDOT, 2018; Shannon & Wilson, 2018). The property contained multiple residences as early as 1893. In 1926, the southern half of the current building was constructed, which was expanded in 1945 (Shannon & Wilson, 2018). In 2005, the eastern portion of the building burned down. Two side sewers exit the northeast corner and east side of the building and connect to the main sewer line beneath Dexter Avenue North.

2.4.2 Parcels West of the Property

2.4.2.1 701 Dexter (Facility Site ID 78082)

The 701 Dexter site is located at 701 Dexter Avenue North. The property is a 0.62-acre (27,127-square-foot) parcel that contained a six-story office building. The building was built in 1984 and contained at-grade parking on the first two levels. The property contained single and multifamily residences from 1893 through 1925, and a restaurant on the western portion of the property from 1936 to the early 1980s (Ecology, 2020c). A side sewer exited the northeast corner of the former building and connected to the main sewer line beneath Dexter Avenue North. As of production of this RI report, the 1984 building had been demolished, and a new building was being constructed.

2.4.2.2 Auto Service Europa Inc (Facility Site ID 27611753)

The Auto Service Europa Inc site is located at 717 Dexter Avenue North. The property is a 0.33-acre (14,520-square-foot) parcel developed into an apartment complex in 2012, with street level retail shops and two stories of sub-grade parking. The parcel previously contained a one-story masonry building built in 1928 that most recently housed an automobile sales and repair shop (Earth Solutions NW, 2009). Three side sewers exit the southeast corner, middle, and northeast corner of the current building and connect to the main sewer line beneath Dexter Avenue North.

2.4.3 Parcels North of the Property

2.4.3.1 Seattle SD 1 Facilities Building (Facility Site ID 56583225)

The Seattle SD 1 Facilities Building site is located at 810 Dexter Avenue North. The 1.43-acre (62,250-square-foot) parcel occupies the entire block. The Seattle School District constructed a building at the property in 1920 and operated the facility for administrative and storage uses (The Johnson Partnership, 2013) . In 1934, the school district remodeled the building to house the Facilities Department (The Johnson Partnership, 2013). Other historical uses of the property included aviation electronics manufacturing and construction offices (The Johnson Partnership, 2013). In 2015, the property was redeveloped as an apartment complex with street level retail shops and one floor of sub-grade parking. A side sewer exits the middle of the west side of the building and connects to the main sewer line beneath Dexter Avenue North. Numerous lateral lines along the length of the east side of the building connect to the combined main line beneath 8th Avenue North.

2.4.4 Parcels East and Northeast of the Property

2.4.4.1 Seattle Roy Aloha Shops (Facility Site ID 95811428)

The Seattle Roy Aloha Shops site is located at 800 Roy Street. Seattle City Light owns the parcel. The 1.54-acre (67,025-square-foot) parcel occupies the entire west half of the block with street addresses 710 8th Avenue North, 800 Aloha Street, 801 Aloha Street, 800 Roy Street, and 802 Roy Street. The parcel contains a one-story, masonry warehouse with a basement that was built in 1926 on the southern half of the property. The 27,756-square-foot basement is unfinished and 16 feet high (SES, 2013b and King County Assessor records). The Lake Union Village (temporary housing) currently occupies the asphalt-paved parking lot north of the building. Historically, a garage in the northern part of the building's basement was used to repair, refuel, and wash vehicles. Transformer testing was also performed in the basement. Historically, vehicles, transformers, fuels, and equipment were stored on the northern half of the property. Side sewers run from the southwestern and northwestern portion of the building to the main line beneath 8th Avenue North, and two side sewers connect from the east side of the building to the combined line beneath the alley east of the building.

2.4.4.2 Block 79[3] East (Facility Site ID 84466254)

The Block 79 East site is located in the area between 9th Avenue North and the alley on the east side of 800 Roy Street/800 Aloha Street. The area consists of four tax parcels with street addresses of 701 - 753 9th Avenue North. The four tax parcels are each vacant with no buildings or structures. These properties were created by filling in the southern portion of the Lake Union shoreline in the early 1900s (SES, 2013b). In 1922, an automobile showroom and service shop were built on the southern half of the property. Three buildings were constructed on the property between 1946 and 1950 that contained an automotive welding factory, automotive repair shops, and general retail. By 1980, automotive dealerships and retail tenants occupied the parcels, and an auto body facility began operating in the central part of the area in 1996.

[3] Block 79 and the other block numbers referenced within this document were assigned by Vulcan Real Estate for property development planning purposes; they differ from the block numbers that were originally assigned by the City of Seattle.

Three SPU side sewers run from the west side of the former buildings on the east side of the alley to the SPU combined main line beneath the alley, and an SPU drainage lateral for the alley is adjacent to the former building. Other sewer and drainage laterals run east from the building to the main lines beneath 9th Avenue North. Historical building plans for the former buildings east of the alley show bathroom facilities located within the building (SES, 2013 and King County Assessor records), but the orientation or connection of the sewer laterals from the bathroom could not be determined.

2.4.4.3 Seattle City DOT ROW 710 9th Ave North (Facility Site ID 21735)

The Seattle City DOT ROW 710 9th Ave North site is located at 710 9th Ave North. The site is located in the area between 9th Avenue North, Westlake Avenue North, and Broad Street consists of three tax parcels with street addresses of 900 Roy Street, and 701 - 731 Westlake Avenue North. These properties were created by filling in the southern portion of the Lake Union shoreline in the early 1900s (SES, 2013b). Per SES (2013b), the parcels were developed in 1914, with multiple renovations to the buildings over time. Property uses included a laundry facility initially, with subsequent uses as a gasoline service station and automotive repair shop, a lithograph manufacturer, a sheet metal fabrication and painting shop, an automotive repair shop, an automotive sales and repair facility, and more recently industrial, food service, retail, and residential uses.

2.4.4.4 Seattle City Parks NW Seaport (Facility Site ID 14237126)

The Seattle City Parks NW Seaport site is located at 1002 Valley Street. The 1.35-acre (58,605-square-foot) parcel occupies the southern extent of South Lake Union Park. The parcel contains a two-story building built in 2018 that houses the Center for Wooden Boats museum. Historical operations at the property included glass manufacturing and wooden boat repair (Eco Compliance Corporation, 2008a). A sanitary sewer exits the south of the building and joins two other sewer lines west of the property before joining the main sewer line below Mercer Street. Numerous storm drains are located at the property.

2.4.5 Parcels Southeast of the Property

2.4.5.1 Block 38 West (Facility Site ID 62773)

The Block 38 West site is located in the area east of Westlake Avenue North and south of Mercer Street. The site consists of three tax parcels with street addresses of 500 - 536 Westlake Avenue North, and extends into the eastern portion of the alley between Westlake Avenue North and Terry Avenue South. Per Ecology (2020b), commercial and retail activities at Block 38 West started in the early 1900s. Commercial activities included lumber and wagon businesses, a blacksmith, a veterinary hospital, and stables (Ecology, 2020b). Building construction continued at Block 38 West from 1920 through 1964, and commercial and retail activities continued through 2019 (Ecology, 2020b). Redevelopment of Block 38 West began in 2019 and building construction has recently been completed.

2.4.5.2 Block 37 (Facility Site ID 46445373)

The Block 37 site is located at 600 and 630 Westlake Avenue North. The site consists of six tax parcels that occupy the entire block. Commercial activities at the property began in the 1800's, with a lumber mill, creamery, and brewery operating until the early 1930s (Ecology, 2021a). Between the 1930s and the demolition of buildings at the property in the late 2000s, numerous automotive businesses operated throughout the property including service garages and retail gasoline stations (Ecology, 2021a). Current use of the property includes parking and construction laydown and staging (Ecology, 2021a).

2.4.5.3 AIBS Building Block 43 (Facility Site ID 32368748)

The AIBS Building Block 43 site is located at 601 Westlake Avenue North. The 1.24-acre (53,869-square-foot) parcel occupies the entire block. The parcel was developed as an office building in 2014 and 2015 with street level retail shops, laboratories, a museum, an auditorium, and four levels of below-grade parking (as deep as -12 feet elevation). Commercial activities at the property began as early as 1905. By 1917, a bottling facility, wood yard, a steam laundry, and automobile storage operated at the property (HWA, 2015). Between 1950 and the demolition of buildings at the property in 2010, numerous automotive businesses operated at the property including automobile repair, service shops, fueling facilities, and dealerships (HWA, 2015). From 2010 through redevelopment of the property in 2014, property use included construction laydown and staging, and a retail biofuel station (HWA, 2015).

2.4.5.4 Amazon VI (Facility Site ID 7811)

The Amazon VI property consists of two parcels totaling 1.91 acres (83,017 square feet) with the street addresses 515 – 535 Westlake Avenue North. The Amazon VI parcels and two additional parcels with street addresses 503 and 507 Westlake Avenue North comprise Block 44. Commercial activities at Block 44 began as early as 1905 when a steam laundry operated at the northern portion of the site (EPI, 2000). By 1936, automobile parking occupied the northern portion of Block 44, and two buildings occupied the southern portion (Shannon & Wilson, 2018b). Between 1956 and 1965, the southwestern building was demolished, and that portion of the property was used for additional parking (Shannon & Wilson, 2018b). The parking area and northern portion of the building were redeveloped in 2012 and 2013 into a six-story office building with retail stores on the ground level and two floors of sub-grade parking.

2.4.6 Parcels South of the Property

2.4.6.1 Seattle DOT Mercer Parcels (Facility Site ID 27913)

The Seattle DOT Mercer Parcels site consists of two tax parcels with street addresses of 750 Mercer Street and 800 Mercer Street. The two parcels total 2.35 acres (102,341 square feet), and both parcels are currently vacant. Historical operations at the property included an auto repair shop, gas station, and paint manufacturer. Large-diameter sewer lines constructed as part of the Denny Way Combined Sewer Overflow ("CSO") project lie beneath the south side of the Roy Street ROW. Besides the large-diameter pipelines, the major component of the project near the Property is the East Tunnel Portal/Drop Structure located just south of the intersection of Roy Street and 8th Avenue North.

2.4.6.2 500 Dexter Avenue North (Block 55)

Block 55 consists of three tax parcels totaling 2.06 acres (89,478 square feet) with street addresses of 530 Dexter Avenue North (Facility Site ID 99998165) and 750 Republican Street. Historical operations at Block 55 include a print and graphics company from 1990 through 2003. The southern two-thirds of Block 55 was redeveloped in 2017 with two eight-story office towers and three floors of sub-grade parking. The office towers house primarily medical laboratories and services.

2.4.6.3 WA UW 815 Mercer (Facility Site ID 95373825)

The WA UW 815 Mercer site is located at 850 Republican Street and 815 Mercer Street. The site consists of two tax parcels totaling 2.41 acres (105,322 square feet) that occupy the entire block (Block 50). Site development began before 1893. The site contained an office building by 1909, and natural gas storage began at the site by 1917 (Floyd Snider, 2011). By 1983, the northeastern portion of the site contained office and storage space, and the southern portion of the site contained a compressed natural gas station (Floyd Snider, 2011). In 2004 the office building was renovated into medical laboratories, and in 2006 three five-story buildings with three floors of subgrade parking were built around the existing building (Floyd Snider, 2011). Medical laboratories currently occupy the buildings on the property.

2.5 Other Future Property Development in and near the Site

As discussed in Sections 2.3 through 2.8, the South Lake Union area has undergone significant development in the last two decades, with properties previously used for vehicle sales, vehicle maintenance and fueling, and commercial and light industrial businesses being redeveloped into office and residential buildings with street-level retail enterprises. Some redevelopment projects, like the Property, Block 38 West, and 400 Westlake Avenue North, are currently underway or have been recently completed. Others have not yet begun. Based on Seattle Department of Construction & Inspections ("SDCI") records, other properties in and near the Site that are slated for redevelopment in the near future include:

- **601 Dexter Avenue North (601 Dexter Parcel).** Preliminary plans indicate that one 12- or 13-story office tower with three to four levels of subsurface parking may be constructed. Dewatering would be required during construction to allow excavation and subsurface construction;

- **615 Dexter Avenue North (Seattle DOT Dexter Parcel).** One 18-story residential building with two levels of subsurface parking is planned. Dewatering would be required during construction to allow excavation and subsurface construction;

- **701 Dexter Avenue North (701 Dexter Parcel).** One 10-story office tower with four levels of subsurface parking is currently being constructed. Dewatering is required during construction to allow excavation and subsurface construction;

- **800 Mercer Street (Seattle DOT Mercer Parcels).** Two 13-story office towers with three levels of subsurface parking are planned. Dewatering would be required during construction to allow excavation and subsurface construction and to protect the sewer tunnels on the property; and

- **Block 37 and Block 79E.** Although specific plans are not available on the SDCI website, both of these blocks are likely to be redeveloped in the near future. Any subsurface components of either development would require dewatering.

3.0 ENVIRONMENTAL SETTING

This section summarizes the physical setting, climate, regional geology and hydrogeology, potential groundwater use near the Site, and surface water presence and use near the Site.

3.1 Physical Setting

The Property is located within the Puget Lowland physiographic province, a broad, low-lying region situated between the Cascade Range to the east and the Olympic Mountains to the west. Alluvial valleys and plains, and glacially formed or modified hills and ridges dominate the lowland. The Property lies on the southeast flank of Queen Anne Hill in the South Lake Union district north of downtown Seattle, with Lake Union to the northeast, Capitol Hill to the east, and Elliott Bay to the southwest. The surface elevations around the Property vary from approximately 57 feet (NAVD 88) on Dexter Avenue North to approximately 43 feet on 8th Avenue North, with both Valley Street and Roy Street adjacent to the Property sloping gently to the east. The Site generally slopes gently to the north and east with surface elevations of approximately 28 feet along Westlake Avenue North.

3.2 Climate

Air masses originating over the Pacific Ocean strongly affect the climate of the Puget Sound Lowland, with generally overcast, cool, damp, and mild weather during the autumn, winter, and spring, and warm and dry weather during the summer. The average monthly maximum temperature ranges from a low of 45 degrees Fahrenheit in January to a high of 76 degrees in July. Monthly minimum temperature averages vary from a low of 35 degrees in January to a high of 55 degrees in July and August. The prevailing wind direction year-round is from the south.

The annual precipitation ranges from about 30 to over 60 inches in the lowland. The average annual precipitation in the Seattle area is about 39 inches, with approximately three-quarters of it falling between October and March. Annual snowfall averages approximately 10 inches, falling between November and March.

3.3 Regional Geology

The Puget Sound Region is underlain by a thick accumulation of Quaternary sediment of alluvial and glacial origin. The shallowest sediments consist primarily of inter-layered and/or sequential river, lake, fan, and terrace deposits of sand, silt, and clay deposited on top of

Pleistocene glacial deposits. The Site is located in the southern part of the Puget Sound Lowland, a broad, relatively level glacial drift plain dissected by a network of deep marine embayments. The Site is located at the southeast edge of Queen Anne Hill and the southwest edge of the Lake Union Depression. The thickness of unconsolidated deposits beneath the Site is over 2,500 feet (Jones, 1999; Eungard, 2014). The Site lies approximately 2 miles north of the Seattle Fault Zone, a seismically active area with multiple strands of the Seattle fault present.

Figure 7 presents a portion of the U.S. Geological Survey geologic map of northeastern Seattle (Booth et al, 2009), including Lake Union, the eastern half of Queen Anne, and the western half of Capitol Hill. The map presents the surficial geology present prior to human modifications to the ground surface (cutting, filling, and grading). As shown on Figure 7, the Quaternary geologic units mapped in the Lake Union area include from youngest to oldest (Troost et al, 2005):

- **Wetland Deposits (Qw).** Mapped in the area along the Lake Washington Ship Canal, deposited after the most recent glaciation, and composed of organic-rich sediment and fine-grained soil, very soft to firm;

- **Lake (Lacustrine) Deposits (Ql).** Mapped along the western, southern, and to a lesser extent, eastern boundaries of Lake Union, deposited after the most recent glaciation, and consisting of silt and clay with sandy layers, peat, and organic-rich sediment, very soft to firm;

- **Vashon Recessional Outwash Deposits (Qvr).** Mapped on the northern sides of Queen Anne and Capitol Hill, deposited during retreat northward of the most recent glaciers, and composed of stratified sand and gravel, with lesser amounts of silty sand and silt, loose to dense;

- **Vashon Recessional Lacustrine Deposits (Qvrl).** Mapped on the southeast boundary of Lake Union and along the southern part of the Site, deposited during retreat northward of the most recent glaciers, and composed of laminated silt and clay with local sandy layers, peat, and organic-rich sediment, very soft to firm;

- **Vashon Ice-Contact Deposits (Qvi).** Mapped in isolated areas to the south of Lake Union, near the end of the most recent glaciation, consisting of irregularly shaped deposits of gravel, sand, and silt till and clean to silty sand and gravel, loose to very dense;

- **Vashon Till (Qvt).** Mapped along the top of Queen Anne and Capitol Hill, draping over the sides of both, deposited during the most recent glacial period, consisting of a poorly sorted mixture of silt, sand, and gravel, very dense;

- **Vashon Advance Outwash Deposits (Qva).** Mapped at the surface of most of Queen Anne and parts of Capitol Hill, deposited during the most recent glacial period, consisting of a poorly sorted mixture of silt, sand, and gravel, very dense;

- **Vashon Lawton Clay (Qvlc).** Mapped at the surface partway down the north, east, and south sides of Queen Anne and partway down the west side of Capitol Hill, deposited in the transition from the nonglacial period to most recent glacial period, consisting of laminated to massive silt and clay, with scattered dropstones, very hard;

- **Pre-Frasier Glaciation Deposits (Qpf and Qpfn).** Mapped at the surface downhill of the Lawton Clay on the north and east sides of Queen Anne and on the west side of Capitol Hill, deposited prior to the most recent glacial period (Frasier glaciation), consisting of sand, gravel, silt, clay, and organic deposits, very dense and hard;

- **Olympia Beds (Qob).** Mapped at the surface locally on the west and north sides of Capitol Hill, consisting of sand, gravel, silt, and peat, very dense and hard; and

- **Pre-Olympia Beds Deposits (Qpo).** Mapped at the surface along the shoreline on the north side of Capitol Hill, of indeterminate age and origin, consisting of interbedded sand, gravel, and silt, very dense and hard.

As seen on Figure 7, dense glacial deposits predominate under the hills in the Lake Union area, and less dense post-glacial deposits (including those deposited during glacial retreat and more recent lake deposits) predominate around the lake. Figure 8 provides a geologic cross section from Queen Anne on the west to Capitol Hill on the east along a trace (see Figure 7) that depicts the typical juxtaposition of these units. The stratigraphic sequence beneath Queen Anne and Capitol Hill represents the advance and retreat of the most recent glacial period, with recessional deposits on top of (sequentially) glacial till, advance outwash deposits, Lawton Clay, and pre-Frasier glacial deposits. Although not shown on Figure 7, the portion of Seattle where the Site is located underwent extensive excavation and filling in the early 1900s, with removal of Denny Hill to the southwest and the filling in of the southernmost portion of Lake Union. The fill is reported to be greater than 25 feet thick in some locations.

3.4 Regional Hydrogeology

The principal aquifers in the Puget Sound Region are in coarse-grained glacial deposits (outwash and proglacial deposits) and coarse-grained alluvial deposits found underlying both major lowland and mountain river valleys. Glacial till, lacustrine deposits, and other fine-grained deposits, such as glacial marine and mudflow deposits, serve as semiconfined or confined units in these same areas. Groundwater flow is generally horizontal in aquifers and vertical in semiconfined or confined units, with vertical hydraulic gradients downward in higher elevation recharge areas and upward near discharge locations (water bodies). Shallow groundwater flow direction often mimics the surface topography, flowing from areas of high ground surface elevations to areas of lower ground surface elevations. Deeper groundwater flows in a more subdued version of shallower groundwater flow (Vaccaro et al, 1998). In aquifers located near or below sea level, aquifer geometry, and discharge locations control groundwater flow more than surface topography.

In the South Lake Union area, groundwater recharge occurs in unpaved locations, most importantly at higher elevations, with shallower groundwater flow toward Lake Union. Beneath Queen Anne and Capitol Hill, groundwater flows more easily through coarser deposits

such as Recessional Deposits and Advance Outwash Deposits, while lower permeability Till and Lawton Clay Deposits hinder groundwater flow (Figure 8). Groundwater flow in the deeper glacial deposits is more complicated, with components of flow both west toward Elliott Bay and to the south in the area south of Lake Union. Leaking pipes could influence groundwater flow locally.

3.5 Groundwater Use Near South Lake Union

3.5.1 Potential Consumptive Use

In October 2020, the Ecology well log, Ecology water right, Washington State Department of Health ("DOH") Source Water Assessment Program, and King County groundwater well databases were queried for records of installed water supply wells, groundwater rights, and private group water systems near South Lake Union. To be conservative, NV5 searched the area within 1.5 miles of the Property. The DOH database indicated no Type A or B water sources or well head protection areas in the central Seattle area. The King County groundwater well database showed no additional wells beyond those shown in the Ecology databases.

Based on the existence of well logs or potential water rights, eight former or existing potential groundwater users were identified in or immediately adjacent to the search area (Table 1). One of the well locations (Troy Laundry) is less than ½ mile southeast of the Property, and two other well locations (Fisher Properties) are less than 1 mile southwest of the Property (Figure 9). The remaining five locations (four wells and a spring) are located farther than 1 mile of the Property. Following is a summary of the use status of groundwater at these locations:

- Lake View Cemetery likely continues to use their water-supply well for irrigation since the water right application for it is relatively recent. No installation information is available for the well, which is located approximately 1.2 miles to the northeast of the Property;

- The Seattle Steam Company water-supply well, located approximately 1.3 miles to the south of the Property, is likely in use due to its recent installation and water right claim. The well is far deeper than any Site well and very unlikely to capture Site groundwater;

- The Troy Laundry water supply well was decommissioned in 2011 (SES, 2012);

- The two Fisher Properties wells, which were installed in 1999 and 2001, lack corresponding water right applications, so it is unlikely that they are currently in use.

- The Lorentz spring is likely not in use due to age (1974 water right claim), area development, and the availability of city water; and

- Neither Puget Sound Light & Power nor Diamond Ice & Storage still exist, so it is likely that the water-supply wells at these locations are no longer in use. Their decommissioning status is unknown.

3.5.2 Dewatering During Area Redevelopment Projects

Many properties have recently undergone redevelopment in the South Lake Union area. Given the relatively shallow depth to groundwater, most subsurface work has required dewatering. Fifteen properties, including the Property, have implemented dewatering during redevelopment in the last 15 years. Table 2 provides the available monthly discharge volumes from these properties, and Figure 10 presents a summary of the volume of groundwater removed and the timing of the dewatering at each property. The total volume of groundwater extracted during these projects was greater than 758 million gallons.

Properties extracting the largest volumes of groundwater included Block 38 West (199.1 million gallons in 2019 and 2020), Blocks 25, 31 and 37 (191 million gallons in 2017); Block 43 (112.6 million gallons in 2013 and 2014); Block 56 (65.9 million gallons in 2015 and 2016); Block 32 (59.7 million gallons in 2009 and 2010); and Block 44 (51.0 million gallons in 2013). Blocks 38W and 43 extracted groundwater over the longest period (14 months when fully operational), and the combined pumping at Blocks 25, 31, and 37 in 2017 extracted groundwater at the highest rate (21.1 million gallons per month). Most of these properties are located to the southeast of the Property and beyond the extent of the Site.

3.6 Surface Water

3.6.1 Area Surface Water

The Property lies in the Cedar-Sammamish Watershed, a roughly rectangular-shaped watershed approximately bounded by the Cascade Mountain range to the southeast, south Everett to the north, and downtown Seattle to the south. Major surface water bodies in the watershed include Lake Washington, Lake Sammamish, Lake Union, the Sammamish River, and the Cedar River, with numerous other small lakes and creeks on the upland plain. The closest surface water bodies to the Property are Lake Union, located approximately 570 feet northeast of the northeast corner of the Property, and Puget Sound, located approximately 1 mile southwest of the southwest corner of the Property (Figures 1 and 9).

The U.S. Army Corps of Engineers ("USACE") regulates the operation of the Ballard Locks and monitors the water levels and water quality at stations located along the waterways, in Lake Union, and in Lake Washington. The USACE maintain the water level in the waterways and lakes between approximately 20.0 and 22.0 feet (Corps of Engineers Datum, equivalent to approximately 16.78 and 18.78 feet NAVD 88, respectively). The USACE maintains water elevations closer to the minimum during the winter months to allow for maintenance on waterside structures, to minimize wave and erosion damage during winter storms, and to provide storage space for higher winter inflow. Higher water elevations are maintained in the summer months to assist in operating the locks, the saltwater return system, and the fish flume and ladder. The mean water elevation in Lake Washington in 2020 was 17.96 feet (NAVD 88), compared to the mean 2020 water elevation of 4.45 feet (NAVD 88) at the Elliott Bay tidal station operated by the National Oceanic and Atmospheric Administration ("NOAA"). The average water depth of Lake Union is 32 feet, with a maximum sounded water depth of 23 feet in the southern embayment closest to the Site (U.S. Department of Commerce, 2012).

The Water Quality Standards for Surface Waters of the State of Washington (WAC 173-201A-600) lists the beneficial uses of surface water bodies in the state. Like many surface water bodies, Lake Union has no restrictions, so it is to be protected for the following designated uses:

- Salmonid spawning, rearing, and migration;
- Primary contact recreation;
- Domestic, industrial, and agricultural water supply;
- Stock watering;
- Wildlife habitat;
- Harvesting;
- Commerce and navigation;
- Boating; and
- Aesthetic values.

Elliott Bay is protected for the following designated uses:

- Excellent aquatic life use;
- Primary contact recreation;
- Wildlife habitat;
- All harvesting uses;
- Commerce and navigation;
- Boating; and
- Aesthetic values.

3.6.2 Potential Surface Water Use Near South Lake Union

In October 2020, PES reviewed agency databases documenting potential consumptive surface water use near the Property. The databases reviewed included the Ecology water right and DOH Source Water Assessment Program databases. To be conservative, PES searched the area within 1.5 miles of the Property. The DOH database indicated no Type A or B water sources in the central Seattle area.

Based on the existence of potential water rights, three former or existing potential surface water users were identified in the search area (Table 1). Two of the locations (City of Seattle and Lake Union Drydock) are approximately ¾ mile northeast of the Property, and the third location (Eggers) is approximately 1.3 mile north northeast of the Property (Figure 9). Following is a summary of the use status of surface water use at these locations:

- The Lake Union Drydock is still in business on the southeast side of Lake Union, so they likely continue to use water from Lake Union as ballast in the drydock;
- The City of Seattle steam generating plant on the southeast side of Lake Union no longer exists, so the water right for the property, though active, is likely not used; and
- The water right claim for use of Lake Union water for a historical exhibit at Gas Works Park is likely not used since the exhibit, which was to include a demonstration of fuel synthesis, does not exist.

4.0 SITE INVESTIGATIONS AND CLEANUP ACTIONS

4.1 Property-Related Investigations Conducted Prior to the Interim Action and RI

Various consultants conducted investigations at and adjacent to the Property between 1992 and March 2016. Those cumulative subsurface investigation tasks for the Site were extensive and detailed. They included drilling and sampling soil and groundwater from 41 temporary borings, excavating 19 test pits, installing and sampling 111 monitoring wells, installing and sampling 3 soil vapor probes, conducting 13 aquifer (slug) tests, measuring groundwater levels in 8 events, and collecting approximately 480 soil and 250 groundwater samples for laboratory analysis. Soil and groundwater samples were submitted for laboratory analysis of primarily chlorinated volatile organic compounds ("CVOCs") and/or petroleum hydrocarbon related constituents. Subsurface explorations were located from Aloha Street on the north to Mercer Street on the south, and from Dexter Avenue North on the west to Westlake Avenue North on the east. The maximum depth explored during these investigations was 145 feet bgs.

SES (2013b) identified three water-bearing zones during drilling activities: a shallow water-bearing zone comprised of fill and encountered to depths of 10 to 20 feet bgs, a relatively thick intermediate water-bearing zone composed of dense to very dense, heterogeneous glacial soil (found between 25 and 80 feet bgs, divided into an upper "A" zone and a lower "B" zone [see Section 5.2.3]), and a deep water-bearing zone composed of glacial outwash deposits. PES has observed similar stratigraphy and has maintained these zone names throughout this document. For consistency and simplicity from here on, the zones are referred to as follows: Shallow Zone (for the shallow water-bearing zone), Intermediate A Zone (for the Intermediate A water-bearing zone), Intermediate B Zone (for the Intermediate B water-bearing zone), and Deep Zone (for the deep water-bearing zone).

Appendix B presents a summary of the investigations conducted at the Site prior to the IA and RI. The Draft RI Report (SES, 2013b), Draft Cleanup Action Plan (SES, 2015a), and Draft Interim Action Work Plan (SES, 2016) provide more detailed information. Figures 11 and 12

show the boring and well locations, Figure 13 provides a timeline of the pre-IA investigations conducted since 2010, Table 3 presents the well completion details (where known), Appendix C provides the available boring logs, and Appendix D provides the survey coordinates of the exploration locations. The results of these pre-IA investigations are included in the discussion of the nature and extent of contamination at the Site (Section 5.3).

4.2 Property Independent Actions

4.2.1 UST Closure

Four 6,000-gallon USTs (Tanks 1 through 4) associated with the former laundry boiler system and a fifth 500- to 600-gallon UST (Tank 5) were removed from the Property by SES on March 22, 2013 (SES, 2013a; Figure 3). Droplets of liquid mercury were found when the concrete foundation near Tank 2 was removed; the mercury, which SES speculated to be from a broken gauge, was contained and disposed of as hazardous waste at a regulated facility. A limited amount of petroleum-contaminated soil was observed in the vicinity of Tanks 1 and 4. It was thought that this soil was a result of tank overfill. Tanks 1 through 5 contained no measurable product and were cleaned by Marine Vacuum Services, Inc., prior to disposal at Seattle Iron and Metal in Seattle. Tanks 1 through 4 each measured approximately 28 feet long by 6 feet in diameter, were constructed of single-walled steel, and appeared to be in good condition, with no visible perforations or rust. Tank 5 measured approximately 10 feet long by 3 feet in diameter, was constructed of single-walled steel (though a lighter gauge than Tanks 1 through 4), and appeared to be in poor condition, with numerous perforations. Based on visual, olfactory, and analytical methods, the contents of Tanks 1 through 4 were thought to be Bunker C fuel oil, and the contents of Tank 5 were thought to be water.

Soil samples were collected from the sidewalls and bottom of each UST excavation and were submitted for laboratory analysis of diesel-range organics ("DRO") and oil-range organics ("ORO"); the soil samples collected from the bottom of the Tank 2 excavation were also submitted for analysis of Resource Conservation Recovery Act ("RCRA") 8 metals. Based on the low concentrations of the analyzed constituents and limited amount of soil with visible petroleum impacts, SES reported that the soil near the tanks was protective of human health and the environment (SES, 2013a). No correspondence from Ecology concurring with this conclusion is available.

4.2.2 Electrical Resistance Heating and Soil Vapor Extraction

Between April and December 2013, an electrical resistance heating/soil vapor extraction ("ERH/SVE") system was designed, installed, and operated by SES to clean up high concentrations of CVOCs in soil and groundwater beneath the Property (SES, 2015a and 2016). The objective of using the ERH/SVE system was to reduce tetrachloroethene ("PCE") concentrations to below 14 milligrams per kilogram ("mg/kg") in vadose zone soil (at an approximate elevation of 30 to 40 feet) and to below 5,000 micrograms per liter ("μg/L") in groundwater within the upper 30 feet of the saturated zone (at an approximate elevation of 0 to 30 feet). The soil cleanup goal was selected to allow for disposal of excavated soil at a non-hazardous, Subtitle D landfill. The groundwater target concentration of 5,000 μg/L was used as it was believed that reducing PCE concentrations to below 5,000 μg/L would facilitate

subsequent treatment of this saturated zone using *in situ* enhanced reductive dechlorination ("ERD"). The ERH/SVE system was also implemented to improve groundwater quality beneath the Site by reducing soil and groundwater CVOC concentrations beneath the Property.

4.2.2.1 System Installation and Operation

The ERH/SVE system included 165 heating electrodes and 16 temperature monitoring points covering approximately 37,943 square feet of the Property (Figure 14). The Schedule 40 steel electrodes were installed in borings drilled to an elevation of 0 feet (approximately 40 feet below the Property grade level prior to redevelopment and approximately 30 feet into saturated soil). With the base of the electrodes at an elevation of 0 feet, the Shallow Zone and upper half of the Intermediate A Zone were treated by the system. The Schedule 80 temperature monitoring points were installed to monitor subsurface temperatures in the treatment area. Pipes conveyed soil vapor recovered by vacuum from the electrodes to a treatment system consisting of a power control unit, condenser, two SVE blowers, and granular-activated carbon units that treated condensate and vapor generated by the ERH/SVE system (SES, 2015a and 2016).

Between May 10 and June 4, 2013, nine shallow monitoring wells (F5, F9, F13, G12, J5, J15, K8, M15, and N7) were installed in the ERH/SVE treatment area prior to starting the system (Figure 11). The wells were drilled to an approximate elevation of 0 feet (40 to 50 feet below ground surface ("bgs"), depending on Property location) and were completed with 1-inch-diameter stainless steel screens (between approximate elevations of 0 to 30 feet) with 0.010-inch wide slots, stainless steel blank risers, 10-20 silica sand annular backfill around the screens, and 8 feet of neat cement grout above the silica sand. SES developed the wells by surging and pumping them a minimum of five well volumes and/or until the groundwater no longer appeared turbid.

4.2.2.2 System Performance

SES operated the ERH/SVE system from August to December 2013, removing an estimated 12,000 pounds of CVOCs from the treatment area (SES, 2015a and 2016). Based on the system monitoring data, SES determined that the removal rate had reached an asymptotic state by November 2013, and that approximately 98 percent of the original CVOC mass had been removed from the treatment area. SES determined that other treatment technologies would be more effective at that point and, after running the system for an additional 40 days, shut the ERH/SVE system down in December 2013.

After letting the soil cool down, SES drilled five direct-push borings (P02 to P06) in February 2014 near borings GMW-1 and B-9. Vadose zone soil samples (collected from an elevation between 40 and 30 feet or from 0 to 10 feet bgs) from the borings were analyzed for PCE-related CVOCs by EPA Method 8260C. All sample results were below the treatment goal of 14 mg/kg.

Groundwater samples were collected using low-flow sampling techniques from ERH/SVE system monitoring wells (F5, F9, F13, G12, J5, J15, K8, M15, and N7) in July, October, November, and December 2013, in March 2014, in June and October 2015, and in February 2016. Lack of water in some wells limited sampling during operation of the ERH/SVE system. Samples were analyzed for PCE, trichloroethene ("TCE"), cis-1,2-dichloroethene ("cDCE"), trans-1,2-dichloroethene ("tDCE"), and vinyl chloride ("VC") by EPA Method 8260C. Concentrations of PCE-related CVOCs decreased approximately 2 to 3 orders of magnitude due to operation of the ERH/SVE system.

4.2.3 Enhanced Reductive Dechlorination

Pilot testing was conducted in the Shallow and Intermediate Zones to evaluate the use of ERD as a cleanup technology to degrade the PCE-related CVOCs remaining at the Property post-operation of the ERH/SVE system (SES, 2016). The objectives of the pilot tests were to determine whether bioamendments would be effective in furthering ERD at the Property, to determine whether adequate injection and distribution of the amendments could be achieved, and to develop the basis for full-scale design. Locations on the south and east boundaries of the Property were selected to test the potential of the technology for use as a biobarrier due to the proximity of monitoring wells. Two phases of pilot testing were conducted: a preliminary pilot test consisting of injection in one temporary well (IW-01) installed in the Intermediate A Zone in November 2015, and a full pilot test consisting of injection in five temporary Intermediate A Zone wells (IW-02 through IW-06) and 24 Shallow (40-foot-deep) Zone ERH probes (C14, D13, D14, E14, F15, G15, H16, J16, K17, L17, M18, N17, N18, P7, P16, P17, R8, R16, S9 through S13, and S15) in January 2016 (Figure 14).

The intermediate injection points were installed using a sonic drill rig. Each injection point consisted of a temporary 2-inch-diameter well completed as follows: a stainless-steel wire wrap screen was set in the open borehole from 50 to 65 feet bgs, followed by a 3-foot blank casing section to 47 feet bgs, a 5-foot-long inflatable packer from approximately 42 to 47 feet bgs, and blank casing to just above the ground surface. Since the ground surface elevation at IW-05 and IW-06 was 10 feet higher than the other injection locations, those temporary injection wells were drilled and installed approximately 10 feet deeper than the depths described for IW-01 through IW-04. Before amendment injection, each packer was inflated to a pressure of 300 pounds per square inch ("psi"), sealing off the target injection zone from the upper zone.

A carbohydrate substrate (food-grade dextrose) was injected in the shallow pilot test points; it was selected for use in the shallow points due to shallow groundwater zone characteristics, faster metabolic reaction times, and the project timeline. Low pressure (less than 15 psi) injections were used in the shallow points to prevent short circuiting. A total of 43,590 gallons of dextrose solution was injected in the shallow points, at an average dextrose dose rate of 4.2 percent.

A biodegradable soybean oil, EDS-ER by Tersus Environmental, was injected in the temporary intermediate pilot test wells. A total of 65,744 gallons of the solution was injected, with average EDS-ER doses ranging from 2.9 to 4.1 percent, average wellhead pressures varying from 34.4 to 60.5 psi, and average flow rates ranging from 7 to 20 gpm.

Data collected during pilot testing indicated a radial distribution of the injected solutions, relatively little movement of the injected solutions out of the unit in which they were injected, an adequate radius of influence, significant increases in total organic carbon ("TOC") concentrations in nearby monitoring wells, and significant decreases in PCE and TCE concentrations over the relatively short timeframe of the pilot test. Based on the monitoring results in nearby wells during and shortly after the injection events, SES concluded that the injected substrates were effectively distributed and were impacting the injection zones to promote ERD, including increasing TOC, decreasing DO and ORP, and generally decreasing concentrations of PCE-related CVOCs (SES, 2016). Over a year after the pilot tests, significant decreases (typically two or more orders of magnitude) in CVOCs were observed in monitoring wells adjacent to the Property (MW107 and W-MW-02) without increases in vinyl chloride in wells downgradient of the Property (e.g., MW108, MW109, and MW110).

4.3 Property Interim Action

BMRD is conducting an IA at the Property consistent with the Ecology approved IAWP (PES, 2018). This section provides a brief overview of the IA and summarizes the status of the work completed to date. The IAWP (PES, 2018), RI Work Plan (PES, 2019f), and Interim Action Completion Report (NV5, 2025) provide a more complete description of the IA components and timelines. The IA was designed to reduce the mass of contamination that remains on the Property through a combination of: (1) removal (through excavation) and (2) *in situ* treatment of contaminants in the saturated soil and groundwater beneath the excavation. The excavation was completed as part of the building construction and removed unsaturated and saturated soil to an elevation of 10.7 feet (approximately 29 to 39 feet bgs, depending on the location on the Property). An additional 0.5 to 9.5 feet of soil was excavated from portions of the Property (down to elevations ranging from 1.6 feet to 10.6 feet) to facilitate construction of thickened portions of the foundation. Additional contaminant mass was removed from groundwater that was extracted during dewatering conducted to facilitate soil excavation.

In situ treatment beneath the development excavation is addressing contamination in the lower portion of the Intermediate A Zone, the Intermediate B Zone, and the upper portion of the Deep Zone. The *in situ* technologies used for the interim action include three applications of *in situ* chemical oxidation ("ISCO") with modified Fenton's Reagent ("MFR") as the oxidant and an application of emulsified vegetable oil ("EVO") to stimulate ERD.

Control of contaminant migration from the Property has been accomplished by providing additional treatment through a perimeter *in situ* treatment system utilizing a series of 94 injection wells installed at 47 locations along 8th Avenue North and Roy Street on the downgradient perimeter of the Property.

Additional IA components included: (1) installation of a single membrane system combining waterproofing and a contaminant vapor protection beneath and up the sides of the building and (2) installation of injection and monitoring well networks through the bottom of the parking garage basement to allow injection of EVO and monitoring conditions beneath the building, if needed.

4.3.1 Treatment Zone Delineation and Injection Well Installation

PES oversaw the drilling of soil borings and wells to define the extent of the area to be treated by the IA, install injection wells, and install performance monitoring wells. This drilling was summarized in more detail in the IAWP (PES, 2018), the RI/FS Work Plan (2019f), and Interim Action Completion Report (NV5, 2025). For the sake of completeness, this section provides a summary of this drilling. Figures 11 and 12 show the locations of the borings and wells, and Tables 4 and 5 summarize the soil and reconnaissance groundwater samples collected from the well borings during drilling.

4.3.1.1 Temporary Boring Drilling

PES oversaw drilling of 35 borings (B-205 through B-238) to depths ranging from approximately 37 to 125 bgs (elevation 3 to -80 feet NAVD 88) from August through December 2017. The borings were drilled to fill data gaps at the Property and provide the data needed to design and implement the Property IA. Borings B-205 through B-211 and B-216 through B-238 were drilled on the Property, and borings B-212 through B-215 were drilled in the street ROWs to the west and south of the Property. Borings B-224 through B-238 were drilled to confirm the extent of elevated PCE concentrations at two Property locations (near MW-135 and B-217).

Ten temporary borings (B-239 through B-248) were drilled in March through May 2018, and 21 temporary borings (B-249 through B-267, including two replacement borings, B-254A and B-255A) were drilled in October 2018. These 31 borings were drilled to provide additional data near former sewer lines, sumps, and drains; in areas needing additional vertical characterization; and in areas with relatively less sampling coverage.

4.3.1.2 Monitoring Well Installation

Wells Installed Before Property Redevelopment. In August and September 2017, PES coordinated installation of ten monitoring wells (MW-132 through MW-141) to depths ranging from 80 to 120 bgs (elevation -39 to -80 feet NAVD 88). The monitoring wells were installed to fill data gaps at the Property and provide the data needed to design and implement the Property IA. Wells MW-132 through MW-137, MW-139, and MW-141 were drilled on the Property, and wells MW-138 and MW-140 were drilled in the street ROWs to the west and south of the Property. All of wells on the Property were decommissioned by March 15, 2019.

Twenty IA performance monitoring wells were installed between March and May 2018, with four wells (MW-149 through MW-152) located on the Property, eight wells (MW-142 through MW-145 and MW-156 through MW-159) located in the sidewalk on the east side of 8th Avenue North, two wells (MW-160 and MW-161) located in the sidewalk on the west side of 8th Avenue North, and six wells (MW-146 through MW-148 and MW-153 through MW-155) located in the sidewalk on the south side of Roy Street. In the MW-158 monitoring well boring, an impenetrable obstruction was encountered at a depth of 34 feet, so an adjacent boring was drilled, and monitoring well MW-158A was installed in that boring. All of wells on the Property were decommissioned by March 15, 2019.

Three additional monitoring wells (MW-162, MW-163, and MW-164) were installed in January 2019 in the upper portion of the Deep Zone near locations with elevated Treatment Zone D soil and/or groundwater CVOC concentrations. The wells were installed to provide additional soil and groundwater data in the depth range immediately below the lowest treatment zone (Treatment Zone D, elevation -40 to -55 feet). The wells were drilled to depths of approximately 110 feet bgs (approximate elevation of -70 feet). These three wells were decommissioned by March 15, 2019.

Wells Installed During Property Redevelopment. Two additional monitoring wells (MW-189 and MW-190) were installed in September 2019 to monitor the performance of the Property IA and to confirm the extent of CVOCs in the intermediate zone in the sidewalk on the north side of the Property.

PES oversaw the installation of 24 contingent action monitoring wells (MW-165 through MW-188) in September and October 2019. These wells were installed just before the building slab was constructed, and the surface monument of each well was integrated into the slab. The contingent action monitoring wells are distributed throughout the Property in six well clusters. Each well cluster contains a monitoring well in four different treatment zones: Treatment Zone A (elevation +10 to -10 feet NAVD 88), Treatment Zone B (elevation -10 to -25 feet NAVD 88), Treatment Zone C (elevation -25 to -40 feet NAVD 88), and Treatment Zone D (elevation -40 to -55 feet NAVD 88). The wells were installed to monitor the effects of the IA in and downgradient of the areas treated by the IA.

4.3.1.3 Injection Well Installation

Pre-Development IA Injection Wells. PES oversaw the installation of 133 IA injection wells on the Property between February and April 2018. An additional 24 IA injection wells were installed on the Property between August and October 2018. The injection wells were screened in four treatment zones: Treatment Zone A (elevation +10 to -10 feet NAVD 88), Treatment Zone B (elevation -10 to -25 feet NAVD 88), Treatment Zone C (elevation -25 to -40 feet NAVD 88), and Treatment Zone D (elevation -40 to -55 feet NAVD 88). These injection wells were installed in portions of the Property where PCE concentrations in soil exceeded 0.5 mg/kg. They were used for IA injections (ISCO and EVO) prior to Property development (see Sections 4.3.4 and 4.3.5). All wells were decommissioned by March 15, 2019.

Perimeter Injection Wells. Ninety-four injection wells were installed in 47 dual-completions between January and March 2019, and in August and December 2020. Perimeter well pairs A1C1 through A12C12 (intersecting Treatment Zones A and C, as described above) and well pairs B1D1 through B12D12 (intersecting Treatment Zones B and D, as described above) were drilled and installed along the west side of 8th Avenue North. Perimeter injection well pairs A13C13 through A23C23 and well pairs B13D13 through B24D24 were installed along the north side of Roy Street. Most of the perimeter wells were installed between January 2019 and March 2019, with pairs A14C14, A15C15, B22D22, A23C23, B23D23, and B24D24 installed in August 2020. Activities during Property redevelopment damaged perimeter injection wells D14, D18, and D19, which were decommissioned and replaced in December 2020 with single completion wells D14R, D18R, and D19R, respectively. These wells were used for IA injections during Property redevelopment (see Section 4.3.5) and will be maintained for use in the future, if needed.

Contingent Action Injection Wells. PES oversaw the installation of 63 contingent action injection wells on the Property between August and October 2019. These wells were installed during Property redevelopment, consistent with the Final Contingent Action Addendum to the Final Interim Action Work Plan (PES, 2019a). The surface monuments of the wells were incorporated in the building foundation. Twenty-one wells were installed in Treatment Zone A (wells CA-A1 through CA-A21), 21 wells were installed in Treatment Zone B (wells CA-B1 through CA-B21), 13 wells were installed in Treatment Zone C (wells CA-C1 through CA-13), and 8 wells were installed in Treatment Zone D (CA-D1 through CA-D8). The 63 injection wells were located in north-south oriented transects (approximately perpendicular to groundwater flow) in the western, central, and eastern portions of the Property. These transects provide the capacity to treat areas upgradient of, within, and downgradient of the source areas identified in the IAWP if monitoring in the future indicates that additional treatment is warranted.

PES collected soil samples from a limited number of the injection well borings for laboratory analysis of volatile organic compounds ("VOCs") (see Table 4).

4.3.2 Investigative and Performance Groundwater Monitoring

PES conducted groundwater monitoring to facilitate design of the IA, establish baseline conditions before the initial IA injections at the Property, monitor conditions between Property injection events, and monitor conditions after the Property injection events. Starting with the implementation of the RI in the fourth quarter of 2019, IA performance monitoring was conducted as part of each RI monitoring event, so a discussion of the scopes of work for those events is provided in Section 4.4.5. Tables 4 and 5 summarize the monitoring wells sampled and parameters analyzed, and Figures 11 and 12 show the monitoring well locations.

4.3.2.1 Groundwater Monitoring Before IA Injections

Groundwater samples to support IA design were collected in March, April, and June 2017 from 53 monitoring wells installed by others prior to 2017 (see Section 4.1). The laboratory analyzed all groundwater samples for VOCs, most of the groundwater samples for geochemical parameters, and select groundwater samples that were collected near the northern part of the Property for gasoline-range organics ("GRO").

PES conducted baseline groundwater sampling between March and May 2018 in 77 monitoring wells and 40 injections wells. The baseline sampling event included all performance monitoring wells and all accessible Site-wide monitoring wells. Injection wells in and near apparent contamination hot spots and in areas needing additional sampling coverage were sampled to provide a vertical profile of CVOCs in groundwater. The laboratory analyzed all groundwater samples for VOCs and most of the groundwater samples for geochemical parameters and GRO. Groundwater samples collected from the injection wells were only analyzed for VOCs.

Prior to IA injections, PES conducted four complete rounds of groundwater level monitoring that included wells from the Shallow, Intermediate A, Intermediate B, and Deep Zones at the Site. The events were conducted on March 20, March 24, June 12, and October 11, 2017.

PES also instrumented nine monitoring wells with pressure transducers to monitor the effects of groundwater extraction at Blocks 25, 31, and 37.

4.3.2.2 Groundwater Monitoring Between IA Injections

Groundwater samples were collected between ISCO injection events in October 2018 (17 monitoring wells sampled between October 25 and 29) and December 2018 (18 monitoring wells sampled between December 12 and 17) to monitor the effects of the injections. PES collected groundwater samples from 57 monitoring wells after the third ISCO injection event (primarily between January 21 and February 1, 2019) to document the Site conditions prior to the injection of EVO. Additionally, groundwater samples were also collected from MW-162, MW-163, and MW-164 to provide groundwater data below the deepest treatment zone (Treatment Zone D) adjacent and downgradient of areas with elevated Treatment Zone D CVOCs. All samples were analyzed for VOCs, with select samples analyzed for GRO and/or geochemical parameters used to evaluate biodegradation.

4.3.2.3 Groundwater Monitoring After IA Injections

PES conducted groundwater monitoring after the last Property IA injection event. Events occurred in the first, second, and third quarters of 2019. As noted above, events subsequent to the third quarter of 2019 are discussed in the RI scope of work (Section 4.4).

The first quarter 2019 monitoring event included collecting groundwater samples from 20 monitoring wells between March 11 and March 13, 2019, and one round of groundwater level measurement in all available monitoring wells at the Site on March 14, 2019 (PES, 2019c). All samples were analyzed for VOCs, with select samples analyzed for GRO and/or geochemical parameters used to evaluate biodegradation. Monitoring wells on the Property were decommissioned after they were sampled.

The second quarter 2019 monitoring event included PES collecting groundwater samples from 43 monitoring wells outside of the Property between April 22 and May 3, 2019, and measuring one round of groundwater levels in all available monitoring wells at the Site on April 22, 2019 (PES, 2019d). All samples were analyzed for VOCs, with select samples analyzed for GRO and/or geochemical parameters used to evaluate biodegradation.

During the third quarter 2019 monitoring event, PES collected groundwater samples from 45 monitoring wells outside of the Property between July 15 and August 1, 2019, and measured groundwater levels in all available monitoring wells at the Site on July 16, 2019 (PES, 2019e). All samples were analyzed for VOCs, with select samples analyzed for GRO and/or geochemical parameters used to evaluate biodegradation.

4.3.3 Performance Soil Vapor Monitoring

PES monitored soil vapor probes SV01, SV02, and SV03 in September 2018 and February, April, and July 2019 to establish a baseline (September 2018 samples) and to monitor the effects of the IA Property injections on soil vapor outside of the Property (2019 samples).

Soil vapor samples were analyzed for VOCs. As noted above, events subsequent to the third quarter of 2019 are discussed in the RI scope of work (Section 4.4).

4.3.4 In-Situ Chemical Oxidation

The injection wells installed on the Property (Section 4.3.1.3 and Figure 10) were used to inject ISCO reagents prior to Property redevelopment. ISCO amendments were selected for the initial injections to aggressively reduce contaminant mass beneath the Property prior to redevelopment. In-Situ Oxidative Technologies, Inc. ("ISOTEC"), a PES subcontractor, conducted three injection events between September 2018 and January 2019 to inject ISCO reagents. The ISCO reagents consisted of a neutral pH chelated ferrous iron solution (catalyst) and dilute stabilization peroxide (oxidizer) known as modified Fenton's reagent ("MFR"). ISOTEC injected 75,282 gallons of MFR into 155 injection wells between September 13 and October 3, 2018, with approximately 75 percent of the MFR injected into the Treatment Zone A and B wells. Similarly, ISOTEC injected 78,215 gallons of MFR into 157 injection wells between November 5 and December 1, 2018, and 75,755 gallons of MFR into 157 injection wells between December 18, 2018, and January 20, 2019. The IAWP (PES, 2018) and Interim Action Completion Report (NV5, 2025) provide details of the ISCO injection procedures.

4.3.5 Enhanced Reductive Dechlorination

After the three rounds of MFR injection in the injection wells on the Property, EVO was injected into the wells prior to well decommissioning and Property redevelopment. EVO was also injected into the perimeter injection wells. EVO amendments were selected for the final injections in the Property injection wells and the initial injections in the perimeter injection wells to provide long-term treatment of residual contaminant mass.

4.3.5.1 Property

ISOTEC injected 124,905 gallons of EVO, 10,440 gallons of anoxic water, and 225 liters of dechlorinating bacteria ("Dehalococcoides" or "DHC") into 153 injection wells between February 12 and March 3, 2019. To more aggressively initiate ERD, sodium lactate was added to the first 250 gallons of EVO solution injected into each well. The IAWP (PES, 2018) and Interim Action Completion Report (NV5, 2025) provide details of the EVO injection procedures at the Property.

4.3.5.2 Perimeter

ISOTEC injected EVO into the 94 perimeter injection wells in two injection events, one in 2020 and one in 2021. The injections in some of the wells that were not completed in the 2020 event were finished in the 2021 event. The IAWP (PES, 2018) and Interim Action Completion Report (NV5, 2025) provide details of the EVO injection procedures in the perimeter injection wells.

2020 Injection Event. ISOTEC injected 59,250 gallons of EVO, 4,890 gallons of anoxic water, and 7.9 liters of DHC into 64 perimeter injection wells between September 21 and September 30, and between October 6 and October 18. During the event, ISOTEC injected 11,350 gallons into Treatment Zone A wells, 11,195 gallons into Treatment Zone B wells, 17,080 gallons into Treatment Zone C wells, and 19,625 gallons into Treatment Zone D wells. ISOTEC paused injection activities between September 30 and October 6 to allow PES to assess EVO seepage into the partially-completed building basement and to allow ISOTEC to modify the injection procedures.

2021 Injection Event. ISOTEC injected 49,362 gallons of EVO, 4,217 gallons of anoxic water, and 7.75 liters of DHC into 52 perimeter injection wells between February 16 and March 2. During the event, 22,150 gallons were injected in Treatment Zone A, 14,155 gallons were injected into Treatment Zone B, 7,180 gallons were injected into Treatment Zone C, and 5,877 gallons were injected into Treatment Zone D.

4.3.6 Interim Action Activities During Property Redevelopment

Property redevelopment activities affecting the subsurface included shoring, concrete demolition, soil and utility excavations, and dewatering. Following are brief summaries of the components included as part of the IA due to the removal of subsurface CVOCs. Section 4.3.7 summarizes volumes of waste generated and waste disposal.

4.3.6.1 Soil Excavation

JR Hayes Corporation excavated soil at the Property for construction of the building foundation and parking garage after installation of shoring, demolition of the former building basement and driveway, and installation of the contingent action injection and monitoring wells. The mass excavation for the foundation and parking garage extended to elevations ranging from 10.7 to 0.7 feet across the entire Property, with approximately 137,781 tons of soil excavated and transported for off-Site disposal. Soil was managed consistent with the contaminated media management plan ("CMMP;" PES, 2019b), with most of the soil managed and disposed as non-hazardous "contained-in" soil[4] (see Section 4.3.7). Soil that exceeded the contained-in disposal criterion in three soil management areas (see PES, 2019b and NV5, 2025) was treated *in situ* with potassium permanganate until the contained-in criterion was met. The soil was then excavated and disposed with the other contained-in soil. The treated soil was tested and the results submitted to Ecology for review and approval prior to disposal.

During excavation at the base of the parking garage approximately 4 feet northeast of CA-A1 (Figure 11), dense non-aqueous phase liquid ("DNAPL") was observed leaching out of a 6-inch-thick sand seam located on top of a sandy silt layer. The DNAPL (less than a cup) was removed with absorbent pads and excavated for off-site disposal. The soil around the DNAPL location was overexcavated and sampled to document DNAPL removal. As discussed in the

[4] Soil containing CVOCs is considered to contain federally listed (F002) dangerous waste unless Ecology issues a "contained-in policy" determination indicating that the contaminated soil can be managed as a non-hazardous solid waste because it no longer contains the dangerous waste. Ecology issues its determination based on the contaminant concentrations and how the contaminated soil will be disposed of once the determination has been provided.

Interim Action Completion Report (NV5, 2025), a laboratory sample of the product confirmed that it was PCE. DNAPL was not observed elsewhere on the Property during excavation activities. The laboratory data and additional details are provided in the Interim Action Completion Report.

4.3.6.2 Utility Excavations

Property redevelopment involved upgrading the utilities servicing the Property. The utility upgrades included decommissioning existing utilities, installing new underground utilities, and replacing and installing new roadway surfaces. Utility work started at the Property in July 2018 and will continue until the redevelopment work finishes at the Property. PES collected soil samples (Table 4) before the utility trenching occurred to assist profiling and disposal of the soil removed during the utility work. PES collected multiple soil samples from trenches (T-1 through T-14, T-20, and T-21), test pits (TP-SD-01 through TP-SD-07), potholes (PH#22, PH#34, and PH#38), and soil borings (B-268 through B-302), submitting all samples for laboratory analysis of VOCs. Figure 11 shows the soil sample locations.

4.3.6.3 Dewatering

The dewatering system consisted primarily of well points installed through the shoring wall. Due to the inflow of water as the excavation deepened, three dewatering wells were also used. DBM Contractors, Inc. ("DBM") installed the well point dewatering system, which consisted of approximately 130 angled well points installed through the shoring wall at the approximate elevation of 20 feet. DBM also installed the three dewatering wells (DW-1 through DW-3) in the northeast portion of the Property to a depth of approximately 25 feet below grade during the final stage of excavation.

A water treatment system was installed on 8th Avenue Northeast adjacent to the southeastern corner of the property in April 2019. The system consisted of two 5,000 gallon holding tanks, an air stripper to remove VOCs from the water, and liquid-phase granular-activated carbon ("GAC") tanks for final polishing of the water before discharge to the sewer. The vapor generated during air stripping was processed through vapor-phase GAC vessels and potassium permanganate zeolite vessels prior to discharge to atmosphere. All groundwater extracted by the dewatering system was pumped through the treatment system prior to discharge to the sanitary sewer (initially) and storm drain (after Ecology approval). All vapor from the air stripper was treated by the vapor-phase GAC vessels. Construction dewatering during Property redevelopment occurred between August 6, 2019, and July 20, 2020. Flow rates were measured when water was discharged to the sanitary sewer (consistent with the King County sewer discharge permit[5]), averaging approximately 6 to 9 gpm. Flow rates were not documented when the treatment system was discharging to the storm drain.

[5] Wastewater Discharge Authorization No. 4482-01 issued by King County Industrial Waste Program.

4.3.7 Waste Management

Construction, mass excavation, and IA monitoring activities at and near the Property generated waste consisting of soil, water, sludge, and construction debris. The waste was both non-hazardous and hazardous. The Interim Action Completion Report (NV5, 2025) provides details and documentation of IA waste management, including contained-in approval documentation, bills of lading, contained-in soil disposal truck tickets, manifests, and certificates of disposal.

4.3.7.1 Non-Hazardous Contained-In Soil and Sludge

The non-hazardous waste consisted primarily of *in situ*-treated soil derived during mass excavation activities in 2019 and soil generated during off-Property utility trenching. Prior to construction activities, PES obtained a contained-in determination from Ecology for landfill disposal of hazardous soil as "non-hazardous" if it met the contained-in criteria. The contained-in soil was generated during mass excavation activities, including that derived from *in situ* treatment of soil in the CVOC-contaminated soil management areas (NV5, 2025). Between April and November 2019, approximately 137,781 tons of contained-in soil were transported for disposal at either the Roosevelt Regional Landfill, in Roosevelt, Washington, or the Greater Wenatchee Regional Landfill, in Wenatchee, Washington.

Additional non-hazardous waste included approximately 568 gallons of sludge that were transported for disposal at the Columbia Ridge Landfill in Arlington, Oregon, in October 2019.

4.3.7.2 Hazardous Waste

Dangerous waste generated during the IA included PCE-contaminated soil excavated during the mass excavation that did not meet the contained-in criteria; soil cuttings generated during IA drilling and sampling; PCE-contaminated water derived waste from drilling, sampling, and water treatment system decommissioning activities; PCE-contaminated water generated when the water treatment system was not active; debris such as construction waste (concrete) generated during mass excavation; spent carbon from the water treatment system; and sludge from soldier pile drilling.

Pre-excavation soldier pile drilling and mass excavation between April and December 2019 generated approximately 1,413 tons of PCE-contaminated soil, 16 tons of construction debris, and 2,989 gallons of PCE-contaminated water and sludge. IA drilling activities (perimeter injection and contingent action well installations) generated approximately 226 tons of PCE-contaminated soil in 2019 and 2020. Approximately 13,597 gallons of water and sludge from the water treatment system were generated in 2020.

Dangerous waste soil and water were transported for disposal at the Chemical Waste Management of the Northwest facility in Arlington, Oregon. PES submitted annual dangerous waste reports to Ecology for the years that waste was generated. The reports included records of managed waste profiles, quantities generated and disposed, transporters and disposal facilities, and hazardous waste manifests.

4.4 Remedial Investigation Scope of Work, 2019 – 2021

This section provides a summary of the RI scope of work implemented between September 2019 and June 2021. The RI field work included monitoring well installation, soil sampling and analysis, hydraulic conductivity testing, groundwater level measurement, groundwater sampling and analysis, and soil vapor sampling and analysis. Field and laboratory procedures were consistent with the RI/FS Work Plan (PES, 2019f), RI/FS Work Plan Addendum (PES, 2020b), and RI/FS Work Plan Addendum No. 2 (PES, 2021).

4.4.1 Monitoring Well Installation and Development

4.4.1.1 Well Locations

Forty-two monitoring wells were installed outside of the Property by Holt Services ("Holt") between September 6 and October 4, 2019, and April 13 and May 5, 2020 (Figure 12). Nine Shallow Zone, eleven Intermediate A Zone, thirteen Intermediate B Zone, and eleven Deep Zone wells were installed as follows:

- Shallow Zone: MW-301, MW-305, MW-310, MW-312, MW-313, MW-320, MW-332, MW-337, and MW-339;
- Intermediate A Zone: MW-189, MW-302, MW-306, MW-308, MW-315, MW-317, MW-325, MW-327, MW-330, MW-331, and MW-333;
- Intermediate B Zone: MW-190, MW-303, MW-307, MW-309, MW-311, MW-314, MW-316, MW-318, MW-322, MW-334, MW-335, MW-338, and MW-340; and
- Deep Zone: MW-304, MW-319, MW-323, MW-324, MW-326, MW-328, MW-329, MW-336, MW-341, MW-342, and MW-343.

As discussed in the RI/FS Work Plan Addendum, wells MW-330 and MW-321 were not installed as originally designed. Various obstructions and underground utilities prevented the installation of Deep Zone monitoring well MW-330 at the northeast corner of the intersection of Westlake Ave North and Mercer St. PES subsequently obtained an access agreement to collect groundwater samples from Farallon Consulting, LLC ("Farallon") deep zone monitoring well FMW-137, located in the northern portion of the alley between Westlake Ave North and Terry Ave North in place of proposed well MW-330 (Figure 12). The well title "MW-330" was subsequently re-used for an Intermediate A Zone well installed as discussed in the RI Work Plan Addendum (PES, 2020). PES also did not install Intermediate A Zone monitoring well MW-321 in the western sidewalk of 9th Avenue North due to the installation of a similar well (Farallon well FMW-142) in the eastern right-of-way of 9th Avenue North. PES measured depths to water and collected groundwater samples from FMW-142 in place of the proposed well at the MW-321 location.

Construction activities associated with the installation of the shoring walls and tieback at the Property damaged wells MW-144 and MW-145. Holt installed replacement wells MW-144R and MW-145R in the eastern right-of-way of 8th Avenue North on November 26, 2019, and decommissioned MW-144 and MW-145 in place on December 6, 2019.

Cascade Drilling ("Cascade") installed seven additional RI wells between May 13 and 21, 2021, on the Seattle DOT Mercer Parcels property to investigate the extent of CVOCs found in Hart Crowser monitoring well HMW-9IB, detailed in the RI/FS Work Plan Addendum No. 2 (PES, 2021). One Intermediate A Zone well (MW-344) and six Intermediate B Zone wells (MW-345 through MW-350) were installed. As a result of the surveyed location of the Mercer Tunnel, the positions of MW-344, MW-345, and MW-350 were adjusted north of their intended locations to move them farther away from the tunnel.

Table 3 summarizes the RI well completions, Appendix C provides the RI borings logs, and Appendix D provides the surveyed well locations.

4.4.1.2 Soil Sampling and Well Installation

Holt and Cascade installed the monitoring wells using track-mounted sonic drilling rigs, with soil samples collected continuously during drilling. The soil samples were used for lithologic identification, field screening for evidence of contamination, and soil sample collection for laboratory analysis. Field screening was conducted using a Photoionization Detector ("PID"). PES collected soil samples for laboratory analysis in the deepest boring at each location, with samples collected approximately every 5 feet starting at a depth of 5 feet bgs. In Intermediate B Zone wells installed at the Seattle DOT Mercer Parcels property (MW-345 to MW-350), soil samples were collected every 5 feet starting at elevation 5 feet (approximately 47 feet bgs) (Table 4). PES collected a limited number of additional samples at shallower elevations for waste characterization purposes. The 2-inch-diameter polyvinyl chloride ("PVC") monitoring wells were constructed with 10-foot-long well screens.

4.4.1.3 Well Development

Holt and Cascade developed the monitoring wells no sooner than 48 hours after installation. Development consisted of repeated surging of the entire screen length with a bailer or surge block and pumping from the well until: (1) the color of the discharge water did not change with additional development, (2) any volume added during drilling was removed, and (3) the turbidity of the purge water was under 100 nephelometric turbidity units ("NTUs"), if possible.

4.4.1.4 Laboratory Analysis of Soil Samples

PES collected soil samples consistent with EPA Method 5035 and submitted them to Pace Analytical of Mount Juliet, Tennessee, for VOC analysis using EPA Method 8260 and, in select wells, for GRO analysis using Ecology Method NWTPH-Gx (Table 4). Additionally, select soil samples collected from varying lithologies and depths were analyzed for grain size, vertical hydraulic conductivity, dry bulk density, and fraction organic carbon ("f_{oc}").

4.4.2 Soil Vapor Probe Installation

Cascade drilled and installed 25 soil vapor probes outside of the Property between June 29 and July 10, 2020 (Figures 11 and 12). Probe completion details are included in Table 3. In accordance with the RI Work Plan (PES, 2019f) and RI Work Plan Addendum (PES, 2020b), vapor probes were installed in pairs, one shallower and one deeper, at fourteen locations throughout the site as follows:

Location	Vapor Probe Pair	
	Shallow	Deep
West Side of Dexter Avenue North	SV-25	SV-26
West Side of Dexter Avenue North	SV-28	SV-27
North Side of Valley Street	SV-10	SV-11
North Side of Valley Street	SV-12	SV-13
South Side of Roy Street	SV-04	SV-05
South Side of Roy Street	SV-06	SV-07
East Side of 8th Avenue North	SV-09	SV-08
East Side of 8th Avenue North	SV-16	SV03*
East Side of 8th Avenue North	SV-17	SV02*
East Side of 8th Avenue North	SV-18	SV01*
South of 800 Roy Street	SV-14	SV-15
Alleyway East of 800 Roy Street	SV-21	SV-22
Alleyway East of 800 Roy Street	SV-23	SV-24
East of 701 9th Avenue North	SV-19	SV-20

*Soil vapor probes SV01, SV02, and SV03 were previously installed in March 2013.

Shallow probe SV-03R, a planned replacement for the damaged SV03 vapor probe, was not installed on the east side of 8th Avenue North due to saturation of the subsurface at the intended depth, interpretated to be a localized zone of perched water.

Cascade installed all vapor probes using a direct-push drill rig, with soil samples collected continuously during drilling for lithologic identification, field screening for evidence of contamination, and sample collection for laboratory analysis. PES collected soil samples for laboratory analysis from the screen zone depth within each vapor probe boring (Table 4). If poor recovery prevented sample collection in a boring, PES collected the sample from the corresponding depth in the paired vapor probe boring. All soil samples were collected consistent with EPA Method 5035 and submitted to the laboratory for VOC analysis using EPA Method 8260.

Vapor probes were completed between 6 and 15 feet bgs with Teflon tubing, a 6-inch stainless-steel screen at the bottom surrounded by a sand filter pack, and a bentonite annular seal. At the surface, the probes were completed with a valve within an 8-inch flush-mount monument set at the surrounding surface grade.

4.4.3 Aquifer Testing

4.4.3.1 Soil Physical Properties

During drilling, PES collected 36 soil samples from varying lithologies[6] and submitted them for laboratory grain size analysis. The Kozeny-Carmen Equation (Payne et al, 2008) was then used to estimate hydraulic conductivity of the sampled materials. Table 7 provides the results, which are discussed in Section 5.2.1.3. Additionally, eight undisturbed soil samples were collected from fine-grained layers[7] and submitted for laboratory analysis of vertical hydraulic conductivity (Table 4).

4.4.3.2 Slug Tests

PES conducted both rising head and falling head slug tests in eleven monitoring wells[8] between December 17 and 24, 2019, and May 19 and 21, 2020, to obtain estimates of horizontal hydraulic conductivity. Wells were selected to complement previous slug tests, provide analyses along representative flow paths, and represent a range of lithologies. Table E-1 in Appendix E shows the tested wells.

Between three to five tests were conducted in each well using tapered slugs of known volumes. Change in water level was monitored and recorded using a vented cabled pressure transducer connected to a laptop to provide real-time measurements and allow for recovery assessment. To verify pressure transducer readings, PES also used an electronic water level meter to measure water levels before and after each test.

Pre-analysis, raw water level data collected during each test was processed consistent with guidelines from Butler (1998) to assess data quality and applicability of traditional slug test analysis. PES then analyzed the processed data using the commercial software AQTESOLV™ Version 4.5 (HydroSOLVE, Inc., 2007) according to the Bouwer and Rice (1976; Bouwer 1989), Hvorslev (1951), and KGS model (Hyder et al., 1994) methods. PES used multiple slug test analytical methods to assess sensitivity of the results to underlying method assumptions and boundary conditions.

4.4.3.3 Other Analyses

PES utilized a colloidal borescope in an attempt to measure groundwater flow velocity and direction in eight monitoring wells around the Site (MW109, MW111, MW-144R, MW-310, MW-311, MW-322, MW-323, and MW-328) between December 18 and 23, 2019. Difficulty was encountered in the field achieving stable flow past the sensor. After consultation with Geotech Environmental, it was determined that dynamic aquifer conditions likely caused by intermittent dewatering systems at nearby construction sites made collection of reliable data unlikely.

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[6] The samples were collected from 23 well borings including: MW-190, MW-302, MW-304, MW-307, MW-309, MW-311, MW-314, MW-316, MW-319, MW-322, MW-324, MW-326, MW-328, MW-329, MW-331, MW-334, MW-335, MW-336, MW-337, MW-338, MW-340, MW-341, and MW-343.

[7] The soil samples for vertical hydraulic conductivity analysis were collected from MW-303, MW-308, MW-323, MW-337, and MW-340.

[8] Slug testing was performed at monitoring wells MW119, MW-311, MW-319, MW-323, MW-328, MW-333, MW-335, MW-336, MW-337, MW-338, and MW-343.

In addition, PES conducted pump test analyses using water level drawdown data collected during the start-up and operation of the dewatering system at the Block 37 Property located at 630 Westlake Avenue North, southeast of the 700 Dexter Property. As part of constructing buildings on Blocks 25 and 31 (east of Block 37 at 630 and 625 Boren Avenue North, respectively), four pumping wells (IA-1 through IA-4) were installed on the Block 37 Property (Farallon, 2016). The wells were screened from elevation -3 to -63 feet, spanning the lower portion of the Intermediate A Zone to the upper portion of the Deep Zone. Pumping occurred from April 17 to December 18, 2017, at variable rates. During this period, PES had two Intermediate A Zone wells (MW116 and MW119) and three Deep Zone monitoring wells (MW105, MW113, and MW122) in the zone of pumping influence instrumented with pressure transducers (Table F-3). Using the commercial software AQTESOLV™ Version 4.5 (HydroSOLVE, Inc., 2007), PES conducted drawdown analyses on transducer data from the first day following system start up. Data were analyzed according to the Cooper-Jacob Straight-Line method (Cooper and Jacob, 1946), the Theis type curve method (Theis, 1935), and the Hantush-Jacob method (Hantush-Jacob, 1955) to obtain additional estimates of horizontal hydraulic conductivity. As with the slug tests, PES used multiple analytical methods to evaluate the effects of method assumptions of aquifer properties and boundary conditions. Appendix E provides the analytical details.

4.4.4 Groundwater and Surface Water Level Monitoring

PES measured groundwater levels in all available monitoring wells at the Site during quarterly monitoring events on October 21, 2019; on January 13, May 11, July 13, and November 16, 2020; and on February 1 and June 7, 2021 (Tables F-1 and F-2 in Appendix F). On the afternoon of July 20, 2020, the dewatering system associated with construction at the Property was shut down. To monitor groundwater level recovery post-dewatering, PES measured water levels on July 21, August 4, August 17, September 3, and September 21, 2020, in the following wells:

- 8th Avenue N: MW104, MW107, R-MW6, W-MW-01, W-MW-02, MW120, MW121, MW-142, MW-143, MW144R, MW-145R, MW-156, MW-157, MW-158A, MW-159, MW-160, MW-161;
- Valley Street: MW102, MW124, MW125, MW-189, MW-190, MW-330;
- Roy Street: MW-146, MW-147, MW-153, MW-154, MW-155, MW-305, MW-306, MW-307;
- The Alley: FMW-141, MW103, MW109, MW110, MW111, MW-312;
- Mercer Street: MW-316, MW-325, MW-326; and
- East of 9th Avenue N: MW-324, MW-327, MW-328, MW-329.

Additionally, transducers installed in select monitoring wells representing the four water-bearing zones across the Site continuously monitored water levels throughout the RI period. Between July 3, 2019, and July 16, 2020, twenty wells were instrumented, and on July 17, 2020, transducers were installed in four additional wells, bringing the monitoring

network total to twenty-four wells. Throughout the monitoring period, transducers were occasionally re-located to better distribute the monitoring network, improve access during construction, or remove them from wells that went dry during construction-related dewatering. Table F-3 in Appendix F provides a list of instrumented monitoring wells between March 2017 and June 2021. Transducers located in MW-329 and MW-319 stopped logging data in February 2021 due to water damage. In June 2021 PES removed them for repair evaluation.

4.4.5 Groundwater Sampling and Analysis

PES collected groundwater samples from the monitoring well network according to the well sampling schedule indicated on Table 5. Samples were collected from 49 to 122 monitoring wells during 7 quarterly events between the Fourth Quarter 2019 and the Second Quarter 2021 (October 2, 2019, through June 8, 2021). The sampled wells included 8 to 24 Shallow Zone wells, 24 to 64 Intermediate A and B Zone wells, and 17 to 37 Deep Zone wells. During these sampling events, PES also collected groundwater samples from 24 monitoring wells on the Property that were installed to monitor the IA (PES, 2019a). Wells were sampled per the RI Work Plan with the exception of the following:

- Fourth Quarter 2019: Shallow Zone wells MW121, MW-159, R-MW6, and MW-301 were dry and were not sampled;
- First Quarter 2020: Shallow Zone wells MW121, MW-301, and R-MW6 were dry and were not sampled;
- Second Quarter 2020: Shallow Zone wells MW-9, MW121, MW125, MW-159, MW-301, MW-313, R-MW5, R-MW6, and SCS-2 were either dry or had insufficient water and were not sampled;
- Third Quarter 2020: Shallow Zone wells MW-9, MW121, MW125, MW-159, MW-301, MW-313, R-MW5, R-MW6, SCL-MW101, and SCS-2 were either dry or had insufficient water and were not sampled;
- Fourth Quarter 2020: Shallow Zone well MW-313 was dry, Intermediate B Zone well W-MW-02 was filled with EVO, and Deep Zone well MW-304 was paved over. These three locations were not sampled;
- First Quarter 2021: Shallow Zone well MW-155 and Intermediate B Zone well MW-148 were covered by homeless encampments, and Intermediate B Zone Wells MW-157 and W-MW-02 were filled with EVO. These 4 locations were not sampled;
- Second Quarter 2021: Shallow Zone well MW-155 and Intermediate B Zone well MW-148 were covered with homeless encampments, Intermediate B Zone wells MW-157 and W-MW-02 were filled with EVO, and Deep Zone well MW104 was covered by a Turner construction ramp. These 5 locations were not sampled; and
- The monitoring well thought to be SMW-3 was actually MW-210 (associated with the Block 37 cleanup site). The well was sampled as planned for SMW-3, but the designations of the well in text, tables, and figures has been corrected to match the actual well designation.

PES purged and sampled wells using a peristaltic pump in wells where the stabilized water level was less than approximately 20 feet below the top of the well casing. A down-well bladder pump was used in wells where the stabilized water level was greater than 20 feet below the top of the well casing. PES monitored groundwater using a flow through meter for pH, specific conductance, temperature, dissolved oxygen ("DO"), and oxidation-reduction potential ("ORP"), only collecting groundwater samples once these parameters stabilized. Select wells were also monitored for turbidity and ferrous iron prior to sampling. Appendix G provides the tabulated chemistry results, including the results generated from Property-related investigations conducted prior to the RI and the results from relevant investigations on surrounding properties.

4.4.6 Soil Vapor Monitoring

PES collected vapor samples from SV01 and SV02 in November 2019. PES also collected vapor samples from SV01 in January and April 2020. Consistent with the RI Work Plan (PES, 2019f) and RI Work Plan Addendum (PES, 2020b), PES collected vapor samples from 27 soil vapor probes (SV01, SV02, and SV-04 through SV-28) in July 2020, from 25 soil vapor probes (SV01, SV02, SV-04 through SV-13, and SV-16 through SV-28) in November 2020, from 23 soil vapor probes (SV01, SV-06 through SV-25, SV-17 and SV-28) in February 2021, and from 23 soil vapor probes (SV01, SV-06 through SV-12, and SV-14 through SV-28) in May 2021 (Table 6). Sampling of SV03 since April 2019 has encountered intermittent water and down-probe negative pressure when purging that prevented collection of the sample. Attempts to purge the probe of water or clear the probe did not relieve the negative pressure, and samples were not collected. PES attempted to collect a vapor sample from SV02 in January, April, and November 2020 as well as February and May 2021, but the probe screen was submerged and could not be cleared. Due to accessibility issues, soil vapor probes SV-14 and SV-15 were not sampled in November 2020, and SV-04, SV-05, and SV-13 were not sampled in May 2021. All samples were submitted for analysis by EPA Method TO-15. Appendix G provides the tabulated soil vapor results, including the results generated prior to the RI.

4.4.7 Validation Review of Laboratory Analytical Data

PES reviewed the analytical reports to evaluate the laboratory's performance in meeting the quality control criteria outlined in the 2017 EPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review and the 2017 EPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA, 2017a and 2017b). PES reviewed completeness, sample collection and preservation, holding times, initial and continuing calibration, method blank results, trip blank results, field and equipment blank results, field and laboratory duplicate analyses, surrogate recoveries, laboratory control samples, matrix spike/matrix spike duplicates ("MS/MSD"), and compound identification and quantitation limits. PES assigned the following data qualifiers, as needed:

- **J qualifier**: the result is an estimate based on laboratory quality control results or data quality review;
- **J+ qualifier**: the result is an estimate that may be biased high based on laboratory quality control results or data quality review;

- **J- qualifier**: the result is an estimate that may be biased low based on laboratory quality control results or data quality review;

- **U qualifier**: the result is considered not detected at the concentration shown based on a review of the laboratory quality control results;

- **R qualifier**: the result is rejected based on a review of laboratory data quality results; and

- **Z qualifier:** a PES assigned, project level qualifier to GRO results when the chromatogram for the sample does not match a discernible gasoline standard pattern. Several chlorinated VOC compounds (including cDCE , tDCE , TCE, PCE, and VC) elute within the GRO retention time range as specified by Washington State Method NWTPH-Gx (detections falling between the toluene and dodecane range). Non-petroleum products eluting within the gasoline range contribute to the GRO result and GRO results can be biased high (J+). Per PES's request, Pace evaluated chromatograms associated with positive sample detections above the laboratory reporting detection limit ("RDL") to confirm the potential presence of gasoline. Prior to January 2020, Pace reviewed sample chromatograms against the gasoline standard chromatograms and assigned "no discernible petroleum pattern" to applicable GRO results associated with this Project. After January 2020, Pace laboratory reports included a sample narrative evaluating each positive GRO detection (greater than the RDL).

The usefulness of the data was determined based on the EPA guidelines. Based on the data quality review, PES judged all of the data, except for the data qualified with an R, acceptable for use in the interim action and RI. PES does not think that the rejected data will materially affect the evaluation of environmental conditions. Appendix H (compact disc) provides the analytical data reports, and Appendix I (compact disc) provides a summary of the data qualification rationale and the data validation review memoranda.

4.4.8 Surveying

Bush, Roed & Hitchings, Inc. ("BRH") surveyed the horizontal and vertical locations of IA and RI borings and monitoring wells, monitoring wells not previously surveyed, selected additional Site wells, surface water monitoring points, and selected Property features. The surveying was conducted to provide accurate location data for wells and samples, ensure accuracy of the Site figures, allow calculation of groundwater elevations, and aid in evaluation of the data. BRH conducted the surveys for the IA and RI between March 2017 and May 2021. The horizontal datum was the North American Datum of 1983/1991 ("NAD 83/91"), and the vertical datum was NAVD 88. Appendix D provides the survey results, including the locations of the City of Seattle benchmarks used for horizontal and vertical control.

4.4.9 Waste Management

RI activities that generated waste included monitoring well installation, well development, soil vapor probe installation, and groundwater sampling at and near the Site. Generated waste consisted of soil, water, and wet soil (sludge). All waste generated from the RI activities was

profiled, transported, and disposed of by Waste Management. Appendix J provides documentation of the waste transportation and disposal. Note that the annual dangerous waste reports included in Appendix J include non-RI related waste streams including IA wastes and wastes generated during building construction activities.

4.4.9.1 Soil

Drilling and installation of monitoring wells and soil vapor probes generated PCE-contaminated soil that was placed in 55-gallon steel drums or large-volume, flexible-fabric bags (super sacks). All of this soil was profiled and disposed of as hazardous waste. Between September 2019 and August 2021, approximately 76.4 tons (152,770 pounds) of hazardous waste soil was transported for disposal at the Chemical Waste Management of the Northwest facility in Arlington, Oregon. In some waste shipments, waste soil generated during both RI and IA well installation activities were commingled and the above total includes some IA-related wastes.[9]

4.4.9.2 Water

Water generated during the RI activities included PCE-contaminated water from the drilling of monitoring wells and soil borings, monitoring well development, and quarterly groundwater sampling. All water generated prior to the dismantling of the onsite water treatment system on July 20, 2020, was added to the treatment system for processing before being discharged to the sanitary sewer or storm drain (Section 4.3.6.3). All water generated after the dismantling of treatment system was stored in intermediate bulk containers (275-gallon totes) or 55-gallon drums, profiled, and disposed of as hazardous waste. Between July 2020 and August 2021, approximately 4,837 gallons (40,352 pounds) of water was generated during IA and RI activities and disposed of as hazardous waste at the Chemical Waste Management of the Northwest facility in Arlington, Oregon. Note that some water shipments were reported as pounds and these have been converted to gallons assuming a density of 8.34 pounds/gallon.[10]

4.4.9.3 Wet Soil

In addition to water and soil generated during the RI field activities, wet soil that could generate free liquid requiring stabilization at the disposal facility was generated during drilling and installation of monitoring wells. The wet soil, which was placed into 55-gallon steel drums for shipping and disposal, was profiled separately from either soil or water and shipped for disposal as hazardous waste. Between September 2019 and August 2021, approximately 23.25 tons (46,500 pounds) of wet soil was transported for disposal at the Chemical Waste Management of the Northwest facility in Arlington, Oregon.[11]

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[9] The total quantity of soil noted herein includes the following shipments documented in Appendix J: 2019 Generation and Management (GM) Form, Sequence 3 (89,350 pounds); 2020 GM Form, Sequence 4 (54,420 pounds); and 2021 GM Form, Sequence 4 (9,000 pounds).

[10] The total quantity of water noted herein includes the following shipments documented in Appendix J: 2020 GM Form, Sequence 1 (28,852 pounds) and 2021 GM Form, Sequence 1 (11,500 pounds).

[11] The total quantity of wet soil noted herein includes the following shipments documented in Appendix J: 2020 GM Form, Sequence 3 (39,000 pounds) and 2021 GM Form, Sequence 3 (7,500 pounds).

4.4.9.4 Dangerous Waste Reporting

PES submitted annual dangerous waste reports to Ecology for waste generated in 2019, 2020, and 2021. The reports included records of managed waste profiles, quantities generated and disposed, transporters and disposal facilities, and hazardous waste manifests. Appendix J provides the documentation of RI waste management, including profiles, manifests, and certificates of disposal.

4.5 Investigations Performed at Surrounding Properties

SES RI Figure 7 (see Appendix B) depicts the surrounding properties and potential historical sources of subsurface contamination. This section provides brief summaries of the investigations conducted at the properties in and adjacent to the Site (see Figure 6), the results of the investigations, and the relevance of the results to the Site plume.

4.5.1 601 Dexter (Facility Site ID 56257757)

Notification of a release at the 601 Dexter site was submitted to Ecology in a report dated November 27, 2019. Ecology assigned the site Cleanup Site ID 15113 and Facility Site ID 56257757. Hart Crowser conducted a Phase I ESA and Phase II investigation at 601 Dexter in 2019 (Hart Crowser, 2019a and 2019b). The Phase I ESA identified several Recognized Environmental Conditions ("RECs") for the property including historical property use as a laundry business, gas station, and varnish manufacturer. The Phase I ESA also identified as a REC four historical USTs in the alleyway north of the property that historically contained heating oil, bunker oil, and solvents.

The 2019 Phase II investigation collected soil, groundwater, sub-slab soil vapor, and crawlspace indoor air samples from 601 Dexter. The investigation identified GRO exceeding the MTCA Method A cleanup level in soil and groundwater, acrolein and naphthalene exceeding the MTCA Method B sub-slab screening levels in soil vapor, and 1,3-butadiene, acrolein, carbon tetrachloride, naphthalene, and total petroleum hydrocarbons ("TPH") exceeding the MTCA Method B cleanup levels in indoor air (crawl space) samples. Historical groundwater sampling data provided in the Phase II report also identified total arsenic, total lead, and total chromium in groundwater that exceeded the MTCA Method A cleanup levels. The property owner (ARE-Seattle 32, LLC) entered into an Agreed Order (No. DE 21102) with Ecology in October 2022 to complete RI and FS activities and develop a cleanup action plan for the 601 Dexter site.

4.5.2 Seattle DOT Dexter Parcel (Facility Site ID 81735)

The Seattle Department of Transportation ("SDOT") submitted a release report to Ecology for the Seattle DOT Dexter Parcel on June 22, 2018 (SDOT, 2018a). Ecology assigned the site Cleanup Site ID 14785 and Facility Site ID 81735 and a site hazard rank of 2. Shannon & Wilson (2018a) conducted a Phase I ESA at the property (615 Dexter Avenue North) in 2018. The Phase I ESA identified several RECs for the property including historical plastic mixing, an oil burner sales business, oil or coal burning as a heating source, and a structural fire.

The Phase I ESA also identified as a REC four historical USTs in the alleyway south of the property that historically contained heating oil, bunker oil, and solvents.

Shannon & Wilson (2017b) and Hart Crowser (2019c and 2022a) conducted investigations at the property and adjacent alley. Hart Crowser (2022a) summarized the results of the investigations, which found (1) GRO exceeding the vadose zone screening level in the southeast corner of the property and adjacent alley and (2) GRO, DRO, benzene, and arsenic exceeding the groundwater screening levels in the southeast corner of the property and adjacent alley. Following completion of the RI and FS in February 2022, the property owner (615 Dexter, LLC) entered into a Prospective Purchaser Consent Decree ("PPCD") with Ecology (No. 22-2-02699-5 SEA) to implement cleanup of the site concurrent with redevelopment of the property. The PPCD became effective in March 2022 when 615 Dexter, LLC completed purchase of the property from Seattle Department of Transportation. Engineering and design for the cleanup action are currently underway.

4.5.3 701 Dexter (Facility Site ID 78082)

Two Phase I ESAs were conducted at the property, one in 2015 and the most recent in 2018 (Ramboll, 2018). The 2018 ESA included limited soil, groundwater, and soil vapor sampling. The subsurface sampling results identified heavy oil less than the MTCA Method A cleanup level in soil and groundwater, metals less than the MTCA Method A cleanup level in soil, chloroform exceeding the MTCA Method B cleanup level in groundwater, and acrolein, benzene, chloroform, and naphthalene exceeding the MTCA Method B sub-slab screening levels in soil vapor. The property owner (ARE-Seattle 33 LLC) entered into an Agreed Order (No. DE 18215) with Ecology in September 2020, ahead of property cleanup and redevelopment, which is currently underway.

4.5.4 Auto Service Europa Inc (Facility Site ID 27611753)

During investigation of soil conditions (Earth Solutions NW, 2009; Terra Associates, 2011) and removal of two heating oil USTs in 2011, soil and groundwater with DRO exceeding the MTCA Method A cleanup level was encountered (Terra Associates, 2012) and groundwater with VC exceeding the MTCA Method B cleanup was found (Terra Associates, 2011). During property redevelopment in 2012, approximately 1,600 tons of DRO-contaminated soil was removed near the location of the two heating oil USTs. No groundwater was encountered during the excavation. Under the VCP (Project No. NW2597), Ecology issued a No Further Action ("NFA") determination on October 10, 2012.

4.5.5 Seattle SD 1 Facilities Building (Facility Site ID 56583225)

Site characterization and removal of six USTs at the former Seattle School District Facility Building at 810 Dexter Avenue North (Hart Crowser, 1989 and 1990) indicated petroleum hydrocarbon contamination in soil and groundwater at the property. The USTs stored leaded and unleaded gasoline, diesel, fuel oil, and waste oil. Reported petroleum hydrocarbon contamination present prior to UST removal included TPH (hydrocarbon range unspecified) in soil and groundwater greater than the MTCA Method A GRO and DRO cleanup levels, and benzene and total xylenes in soil greater than the MTCA Method A cleanup levels.

During UST removal, surrounding soil with contamination was excavated and hauled off to be bioremediated at another Seattle School District property. Hart Crowser (1990) indicated that not all soil with contamination could be removed surrounding the north and west sides of the USTs due to the location next to a retaining wall or building footings. Additional soil borings advanced west of the waste oil tank indicated soil was under MTCA Method A cleanup levels off the property. Groundwater sampled from one well (MW-5), located in the middle of the property, showed no signs of contamination following the removal of the USTs. Property redevelopment around 2014 likely removed at least some of the residual soil hydrocarbon contamination.

4.5.6 Seattle Roy Aloha Shops (Facility Site ID 95811428)

Ecology assigned the Seattle Roy Aloha Shops property Cleanup Site ID 11216 and Facility Site ID 95811428. Fueling operations with a 1955-era UST system were suspended in October 1992 after discovery of a leaking fuel pump dispenser. A vapor survey (SCS, 1992) indicated that VOCs were present near a 550-gallon gasoline UST (located immediately north of the northwest corner of the building), a 2,700-gallon unleaded gasoline UST (located approximately 20 feet north of the building), and a pump island (located approximately 10 feet north of the 2,700-gallon UST). Vapor survey points near the eastern parcel boundary did not indicate elevated VOCs. The following year, E.P. Johnson Construction and Environmental ("EPJ") removed the two USTs and product piping and excavated approximately 3,200 tons of petroleum-contaminated soil ("PCS") from the parcel (Shannon & Wilson, 2010). The excavation depth varied from 7 to 25 feet bgs, where groundwater prevented further excavation. Soil samples were collected from the sidewalls and bottom of the excavation and were submitted for laboratory analysis of RCRA 8 metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver), GRO, DRO, ORO, benzene, toluene, ethylbenzene, and xylenes ("BTEX"), toxicity characteristic leaching procedure ("TCLP") constituents, total polychlorinated biphenyls ("PCBs"), and/or CVOCs. Although elevated concentrations of GRO and BTEX were detected, CVOCs were not detected in the soil samples analyzed. The excavated PCS was disposed of off the property.

In March 1993, EPJ oversaw drilling of seven soil borings (SCLB-1 through SCLB-7) to maximum depths varying from 24 to 39 feet bgs, with borings SCLB-3 through SCLB-7 completed as monitoring wells MW-1 through MW-5, respectively. These wells were subsequently decommissioned after they were deemed to be screened across the upper and lower portions of an aquifer. In October 1993, Remediation Technologies, Inc. ("RETEC") oversaw the drilling of eight borings (RETEC, 1995), five of which were completed as replacement monitoring wells (RB-1, RB-2, RB-3, and MW-6 through MW-10). The borings were advanced to maximum depths ranging from 17.5 to 25 feet bgs.

In June 2002, Urban Redevelopment LLC oversaw drilling of seven borings and the collection of 21 discrete soil samples (borings SCL-B100, SCL-B101, SCL-B102, SCL-MW101, SCL-MW102, SCL-MW103, and SCL-MW105 and soil samples SP-1 through SP-21). The locations and maximum depths of these sample locations, with exception of SCL-MW101 and SCL-MW105 (which were completed as monitoring wells) reportedly could not be confirmed. Soil samples were collected from each boring, and groundwater samples were collected from the monitoring wells after their development and during subsequent groundwater monitoring

events. Samples were submitted for laboratory analysis of ORO and BTEX, with selected samples also submitted for analysis of DRO, polycyclic aromatic hydrocarbons ("PAHs") (including carcinogenic PAHs ["cPAHs"]), pentachlorophenol, CVOCs, and/or RCRA 8 metals.

Shannon & Wilson collected groundwater samples from seven monitoring wells at the property (MW-6, MW-7, MW-8, and SCS-1), in the 8th Avenue North and Valley Street intersection (MW-9), and in the alley east of the property (SCL-MW101 and SCL-MW105) in March 2011. The samples were analyzed for GRO, DRO, ORO, VOCs, and RCRA 8 metals.

Seattle City Light collected four indoor air samples in the building basement in December 2013. The laboratory analyzed the samples for VOCs by EPA Method TO-15.

In August and September 2017, SES (SES, 2017) collected groundwater samples from four monitoring wells (SCL-MW105 in the alley and MW-5, MW120, and MW121 on the east side of 8th Avenue North) and soil samples from eight soil borings located in the asphalt parking lot north of the building (SB-1, SB-2, SB-3, SB-6, SB-7, and SB-8) and in the northern part of the building (SB-4 and SB-5). SES submitted the samples for laboratory analysis of GRO, DRO, ORO, BTEX, and RCRA 8 metals (both soil and groundwater); CVOCs (groundwater only); and cPAHs (soil only).

In these investigations, GRO and BTEX greater than the MTCA Method A cleanup levels were identified in soil and groundwater between the USTs and the alley (RETEC, 1995; Shannon & Wilson, 2011), GRO and benzene greater than the MTCA Method A cleanup levels were identified in groundwater in the alley (Shannon & Wilson, 2011; SES, 2017), and variable concentrations of PCE, TCE, and VC were found in the wells located on the east side of 8th Avenue North (RETEC, 1995; Shannon & Wilson, 2011; SES, 2017). PCE and its breakdown products were not detected at concentrations at or above the laboratory reporting limit in any of the four basement air samples.

4.5.7 Block 79 East (Facility Site ID 84466254)

Three former sites comprise the Block 79 East parcel: Buca di Beppo Ducati, Maaco Auto Painting Bodywork 9th Ave, and Bayside Volvo. Ecology received notification of a release at the Buca De Beppo Ducati site in a report dated November 19, 2015. Ecology assigned the site Cleanup Site ID 13006 and Facility Site ID 84466254. Ecology assigned the Maaco Auto Painting Bodywork 9th Ave site Cleanup Site ID 12571 and Facility Site ID 2224749. Ecology assigned the Bayside Volvo site UST ID 101750. In 2020, Ecology combined the sites into the Block 79 East site and assigned the site Cleanup Site ID 13006 with Facility Site IDs 2224749, 45221945, and 84466254 for the Buca di Beppo Ducati, Maaco Auto Painting Bodywork 9th Ave, and Bayside Volvo sites, respectively. The property owner (Block 79 LLC) entered into an Agreed Order (No. DE 21104) with Ecology in June 2022 to complete RI and FS activities and develop a cleanup action plan for the Block 79 East site. RI activities are currently underway.

4.5.7.1 Buca di Beppo Ducati (701 9th Avenue North)

Soil and groundwater samples were collected at the former Buca di Beppo Ducati site during Phase II investigations conducted by Hart Crowser in 1998, Enviros Incorporated ("Enviros") in 1992, and SES in 2014 (SES, 2015b). Hart Crowser identified a waste oil UST, below grade hydraulic hoists, and two oil/water separator sumps as potential sources of subsurface petroleum hydrocarbons; they collected soil samples from four soil borings beneath the former Ducati parcel and one soil boring and one monitoring well in the adjacent 9th Avenue North sidewalk. Enviros collected soil samples from five hand auger borings and groundwater samples in two monitoring wells at the former Ducati parcel, and SES collected soil samples from seven direct-push soil borings drilled at the former Ducati parcel. The results of those investigations identified GRO, DRO, ORO, lead, and mercury above the MTCA Method A cleanup levels in vadose zone soil, and DRO above the MTCA Method A cleanup level in groundwater. A Phase I ESA conducted by SES in 2014 identified the presence of confirmed hydrocarbon contamination and fill of unknown source as property RECs.

In March 2021, Farallon decommissioned and removed the waste oil UST and 11 underground hydraulic hoists from the former Buca di Beppo Ducati site (Farallon, 2021b). Farallon collected residual product samples from the UST and two hydraulic hoists, and collected soil samples from the excavation boundaries. Samples collected from the two sampled hoists identified DRO, ORO, toluene, xylenes, PCE, lead, and chrysene in the residual hydraulic fluid. Four of the hoists were observed with leaks or with stained soil in the surrounding soil. Results for soil samples collected from the hydraulic hoist excavations indicated multiple samples with DRO, ORO, cPAHs, and/or PCE exceeding their respective MTCA Method A cleanup levels. The sample collected from the former waste oil UST found DRO, ORO, barium, chromium, lead, and six cPAHs in the residual oil. Results for one soil sample collected above the waste oil UST indicated DRO, ORO, PCE, cadmium, lead, and cPAHs exceeding their respective MTCA Method A cleanup levels. Results for soil samples collected from the former waste oil UST excavation sidewalls and bottom indicated multiple samples with DRO, ORO, lead, and/or cPAHs exceeding their respective MTCA Method A cleanup levels. Soil samples collected from the north and east waste oil UST excavation sidewalls contained detections of PCE below the cleanup level. The UST excavation was not extended beyond where the soil samples were collected (Farallon, 2021b).

4.5.7.2 Maaco Auto Painting Bodywork 9th Ave (739 9th Avenue North)

GeoEngineers conducted a Phase I ESA at the former Maaco Auto Painting Bodywork 9th Ave site in 2014 (GeoEngineers, 2014a) and Phase II investigations at the former site in 2014 (GeoEngineers, 2014b). The Phase I ESA identified past light industrial site use, a heating oil tank closed-in-place in 1999, and fill of unknown origin as on-site RECs at the property. The results of the Phase II investigations identified GRO, DRO, BTEX, PAHs, cPAHs, select metals, and semi-volatile organic compounds ("SVOCs") above MTCA Method A cleanup levels in soil; GRO, benzene, toluene, ethylbenzene, cDCE, 1,2-dichloroethane, VC, and arsenic above the MTCA Method A cleanup levels in groundwater; and 1,4-dioxane and PCE in soil vapor above the MTCA Method A cleanup levels.

In March 2021, Farallon decommissioned and removed the heating oil UST (Farallon, 2021b). Farallon collected residual product samples from the UST, with DRO detected in the sample. Results for soil samples collected from the UST excavation sidewalls and bottom indicated DRO and ORO less than their respective MTCA Method A cleanup levels. No overexcavation was conducted during UST removal.

4.5.7.3 Bayside Volvo (753 9th Avenue North)

In 1992, three petroleum hydrocarbon USTs (a 1,000-gallon gasoline UST, a 675-gallon fuel oil UST, and a 300-gallon used oil UST) were removed from two locations on the west side of the former Bayside Volvo site. Geotech (1992) reported the USTs to be in poor to fair condition, with pinholes in the gasoline and fuel oil USTs. Geotech observed petroleum-contaminated soil between 4 and 14 feet bgs in the two UST excavations and in two test pits excavated (for observational purposes only) on the western property boundary. Soil samples collected during removal of the USTs contained GRO and benzene above the Method A cleanup levels. Geotech noted that investigations conducted by others observed petroleum contamination in monitoring wells in the Aloha Street ROW to the northeast of the Bayside Volvo site. Based on the depth and extent of the visibly contaminated soil, Geotech concluded that it was sourced off-site to the west of the Bayside Volvo site.

4.5.8 Seattle City DOT ROW 710 9th Ave North (Facility Site ID 21735)

Notification of a release at the 710 9th Avenue North site was submitted to Ecology in a report dated September 2011. Ecology assigned the site Cleanup Site ID 12379 and Facility Site ID 21735. The Cleanup Site Details Report for the site lists the site as awaiting cleanup.

In April 2008, CH2M Hill (CH2M Hill, 2008) conducted an environmental investigation along the 9th Avenue North corridor between Republican and Aloha Streets to evaluate if any soil or groundwater contamination was present along a proposed sewer alignment footprint. Four soil borings were drilled in the 9th Avenue North ROW using a hollow-stem auger rig to maximum depths of 7 to 26 feet bgs. Boring CHB-07 was advanced northeast of the Property between Ward and Aloha Streets, boring CHB-08 was drilled to the east of the Property at the eastern projection of Roy Street, boring CHB-09 was advanced to the southeast of the Property between Roy and Mercer Streets; and CHB-10 was drilled to the south-southeast of the Property between Mercer and Republican Streets. Reconnaissance groundwater samples were collected from borings CHB-07, CHB-08, and CHB-09 using temporary well screens. Soil and groundwater samples were not collected from boring CHB-10 because the potential for contamination in that boring location was considered low. Soil and reconnaissance groundwater samples were submitted for laboratory analysis of GRO, DRO, ORO, and CVOCs. The investigation identified petroleum and CVOC impacts beneath the 9th Avenue ROW. All soil detections were below the MTCA Method A and B cleanup levels, but soil detections of cDCE and VC in CHB-07 (located on Westlake Avenue north of Aloha Street) exceeded the American Linen RI screening levels (see Section 5.3.1). All reconnaissance groundwater results were below the MTCA Method A and B cleanup levels except for cDCE and VC at CHB-07 and ORO at CHB-09 (located next to MW119).

On August 23, 2011, a contractor grading 9th Avenue North between Westlake Avenue North and Roy Street encountered an UST with approximately 350 gallons of waste oil (PI Resources, LLC, 2011). The UST was evacuated, inerted, and removed. After limited overexcavation, soil samples were collected from the excavation limits and submitted for laboratory analysis of GRO, DRO, ORO, VOCs, metals, TCLP metals, cPAHs (one sample only), and PCBs (one sample only). The only detections exceeding the MTCA Method A cleanup levels were of GRO and ORO in a sample collected 6 feet bgs at the northern extent of the excavation. The contractor did not excavate additional soil due to the lack of shoring and presence of subsurface utilities.

4.5.9 Seattle City Parks NW Seaport (Facility Site ID 14237126)

The Seattle City Parks N Seaport (located at 1002 Valley Street) is the closest portion of the peninsula at the south end of Lake Union to the Site that has had subsurface sampling. Ecology received a Site Discovery/Release Report for the Seattle City Parks NW Seaport site on December 31, 2003. Ecology assigned Cleanup Site ID 596 and Facility Site ID 14237126 to the parcel. Ecology's Cleanup Site Details report shows cleanup at the property was conducted as an independent action with a remedial investigation and/or feasibility study completed on January 31, 2014.

In June and August 2008, Eco Compliance Corporation ("ECC") conducted soil sampling at the site to characterize the soil ahead of planned demolition and redevelopment. In June, ECC collected 12 soil samples up to approximately 5 feet bgs at 6 locations, and in August, ECC collected 22 soil samples up to approximately 8 feet bgs at 10 locations. ECC (2008a) identified several potential sources of subsurface contamination at the property including historical property use as a glass manufacturing plant (requiring the use of mercury) and more recent use of the property for the restoration and repair of boats, which involves the use of solvents, paints, and other chemicals. ECC submitted the samples for GRO, DRO, ORO, and BTEX, with select samples also analyzed for VOCs, RCRA 8 metals, and TCLP lead (ECC, 2008a and 2008b). The results indicated GRO, DRO, ORO, benzene, naphthalene, and arsenic exceeded the MTCA Method A cleanup levels, although ECC noted that arsenic concentrations were near background levels for the Puget Sound area. Soil greater than cleanup levels extended to depths up to 7 feet bgs, and ECC estimated approximately 2,200 tons of contaminated soil at the property. Groundwater was encountered during sampling in September 2008, but ECC did not collect groundwater samples. PES knows of no additional information about other environmental investigations or cleanup activities associated with the property.

4.5.10 Block 38 West (Facility Site ID 62773)

Ecology discovered that a release had occurred at the Block 38 West site during a review of State Environmental Policy Act (SEPA) documents posted by the City of Seattle in May 2019 for a redevelopment project at the property. Ecology assigned the site Cleanup Site ID 15008 and Facility Site ID 62773. On April 20, 2020, the property owner (City Investors IX, L.L.C) entered into an Agreed Order (No. DE 17963) with Ecology to complete RI and FS activities and develop a cleanup action plan for the Block 38 West site. Prior to entering into the AO, the property owner began independent cleanup activities (an interim action) in conjunction with property redevelopment.

Farallon (2021a) summarized the historical site investigations, including a 1994 investigation of a heating oil UST that was removed in 1989, a 2018 geotechnical investigation at the site, and subsurface environmental investigations conducted between 2014 and 2020 to investigate and characterize soil and groundwater conditions at and immediately adjacent to the site. The investigations included drilling and sampling 16 test borings (FB-01 through FB-16), installing and monitoring 13 wells (FMW-130, FMW-132 through FMW-138, FMW-144 through FMW-147, and FMW-149), and excavating 18 test pits (TP-1 through TP-18). Samples were analyzed at an environmental laboratory for GRO, DRO, ORO, PAHs, VOCs, SVOCs, PCBs, and/or metals.

Results of the subsurface investigations (Farallon, 2019, 2020a, 2020b, 2020c, and 2023a) indicated that soil was impacted by GRO, DRO, ORO, benzene, cPAHs, cadmium, and lead exceeding the MTCA Method A or B cleanup levels and that groundwater was impacted by GRO, DRO, ORO, and benzene exceeding the MTCA Method A or B cleanup levels. PCE, TCE, cDCE, tDCE, and VC were not detected in all but one soil sample collected from a limited set of soil samples (14 samples collected in 5 borings, 1 test pit, and a bunker fuel oil UST excavation at depths ranging from 1 to 50 feet bgs). Only cDCE was detected at 0.0041 mg/kg in one vadose zone soil sample (approximately 1-foot bgs) collected near a bunker fuel oil UST (Farallon, 2020b). PCE, TCE, tDCE, and VC were not detected in 27 groundwater samples from 13 monitoring wells (4 Shallow Zone, 7 Intermediate Zone, and 2 Deep Zone wells) and 3 Shallow/Intermediate Zone reconnaissance groundwater samples collected on and adjacent to the property between 2014 and 2019 (Farallon, 2019 and 2020a). In this same sample set, cDCE was detected above the laboratory reporting limit but below the American Linen RI screening level (see Section 5.3.1 below) in the following: (1) three Intermediate Zone wells (0.35 and 0.36 μg/L in 2018 from FMW-136 located on the southern property line, 0.51, 0.27, and 0.22 μg/L in 2014 and 2018 from FMW-130 located in the south-central part of the property, and 0.21 μg/L in 2019 from FMW-149 located in the southwestern corner of the property) and (2) two Deep Zone wells (1.1 to 1.3 μg/L in 2018 and 2019 from FMW-137 located immediately northeast of the property and 0.29 to 0.38 μg/L in 2018 and 2019 from FMW-138 located immediately southeast of the property).

Farallon (2023b) detailed the site interim action that was conducted during the redevelopment of the Block 38 West property; it included soil excavation, dewatering and treatment, and installation of vapor barrier and waterproofing. Construction dewatering included pumping from 19 extraction wells installed around the perimeter of the property and screened between elevations 10 and -30 feet. Figure 12 shows the eight northernmost wells (DW-1 through DW-3 and DW-15 through DW-18B. The dewatering system operated between January 2020 and March 2021 at pumping rates between 800 gpm at the start of dewatering to 350 gpm near the end of dewatering. Farallon collected groundwater samples from 11 of the dewatering wells at or near the start of dewatering and 4 dewatering wells (DW-15 through DW-18A) periodically throughout the dewatering period. The analytical results of these samples show CVOC concentrations below the laboratory reporting limits at the start of dewatering, with increasing cDCE and VC concentrations in the four dewatering wells monitored during the dewatering period. Maximum concentrations were 6.9 μg/L of TCE (DW-16 in February 2021), 800 μg/L of cDCE (DW-16 in February 2021), and 83 μg/L of VC (DW-18A in April and May 2020).

Based on a subsurface investigation of the east-adjacent alley primarily conducted in June and September of 2020, soil was impacted with DRO, ORO, GRO, cPAHs, cadmium, and lead above the MTCA Method A or B cleanup levels. The impacted soil appeared to be associated with the contamination found on the Block 38 West property and, to a lesser degree, contamination historically found on the east-adjacent Rosen Property Site (Facility Site ID 2500, Cleanup Site ID 5123). Subsequently, Farallon submitted an Interim Action Work Plan and Sampling Analysis Plan to Ecology to address the cleanup of the alley (Farallon, 2021a), which was conducted between March and July 2021. The alley IA removed 2,382 tons of contaminated soil for disposal at a permitted landfill (Farallon, 2024).

4.5.11 Block 37 (Facility Site ID 46445373)

The Block 37 Site, currently owned by City Investors XI, L.L.C., was historically occupied by a lumber mill, creamery, brewery, railroad line, multiple retail gas stations, a restaurant, and an automobile sales, service, and detailing facility. Two former listed sites comprise Block 37: TOSCO 25535330857 and Auto Service Company. Ecology was notified in May 1980 of an 80,000-gallon leaded gasoline release from a gas station product line at the TOSCO site in the southwest part of the property. Ecology assigned the site Cleanup Site ID 6134 and Facility Site ID 46445373. In February 1990, Ecology received notification of leaking USTs at the Auto Service Company site in the northwest part of the property. Ecology assigned the site Cleanup Site ID 5749 and Facility Site ID 24436664.

The TOSCO site entered the VCP in December 2006 (Project No. NW1714), receiving technical assistance from Ecology until May 4, 2021, when an AO between Ecology, City Investors XI, L.L.C., and Phillips 66 Company was finalized. At that time, Ecology combined the TOSCO and Auto Service Company sites into the Block 37 site for formal oversight and assigned the site Facility Site ID 46445373 and Cleanup Site ID 6134. Atlas (2023) provides the work plan for the RI to be performed at Block 37, which includes drilling and sampling 44 soil borings and installation and sampling of 17 monitoring wells. The soil borings will be distributed primarily across the property, and the monitoring wells will primarily be located in the ROW adjacent to the property. Samples will be submitted for analysis of petroleum hydrocarbon parameters. Ecology (2023) has approved the work plan and the remedial investigation activities are currently underway.

4.5.11.1 TOSCO 25535330857 (600 Westlake Avenue North)

The 1980 80,000-gallon leaded gasoline spill and a subsequent May 2001 600-gallon unleaded gasoline spill initiated multiple environmental investigations and cleanup actions at the TOSCO site and in the surrounding streets. The environmental investigations documented GRO, BTEX, MTBE, naphthalene, cPAHs, and total lead in soil above MTCA Method A cleanup levels at the property and/or in the street ROWs around the property (ATC, 2018). In groundwater, GRO, DRO, ORO, BTEX, MTBE, PCE, naphthalene, and total lead were identified above MTCA Method A cleanup levels at the property and/or in the street ROWs around the property (ATC, 2018; Hart Crowser, 2000). The cleanup actions have involved product removal from recovery trenches and wells, VOC removal using SVE and air sparging systems, contaminated soil excavation, and installation of containment barriers along the property boundaries.

4.5.11.2 Auto Service Company (630 Westlake Avenue North)

From approximately 1930 to the mid-1960's (and possibly until 1972), a retail gasoline service station and automotive servicing facility operated on the northwest portion of the property (SCS, 1990; Ecology, 2021a). The gasoline service station contained a service station building, two pump islands, and five motor oil and gasoline USTs ranging in capacity from 500 to 5,000 gallons (ATC, 2023). By at least 1969, the service station building was identified as 'Auto Cleaning' in conjunction with the gasoline service station. From 1971 to 2002, Auto Service Company conducted auto service and detailing operations intermittently at the northwest portion of the property (Ecology, 2021a). This operation occurred in one building used as an office and in another building used for auto servicing. The latter was equipped with three service bays that included oil changing pits where oil from vehicles was drained and oil/oil filters were replaced (Ecology, 2004). The operation also included a wash rack east of the service bays.

The USTs were likely abandoned between 1959 and 1972 and removed in January 1990, with a 500-gallon waste oil UST still in use from at least 1972 until January 1990 (SCS, 1990). In June 2005, the buildings and other aboveground structures associated with the former service station were demolished, and the area was paved with asphalt.

Petroleum hydrocarbon releases were documented (Ecology, 2004) during removal of five USTs in 1990; at the oil changing pit inside the service bay (leakage of used oil beneath the building); and outside the service bays (greywater from steam cleaning operations discharged to unpaved gravel-covered areas and stormwater catch basins). Hydraulic oil releases from the in-ground and aboveground lifts/hoists may also have occurred.

Investigations at the northwest portion of the property included the following:

- UST removal sampling (SCS, 1990) to document conditions during tank removal, which included a soil vapor survey and collection of 42 soil and 4 water samples from the UST excavation;
- Site investigation (SCS, 1991) to evaluate petroleum hydrocarbon contamination encountered during UST removal, which included installation and sampling of five monitoring wells; laboratory analysis for TPH, VOCs, and total lead; and hydraulic conductivity testing in four monitoring wells;
- Phase I environmental site assessment (Garry Struthers and Associates, 1999) to identify conditions indicating existing or past release or threat of release of hazardous substances of petroleum hydrocarbons at the property;
- Phase II environmental site assessment (Garry Struthers and Associates, 2000) to evaluate the environmental conditions at multiple properties between Mercer Street and Valley Street, including the northern half of Block 37. The investigation included drilling and sampling six soil borings and five monitoring wells in northern half of Block 37; laboratory analysis of five soil samples for NWTPH-Gx/BTEX, NWTPH-Dx, and total metals; laboratory analysis of two groundwater samples for NWTPH-Gx/BTEX, NWTPH-Dx, VOCs, and ethylene glycol; and

- A Site Hazard Assessment (Ecology, 2004) to evaluate the property data and provide a hazard ranking for the property.

4.5.12 AIBS Building Block 43 (Facility Site ID 32368748)

Contamination was discovered during UST removal activities at the AIBS Building Block 43 site and reported to Ecology in January 2014. The site entered the VCP on May 15, 2015 (Project No. NW2973). Ecology assigned the AIBS Building Block 43 site Facility Site ID 32368748 and Cleanup Site ID 12637. Historical uses of the property included a steam laundry, a bottling facility, a wood yard, scrap paper and automobile storage, automobile repair facility, retail gasoline station, a retail biofuel station, and a car dealership and repair shop. Between 2013 and 2015, the current property owner, Washington Builders LLC, redeveloped the property into a multi-story commercial building. Ecology removed the site from the VCP in January 2020 due to a lack of communication from the property owner and the complexity of the site.

Subsurface investigations conducted since 2000 (HWA, 2015; Farallon, 2018b) have found soil impacted by GRO, DRO, ORO, BTEX, cPAHs, arsenic, cadmium, lead, and mercury above the MTCA Method A or B cleanup levels and that groundwater was impacted by GRO, DRO, benzene, cDCE, VC, arsenic, and lead above the MTCA Method A or B cleanup levels, with some CVOC non-detect results elevated above the cleanup levels. Farallon (2018b) detailed the site interim actions conducted during AIBS Building Block 43 redevelopment, including removal of 12 USTs, soil excavation, dewatering and treatment, and operation of an SVE/air sparge system along the perimeter of the property.

4.5.13 Seattle DOT Mercer Parcels (Facility Site ID 27913)

SDOT submitted a release report to Ecology for the Seattle DOT Mercer Parcels on June 22, 2018 (SDOT, 2018b). Ecology assigned the site Cleanup Site ID 14784 and Facility Site ID 27913, with a site hazard rank of 2. A Phase I ESA conducted by Shannon & Wilson (2018b) summarized historical operations at the site, which included gasoline service stations, auto wrecking storage, soap and chemical manufacturing, and multiple diesel and heating oil USTs as on-site RECs.

Subsurface environmental investigations have been conducted at the Seattle DOT Mercer Parcels site from 1997 through 2020 (Hart Crowser, 2022b), including installation and sampling of a well in 1997 (Black & Veatch, 1998), installation and sampling of two wells in 2012 and 2013 (SES, 2013), installation of FMW-129 in 2014, sampling of 11 direct-push borings in 2017 (Shannon & Wilson, 2017a), and installation and sampling of 86 soil borings and monitoring wells in 2019 and 2020 (Hart Crowser, 2022b).

Based on the subsurface data collected at the Seattle DOT Mercer Parcels site, Hart Crowser (2022b) identified GRO, cPAHs, arsenic, and lead exceeding the screening levels in vadose zone soil; PCE, TCE, cDCE, VC, methylene chloride, arsenic, and selenium exceeding the screening levels in saturated zone soil; and GRO, DRO, ORO, benzene, PCE, TCE, cDCE, VC, 1,1-DCE, 1,2-dichloroethane, methylene chloride, 1-methylnaphthalene, arsenic, barium, cadmium, chromium, lead, and mercury exceeding the screening levels in groundwater.

Hart Crowser considered PCE and its breakdown products to be sourced at the American Linen Property and to be considered part of the American Linen Site, with the other contaminants part of either the Seattle DOT Mercer Parcels site or a contaminated fill site that runs through the property within the former Broad Street alignment[12] (listed as the Broad Street Alignment Contaminated Fill site with Cleanup Site ID 15446 and Facility Site ID 26292).

4.5.14 530 Dexter Avenue North (Block 55 North; Facility Site ID 99998165)

Wescor Graphics Corporation ("Wescor") previously manufactured printing plates on the northern portion of this property and used PCE during the manufacturing process. Washington State dangerous waste records from 1990 and 1996 through 2002 document the generation of over 161,000 pounds of PCE- and TCE-containing dangerous wastes at the property. A Hazardous Waste and Toxic Reduction Program site visit in 2004 confirmed Wescor no longer operated at the property and recommended the administrative withdrawal of their site ID under the program.

Ecology received a release notification letter for the undeveloped northern portion of the parcel (530 Dexter Avenue North (Block 55 North)) on July 1, 2022 (Farallon, 2022). The release notification provided a brief summary of a soil and groundwater investigation at the property, which included soil and groundwater sampling. The notification letter stated that the investigation found DRO and ORO, cPAHs, and PCE at concentrations exceeding MTCA Method A cleanup levels in fill and underlying soil at the property but did not find those constituents at concentrations exceeding MTCA Method A cleanup levels in groundwater. Ecology assigned the site Cleanup Site ID 16697 and Facility Site ID 99998165. Future plans include excavation of the entire northern portion of Block 55 and construction of a building with underground parking.

The southern portion of the site was redeveloped as part of the UW Medicine Lake Union Phase 3.2 project, which included multiple levels of subsurface parking.

4.5.15 WA UW 815 Mercer (Facility Site ID 95373825)

Ecology was notified of a release at the 815 Mercer site (also known as Block 50) on March 4, 1992. Ecology assigned the site Cleanup Site ID 7150 and Facility Site ID 95373825. Geoengineers (2000) conducted a modified transaction screen and Phase II ESA to support Puget Sound Energy's sale of the property to City Investors XII, LLC. The Phase II identified uses of hazardous substances and potential causes of release at the property, including the use and storage of waste oil, motor oil, transmission fluid, and antifreeze on the property; the former presence of two 1 million gallon manufactured gas ASTs that were removed before 1963; the presence of five 150-gallon lubricating oil USTs and one 300-gallon waste oil UST that were removed in 1992; and the presence of two 6,000-gallon USTs, a fuel island, and associated piping that were removed in 1998. Investigations between 1991 and 1998 as well as the Phase II ESA identified concentrations of petroleum hydrocarbons, BTEX, and/or PAHs exceeding MTCA Method A cleanup levels in soil and groundwater at the property.

[12] The arsenic and cPAHs detected on the Seattle DOT Mercer Parcels property are associated with the Broad Street Alignment Contaminated Fill site.

Property redevelopment in 2006 resulted in the property-wide removal of soil down to 37.5 feet bgs during mass excavation. Floyd|Snider (2011) oversaw excavation and disposal of impacted soil, including around former hoists and the former gasoline dispenser, and collected soil samples to confirm remaining soil met MTCA Method A cleanup levels. Mass excavation uncovered a 1,000-gallon gasoline UST, a diesel UST (volume unreported), and a drum. The drum and the gasoline UST, along with any associated impacted soil, were removed during the 2006 mass excavation. The diesel UST and adjacent contaminated soil were removed in 2007. GRO and BTEX in groundwater extracted during redevelopment of the property were less than the MTCA Method A cleanup levels. Floyd|Snider submitted a cleanup action report with a request for an NFA in 2011 (Floyd|Snider, 2011), and under the VCP (Project No. 2567) Ecology issued an NFA for the site on March 12, 2012.

4.5.16 Amazon VI (Facility Site ID 7811)

Notification of a release at the 515 Westlake Avenue North parcel (also known as Block 44) was submitted to Ecology on April 24, 2013, in a report dated April 8, 2013 (HWA Geosciences Inc., 2013). Ecology assigned the site Cleanup Site ID 12471 and Facility Site ID 7811. In October 2012, a 2,500-gallon UST was identified in the basement of the building at 515 Westlake Ave North during pre-demolition inspection and planning. The construction excavation subcontractor removed the UST on March 11, 2013, under the supervision of Kleen Environmental. Prior to tank removal, Mar-Vac removed approximately 1,200 gallons of oil from the UST. The area around the UST was over-excavated to an approximate depth of 22 feet bgs, and the apparent petroleum-impacted soil was stockpiled prior to disposal at a licensed facility. HWA Geosciences Inc. conducted a site assessment after removal of the UST, inspecting the tank condition, observing the soil adjacent to its former location, and collecting soil samples for laboratory analysis from the sidewalls and base of the excavation. One sidewall sample exceeded the MTCA Method A cleanup levels for GRO, ORO, benzene, and total cPAHs, prompting additional excavation and an additional sidewall sample. Final samples collected from the sidewalls and bottom of the excavation did not exceed MTCA Method A cleanup levels. Groundwater was not encountered during the excavation and removal of the UST. On October 16, 2014, Ecology issued an NFA determination for the cleanup upon completion of its initial investigation.

4.5.17 Summary of Potential Off-Property Sources

The properties within and adjacent to the Site had historical uses ranging from residences to industrial uses. The commercial laundries, paint and varnish manufacturers, gas stations, auto repair facilities, print and graphics companies, natural gas storage and distribution, and a lumber mill led to petroleum hydrocarbon, CVOC, and non-halogenated VOC contamination in soil and groundwater at various locations within the extents of the American Linen Site. Most properties at and bordering the Site have historically sourced petroleum hydrocarbon contamination, including benzene, above the MTCA cleanup levels, with the properties most impactful to off-property soil or groundwater including Seattle Roy Aloha Shops, Block 37, and possibly Block 43, Block 79 East, and Block 38 West. Properties that have potentially sourced CVOCs have included Block 55 and Block 79E.

5.0 REMEDIAL INVESTIGATION RESULTS

This section presents a summary of the RI results as well as results of investigations conducted during implementation of the IA, previous investigations (SES, 2013b), and previous independent actions (SES, 2015a and 2016). The subsections below discuss geology, hydrogeology, and nature and extent of contamination.

5.1 Geology

The Site sits at the intersection of marginal glacial and lacustrine depositional environments, with recent lake deposits, glacial till, glacial ice-contact deposits, and recessional lake deposits present in the near surface at the Site (Troost, 2008; see Figure 15). Human activity in the area has removed and redeposited native materials (e.g., Denny re-grade) and generated other artificial surface deposits. At depth, lithologic unconformities and buried topographies are common due to multiple stages of glacial advancement and retreat followed by post-glacial uplift. The resulting lithology is both horizontally and vertically heterogeneous. Based on the investigations conducted at the Site, the subsurface lithology beneath fill material consists of predominantly silty sand with lesser units of sand, silty gravel, silt, sandy silt, and clay. Below this are coarser deposits of sand and silty sand with variable amounts of gravel. Densities range from loose near the surface to very dense at depth. Dense to very dense soil was typically encountered in the borings at depths greater than 30 to 40 feet bgs, although in the western portion of the Site dense to very dense soil was encountered as shallow as 5 feet bgs.

Figures 16 through 23 present cross sections along roughly east-west and north-south transects across the Site. Figures 11 and 12 show the cross-section locations. The cross sections were located to allow the presentation of subsurface conditions roughly along groundwater flow paths through the Property and along transects roughly perpendicular to groundwater flow. PES manually generated the sections using subsurface data from all available borehole logs. Borehole location, lithology, and density data were compiled onto topographic profiles and evaluated to identify lateral correlations and determine lithologic boundaries. PES then created detailed geologic sections with lithologies separated according to United Soil Classification System ("USCS") symbology. The native heterogeneity of the subsurface (discussed above) along with differences in lithologic logging practices between consultants and unknown elevation datums introduced uncertainty in generating the cross sections. To overcome some of this uncertainty, when inferring boundaries and lateral extents, PES weighted borehole logs positioned closer to a section line and with greater detail more heavily than those further away with minimal description or low sampling density. For presentation purposes and to overcome inconsistent logging of interbedded sediments, PES also grouped lithologies into interlayered zones (represented by a slash between USCS symbols, e.g., "SaML/ML/SM"). These zones represent regions where borehole logs documented similar interbedded sediments but did not correlate laterally. Lithologies in these zones may transition horizontally (e.g., from sandy silt to silty sand), documenting shifts in depositional energy, or grade vertically between soil types.

The subsurface soil at the Site primarily consists of artificial fill overlying lacustrine deposits and glacial till and/or ice contact deposits. At depth are coarse outwash and/or interglacial deposits. The type of lithology directly underlying the fill changes from west to east across the site, with a notable shift occurring between the alley and 9th Avenue North. From youngest to

oldest, the lithologies encountered at the site comprise the following stratigraphic units: anthropogenic fill, post-glacial lacustrine deposits, glacial till and ice-contact deposits (Vashon Stade or older), outwash or inter-glacial deposits (Vashon or pre-Vashon), and older glacial till or drift.

5.1.1 Anthropogenic Fill

As seen on the cross sections, the immediate subsurface under the Site is a variable thickness of artificial fill material. The fill ranges in thickness from 5 to 40 feet and generally is thinnest in the northwest and thickens to the east and southeast. Fill deposits are composed of inconsistent mixes of sand, silt, and gravel with variable amounts of anthropogenic debris and organic material. Beneath the Property, 5 to 10 feet of primarily anthropogenic debris (glass, slag, metal, concrete, lumber, etc.) was encountered during drilling (e.g., IW-27B, IW-21B, and MW-143) and observed during construction mass excavation. This debris was thickest under the Property and thinned to east, with none observed in the 9th Avenue North borings. East of 9th Avenue North and closer to Lake Union, fill deposits contain a higher content of sawdust and wood fragments (e.g., MW-334, MW-336, MW-328, and MW-343) likely related to the early Seattle timber industry and sawmills that operated along the lakeshore. Recent native alluvial and lacustrine deposits are interspersed within or laterally bounded by fill in some locations, particularly nearer Lake Union.

5.1.2 Lacustrine Deposits

Lacustrine (lake) deposits were encountered directly underlying the fill east of 9th Avenue North and around the southern end of Lake Union. The deposits are comprised of laterally heterogeneous interbedded silt, sandy silt, clay, and/or silty sand with occasional lenses of sand (e.g., MW128, MW-319, and MW-323). They also contain organic rich layers and localized peat deposits (e.g., MW-341 and MW-338). The deposits are horizontally bedded, but lithologies do not present as laterally continuous strata across boreholes. They may grade horizontally between soil types reflecting shifts from shoreline to deeper water depositional environments or be crossed by sandy channel deposits. Consistencies range from medium dense to dense and soft to hard. East of 9th Avenue North these strata were encountered at elevations between -25 and 7 feet, but on 9th Avenue North were encountered up to elevation 25 feet (relative to NAVD 88). Isolated shallow clay and silt deposits in some borings west of 9th Avenue North (e.g., MW-143, MW-158A, MW-312, and MW-314) are likely lacustrine deposits as well. East of 9th Avenue North, the thickness varied from 6 to 30 feet, with deposits thickest south of Lake Union, beneath Broad Street and Westlake Avenue, and thinning to the east and west (Figures 16 and 22). These lacustrine deposits are likely comprised of recent and post-glacial recessional lake deposits as they correspond to mapped surface exposures of Vashon Recessional Lacustrine Deposits (Qvrl) and recent Lake Deposits (Ql) (Figures 7 and 15). On the cross-sections they are represented by the interbedded zones of silt, sandy silt, clay, and/or silty sand shown east of 9th Avenue North.

5.1.3 Glacial Till and Ice Contact Deposits

West of the alley, the fill is underlain by ice-contact deposits, glacial till, and subglacial meltout till. Vashon Till (Qvt) has been mapped at the surface near the Site (Figures 7and 15), suggesting the upper portion of this sequence of glacial deposits is likely Vashon in age, while the lower portion may be pre-Vashon in age. Differentiating the till types and ice-contact deposits is difficult as they are inter-layered at the Site, grading horizontally and vertically into one another. However, ice-contact deposits and subglacial meltout till tend to contain higher proportions of coarse-grained material that may exhibit sorting. Collectively, these units were encountered at elevations between approximately -50 and 45 feet (relative to NAVD 88).

Beneath the Property and adjacent areas lies 50 to 70 feet of interlayered fines-rich silty sand, sandy silt, and silt with variable amounts of gravel and cobbles. Occasional sand interbeds are also present and range from less than 6-inches to 10 feet thick. Lithologies present as crudely bedded to massive, and contacts are primarily gradational, with proportions of silt and sand grading horizontally and vertically such that borderline or dual classification (i.e., SM/ML or SM-ML) is common in field identification (Figures 16 to 18). Densities in this interlayered zone range from dense to very dense and sediment is frequently described as "cohesive." During PES drilling operations on and near the Property, density notably increased around 30 to 40 feet bgs such that augers or drill casing came up hot to the touch and samplers were difficult to drive. These deposits are interpreted to be primarily glacial till, with ice contact deposits present in the upper portion.

South and east of the Property, the lithology generally becomes coarser and less consolidated. The western half of the Seattle DOT Mercer Parcels is underlain by predominantly silty sand with isolated deposits of sand, gravel, sandy silt, silt, and clayey sand. The deposits are generally dense to very dense and extend from 65 to 80 feet bgs (Figures 17 and 19). Down to 50 feet bgs, lithologies present as more obviously bedded (less massive) with sharper (less gradational) contacts, but below that, lithologies may still appear homogeneous. To the east of the Property underneath the alley are thicker deposits of sandy silt, silty sand, and sand. Consistencies range from medium dense to very dense, and during drilling, sediments appeared less consolidated than the deposits encountered beneath the Property. These deposits extend to between 75 to 85 feet bgs at the northern end of the alley and to approximately 50 feet bgs at the southern end. From approximately 50 to 80 feet bgs below the southern end of the alley lie silty gravel, gravel-rich silty sand, and sandy silt. The gravel-rich sediments coarsen to the south under the Seattle DOT Mercer Parcels (Figure 20). The deposits encountered to the south, under the Seattle DOT Mercer Parcels, and to the east, under 8th Avenue North and the alley, are interpreted to be predominantly a mixture of ice-contact deposits and subglacial meltout till. Between the alley and 9th Avenue North, these deposits may grade into the lacustrine deposits encountered east of 9th Avenue North.

5.1.4 Outwash or Interglacial Deposits

Below the fines-rich lacustrine and glacial deposits is a coarser unit that consists primarily of sand and fines-poor silty sand, with localized silt and gravel-rich interbeds. The contact with the overlying glacial and lacustrine deposits may be gradational or transitional in nature. Densities range from dense to very dense. These deposits are present beneath the entire Site

and were encountered at elevations below -30 feet in western portion of the Site and at elevations below 0 feet in the eastern portion of the Site (relative to NAVD 88). The full extent of this unit is unknown as its base was not encountered in most boreholes at the Site. Based on previous work by others and USGS geologic maps, this coarse unit may be composed of glacial outwash deposits, advance or recessional, and/or coarse-grained interglacial deposits. While the upper portion of this unit could include Vashon aged deposits, most Vashon outwash is mapped at higher elevations in the surrounding area (Figures 7 and 8), suggesting these deposits are largely pre-Vashon in age.

5.1.5 Older Glacial Deposits

Underneath the sand, a more fines-rich unit composed of sandy silt, silty gravel, and silty sand was encountered in some borings (MW101, MW105, MW-133, MW-160, and MW-161) at elevations below -75 feet (relative to NAVD 88). Very dense and moderately cemented, these deposits may represent older till or drift deposits.

5.2 Hydrogeology

This section summarizes the Site-wide hydrogeology data, including estimated hydraulic conductivities, groundwater, and surface water levels, hydrostratigraphy, and groundwater flow direction and velocity.

5.2.1 Hydraulic Conductivity Evaluations

Table 7 presents the soil physical properties determined by laboratory testing of soil samples, and Table 8 provides the horizontal hydraulic conductivities estimated from slug tests conducted by SES in 2013 (SES, 2013b), Hart Crowser in 2019 and 2020 (Hart Crowser, 2021a), and PES in 2019 and 2020. It additionally shows conductivity estimates PES determined through pumping test analysis of transducer data recorded during dewatering activities at Block 37. Appendix E provides a summary of the PES slug test analyses (Table E-1) and the aquifer test software analytical sheets, including graphs of the data collected during the tests.

5.2.1.1 Slug Tests

Slug test hydraulic conductivities were estimated from both the falling head and rising head tests, with average hydraulic conductivities determined using all the available data at each well. The estimated average horizontal hydraulic conductivities varied from 7.1 x 10^{-6} (W-MW-01) to 2.2 x 10^{-2} cm/sec (MW115) with the lower values (10^{-6} to 10^{-4} cm/sec) in wells screened in siltier units (silt, silty sand, silty gravel) and the higher values (10^{-3} to 10^{-2} cm/sec) in wells screened at least partially in relatively clean sand. Based on the water-bearing zone of the tested well screens, the average horizontal hydraulic conductivities were:

- Shallow Zone: 6.0 x 10^{-4} cm/sec;
- Intermediate A Zone: 2.7 x 10^{-3} cm/sec;

- Intermediate B Zone: 4.1 x 10^{-4} cm/sec; and
- Deep Zone: 3.3 x 10^{-3} cm/sec.

Data from two Seattle DOT Mercer Parcels wells (HMW-2D and HMW-3D) were excluded from the Deep Zone average as the data were difficult to evaluate for hydraulic conductivity and the resulting estimates were incongruous with the lithology of the screen zones. Based on screen zone lithology, the average horizontal hydraulic conductivities were:

- Gravel (GP): 6.1 x 10^{-3} cm/sec;
- Sand (SP): 6.0 x 10^{-3} cm/sec;
- Silty Sand (SM): 5.6 x 10^{-4} cm/sec; and
- Sandy Silt or Silt (ML): 1.7 x 10^{-4} cm/sec.

The slug test results are consistent with published laboratory test results for various mixtures of sand, silt, and clay (Wolfe, 1982). The estimated sandy silt and silt hydraulic conductivities are on the high side of the reported range, likely reflecting the sandier nature of the materials near the tested well screens. Similarly, the relatively narrow range of hydraulic conductivities across the range of lithologies may be reflective of the heterogeneous nature of the lithology near the tested well screens.

5.2.1.2 Dewatering Drawdown Analysis

In the analysis of the data collected during the beginning of Block 37 dewatering, hydraulic conductivities were estimated via analysis of drawdown data in five individual wells screened in sandy soil (MW105, MW113, MW116, MW119, and MW122; see Table 8). All hydraulic conductivity estimates were similar in magnitude, ranging from 1.0 x 10^{-2} (MW113) to 5.0 x 10^{-2} cm/sec (MW116). The hydraulic conductivity estimates determined from the drawdown analysis were generally higher than estimates from slug tests conducted in the same wells. This is typical as pumping tests stress a larger portion of an aquifer, tending to average out effects of lithologic heterogeneity because flow is dominated by zones of higher hydraulic conductivity. In contrast, slug tests stress a limited area around a single well and thus flow is strongly influenced by the immediate lithology.

5.2.1.3 Laboratory Tests

Table 7 presents the soil physical properties determined by laboratory testing of soil samples collected during PES investigations from 2017 to 2020 and Hart Crowser investigations in 2019. PES used the Kozeny-Carman equation (Payne et al., 2008) and modified Hazen method (Rosas, et al., 2014) to estimate the hydraulic conductivity of the samples analyzed for grain size. Hart Crowser utilized the modified Hazen method. For the lithologies sampled, average hydraulic conductivity values calculated using the Kozeny-Carman equation were generally similar to average values calculated using the modified Hazen method. The Hazen method produced a slightly higher conductivity estimate for clean sand (SP) and a slightly lower estimate for clay (CL). Average hydraulic conductivities calculated via the Kozeny-Carman equation were:

- Gravel (GP): 4.0 x 10^{-3} cm/sec;
- Sand (SP): 3.6 x 10^{-3} cm/sec;
- Silty Sand (SM): 3.8 x 10^{-4} cm/sec;
- Sandy Silt or Silt (ML): 3.5 x 10^{-5} cm/sec; and
- Clay (CL): 1.1 x 10^{-6} cm/sec.

The average hydraulic conductivities estimated using the modified Hazen method were:

- Gravel (GP): 3.4 x 10^{-3} cm/sec;
- Sand (SP): 1.9 x 10^{-2} cm/sec;
- Silty Sand (SM): 1.2 x 10^{-4} cm/sec;
- Sandy Silt or Silt (ML): 1.4 x 10^{-5} cm/sec; and
- Clay (CL): 2.8 x 10^{-7} cm/sec.

The maximum calculated hydraulic conductivity via either method was 6.2 x 10^{-1} cm/sec (SP, MW-311 at 48 feet bgs) and the minimum calculated hydraulic conductivity was 2.3 x 10^{-7} cm/sec (CL, MW-136 at 77 feet bgs). These results are similar to slug results with the exception of the hydraulic conductivities of sandy silt or silt, which were slightly lower than the slug test estimates.

The vertical hydraulic conductivities of the 12 samples measured in the laboratory varied from 1.8 x 10^{-7} (CL, MW-323, 32.5 to 33.5 feet bgs) to 1.2 x 10^{-4} cm/sec (SM, MW-323, 100 to 101 feet bgs). The geometric mean hydraulic conductivities of the four SM samples and seven ML samples tested were 3.5 x 10^{-6} cm/sec, reflecting the high percentage of fines in the SM samples and typically lower vertical hydraulic conductivities compared to horizontal hydraulic conductivities.

5.2.2 Groundwater and Surface Water Elevations

Tables F-1 through F-3 in Appendix F summarizes the groundwater levels measured in all monitoring wells at the Site to date, including top of casing elevation, depth to water, and groundwater elevation. Although the earliest reported water levels were measured in the early 1990s in wells outside the Property, more comprehensive Site-wide water level monitoring rounds have been conducted between 2012 and 2021. Factors affecting groundwater elevations include seasonal variability, operation of the ERH/SVE system at the Property in 2013, IA injections on the Property, and the operation of various dewatering systems at or near the Property (see Table 2 and Figure 10). The following discussion focuses on monitoring conducted during the IA and RI (between March 2017 and June 2021), first detailing groundwater and surface water conditions at the Site during unpumped periods (Sections 5.2.2.1 and 5.2.2.2, respectively) then discussing conditions during pumping (Section 5.2.2.3).

Table 9 summarizes the range of water levels and groundwater elevations measured in select wells between March 2017 and June 2021 under pumped and unpumped conditions. The table omits data from wells decommissioned prior to the start of construction at the Property and wells with fewer than two measurements under either pumped or unpumped conditions.

5.2.2.1 Depth to Water

During groundwater level events conducted when no known dewatering activities were occurring (Table 2), depth to groundwater at the Site varied from 2.2 feet bgs in J5 (March 20, 2017; see Table F-1) to 46.5 feet bgs in HMW-6D (June 7, 2021; see Table F-1). Excluding wells installed on the Property, the shallowest depths to water were predominantly in the eastern part of the Site and the deepest depths to water were in the western part of the Site. Accordingly, the vadose zone at the Site is thickest in the west and thinnest in the east. Based on shallowest water depth measurements (highest groundwater elevations) in Shallow Zone wells, the vadose zone thickness ranges between 18 and 22 feet on the western side of the Site and between 7 and 10 feet on the eastern side of the Site.

5.2.2.2 Groundwater Elevations

Groundwater elevations (relative to NAVD 88) within the 2017 to 2021 monitoring period at the Site varied from -8.22 feet in GEI-2 (June 12, 2017) to 40.06 feet in DMW-4S (February 1, 2021; see Table 9). Within each water-bearing zone (see Section 5.2.3), groundwater elevations were generally higher in the west and lower in the east, except for in the Deep Zone. Groundwater elevations in the Deep Zone were highest in the area around 9th Avenue North and Roy Street, and lower to the west and east of there.

Transducer data (Table F-3 in Appendix F) from March 13, 2018, to March 13, 2019, document a complete year when no known construction-related groundwater withdrawals occurred in the South Lake Union area. As such, the data record seasonal variability in groundwater elevations at the Site. Over this period, the highest seasonal groundwater elevation range was in Shallow Zone well R-MW3 (9.36 feet), and the lowest seasonal groundwater elevation range was in Deep Zone well MW122 (2.45 feet). Between March 2018 and March 2019, the highest groundwater elevations occurred in the spring and the lowest groundwater elevations occurred in the late summer and early fall.

Among co-located wells screened in different water-bearing zones, groundwater elevations were generally highest in the shallower monitoring wells and lowest in the deeper monitoring wells, indicating a predominantly downward gradient. Table 10 shows vertical gradients calculated from measurements taken in co-located monitoring wells between March 2019 and June 2021. Groundwater elevations from March and July 2019 as well as June 2021 are considered to represent unpumped conditions. Though a dewatering system was operational at 400 Westlake Avenue North in June 2021, discharge volumes are thought to have been low and unlikely to have significantly impacted groundwater elevations across the Site. Co-located wells near the Property show greater differences in groundwater elevations and larger vertical gradients than co-located wells farther from the Property. This suggests there is more hydrologic separation between water-bearing zones near the Property and less separation (i.e., greater communication) between zones to the east and south of the Property.

5.2.2.3 Surface Water Elevations

Lake Union is the closest surface water body to the Site. As discussed in Section 3.6.1, the water level of LakeUnion is maintained by the USACE between approximately 16.78 and 18.78 feet elevation (relative to NAVD 88). Lower elevations are maintained during winter months, with the lowest levels occurring December to January, and higher elevations are maintained during summer months, with peak levels occurring between May and June. Appendix F provides a hydrograph of the lake surface water elevations from the USACE lake monitoring point in Kenmore with elevations measured by PES at the south end of Lake Union also shown.

Based on the limited data available during unpumped conditions, lake elevations were higher than adjacent groundwater elevations in all water-bearing zones in April and July 2019 and in June 2021, which were times of the year when the lake water elevation was being maintained near its highest level. The Lake Union elevations were generally higher than the groundwater elevations in Deep Zone wells east of 9th Avenue North (east of the groundwater high), and the mean Lake Union water elevation was above the mean groundwater elevation in the four Deep Zone monitoring wells instrumented with pressure transducers in 2018 and 2019 (MW102, MW105, MW113, and MW122; Table F-3).

5.2.2.4 Effects of Dewatering in the Area

During the period of the IA and RI investigations, construction-related dewatering occurred from April to December 2017 at Block 37, from August 2019 to July 2020 at the Property, and from January 2020 to March 2021 at Block 38 West (see Section 3.5.2 and Table 2). The dewatering system that operated at 400 Westlake Avenue North from February 2020 through at least June 2021 likely had little impact on groundwater elevations across the Site due to its low discharge volumes and distance from the Site. Appendix F provides hydrographs of manual measurements in the monitoring wells and hydrographs of the pressure transducer data from all instrumented wells between March 2017 to June 2021, covering the three periods of dewatering between 2017 and 2021. Table 9 presents a summary of the depths to water and groundwater elevations in unpumped and pumped conditions.

During periods of pumping, groundwater elevations in the monitored wells at the Site generally decreased, with minimum groundwater levels significantly lower during pumping periods than in unpumped periods. Though seasonal effects may explain some of these decreases in groundwater elevations, the hydrographs in Appendix F demonstrate that pumping is primarily responsible for the observed decreases in groundwater elevations. As seen on the hydrographs, there was significant drawdown in the monitored wells after the respective initiations of groundwater extraction at Block 37, the Property, and Block 38 West. Groundwater levels remained lowered throughout the operation of each system, only recovering after the termination of pumping. Prior to full recovery, increases in groundwater levels occurred following an 80 gpm reduction in the pumping rate at Block 37 on July 14, 2017 (followed by a more gradual reduction in the pumping rates), and the shutdown of 7 dewatering wells at Block 38 West on December 28, 2020. Groundwater elevations near Lake Union in the Shallow, Intermediate A, Intermediate B, and Deep Zones were predominantly below the level of the lake during pumping periods (Table 9).

Vertical gradients under pumped conditions were highly variable, shifting in magnitude and direction (upward/downward) due to the overlapping influences of multiple pumping systems on groundwater elevations at the Site (Table 10).

Also apparent on the hydrographs, dewatering system effects were not limited to the water bearing zones in which pumping wells were screened. At the Property, pumping wells were screened approximately from the base of the Shallow Zone to the middle of the Intermediate A Zone (elevations 0 to 20 feet NAVD 88). After pumping began, groundwater levels in these zones fell, with larger decreases in wells adjacent to the Property (e.g., MW-154, MW-155, and MW-142) and smaller decreases in wells farther away (e.g., MW-320, MW119, MW109, and MW-325). Groundwater levels also decreased in Intermediate B Zone wells MW-316 and MW-322, despite being screened below the base of the dewatering system, and in Intermediate B Zone well MW-143, groundwater elevations increased significantly immediately after pumping termination.

At Block 38 West, pumping well screens spanned the lower Intermediate A Zone to upper Intermediate B Zone (elevations -30 to -10 feet NAVD 88). In these zones, groundwater elevations in monitored wells dropped following the initiation of pumping, but so did groundwater elevations in monitored Deep Zone wells. Though Deep Zone transducers began collecting data after pumping began, they recorded significant decreases in groundwater levels in MW-324 and MW-326 and sudden increases in groundwater levels following a 60 percent reduction in system pumping (December 28, 2020). The transducers in Deep Zone wells MW-319, MW-324, MW-326, MW-328, and MW-329 documented the termination of Block 38 pumping on March 24, 2021. Larger decreases in groundwater levels occurred in wells closer to Block 38 West (e.g., MW-326, MW-325, and MW-329), and smaller decreases occurred in wells farther away (e.g., MW126, MW124, and MW-306).

Even during periods of groundwater extraction, water level responses to precipitation events were apparent. After dewatering terminated at the Property, groundwater levels remained depressed in monitored Shallow Zone wells, likely due to lack of recharge during the dry season and possibly due to dewatering at Block 38 West lowering groundwater levels in the Intermediate A Zone. Shallow Zone levels then rose corresponding both to an increase in rainfall events and the decrease in discharge at Block 38 West in December 2020. After Property pumping, the seasonal shift from dry to wet season may explain the relatively smooth recovery curve in Intermediate A well MW-142 that becomes more irregular at the start of the wet season (early fall). Short-lived peaks in groundwater elevations following large precipitation events are also apparent in some monitored wells. In Shallow and Intermediate A Zone wells, increases in groundwater levels occurred following precipitation events in late December 2019 (MW-155, MW-320, MW109, MW-325, and MW-327) and early January 2020 (MW-155, MW121, MW-312, MW-142, and MW-327). Following the December 2019 event, groundwater levels also increased in Intermediate B Zone wells MW-316 and MW-322. The sudden onset and relatively short duration of these peaks in groundwater levels suggests good hydrologic communication between the Shallow and Intermediate water-bearing zones at those locations.

5.2.2.5 Summary

Following is a summary of the results of groundwater and surface water monitoring during the IA and RI:

1. Based on highest groundwater elevations in Shallow Zone wells, the vadose zone ranges from 18 to 22 feet thick on the western side of the Site and from 7 to 10 feet thick on the eastern side of the Site;

2. During unpumped conditions, groundwater elevations were generally higher in the west part of the Site and lower to the east in the Shallow, Intermediate A, and Intermediate B Zones. In the same conditions, groundwater elevations in the Deep Zone were highest in the area around 9th Avenue North and Roy Street, and lower to the west and east of there;

3. Seasonal groundwater level changes in unpumped conditions ranged from approximately 2 to 9 feet, with the highest groundwater elevations in the spring and the lowest groundwater elevations in the late summer and early fall;

4. There is a predominantly downward hydraulic gradient at the Site. The higher downward gradients near the Property indicate a greater hydrologic separation between water-bearing zones in that area, which is consistent with the lithologic findings;

5. Surface water elevations in Lake Union appear to be higher than adjacent groundwater elevations during the late spring and summer months when the lake elevation is maintained at its highest level. The lake water level appears to be higher than the nearby groundwater elevations in Deep Zone wells throughout the year;

6. Groundwater elevations decreased in all four water-bearing zones during periods of pumping, with the wells most impacted located in and adjacent to the dewatering wells and water-bearing zone being pumped; and

7. During periods of pumping, the Lake Union water elevations were predominantly above the groundwater elevations in all four water-bearing zones.

5.2.3 Hydrostratigraphy

The Site hydrostratigraphy is comprised of discontinuous water-bearing zones in glacial or ice-contact deposits in the west and lacustrine or interglacial deposits in the east. These zones extend from the water table to the top of the coarser outwash/interglacial deposits, with a deeper water-bearing zone in the coarse deposits. As discussed in Section 4.1, SES (2013b) classified these water-bearing zones into three hydrostratigraphic units: a shallow water-bearing zone comprised of fill and encountered to depths of 10 to 20 feet bgs, a relatively thick intermediate water-bearing zone composed of dense to very dense, heterogeneous glacial soil (found between 25 and 80 feet bgs, divided into an upper "A" zone and a lower "B" zone), and a deep water-bearing zone composed of glacial outwash deposits. PES has observed similar stratigraphy and has maintained these zone names throughout this document. For consistency and simplicity from here on, the zones are referred to as follows:

Shallow Zone (for the shallow water-bearing zone), Intermediate A Zone (for the Intermediate A water-bearing zone), Intermediate B Zone (for the Intermediate B water-bearing zone), and Deep Zone (for the deep water-bearing zone).

The Shallow Zone is an unconfined water-bearing zone in the fill, recent lacustrine deposits, and upper portion of the glacial till/ice-contact deposits (corresponding to the fill and less dense, near surface native deposits). The Intermediate Zone west of 9th Avenue North consists of dense to very dense, semi-confined to confined water-bearing zones in the glacial till/ice-contact deposits (corresponding to the silt-rich interbedded unit shown on the cross sections). West of 9th Avenue North it is divided into an upper coarser zone (termed the Intermediate A Zone) and a lower finer zone (termed the Intermediate B Zone). East of 9th Avenue North, the Intermediate A and B Zones (collectively referred to as the Intermediate Zone) consists of medium dense to dense, semi-confined to confined water-bearing zones in the lacustrine deposits (corresponding to the silt and clay-rich interbedded unit shown on the cross-section). The zone is thinner east of 9th Avenue North, and there is less lithologic distinction between the Intermediate A and Intermediate B Zones. The Intermediate Zone serves as a leaky aquitard that is less permeable on the western edge (in the glacial deposits) and becomes leakier to the east (in the lacustrine deposits). The Deep Zone is a deeper, very dense, confined water-bearing zone in the outwash/interglacial deposits (corresponding to the coarser unit shown on the cross sections). There is also a lower aquitard consisting of very hard, fine-grained glacial drift (corresponding to the few locations shown below the coarse deposits). The approximate locations of the Shallow, Intermediate A and B, and Deep Zones are shown on the cross sections (Figures 16 through 23 and Figures 33 through 40).

5.2.4 Groundwater Flow Direction

Throughout the 2017 to 2021 monitoring period, groundwater flow direction in the four water-bearing zones at the Site changed in response to construction-related groundwater extraction. Figures 24 through 28 show groundwater elevation contour maps during unpumped (Figures 24 and 25) and pumped (Figures 26 through 28) conditions. Additional groundwater elevation contour maps from other monitoring events referenced below and within the 2017 to 2021 period are included in Appendix F.

5.2.4.1 Groundwater Flow During Unpumped Conditions

Figures 24 and 25 present groundwater contour maps generated using groundwater levels measured on March 24, 2017, and July 16, 2019, respectively. They represent unpumped groundwater flow conditions as no known groundwater extraction was occurring at or near the Site at these times. In both, the groundwater flow direction was to the east in the Shallow and Intermediate A Zones. This is consistent with historical monitoring events as well as contour maps of groundwater levels from March 14 and April 22, 2019 (Figures F-5 and F-6). Groundwater flow was also to the east in the Intermediate B Zone on July 16, 2019. Flow in the Intermediate B Zone could not be assessed in March 2017 due to a lack of data, but groundwater levels taken in March and April 2019 generally indicate easterly flow, though groundwater elevations appear to have been impacted by IA activities on the Property (i.e., injection of ISCO and EVO).

On March 24, 2017, groundwater flow in the Deep Zone was westward west of 9th Avenue North and eastward east of 9th Avenue North. Westward flow in the Deep Zone during unpumped conditions is supported by other monitoring events during unpumped periods in 2017 and 2019. Groundwater levels measured on March 20 and April 14, 2017, and on March 24 and April 22, 2019, indicate westward flow west of 9th Avenue North. On July 16, 2019, the division in flow direction occurred in the alley, such that flow was westward west of the alley and eastward east of the alley. Based on the groundwater contour maps generated using the July 16, 2019, data the horizontal hydraulic gradient ranged from 0.013 to 0.048 feet/foot in the Shallow Zone, 0.010 to 0.027 feet/foot in the Intermediate A Zone, 0.009 to 0.020 feet/foot in the Intermediate B Zone, and 0.004 to 0.018 feet/foot in the Deep Zone. Vertical hydraulic gradients in co-located wells were generally downward during non-pumping periods, though there are select locations with upward gradients (Table 10).

5.2.4.2 Groundwater Flow During Pumped Conditions

Figures 26, 27, and 28 present groundwater contour maps of all four water bearing zones generated using groundwater levels measured on October 11, 2017, October 21, 2019, and May 11, 2020, respectively. During each of these events, construction related dewatering was occurring and thus the contours reflect groundwater flow under pumped conditions. On October 11, 2017, the complete groundwater extraction system southeast of the property (Block 37) had been pumping for 176 days. In all four zones groundwater flow was generally to the east, ranging from east northeast to east southeast (Figure 26). In contrast to unpumped conditions, there was no westward flow in the Deep Zone. As discussed in the RI/FS work plan, pressure transducer data demonstrate that this change in flow direction occurred shortly after the initiation of pumping at Block 37 and that, west of 9th Avenue North, westward flow returned after the cessation of pumping.

Construction related dewatering began at the Property in early August 2019 and by October 21, 2019, the system had been pumping for 76 days. In the Shallow and Intermediate A Zones, groundwater flow was primarily in toward the Property (Figure 27). Pumping at the Property, however, had a limited radius of influence as flow remained eastward east of the alley. Flow in the Intermediate B Zone was also in toward the Property even though the pumping well points were located in the Shallow and Intermediate A Zones. On October 21, 2019, the horizontal hydraulic gradient varied from approximately 0.013 to 0.274 feet/foot in the Shallow Zone, from 0.015 to 0.256 feet/foot in the Intermediate A Zone, and from 0.015 to 0.069 feet/foot in the Intermediate B Zone. In the Deep Zone, the groundwater flow direction was to the southeast, with no westward component apparent. Limited pumping at Block 37 may have affected this change in flow direction in the Deep Zone. On October 7, 2019, three dewatering wells at Block 37 began pumping to facilitate the construction of a discharge pit associated with the groundwater extraction system for construction at Block 38 West. On October 21, 2019, the horizontal hydraulic gradient in the Deep Zone ranged from 0.001 to 0.004 feet/foot, with the higher gradient nearer to Block 37. Site-wide, vertical hydraulic gradients generally remained downward, however more upward gradients occurred near the Property (on Valley Street, 8th Avenue North, Dexter Avenue North, and Roy Street).

In addition to continued dewatering at the Property, on January 3, 2020, groundwater extraction began at Block 38 West, located southeast of the Property. By May 11, 2020, the system at the Property had been pumping for 280 days, and the system at Block 38 West had been pumping for 129 days. The groundwater elevation contours indicated at least some southeasterly flow in all four water-bearing zones (Figure 28). Adjacent to the Property in the Shallow and Intermediate A Zones, flow remained in toward the Property on May 11, 2020, but east of the Alley, flow was generally to the southeast (ranging from east-southeast to south-southeast). In the Intermediate B Zone, a groundwater high was present in the western portion of the Seattle DOT Mercer Parcels. The high was also evident in groundwater contours in July and November 2020. Near the high, there was radial groundwater flow, but across the Site the groundwater flow direction was mainly to the southeast. Groundwater flow in the Deep Zone was also to the southeast. On May 11, 2020, the horizontal hydraulic gradient varied from approximately 0.020 to 0.448 feet/foot in the Shallow Zone, from 0.007 to 0.165 feet/foot in the Intermediate A Zone, from 0.007 to 0.074 feet/foot in the Intermediate B Zone, and from 0.008 to 0.034 feet/foot in the Deep Zone. Compared with October 2019, when minimal pumping occurred at Block 37, the horizontal hydraulic gradients in the Deep Zone were higher in May 2020. The increase in Deep Zone gradients along with the shift in groundwater flow to the southeast in the Shallow and both Intermediate Zones were likely due to the operation of the groundwater extraction system at Block 38 West.

Dewatering activities at the Property ended on July 20, 2020, and at Block 38 West on March 24, 2021. Appendix F provides groundwater contour maps for the Shallow, Intermediate A, Intermediate B, and Deep Zones generated using groundwater level measurements taken on June 7, 2021. In the Shallow and Intermediate A Zones, the groundwater flow direction was generally eastward across the Property, but near 9th Avenue North the groundwater flow direction was to the south-southeast, and south of Lake Union the groundwater flow direction was to the south (based on limited data points). In the Intermediate B Zone, a groundwater high was still present at the southwest corner of the Seattle DOT Mercer Parcels; the groundwater high extended across the Property, with groundwater flow westward west of the Property and eastward east of it. Similar to the shallower water-bearing zones, groundwater flow in the Intermediate B Zone was to the south-southeast near 9th Avenue North and southerly to the south of Lake Union (based on limited data points). Groundwater flow in the Deep Zone ranged from south to southeastward east of the alley and west to southwestward west of the alley. Based on the hydrographs for Deep Zone wells monitored with pressure transducers (Appendix F), westward flow resumed in early April 2021, shortly after the cessation of pumping at Block 38 West. The June 7, 2021, groundwater contours may represent a system still in recovery rather than complete restoration of normal groundwater flow conditions. During groundwater extraction at and near the Site, the horizontal hydraulic gradient ranged from 0.015 to 0.102 feet/foot in the Shallow Zone, 0.009 to 0.077 feet/foot in the Intermediate A Zone, 0.008 to 0.043 feet/foot in the Intermediate B Zone, and 0.003 to 0.014 feet/foot in the Deep Zone.

5.2.5 Groundwater Flow Velocity

The groundwater flow velocity (also known as the seepage velocity or average linear velocity) can be determined using the following equation (Fetter, 2001):

$$v = \frac{ki}{n},$$

where v = groundwater flow velocity (cm/sec),
k = hydraulic conductivity (cm/sec),
i = hydraulic gradient (feet/foot), and
n = effective porosity.

PES estimated the average ranges of horizontal groundwater flow velocity using:

- The average horizontal hydraulic gradients for each water-bearing zone from eight monitoring events, four when no pumping was known to be occurring in the area and four when pumping was occurring at or near the Site;
- The range in horizontal hydraulic conductivity for each water-bearing zone determined from the slug tests (2.3×10^{-5} cm/sec to 1.6×10^{-3} cm/sec in the Shallow Zone, 3.7×10^{-5} cm/sec to 2.2×10^{-2} cm/sec in the Intermediate A Zone, 7.1×10^{-6} cm/sec to 2.9×10^{-3} cm/sec in the Intermediate B Zone, and 4.4×10^{-5} cm/sec to 1.7×10^{-2} cm/sec in the Deep Zone); and
- An effective porosity value of 30 percent (Wolff, 1982).

To represent flow conditions with no known groundwater extraction occurring, the following monitoring events were chosen: March 24, 2017; March 14, 2019; July 16, 2019; and June 7, 2021. Due to data limitations of the March 2017 and 2019 events, the average range of groundwater flow velocity (non-pumped) for the Intermediate B Zone is based only on hydraulic gradients calculated for the July 2019 and June 2021 events. To represent flow conditions with pumping occurring, the following monitoring events were chosen: October 11, 2017; October 21, 2019; May 11, 2020; and November 16, 2020. PES estimated the following average horizontal flow velocities:

- Non-pumped conditions
  - Shallow Zone: 0.008 to 0.58 feet per day;
  - Intermediate A Zone: 0.012 to 7.4 feet per day;
  - Intermediate B Zone: 0.001 to 0.56 feet per day; and
  - Deep Zone: 0.003 to 1.2 feet per day.

- Pumped conditions
  - Shallow Zone: 0.024 to 1.7 feet per day;
  - Intermediate A Zone: 0.033 to 19.4 feet per day;
  - Intermediate B Zone: 0.003 to 1.1 feet per day; and
  - Deep Zone: 0.006 to 2.4 feet per day.

5.3 Nature and Extent of Contamination

This section provides a summary of the nature and extent of contamination at the Site, updating the information provided in the IA and RI/FS work plans (PES, 2018 and 2019f, respectively) with soil data collected after October 2018 and groundwater data collected after February 2019.

5.3.1 Screening Levels

PES compared data collected prior to the RI, during the RI, and in relevant investigations at properties in and near the Site to screening levels to (1) provide a basis for describing the nature and extent of contamination at the Site and (2) provide a basis for developing chemicals of potential concern ("COPCs"), proposed chemicals of concern ("proposed COCs"), and ultimately proposed cleanup levels (see Section 7.1).

5.3.1.1 Screening Level Development Process

Prior to the RI (PES, 2018), PES used screening levels based on the MTCA process for developing Method B cleanup levels, following Ecology's expectations for cleanup level development at the Site (Ecology, 2015b):

- MTCA Method B is to be used as the basis for establishing cleanup levels at the Site;
- Soil cleanup levels are to be protective of human health and the environment, considering leaching, direct contact, terrestrial ecological receptors, and soil vapor pathways;
- Groundwater cleanup levels are to be protective of human health, surface water, and sediment, considering residential use and the vapor intrusion pathway; and
- Adjustments are to be made for total site risks (hazard index of 1 or less and excess cancer risk no greater than 1 in 100,000).

For screening of the RI data, Ecology (2021c) developed Site preliminary cleanup levels ("PCULs") similar to the Lower Duwamish Waterway PCUL workbook but modified using factors applicable to fresh surface water and sediment[13], including a range of potential transport and exposure pathways. Appendix K provides the vadose zone soil, saturated zone soil, groundwater, and soil vapor PCULs for potential transport and exposure pathways. The potential transport pathways included:

[13] Lower Duwamish Waterway PCULs are applicable to marine surface water and sediment exposure pathways and receptors.

- Transport of contaminated groundwater to surface water in Lake Union;
- Partitioning of groundwater contamination to sediment in Lake Union;
- Leaching of soil contaminants to potable groundwater from the vadose zone or saturated zone;
- Leaching of soil contaminants from the vadose zone or saturated zone to groundwater followed by transport to surface water;
- Leaching of soil contaminants from the vadose zone or saturated zone to groundwater followed by partitioning to sediment; and
- Intrusion of soil vapors or vapors from groundwater into a building.

The potential exposure pathways included:

- Direct contact with soil (unrestricted land use);
- Potable use of groundwater;
- Inhalation of air;
- Human contact with sediment;
- Human consumption of seafood; and
- Contact with surface water and sediment by aquatic organisms.

The screening process began in 2021, using the current version of the PCUL workbook at that time. The workbook has been updated multiple times since then. The PCUL updates as of March 2024 were evaluated to determine whether the list of COPCs would be different if the screening had been performed in March 2024 and it was determined that the list of COPCs would remain the same. Updates to the PCULs and soil vapor screening levels published after the 2021 versions used in the RI will be considered during the development of indicator hazardous substances and final cleanup level determination in the FS.

The MTCA requirements for developing cleanup levels (WAC 173-340-720, WAC 173-340-730, and WAC 173-340-740 for groundwater, surface water, and soil, respectively) state that cleanup levels shall be based on both the highest beneficial use and reasonable maximum exposure expected under current and potential future site use. Based on a review of the Site hydrogeology and groundwater sampling results, PES has determined that discharge of site-related groundwater contaminants to Lake Union is not currently occurring and is not likely to occur in the future. Following is a summary of that evaluation.

5.3.1.2 Summary of Groundwater Discharge to Lake Union

Geology. The geology near Lake Union consists of fill overlying lacustrine deposits, which in turn overlie outwash or interglacial deposits. The variable fill is fine-grained (sandy silt and silty sand) with wood chips, slag, and brick debris. The lacustrine deposits directly underlying the fill consist of laterally heterogeneous interbedded silt, sandy silt, clay, and/or silty sand with occasional lenses of sand, organic rich layers, or localized peat deposits. As shown on the cross sections (Figures 16, 18, 22, and 23), the top of the Intermediate Zone is just above the bottom of the lake, and the fine-grained lacustrine deposits making up a significant portion of the Intermediate Zone serve to isolate the lake from the coarser (silty sand and sand) Deep Zone deposits at depth.

Groundwater Levels and Flow. Water levels measured during periods of no groundwater extraction at or near the Site (Section 5.2.2) indicate that the elevation of Lake Union is higher than the Deep Zone groundwater elevation through all four seasons of the year and is also likely higher than the Intermediate B Zone groundwater elevation throughout most of the year. For the one Intermediate B Zone monitoring well and four Deep Zone monitoring wells instrumented with pressure transducers, the mean Lake Union water elevation was above the mean groundwater elevation in 2018 and 2019 (when no groundwater was being extracted near the Site). Groundwater level data measured in June 2021 when no groundwater extraction was occurring near the lake indicate that there is a downward hydraulic gradient from the Shallow to Deep Zone near the lake.

The data indicate that the elevation of Lake Union is likely higher than the groundwater elevations in the Shallow and Intermediate A Zones during the summer (when the lake level is high) but lower than the groundwater elevations in the Shallow and Intermediate A Zones in the winter (when the lake level is low), with transitional periods in the spring and fall (when the lake level is being raised or lowered). The Shallow and Intermediate A Zone groundwater contour maps for periods when no groundwater was being extracted near the Site show groundwater flow toward the lake in March 2017, March 2019, and April 2019, and groundwater flow away from the lake in June 2021. Based on these data, the only groundwater zones capable of discharging to Lake Union are the Shallow and Intermediate A Zones.

Groundwater Chemistry Near Lake Union. To determine whether VOC-contaminated groundwater could reach Lake Union, PES reviewed the groundwater results for Shallow and Intermediate A Zone wells closest to Lake Union along two pathways from the Property: one ending at Shallow Zone well MW-337 (near the lake east of the intersection of 9th Avenue North and Westlake Avenue North) and one ending at Shallow Zone well MW-339 and Intermediate A Zone well MW-327 (near the lake north of the Westlake Avenue North and Valley Street intersection). Table 11 presents the statistics for the 13 VOCs that were detected in these three wells. Frequency of detection ("FOD") above the laboratory method detection limit ("MDL") for these VOCs ranged from 7 percent (five VOCs) to 50 percent (cDCE). Only one VOC had maximum detected concentrations greater than 1 μg/L (acetone at 2.75 μg/L). The maximum concentrations of the CVOCs consistent with the Property (PCE and its breakdown products) were all less than 0.3 μg/L. None of these 13 VOCs were detected above the groundwater PCULs protective of the surface water exposure pathway. These results indicate that groundwater in the zones discharging to the lake at least part of the

year (Shallow and Intermediate A Zones) does not contain VOCs at concentrations of concern for surface water or sediment. Given the length of time since the dry cleaning operations were active at the Property and the relatively stable concentrations and plume extent during the IA and RI investigation period, these conditions are not likely to change.

Summary. The low permeability geologic materials near the lake, downward hydraulic gradient, groundwater flow away from the lake in the Intermediate B and Deep Zones, and low VOC concentrations in the two zones (Shallow and Intermediate A) discharging to the lake during at least part of the year indicate that there is currently no transport of VOCs at concentrations of concern from groundwater to the lake. These factors also demonstrate that there is not a reasonable likelihood of VOC transport from groundwater to the lake in the future.

5.3.1.3 Screening Levels Used in the RI

Based on the lack of current Site-related VOC discharge to Lake Union and the unlikely occurrence of it in the future, PES has eliminated the groundwater to surface water transport and exposure pathway as a component of the reasonable maximum exposure scenario. The revised potential transport and exposure pathways used in the RI include:

- Leaching of soil contaminants to potable groundwater from the vadose zone or saturated zone;
- Intrusion of soil vapors or vapors from groundwater into a building;
- Direct contact with soil (unrestricted land use);
- Potable use of groundwater; and
- Inhalation of indoor air.

PES has used the PCULs based on these transport and exposure pathways as the RI screening levels. These PCULs are provided in Appendix K (Tables K-1 through K-3) and are shown on the data tables and summary statistics tables (Tables 11, 12, and 18 through 22). Two compounds are not shown on Ecology's PCUL tables: di-isopropyl ether (soil and groundwater) and tetrahydrofuran (groundwater). There are no toxicity data or applicable or relevant and appropriate requirements ("ARARs") for di-isopropyl ether, so no PCUL is available. For tetrahydrofuran, the only cleanup level available for tetrahydrofuran is the MTCA Method B noncancer value of 7,200 μg/L as shown in Ecology's Cleanup Levels and Risk Calculation ("CLARC") tables of February 2021. With Ecology's approval, PES selected that value as the PCUL for tetrahydrofuran.

It should be noted that the PCULs selected for evaluating the nature and extent of contaminants in Site-wide groundwater (i.e., groundwater in all water-bearing zones) do not include MTCA Method B screening levels protective of vapor intrusion. However, the vapor intrusion pathway is evaluated separately for groundwater in the Shallow Zone. Shallow Zone groundwater has the highest potential to generate vapors that could enter into buildings or other enclosed structures in the area of the Site. The groundwater screening levels for vapor intrusion are provided in Appendix G, Tables G-5 and G-6.

MTCA (WAC 173-340-740(5)(c)) states that cleanup levels shall not be set lower than the practical quantitation limit ("PQL"). For 17 soil analytes, the laboratory PQL was above the corresponding PCUL. The soil PQLs varied by analysis due to interferences by other higher concentration analytes, differences in matrix properties, and varying moisture contents between samples. PES and Ecology reviewed the distribution of soil PQLs for undiluted analyses of these 17 analytes, and Ecology recommended PQLs on the higher end of the range to be used as the PCUL. Following are the four vadose zone soil PCULs that were adjusted up to the PQLs shown:

- 1,1,2,2-Tetrachloroethane and Vinyl chloride (0.004 mg/kg);
- Acrylonitrile (0.03 mg/kg); and
- Methylene chloride (0.04 mg/kg).

The following 17 saturated zone soil PCULs were adjusted up to the PQLs shown:

- 1,1,1,2-Tetrachloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene ("1,1-DCE"), 1,2-Dichloroethane ("EDC"), Chlorodibromomethane, and Vinyl chloride (0.004 mg/kg);
- 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, and Acrylonitrile (0.03 mg/kg);
- 1,2-Dichloropropane (0.009 mg/kg);
- Benzene and TCE (0.002 mg/kg);
- Chloroform (0.007 mg/kg);
- Methylene chloride (0.04 mg/kg); and
- PCE (0.005 mg/kg).

No groundwater analytes had PQLs greater than the PCULs, so PCUL adjustments were not necessary.

Appendix K Table K-3 presents the development of the soil vapor screening levels and includes the Method B indoor air cleanup level and the Method B sub-slab soil vapor screening levels for protection of indoor air (February 2021 CLARC tables and Ecology, 2016b). The Method B groundwater screening levels for protection of indoor air are shown on Table K-2. The Method B sub-slab screening level for protection of indoor air was selected for the RI soil vapor screening level. If no sub-slab screening level was available but an indoor air cleanup level was available, the indoor air cleanup level with a 10 times vapor attenuation factor was used as the screening level.

5.3.2 Soil

This section summarizes the soil analytical results on and off the Property. All data collected at the Property is summarized in Section 5.3.2.1, including data collected before the independent and interim actions conducted at the Property. Section 5.3.2.2 summarizes all data useful in determining the nature and extent of contamination at the Site. Tables 12 and 13 summarize the soil analytical data, Figures 29 through 32 summarize the locations with vadose zone and saturated zone PCUL exceedances off of the Property, Figures 33 through 40 present cross sections depicting the vertical extent of PCE PCUL exceedances, and Appendix G provides complete soil analytical data tables.

5.3.2.1 Property Soil

As discussed in Sections 4.1, 4.3, and 4.4, over 1,050 soil samples were collected during various investigation and cleanup action phases at the Property, including:

- During investigations conducted prior to the ERH/SVE independent action in 2013;
- Shortly after ERH/SVE treatment;
- As part of the investigation conducted between 2017 and early 2019 to design the IA;
- During IA injection well installation in 2018; and
- During the 2019 installation of the IA monitoring wells and contingent action injection wells after the ISCO and EVO injections.

The IAWP discussed the analytical results for most of these samples, with only the 42 soil samples collected during installation of wells to monitor the IA and contingent action injection wells not discussed in the IAWP. Soil samples were not collected at the Property during the RI activities conducted after installation of the IA and contingent action monitoring wells.

Following is a brief discussion of the vadose zone and saturated zone sample results from all of these investigations, followed by a condensed version of the IAWP soil results discussion relative to when the Property independent and interim actions occurred (beginning with the *Before ERH/SVE Treatment* discussion below). As a reminder, soil above elevation 0 feet across most of the Property (Figure 14) was treated in the 2013 independent action, soil between approximate elevations -45 and 10 feet over much of the Property (Figure 11) was treated in the 2018 and 2019 IA work, and soil above elevations ranging from 10.7 to 0.7 feet across the entire Property was excavated and removed during the 2019 construction of the building foundation and parking garage (Section 4.3.6.1).

Vadose Zone Soil Samples. In the 34 vadose zone soil samples collected during these investigations, 15 of the 72 analytes were detected at least once (Appendix G, Table G-1). Only two, however, were detected above the PCULs: PCE in 8 samples and TCE in 1 sample. The eight samples with PCE detections above the PCUL included B-248 and IW-46B at 15 feet bgs; B-250, B-252, and B-259 at 2.5 feet bgs; and IW-27B, IW-39B, and IW-47B at

5 feet bgs. The maximum PCE detection in these samples was 0.701 mg/kg (estimated) in B-250 at 2.5 feet bgs. The sample with TCE detected above the PCUL (0.0285 mg/kg) was from B-253A at 5 feet bgs. These locations were adjacent to or south of the former western boiler room (B-248, IW-46B, and IW-47B), adjacent to or south of the western end of the former northern sewer line (B-250, B-252, B-253A, and B-259), or adjacent to the former eastern sewer lines (IW-27B and IW-39B). The elevations of all of these samples were above 35 feet, and all of this soil was removed during construction of the building foundation and parking garage. Table G-1 in Appendix G presents soil analytical results for samples collected on the Property; the maximum concentrations of PCE, TCE, cDCE, and VC in vadose zone soil are summarized in Table 13.

Saturated Zone Soil Samples. In the approximately 1,000 saturated zone soil samples collected during these investigations, 45 of the 73 analytes were detected at least once (Appendix G, Table G-1). Twenty-four of the analytes were detected at least once above the PCUL, including 9 CVOCs (1,1-DCE, 1,2-dichloropropane, cis-1,3-dichloropropene, trans-1,3-dichloropropene, cDCE, PCE, tDCE, TCE, and VC), 13 petroleum hydrocarbons (1,2,3-trimethylbenzene ["1,2,3-TMB"], 1,2,4-TMB, 1,3,5-TMB, benzene, ethylbenzene, GRO, isopropylbenzene, methyl tert butyl ether ["MTBE"], naphthalene, n-butylbenzene, n-propylbenzene, toluene, and xylenes), and two ketones (2-hexanone and acetone). The maximum PCE detection in saturated soil on the Property was in B-236 at 42.5 feet bgs (16,400 mg/kg), south of the former western boiler room. The highest concentrations of TCE (113 mg/kg), cDCE (329 mg/kg), tDCE (0.7 mg/kg), 1,1-DCE (1.04 mg/kg) and VC (17 mg/kg) were detected in MW-135 at 14 feet bgs in the area near the former loading dock and adjacent to the former northern sewer line and storm drain. The highest concentrations of the other CVOCs exceeding the PCULs were detected north of the former western boiler room at B-260 (15 feet bgs), IW-14D (86 feet bgs), and IW-54B (21 feet bgs). The maximum GRO detection was co-located with the elevated CVOCs in MW-135 at 14 feet bgs (641 mg/kg), while the majority of the other maximum detections of petroleum-related compounds were primarily detected in B-205 at 10 feet bgs in the vicinity of the former pump island and USTs within the northeast portion of the Property. The highest concentrations of the ketones were detected in B-248 at 50 feet bgs south of the former western boiler room's heating oil USTs. Saturated soil data for these compounds are included on Table G-1 in Appendix G, and a summary of the maximum concentrations of PCE, TCE, cDCE, and VC in saturated soil on the Property is included in Table 13. Additional details are provided below.

Before ERH/SVE Treatment. PCE and TCE were detected above the PCULs in most soil samples collected from the Property borings drilled before the ERH/SVE system began operating in August 2013. VC, cDCE, and tDCE were detected less frequently than PCE and TCE and always in the same samples with PCE and/or TCE detections (Table G-1). The maximum detections of PCE, TCE, cDCE, tDCE, and VC were 237 mg/kg (G-MW1 at 20 feet bgs, elevation 19 feet), 2.3 mg/kg (W-MW-04 at 9 feet bgs, 26 feet elevation), 7.3 mg/kg (W-MW-04 at 9 feet bgs), 0.22 mg/kg (estimated, W-MW-04 at 9 feet bgs), and 0.71 mg/kg (W-MW-04 at 9 feet bgs). PCE and TCE PCUL exceedances were found in soil sampled at the Property between 5 feet bgs (DB07, 35 feet elevation) and 81 feet bgs (MW101, -41.5 feet elevation). PCE, TCE, and in limited cases, cDCE were detected above the PCULs in soil samples collected at depths below the ERH/SVE treatment zone, i.e., greater than 40 feet bgs (below approximately 0 feet elevation). These detections occurred in

samples collected from MW101, DB03 through DB13, W-MW-03, and W-MW-04, with PCE concentrations over two orders of magnitude above the PCUL detected in soil samples collected below the treatment zone in MW101, DB03, DB07, DB08, DB10, W-MW-03, and W-MW-04.

Petroleum hydrocarbon analysis was performed on 36 soil samples collected from 10 borings at the Property pre-ERH/SVE treatment (Table G-1). The results of the samples collected before operation of the ERH/SVE system were generally below the PCULs, except for the following in DB14 between elevations 1.5 and 31.5 feet: GRO (260 and 73 mg/kg at 10 and 20 feet bgs, respectively); benzene (0.059 mg/kg), toluene (0.41 mg/kg), and ethylbenzene (1.2 mg/kg) at 10 feet bgs; and total xylenes (3.6 and 1.0 mg/kg at 10 and 20 feet bgs, respectively).

Shortly After ERH/SVE Treatment. Soil at depths shallower than 40 to 50 feet bgs (approximately elevation 0 feet) was treated by the ERH/SVE system in 2013 over most of the Property. Limited soil sampling was conducted soon after completion of the ERH/SVE treatment. Soil was sampled in five shallow (to 10 feet bgs) direct-push borings (P02 to P06) drilled in the treatment area in February 2014 (Figure 11). Shallow soil samples (5 to 10 feet bgs) collected from P02 through P06 contained PCE detections above the PCUL, though at greatly reduced concentrations from pretreatment samples (generally below 1 mg/kg).

Before IA Implementation. The maximum detections of PCE, TCE, cDCE, tDCE, and VC in soil samples collected at the Property between 2016 and 2019 were, respectively, 16,400 mg/kg (B-236 at 42.5 feet bgs, elevation 9.3 feet), 113 mg/kg (MW-135 at 14 feet bgs, elevation 25.1 feet), 329 mg/kg (MW-135 at 14 feet bgs), 0.700 mg/kg (MW-135 at 14 feet bgs), and 17.0 mg/kg (MW-135 at 14 feet bgs). At least one sample was above a PCUL for PCE, TCE, cDCE, tDCE, and/or VC in all borings and wells, except B-209, B-234, MW-137, and MW-141.

Soil CVOC concentrations within the footprint and in the depth range treated by the ERH/SVE system (elevations greater than approximately 0 feet) were generally over an order of magnitude lower in concentration than in soil samples collected pretreatment. Prior to IA implementation, four locations at the Property continued to exhibit CVOC concentrations over two orders of magnitude above the PCULs in the depth range treated by the ERH/SVE system: the area near the former western boiler room (near MW-133), the area near the former loading dock (near MW-135), the area at the western end of the northern sewer line (at B-242), and the southeast corner of the Property:

1. **Near the Former Western Boiler Room.** The area just south of the former western boiler room contained Sump No. 8, a drain, and a utility trench, one or more of which may have allowed transport of PCE into the subsurface. The former dry cleaning machines that used PCE were reportedly in the floor above, located on the first floor just to the east of the former western boiler room. PCE was detected at 3.62 mg/kg in the sample collected at 20 feet bgs (elevation of 20 feet) in MW-133 and elsewhere in the area, including:

    - B-243: between 6.12 and 25.3 mg/kg in samples collected between 10 and 35 feet bgs (elevations between 29.9 and 4.9 feet);

- IW-46B: at 20.1 and 5.63 mg/kg in samples collected at 25 and 30 feet bgs (elevations 26.8 and 21.8 feet); and

- MW-152: at 6.12 and 1.23 mg/kg in samples collected at 15 and 35 feet bgs (elevations 25.0 and 5.0 feet) in MW-152.

Additional borings drilled south of the area treated by the ERH/SVE system also found soil with PCE over two orders of magnitude above the PCUL, including:

- B-217: up to 152 mg/kg at 42 feet bgs, elevation 9.8 feet;

- B-235: between 2.24 and 20.7 mg/kg in samples collected between 40 and 45 feet bgs (elevations between 11.8 and 6.8 feet);

- B-236: up to 16,400 mg/kg at 42.5 feet bgs, elevation 9.3 feet;

- B-237: up to 24.1 mg/kg (estimated) at 42 feet bgs, elevation 9.8 feet;

- DB11: up to 15 mg/kg at 45 feet bgs, elevation 6.8 feet; and

- IW-51A: up to 5.20 mg/kg at 25 feet bgs, elevation 26.9 feet.

Near the former boiler room, PCE was detected over two orders of magnitude above the PCUL below the depth range treated by the ERH/SVE system at B-211, B-243, B-235, DB10, IW-46B, IW-48B, IW-50A, and MW-152; the maximum PCE concentration at depth in this area was 691 mg/kg in MW-133 at 58 feet bgs (elevation -25.0 feet), with a maximum depth with PCE over two orders of magnitude above the PCUL of 85 feet (elevation -45 feet) in MW-133. Soil PCE concentrations at this level were bounded in B-211 (undetected at 0.000320 mg/kg at 100 feet bgs, elevation -60.3 feet), B-243 (0.00378 mg/kg at 70 feet bgs, elevation -30.1 feet), MW-133 (0.00127 mg/kg at 95 feet bgs, elevation -55.0 feet), B-217 (undetected at 0.000319 mg/kg at 115 feet bgs, elevation -63.2 feet), and DB11 (0.16 mg/kg at 55 feet bgs, elevation -3.2 feet).

2. **Area Near the Former Loading Dock.** PCE concentrations ranged from 1.01 to 933 mg/kg in soil samples collected between 0 and 40 feet bgs (above elevation 0 feet) in B-220 through B-222 and MW-135. PCE was detected over two orders of magnitude above the PCUL below the depth range treated by the ERH/SVE system at:

    - B-206: 17.2 and 9.95 mg/kg at 49 and 56 feet bgs, elevations -9.9 and -16.9 feet, respectively;

    - B-218: 2.01 mg/kg at 50 feet bgs, elevation -11.9 feet;

    - B-220: 18.5 mg/kg at 50 feet bgs, elevation -11.1 feet;

    - B-221: up to 8,270 mg/kg between 45 and 60 feet bgs, elevation -6.0 to -21.0 feet;

    - B-222: 4.09 mg/kg at 50 feet bgs, elevation -10.8 feet;

- B-241: up to 28.3 mg/kg between 50 and at 65 feet bgs, elevation -10.9 to -25.9 feet;
- IW-8C: up to 105 mg/kg between 40 and 70 feet bgs, elevation -2.5 to -32.5 feet;
- IW-11D: 2.23 mg/kg at 70 feet bgs, elevation -31.8 feet; and
- MW-135: 69.7 and 8.68 mg/kg at 45 and 55 feet bgs, elevation -5.9 and -15.9 feet, respectively.

Although B-218, B-220, and B-222 were not drilled deep enough to bound the base of soil PCE at this concentration level, soil PCE concentrations at this level were bounded in B-206 (estimated 0.00566 mg/kg at 59 feet bgs, elevation -19.9 feet), B-221 (estimated 0.0853 mg/kg at 70 feet bgs, elevation -31.0 feet), IW-8C (0.085 mg/kg at 75 feet bgs, elevation -37.5 feet), IW-11D (0.0140 mg/kg at 75 feet bgs, elevation -36.8 feet), and MW-135 (0.190 mg/kg at 65 feet bgs, elevation -25.9 feet).

PCE was also detected over two orders of magnitude above the PCUL outside of the ERH/SVE treatment area at B-223 through B-230, B-232, B-233, B-238, B-240, IW-1C, IW-2C, IW-3C, and IW-8B, with soil PCE concentrations up to 5,560 mg/kg (B-223 at 30 feet bgs, elevation 9.1 feet). Most of these borings (B-223, B-226, B-227, B-229, B-230, B-232, B-233, and B-238) were not drilled deep enough to bound the base of soil PCE at this concentration level, but soil PCE concentrations at this level were bounded in B-224 (60.5 feet bgs, elevation -21.4 feet), B-225 (36 feet bgs, elevation 3.1 feet), B-228 (36 feet bgs, elevation 3.1 feet), B-240 (42 feet, elevation -2.8), IW-1C (65 feet bgs, elevation -25.9 feet), IW-2C (55 feet bgs, elevation -18.9 feet), and IW-8B (40 feet bgs, elevation -0.8 feet).

3. **Area at the Western End of the Northern Sewer Line.** PCE concentrations in the depth range treated by the ERH/SVE system were over two orders of magnitude above the PCUL in B-242, ranging from 1.97 to 6.61 mg/kg between 15 and 25 feet bgs (elevation 23.8 and 13.8 feet). These concentrations were bounded vertically by a PCE concentration of 0.205 mg/kg at 30 feet bgs (elevation 8.8 feet).

4. **Area at the Southeast Corner of the Property.** PCE concentrations in two borings drilled in this area (B-246 and DB09) were over two orders of magnitude above the PCUL. PCE ranged from 4.07 to 12.7 mg/kg between 25 and 40 feet bgs (elevation 14.9 and -0.1 feet) and were 6.1 and 1.3 mg/kg at 30 and 40 feet bgs (elevation 10 and 0 feet) in DB09. These concentrations were bounded vertically in B-246 at 43 feet bgs (elevation -3.1 feet) and in DB09 at 50 feet bgs (elevation -10 feet).

CVOCs (primarily PCE, TCE, and cDCE) were above the PCULs in multiple samples collected below the volume treated by the ERH/SVE system in many other borings, including B-203, B-205, B-206, B-207, B-218, B-244, DB03, DB05 through DB08, IW-21B, MW101, MW130, MW131, MW-132, MW-133, MW-134, W-MW-03, and W-MW-04.

GRO and BTEX results were generally not detected above the MDLs in the samples collected after operation of the ERH/SVE system. Detections were generally below the PCULs, except for:

- B-203: GRO (168 mg/kg) and benzene (0.0358 mg/kg) at a depth of 5 feet bgs (elevation 34.2 feet), and benzene (0.00561 mg/kg) at a depth of 40 feet bgs (elevation -0.8 feet);
- B-205: GRO (274 mg/kg), benzene (0.304 mg/kg), toluene (0.372 mg/kg, estimated), ethylbenzene (4.74 mg/kg), and total xylenes (6.02 mg/kg) at 10 feet bgs (elevation 30.3 feet);
- B-216: benzene (0.0221 mg/kg) at a depth of 55 feet bgs (elevation -3.1 feet);
- B-233: benzene (0.00770 mg/kg) at 21 feet bgs (elevation 14.5 feet);
- B-241: total xylenes (4.11 mg/kg) at 5 feet bgs (elevation 34.1 feet);
- B-244: benzene (0.00411 mg/kg) at 5 feet bgs (elevation 33.8 feet);
- IW-7A: benzene (0.0122 mg/kg) at 5 feet bgs (elevation 35.1 feet); GRO (253 mg/kg) and benzene (0.0433 mg/kg) at 10 feet bgs (elevation 30.1 feet); GRO (108 mg/kg) and benzene (0.279 mg/kg) at 15 feet bgs (elevation 25.1 feet); and benzene (0.00723 mg/kg) at 20 feet bgs (elevation 20.1 feet);
- IW-11D: benzene (0.00456 mg/kg) at 10 feet bgs (elevation 28.4 feet);
- IW-16D: benzene (0.00321 mg/kg, estimated) at 85 feet bgs (elevation -45.6 feet);
- IW-27B: benzene (0.00393 mg/kg) at 15 feet bgs (elevation 27.0 feet);
- MW-132: GRO (126 mg/kg) at 55 feet bgs (elevation -14.9 feet);
- MW-133: GRO (38.9 mg/kg) at 55 feet bgs (elevation -14.9 feet); GRO (387 mg/kg) at 58 feet bgs (elevation -17.9 feet); toluene (0.580 mg/kg) at 85 feet bgs (elevation -44.9 feet); and benzene (0.00369 mg/kg) at 135 feet bgs (elevation -94.9 feet); and
- MW-135: GRO (641 mg/kg) at 14 feet bgs (elevation 25.1 feet);

The toluene detection above the PCUL in MW-133 was coincident with a PCE detection above 1 mg/kg. Most of the soil above the GRO and BTEX PCULs was excavated during Property redevelopment, with the remainder in areas treated by the IA (IW-16D and MW-133).

After IA ISCO and EVO Injections. PCE and TCE concentrations were mostly above the PCULs in the 31 soil samples collected from 22 contingent action injection wells but below the PCULs in the 11 soil samples collected from 9 IA monitoring wells. The sampled wells were located near the former western boiler room (CA-D1, CA-D2, CA-D3, and MW-180), the former loading dock (CA-A10, CA-A12, CA-B10, CA-B11, CA-C8, CA-C9, CA-C10, CA-C13, CA-D5, CA-D6, CA-D7, MW-171, and MW-172), the former western sewer line

(CA-C1 and CA-C2), the southwest corner of the Property (CA-B8, CA-C7, CA-D4, MW-181, MW-183, and MW-184), the northeast portion of the Property (CA-B18 and MW-168), near the former eastern sewer line (MW-175), and the southeast corner of the Property (CA-B19, CA-B20, and MW-188). VC and cDCE were detected above the PCULs to a much lesser extent than PCE and TCE. The maximum PCE, TCE, cDCE, and VC concentrations in the soil samples collected from the contingent action injection wells were 1,220, 3.26, 3.26, and 0.292 mg/kg, respectively, at 20 feet bgs (approximately elevation -9 feet) in CA-B10 (former loading dock area). The maximum PCE, TCE, cDCE, and VC concentrations in soil samples collected from the IA monitoring wells were 8,960, 28.7, 30.5, and 0.515 mg/kg, respectively, at 24 feet bgs (elevation -12.2 feet) in MW-180 (south of the former western boiler room). Petroleum hydrocarbon constituents were not reported in the soil analyses conducted after IA ISCO and EVO injections at the Property.

Property Soil Summary. PCE and TCE were the primary CVOCs detected in soil above the PCULs in all four water-bearing zones. In the Shallow Zone, soil CVOC PCUL exceedances were located in the areas near the former western boiler room, the former loading dock, the northern sewer line, and the southeast corner of the Property. CVOC PCUL exceedances in the Intermediate A and B Zones were located in the same areas on the Property, with decreasing areas on the Property above the PCULs with depth (centered on the areas near the former western boiler room and former loading dock). In the Deep Zone, CVOC PCUL exceedances were limited to a narrow southwest-northeast trending swath across the Property centered on the areas near the former western boiler room and former loading dock, with PCUL exceedances primarily near the top of the Deep Zone. Petroleum-related exceedances of the PCULs in soil were primarily detected in the Shallow Zone within the northeastern portion of the property. As noted above, most of the soil above the GRO and BTEX PCULs was excavated during Property redevelopment and the remaining exceedances were treated by the IA.

5.3.2.2 Soil Outside the Property

As discussed in Sections 4.1, 4.3, and 4.4, approximately 1,390 soil samples were collected during various Site investigations conducted outside of the Property, including:

- During investigations conducted as early as 1989;
- Prior to the ERH/SVE independent action in 2013;
- As part of the investigation conducted between 2017 and early 2019 to design the IA:
- During the 2019 installation of the PRB injection wells;
- During the RI in 2019 and 2020; and
- During the 2019 and 2020 investigations conducted at the Seattle DOT Dexter Parcel and Seattle DOT Mercer Parcels properties.

All of the results have been incorporated into the RI, and following is a summary of the vadose zone and saturated zone sample results from these investigations. The off-Property soil data are presented in Tables G-2 through G-4 in Appendix G.

Forty-two analytes were detected at least once above their MDLs in the more than 500 vadose zone samples collected during off-Property Site investigations. Eight analytes were detected at least once above their respective PCULs in the vadose zone soil samples collected off Property, including four CVOCs (PCE, TCE, cDCE, and methylene chloride) and four petroleum hydrocarbons (GRO, benzene, 1,2,4-TMB, and 1,3,5-TMB). These eight compounds are discussed below by chemical category.

Forty-five analytes were detected at least once above their MDLs in the almost 900 off-Property saturated zone soil samples. Twenty-seven analytes were detected at least once above their respective PCULs in the off-Property saturated zone soil samples, including 9 CVOCs (PCE, TCE, cDCE, tDCE, VC, 1,1-DCE, 1,2-dichloropropane, EDC, and methylene chloride), 15 petroleum-related hydrocarbons (GRO, benzene, ethylbenzene, toluene, total xylenes, 1,2,3-TMB, 1,2,4-TMB, 1,3,5-TMB, 1,3-dichlorobenzene, chlorobenzene, isopropylbenzene, naphthalene, n-butylbenzene, n-propylbenzene, and sec-butylbenzene), and three other compounds (acetone, hexane, and 2-hexanone). These 27 compounds are discussed below by chemical category, except 1,2-dichloropropane and 2-hexanone, which were each only detected once above their respective PCULs, and acetone and hexane, which were each only detected twice above their respective PCULs. 1,2-dichloropropane was detected at 0.0341 mg/kg at 95 feet bgs (elevation -61.3 feet) in MW-336 north of Mercer Street between 9th Avenue North and Westlake Avenue North. 2-hexanone was detected at 0.0243 mg/kg (estimated) at 62 feet bgs (elevation -10.22 feet) in MW-346 in the northwest quadrant of the Seattle DOT Mercer Parcels. Acetone was detected at 2.72 mg/kg at 10 feet bgs (elevation 20.4 feet) in MW-309 in the alley between 8th Avenue North and 9th Avenue North and at 3.86 mg/kg (estimated) at 70 feet bgs (elevation -35.4 feet) in MW-323 on 9th Avenue North. Hexane was detected at 3.06 mg/kg at 11 feet bgs (elevation 20.2 feet) in MW-331 at the north end of the alley between 8th Avenue North and 9th Avenue North and at 2.77 mg/kg at 41 feet bgs (elevation 17.8 feet) in MW-350 in the northwest quadrant of the Seattle DOT Mercer Parcels. The 2-hexanone PCUL exceedance was from a sample with PCE exceeding the PCUL, and all four of the acetone and hexane PCUL exceedances were from samples with petroleum hydrocarbon PCUL exceedances. The boring containing the 1,2-dichloropropane PCUL exceedance also contained saturated soil samples with PCE, TCE, and cDCE PCUL exceedances.

Vadose Zone CVOCs. Figures 29 through 32 depict the locations with vadose zone soil PCE, TCE, cDCE, and VC concentrations relative to the PCUL. PCE exceeded the vadose zone PCUL in 26 vadose zone soil samples collected between 1 and 10 feet bgs from soil borings, monitoring well borings, and perimeter injection well borings immediately adjacent to the Property and ROW utility trenching locations along the west side of 8th Avenue North, along Roy Street north of the Seattle DOT Mercer Parcels, along the east side of Dexter Avenue North, and along the south side of Valley Street. The maximum PCE concentration was 2.44 mg/kg in B-277 (9.5 feet bgs) located on the west side of 8th Avenue North. TCE was detected in soil above the vadose zone PCUL in 3 samples co-located with PCE PCUL exceedances. The TCE PCUL exceedances were in samples collected between 6 and 9.5 feet bgs from soil and perimeter injection well borings along the west side of 8th Avenue North. The maximum TCE concentration was 0.969 mg/kg in B-277 (9.5 feet bgs). The vadose zone cDCE PCUL was exceeded in only one sample co-located with exceedances of PCE and TCE (0.192 mg/kg at 9.5 feet bgs from soil boring B-277).

Methylene chloride was detected above the vadose zone PCUL in 11 samples collected from five soil and monitoring well borings at the Seattle DOT Mercer Parcels from 5 to 20 feet bgs (HMW-11IB, MBB-16, MBB-18, MBB-20, and MBB-21). Exceedances of methylene chloride were not co-located with detections of any other CVOCs. Prior to the 2017 through 2021 sampling period, PCE, TCE, and cDCE were not detected in vadose zone soil off Property. methylene chloride results are not available in vadose zone soil off Property prior to the sampling period.

Vadose Zone Petroleum Hydrocarbons. GRO was detected above the PCUL in 10 samples: 7 samples were located 5 to 20 feet bgs in the northwest quadrant of the Seattle DOT Mercer Parcels in soil and monitoring well borings HMW-18S, MBB-1, MBB-3, MBB-4, MBB-16, and MBGW-13; one in the southeast quadrant at 10 feet bgs at the Seattle DOT Dexter Parcel in monitoring well boring DMW-2S; one in the alley east of the Seattle Roy Aloha Shops at 7 feet bgs in monitoring well boring MW-331; and one along Valley Street at 2 feet bgs in soil boring B-270. MBB-16 had the maximum GRO detection (1,200 mg/kg at 5 feet bgs). Detections of 1,2,4-TMB exceeded the vadose zone PCUL in five samples from 5 to 20 feet bgs collected in soil borings in the northwest quadrant of the Seattle DOT Mercer Parcels (maximum detection of 15 mg/kg at 10 feet bgs in MBGW-13) and were co-located with detections of GRO above the vadose zone PCUL, when analyzed for, in MBB-1, MBB-3, MBB-16, and MBGW-13. Detections of 1,3,5-TMB exceeded the vadose zone PCUL in two samples at 5 and 10 feet bgs (maximum detection of 5.7 mg/kg at 10 feet bgs in MBGW-13), co-located with detections above their respective PCULs of GRO and 1,2,4-TMB in MBB-16 and MBGW-13, respectively.

Benzene was detected above the vadose zone PCUL in 18 samples from 1 to 7 feet bgs in soil samples collected from soil borings and utility line trenching in the right of ways along Valley Street, 8th Avenue North, Roy Street, and along the alley east of the Seattle Roy Aloha Shops, with a maximum detection of 3.5 mg/kg at 2 feet bgs in B-294 (located on the west side of 8th Avenue North).

Saturated Zone CVOCs. Figures 29 through 32 depict the locations with saturated zone soil PCE, TCE, cDCE, and VC concentrations relative to the PCUL. As discussed in the RIWP and IAWP, detections of PCE and its breakdown compounds TCE, cDCE, and VC off Property were generally lower than those collected within the Property, with most PCUL exceedances found in borings drilled adjacent to the Property boundaries or downgradient along the alley east of the Seattle Roy Aloha Shops (Figures 29 through 32). PCUL exceedances of PCE and/or at least one of its breakdown compounds at the south end of Lake Union Park in MW-341, along the south side of Valley Street in MW-343, along the north side of Mercer Street in MW-326 and MW-336, and at the southwest quadrant of the Seattle DOT Mercer Parcels in MW-349 define the lateral extent of CVOCs above the PCULs in saturated zone soil. Detections of CVOCs greater than their respective PCULs occurred in the Shallow, Intermediate A, Intermediate B, and Deep Zones. Detections of CVOCs exceeding their respective PCULs occurred the deepest for PCE and TCE (exceedances down to elevation -86.2 feet in MW-161 along 8th Avenue North), with decreasing depths for the exceedance of cDCE (exceedances down to elevation -75.7 feet in MW-329 along the east side of Westlake Avenue North) and VC (exceedances down to elevation -64.4 feet along the west side of 9th Avenue North in MW-323).

The following bullets summarize the detections of PCE and its breakdown compounds in saturated soil during off-Property investigations:

- **PCE:** detected above the PCUL in 186 samples from 9 to 130 feet bgs (elevation 37.3 to -86.2 feet), with a maximum concentration of 19 mg/kg at 35 feet bgs (elevation 8.8 feet) in monitoring well boring MW107 on 8th Avenue North;

- **TCE:** detected above the PCUL in 165 samples from 9 to 130 feet bgs (elevation 34 to -86.2 feet), with a maximum concentration of 3.57 mg/kg at 30 feet bgs (elevation 11.1 feet) in monitoring well boring MW-158 on the 8th Avenue North;

- **cDCE:** detected above the PCUL in 224 samples from 12.5 to 110 feet bgs (elevation 32.9 to -75.7 feet), with a maximum concentration of 6.55 mg/kg at 41 feet bgs (elevation 13.0 feet) in monitoring well boring MW-348 in the southwest quadrant of the Seattle DOT Mercer Parcels;

- **tDCE:** detected above the PCUL in two samples from 10 and 35 feet bgs (elevations 31.8 and 7.9 feet, respectively) in two perimeter injection well borings on 8th Avenue North (PRB-B2/PRB-D2 and PRB-B5/PRB-D5, respectively) and was co-located with detections of PCE, cDCE, and/or VC each above their respective PCULs. The maximum tDCE detection was 0.0482 mg/kg at 35 feet bgs (elevation 7.9 feet) in well boring PRB-B5/PRB-D5; and

- **VC:** detected above the PCUL in 79 samples from 10 to 99 feet bgs (elevation 31.8 to -64.4 feet), with a maximum concentration of 0.789 mg/kg at 40 feet bgs (elevation 9.5 feet) in well boring PRB-B16/PRB-D16 located on the north side of Roy Street south of the Property.

Generally, concentrations of PCE and its breakdown compounds decreased further east and further south of the Property. Detections of PCE and its breakdown compounds above their respective PCULs generally occurred in samples at increasing depths moving away from the Property, as shown for PCE on Figures 33 through 40.

1,1-DCE was detected above the PCUL in 10 samples co-located with detections of PCE, TCE, cDCE, and/or VC each above their respective PCULs. These samples were collected from 35 to 65 feet bgs (elevation 13.0 to -21.9 feet) from soil borings B-215 on the north side of Roy Street; monitoring well boring MW-160 and perimeter injection well borings PRB-A9/PRB-C9, PRB-B6/PRB-D6, PRB-B16/PRB-D16, on the west side of 8th Avenue North; monitoring well borings MW-311 ad MW-314 in the alley; and monitoring well borings MW-347 and MW-348 in the northwest and southwest quadrants, respectively, of the Seattle DOT Mercer Parcels, with a maximum concentration of 6.27 mg/kg in MW-160 (elevation -12.5 feet).

Methylene chloride was detected in five samples above the saturated zone PCUL from 19 to 75 feet bgs (elevation 17.2 to -35.4 feet) from soil borings at the Seattle DOT Mercer Parcels (MBB-22 and MBB-23), a monitoring well boring in the alley (MW-311), and monitoring well borings along the west side of 9th Avenue North (MW-320 and MW-323).

A sample collected at 70 feet bgs (elevation -35.4 feet) from the well boring for MW-323 contained the maximum methylene chloride concentration of 1.15 mg/kg (estimated).

The two detections of EDC above the saturated zone PCUL were located in one perimeter injection well PRB-A9/PRB-C9 along 8th Avenue North at 32 feet bgs (elevation 11.1 feet) and in monitoring well boring MW-309 in the alley at 45 feet bgs (elevation -14.6 feet). The MW-309 sample had the maximum EDC concentration of 0.0128 mg/kg.

Saturated Zone Petroleum Hydrocarbons. The fourteen petroleum hydrocarbons detected at least once above their respective PCULs included GRO (9 samples), benzene (73 samples), ethylbenzene (19 samples), toluene (15 samples), total xylenes (18 samples), 1,2,3-TMB (6 samples), 1,2,4-TMB (6 samples), 1,3,5-TMB (4 samples), chlorobenzene (1 sample), isopropylbenzene (4 samples), naphthalene (4 samples), n-butylbenzene (4 samples), n-propylbenzene (5 samples), and sec-butylbenzene (3 samples).

Off Property, GRO was detected above the PCUL in 9 samples from 9 soil borings and monitoring well borings drilled near former USTs: along the east side of Dexter Avenue North (B-212), the alley east of the Seattle Roy Aloha Shops (MW-309 and MW-331), along the west side of 9th Avenue North (MW-320), at the south end of 900 Roy Street (MW-334), at the southeast corner of the Seattle DOT Dexter Parcel (DMW-1S and DMW-4S), and in the northwest quadrant of the Seattle DOT Mercer Parcels (MBB-3). The maximum detection of GRO for the Site was 1,200 mg/kg in DMW-1S at 12.5 feet bgs (elevation 34.5 feet). GRO was detected above the PCUL predominantly in Shallow Zone samples collected from 10 to 25 feet bgs (elevations 36.8 to 15.1 feet).

Benzene was detected above the PCUL in 73 off-Property saturated zone soil samples collected from 10 to 108 feet bgs (elevations 33.1 to -80.4 feet) in perimeter injection well borings and monitoring well borings. The maximum detection of benzene off Property was 10 mg/kg at 17.5 feet bgs (elevation 22.5 feet) in monitoring well boring MW-1/SCLB-3 located at the north end of the Seattle Roy Aloha Shops property. Consistent with groundwater detections above the PCUL, benzene detected above the PCUL in soil samples occurred at deeper sampling elevations moving farther away from the Property: in the Shallow Zone from elevations 32.7 to 27.7 feet along 8th Avenue North; in the Shallow Zone to the Intermediate A and Intermediate B Zones from elevations 20.4 to -30.3 feet along the north end of the alley east of the Seattle Roy Aloha Shops and along 9th Avenue North; and in the Intermediate B and Deep Zones from elevations -0.7 to -75.6 feet along Westlake Avenue North and at the south end of Lake Union Park. Benzene also exceeded the PCUL in soil samples along Valley Street in MW-343 in the Shallow and Intermediate A Zones (from elevations of 17.6 to 3.6 feet) and in the Deep Zone (from elevations of -78.4 to -80.4 feet).

Ethylbenzene, toluene, and total xylenes were detected above the PCULs in 19, 15, and 18 off-Property saturated zone soil samples collected between 11 and 41 feet bgs (elevations 34.5 to 6 feet), typically co-located with benzene PCUL exceedances. The maximum detections of ethylbenzene, toluene, and total xylenes were 54, 160, and 300 mg/kg, respectively, at 16.5 feet bgs (elevation 18.6 feet) in monitoring well boring MW-7 in the northern portion of the Seattle Roy Aloha Shops property.

Other petroleum hydrocarbons detected at least once above their respective PCULs included 1,2,3-TMB, 1,2,4-TMB, 1,3,5-TMB, chlorobenzene, isopropylbenzene, naphthalene, n-butylbenzene, n-propylbenzene, and sec-butylbenzene. These analytes were detected above their respective PCULs in one to six samples each primarily in the Shallow and Intermediate A Zones on and in the alley east of the Seattle Roy Aloha Shops (SCL borings and wells, MW-331, and MW-309), along the west side of 9th Avenue North (MW-320 and MW-323), south of 900 Roy Street (MW-334), in the northwest quadrant of the Seattle DOT Mercer parcels (MBB-3, HMW-19S, and MW-350), and at southeast corner of the Seattle DOT Dexter Parcel (DMW-1S).

5.3.3 Groundwater

This section provides a summary of all the analytical results for all on-Property and off-Property groundwater monitoring performed during the IA and RI investigations, from the first quarter of 2017 through the second quarter of 2021 ("the sampling period"). This report includes results for on-Property decommissioned monitoring wells in the Shallow, Intermediate A, Intermediate B, and Deep Zones; on-Property decommissioned ERH/SVE monitoring wells, on-Property decommissioned treatment zone wells; existing on-Property contingent action addendum ("CAA") monitoring wells; and off-Property monitoring wells. Wells for monitoring cleanup actions at Block 37, Block 38 West, Block 43, and Block 79 East are not included in the Property RI data set. Table 12 presents a summary of Site groundwater VOC detections for the sampling period, Table 14 summarizes PCE, TCE, cDCE, and VC results and concentration trends during the sampling period, Table 15 presents the groundwater natural attenuation parameters, Table 16 provides the groundwater field parameters, Table 17 presents the geochemical data used for natural attenuation screening, and Figures 41 through 44 present the 2021 distribution of CVOCs in the four water-bearing zones. Appendix G includes tables of the analytical results for groundwater samples collected during the investigations at the Site (Tables G-5 through G-10), and Appendix L provides the CVOC time-trend plots.

During the sampling period, 53 analytes were detected at least once above their respective MDLs. Only 13, however, were detected at least once above their respective PCULs (Table 12). CVOCs detected above their PCULs included PCE and its breakdown products (TCE, cDCE, tDCE, 1,1-DCE, and VC), chloroform, and methylene chloride. Petroleum hydrocarbons detected at least once above their PCULs included GRO, DRO, benzene, 1,2,3-TMB, and 1,2,4-TMB. As noted above, the summary statistics listed in Table 12 include all on-Property results from the sampling period, including decommissioned monitoring wells, ERH/SVE monitoring wells, and injection wells; existing CAA monitoring wells; decommissioned off-Property monitoring wells; and existing off-Property monitoring wells.

During analytical testing, high concentrations of CVOCs eluting in the same range as the GRO analyses can interfere with the GRO quantitation, yielding falsely elevated concentrations of GRO. When this occurs, the reporting laboratory may note that the GRO result does not match the laboratory standard for GRO. If the analytical laboratory noted elevated CVOC interference and a GRO result that did not match the laboratory standard for GRO, PES assigned an internal qualifier of "z" during data validation. GRO results above the groundwater screening level with "z" qualifiers are included in the overall groundwater chemical detection statistics but excluded as detections greater than the screening level. For more information about the data validation procedure of GRO results, refer to Appendix I.

PES evaluated the time trends of individual CVOC concentrations (PCE, TCE, cDCE, and VC) using the Mann-Kendall statistical method (GSI Mann-Kendall Toolkit, 2012).[14] The CVOCs were each evaluated individually for each well location where there were results for four or more sampling events by PES or other consultants during the sampling period. Non-detect sample values were substituted with one half the value of the sample laboratory detection limit. Table 14 includes the trend results, and Appendix L provides the toolkit input and trend analysis template.

To determine the potential for natural biodegradation in the CVOC plume, PES screened CVOC and MNA data (Tables 15 and 16) using the first step of the screening procedure outlined in EPA's technical protocol for evaluating natural attenuation of CVOCs (EPA, 1998). The process involved assigning values to the applicable natural attenuation data (alkalinity, chloride, ethane/ethene, ferrous iron, methane, nitrate, sulfate, TOC, pH, DO, ORP, and PCE breakdown products (TCE, cDCE, and VC)) that reflect the likely occurrence of natural biodegradation (Table 2.3, EPA, 1998). Table 17 provides the individual screening values for each well with MNA data, including a summary score for each well. PES highlighted the summary score indicating whether there is inadequate (blue), limited (green), adequate (gold), or strong (red) evidence of anaerobic biodegradation of CVOCs based on Table 2.4 (EPA, 1998). Beginning in the fourth quarter of 2020, select groundwater samples were analyzed for an abbreviated MNA list. The MNA score for abbreviated sampling locations was evaluated using the most recently available results for a location, as needed.

5.3.3.1 Property Groundwater

Shallow Zone

The following summarizes Property VOCs present prior to Property redevelopment since all Shallow Zone soil and groundwater at the Property was excavated and removed during the 2019 construction of the building foundation and parking garage.

CVOCs. Four CVOCs were detected at least once above their respective PCULs in the 29 Shallow Zone groundwater samples collected on the Property during the sampling period (prior to Property redevelopment), including PCE (11 samples, up to 285 µg/L), TCE (8 samples, up to 85.1 µg/L), cDCE (16 samples, up to 366 µg/L), and VC (26 samples, up to 90.6 µg/L). As discussed in the RIWP and IAWP, the highest detections of these CVOCs in Shallow Zone groundwater were in the southern half of the Property (wells F5, G12, J5, K8, and N7). Prior to the sampling period, the highest detections of PCE (150,000 µg/L), TCE (13,000 µg/L), cDCE (9,200 µg/L), and VC (170 µg/L) were in locations consistent with the results of the sampling period, with additional high detections above the PCULs further east on the Property in F9, F13, J15 and M15. tDCE, 1,1-DCE, chloroform, and methylene chloride were not detected above their respective PCULs in on-Property Shallow Zone groundwater prior to or during the sampling period, except for three detections of tDCE in 2013 at F5 (1,000 µg/L), F13 (85 µg/L), and G12 (88 µg/L).

[14] GSI Mann-Kendall Toolkit, Version 1.0, November 2012; downloaded from https://www.gsienv.com/software/data-management-and-stats-tool/data-management-tool/.

Petroleum Hydrocarbons. On Property, no petroleum hydrocarbons were detected above their respective PCULs during the sampling period in the Shallow Zone. GRO was not detected above the PCUL in the 15 samples collected without laboratory-noted CVOC interference. Prior to the sampling period, GRO was detected above the PCUL three times in R-MW2 (up to 4,200 µg/L), a monitoring well in the northeast quadrant of the Property downgradient of a former UST in 1992 and 2011. Benzene was detected in 18 of the 29 samples collected during the sampling period but was not detected above the PCUL. Prior to the sampling period, benzene was detected above the PCUL in three samples from R-MW2 (up to 684 µg/L) in 1992 and 2011, co-located with the detections of GRO above the PCUL. Groundwater results for GRO and benzene from 2018 in R-MW2 were non-detect or below the PCUL. Naphthalene, 1,2,3-TMB, and 1,2,4-TMB were not detected in Shallow Zone groundwater samples during the sampling period and results were not available prior to the sampling period. DRO was not analyzed in Shallow Zone groundwater samples collected from the Property during the sampling period. Prior to the sampling period, DRO and ORO were detected above the PCUL[15] in one or more samples (up to 26,000 µg/L DRO and up to 25,000 µg/L ORO) from R-MW1, R-MW2, and R-MW3 within the northeast quadrant of the Property in 1992 and 2011.

Intermediate A Zone

CVOCs. During the sampling period, 6 CVOCs were detected at least once above their respective PCULs in the 70 samples collected on the Property in the Intermediate A Zone (including Treatment Zone A wells that are screened between elevations +10 and -10 feet). CVOCs detected above their PCULs included PCE (23 samples, up to 29,400 µg/L), TCE (21 samples up to 8,050 µg/L), cDCE (39 samples up to 131,000 µg/L), tDCE (8 samples, up to 395 µg/L, estimated), 1,1-DCE (19 samples, up to 268 µg/L), and VC (69 samples, up to 11,000 µg/L). As discussed in the RIWP and IAWP, the highest detections of PCE, TCE, cDCE, tDCE, 1,1-DCE, and VC on the Property in Intermediate A groundwater were near the former loading dock (IW-4A, IW-9A, IW-18A, MW-149, and MW-165) and near the former western boiler room (IW-42A, IW-45A, MW-151, MW-177, and MW-181). Detections of 1,1-DCE and tDCE greater than their respective PCULs were each co-located in samples with detections of PCE, TCE, cDCE, and/or VC each above their respective PCULs. Prior to the sampling period, PCE, TCE, cDCE, tDCE, and VC exceeded their respective PCULs near the former western boiler room in monitoring well G-MW1 and near the original boiler room in the middle of the Property in G-MW3. G-MW1 and G-MW3 were decommissioned prior to the sampling period. Methylene chloride was not detected in groundwater samples during the sampling period and was not detected above the PCUL when analyzed for prior to the sampling period. Chloroform was not detected in Intermediate A groundwater on the Property above the PCUL during the sampling period and results were not available prior to the sampling period.

Petroleum Hydrocarbons. Petroleum hydrocarbons were not detected above their respective PCULs in the Intermediate A Zone samples collected on the Property during the sampling period nor in samples collected prior to the sampling period. As discussed above, this includes detected GRO results that were determined during data validation to be falsely elevated due to CVOC interference and not representative of the fuel standard. In the 41 samples analyzed for

[15] The groundwater PCUL of 500 µg/L applies to the total of DRO+ORO.

GRO on the Property in Intermediate A Zone groundwater, all detections were qualified as approximate values when detected below 100 µg/L and laboratory-qualified with noted CVOC interference or as having chromatographic patterns not resembling the relevant fuel standard for quantification when results were reported above 100 µg/L. Benzene was detected at low levels below the PCUL prior to and during the sampling period. Naphthalene, 1,2,3-TMB, and 1,2,4-TMB were not detected above their respective PCULs during the sampling period and results were not available prior to the sampling period. DRO was not analyzed in Intermediate A Zone groundwater samples collected from the Property during the sampling period. Prior to the sampling period, DRO was detected below the PCUL in two samples in 2011 from G-MW1 and G-MW3 near the former boiler rooms, noted as not resembling the fuel standard used for quantitation and co-located with elevated CVOC concentrations.

Geochemical Parameters. In the Intermediate A Zone on the Property, the average MNA screening score following Property IA injection activities indicated adequate or strong evidence of anaerobic biodegradation in the following monitoring wells (Table 17): MW-165, MW-166, MW-169, MW-170, MW-173, MW-174, MW-177, MW-178, MW-181, MW-182, MW-185, and MW-186.

Intermediate B Zone

CVOCs. Seven CVOCs were detected at least once above their respective PCULs in the 151 samples collected on the Property in the Intermediate B Zone during the sampling period (including Treatment Zone B and C wells that are screened between elevations -10 and -25 feet, and -25 and -40 feet, respectively). CVOCs detected above their PCULs included PCE (58 samples, up to 97,200 µg/L), TCE (61 samples, up to 20,100 µg/L), cDCE (89 samples, up to 127,000 µg/L), tDCE (23 samples, up to 781 µg/L), 1,1-DCE (55 samples, up to 240 µg/L), VC (138 samples, up to 31,200 µg/L), and methylene chloride (1 sample, 46.2 µg/L, estimated). As discussed in the RIWP and IAWP, the highest detections of these CVOCs in Intermediate B groundwater on the Property were near the former loading dock (in monitoring wells MW-135 and MW-150, injection wells IW-3B, IW-17B, IW-24B, IW-4C, IW-8C, and CAA monitoring well MW-166), near and south of the former western boiler room (in monitoring wells MW130 and MW-152; injection wells IW-37B, IW-47B, IW-15C, and IW-20C; and CAA wells MW-170 and MW-179) and near the original boiler room in monitoring well MW-132. CVOCs were also detected at elevated levels in the southwest quadrant of the Property in CAA wells MW-182 and MW-183; and in the center of the Property in injection wells IW-22B, IW-33B, and IW-9C. Detections of 1,1-DCE greater than the PCUL were co-located in samples with detections of PCE, TCE, cDCE, and/or VC each above their respective PCULs. Methylene chloride was detected once above the PCUL in Intermediate B Zone groundwater in MW-182. Prior to the sampling period, PCE, TCE, cDCE, 1,1-DCE and VC were detected above the PCULs in 2016 in MW130 and in 2012 in W-MW-03 and W-MW-04 (which were decommissioned prior to the sampling period). Chloroform was not detected above the PCUL prior to or during the sampling period.

Petroleum Hydrocarbons. None of the petroleum-related constituents were detected above their respective PCULs in the Intermediate B Zone groundwater samples on the Property. This includes detected GRO results that were determined during data validation to be falsely elevated due to CVOC interference and not representative of the fuel standard. All results for

GRO in Intermediate B Zone groundwater (92 samples) were qualified as approximate values when detected below 100 µg/L and laboratory-qualified with noted CVOC interference or as having chromatographic patterns not resembling the relevant fuel standard for quantification when results were reported above 100 µg/L. Benzene was detected at low levels below the PCUL prior to (when analyzed for) and during the sampling period. Naphthalene, 1,2,3-TMB, and 1,2,4-TMB were not detected above their respective PCULs during the sampling period and results were not available prior to the sampling period. DRO was not analyzed in any Intermediate B Zone groundwater samples collected from the Property during or prior to the sampling period.

Geochemical Parameters. Within the current limits of Intermediate B Zone CVOC plume on the Property, the average MNA screening score following IA injection activities indicated adequate or strong evidence of anaerobic biodegradation in the following monitoring wells (Table 17): MW-167, MW-171, MW-175, MW-179, and MW-183. One well (MW-187) indicated limited evidence of anaerobic biodegradation.

Deep Zone

CVOCs. Six CVOCs were detected at least once above their respective PCULs in the 75 samples collected in the Deep Zone on the Property during the sampling period (including Treatment Zone D wells that are screened between elevations -40 and -55 feet). CVOCs detected above their PCULs included PCE (37 samples, up to 64,100 µg/L), TCE (30 samples, up to 10,100 µg/L), cDCE (34 samples, up to 9,860 µg/L), 1,1-DCE (17 samples, up to 98.8 µg/L), VC (48 samples, up to 631 µg/L), and methylene chloride (1 sample, 9.02 µg/L, estimated). The highest detections of these CVOCs in deep groundwater monitoring wells on the Property were located near the center of the Property (in monitoring wells MW-162 and MW-163; injection wells IW-1D, IW-3D, and IW-11D; and CAA well MW-172) and near the former western boiler room (in monitoring well MW-164 and injections wells IW-8D and IW-9D). PCE, TCE, cDCE, and/or VC were also detected above their respective PCULs during the sampling period in MW-133, MW-137, and MW-141. Prior to the sampling period, only one Deep Zone groundwater location was sampled on the Property (MW101 in 2012). All CVOCs in MW101 were below the laboratory reporting limits. During the sampling period, methylene chloride was detected once above the PCUL in MW-184; it was not detected prior to the sampling period based on review of historical reports. tDCE and chloroform were not detected above their respective PCULs in Deep Zone groundwater samples on the Property during the sampling period, nor prior to the sampling period based on historically tabulated data.

Petroleum Hydrocarbons. None of the petroleum-related constituents were detected above their respective PCULs in the Deep Zone groundwater samples on the Property. All results for GRO (45 samples) in Deep Zone groundwater were qualified as approximate values when detected below 100 µg/L and laboratory-qualified with noted CVOC interference or as having chromatographic patterns not resembling the relevant fuel standard for quantification when results were reported above 100 µg/L. Benzene, naphthalene, 1,2,3-TMB, and 1,2,4-TMB were not detected above their respective PCULs in samples during or prior to the sampling period when they were analyzed. DRO was not analyzed in any Deep Zone groundwater samples collected from the Property during or prior to the sampling period.

Geochemical Parameters: In the Deep Zone on the Property, the average MNA screening score after IA injection activities indicated adequate or strong evidence of anaerobic biodegradation in one monitoring well (MW-180) and limited evidence of anaerobic biodegradation in five monitoring wells (MW-168, MW-172, MW-176, MW-184, MW-188, see Table 17).

5.3.3.2 Groundwater Outside the Property

Shallow Zone

CVOCs. During the sampling period, five CVOCs were detected at least once above their respective PCULs in the 179 samples collected off the Property in the Shallow Zone, including PCE (13 samples, up to 157 µg/L), TCE (10 samples, up to 45.2 µg/L), cDCE (7 samples, up to 75.1 µg/L), VC (34 samples, up to 43.9 µg/L), and chloroform (1 sample, at 20.9 µg/L). The CVOC plume in Shallow groundwater is defined by detections of at least one CVOC greater than its PCUL at the following locations:

- Along 8th Avenue North in MW-9 (PCE, TCE, cDCE, and VC), MW121 (VC only), MW-159 (VC only), and R-MW6 (cDCE and VC);
- Along the south side of Roy Street in MW-154 (PCE, TCE, and VC) and MW-155 (PCE, TCE, cDCE, and VC);
- At the Seattle DOT Mercer Parcels property in HMW-20S (VC only); and
- Along the south end of the alley east of the Seattle Roy Aloha Shops in MW-313 (VC only).

The lateral extents are defined by wells in the alley and on 9th Avenue North to the east, on the Seattle DOT Mercer Parcels to the south, on Dexter Avenue North to the west, and on Valley Street to the north (Figure 41). In March 2017, chloroform was detected above the PCUL in SCL-MW105 in the northern portion of the alley; this result, however, was anomalous as chloroform was not detected above the MDL in six samples from the well collected between March 2017 and July 2020.

Prior to the sampling period, PCE, TCE, cDCE, and VC were also detected above their respective PCULs in Shallow Zone groundwater within the plume south of the Property along Roy Street in R-MW4 (PCE and TCE only) and to the east of the Property along 8th Avenue North in MW-2, R-MW6, MW-9 (VC only), and MW121 (VC only). No CVOCs were detected above their PCULs upgradient to the north or to the west of the Property. tDCE, 1,1-DCE, methylene chloride, and chloroform were not detected above their respective groundwater PCULs off of the Property in the Shallow Zone during the sampling period or prior to the sampling period (when they were analyzed).

There were two CVOCs (chloroform and TCE) that were detected at least once in Shallow Zone groundwater outside of the Property that were greater than the shallow groundwater screening level for vapor intrusion but less than the established groundwater PCUL.

Chloroform was detected once in R-MW5 at 1.28 µg/L in April 2019, which is above the shallow groundwater screening level for vapor intrusion of 1.2 µg/L but below the PCUL of 14 µg/L. TCE was detected twice in R-MW6 at 3.17 µg/L in March 2017 and 2.24 µg/L in April 2018, which are above the shallow groundwater screening level for vapor intrusion (1.4 µg/L) and below the PCUL (4 µg/L). Subsequent concentrations of chloroform at R-MW5 and TCE at R-MW6 have remained below the groundwater screening levels for vapor intrusion.

Petroleum Hydrocarbons. In the Shallow Zone, GRO, DRO, benzene, 1,2,3-TMB, and 1,2,4-TMB were detected off of the Property above their respective PCULs. GRO was detected above the PCUL (up to 2,190 µg/L, estimated) in 4 of the 81 samples collected during the sampling period. Detections of GRO greater than the PCUL in Shallow Zone groundwater were limited to SCS-2, a monitoring well at the north end of the Seattle Roy Aloha Shops and DMW-1S, a monitoring well located at the Seattle DOT Dexter Parcel. Prior to the sampling period, GRO was detected above the PCUL in 16 of 48 samples located along the north end of and along the alley east of the Seattle Roy Aloha Shops in MW-1, MW-3, MW-4, MW-6, and MW-7. The highest detection of GRO (150,000 µg/L) was in MW-6 in 1993. In Shallow Zone groundwater outside the Property, benzene was detected above the PCUL (up to 257 µg/L) in 21 of the 179 samples analyzed during the sampling period. Detections of benzene above the PCUL were in SCS-2, at the north end of the Seattle Roy Aloha Shops, and SCL-MW101 and SCL-MW105, along the alley east of the Seattle Roy Aloha Shops. Prior to the sampling period, benzene was detected above the PCUL in 27 of 56 samples located along the north end of the Seattle Roy Aloha Shops and in the alley east of it (in MW-1, MW-2, MW-3, MW-4, MW-6, MW-7, and MW-8); and along 8th Avenue North (in MW-5 and MW-9). The highest detections of benzene (20,000 µg/L) were in MW-1 and MW-7 during sampling events in 1993. 1,2,3-TMB and 1,2,4-TMB were detected above their respective PCULs (up to 119 µg/L and 157 µg/L, respectively) in two samples. The two exceedances of 1,2,3-TMB and 1,2,4-TMB during the sampling period were co-located in SCS-2, east of the Seattle Roy Aloha Shops. 1,2,3-TMB and 1,2,4-TMB were not analyzed for or not reported prior to the sampling period, based on review of historical reports.

Three petroleum hydrocarbons (benzene, hexane, and naphthalene) were detected in shallow groundwater outside the property at values greater than their shallow groundwater screening levels for vapor intrusion and below their respective PCUL values. Benzene was detected above the shallow groundwater screening level for vapor intrusion of 2.4 µg/L in one sample from DMW-1S at the Seattle DOT Dexter Parcel at 2.9 µg/L, and below the PCUL of 5 µg/L. Benzene at this location is upgradient of the historical petroleum release on the American Linen Property and appears to be associated with the Seattle DOT Dexter Parcel cleanup site. Hexane was detected in 8 samples above the shallow groundwater screening level for vapor intrusion of 8 µg/L but below the PCUL of 480 µg/L in SCL-MW105 and SCS-2 at concentrations ranging from 12.5 to 65.1 µg/L. In SCL-MW101 and SCS-2, naphthalene was detected above the shallow groundwater screening level for vapor intrusion (8 µg/L) but below the PCUL (160 µg/L) in 9 samples, ranging from 9.28 to 115 (estimated) µg/L. These detections of hexane and naphthalene are likely attributed to historical releases of petroleum hydrocarbons at Seattle Roy Aloha Shops.

Consistent with the RIWP and the IAWP, current residual petroleum hydrocarbons in Shallow Zone groundwater near the Property appear to be minimal.

CVOC Time Trends. During the sampling period, groundwater CVOCs in the Shallow Zone were generally quantitatively stable or decreasing (Table 14). Mann-Kendall analysis results for CVOC concentrations in groundwater in the Shallow Zone indicated decreases of CVOC concentrations or non-detect concentration stability for at least one CVOC in FMW-143, MW-8, MW-9, MW121, MW125, MW-154, MW-159, MW-210, MW-214, MW-301, MW-305, MW-310, MW-312, MW-320, MW-332, MW-337, MW-339, R-MW5, R-MW6, SCL-MW101, SCL-MW105, and SCS-2. PCE and TCE in MW-155 (located southeast of the Property) were the only CVOCs in Shallow Zone groundwater with statistical evidence of increasing concentrations. PCE and TCE concentrations in MW-155 began increasing within one year of well installation (coinciding with Property redevelopment activities), were qualitatively stable between the third quarter of 2019 and the third quarter of 2020 (coinciding with on-Property dewatering), and appear to be decreasing since the third quarter of 2020. Additional sampling events, however, are required to statistically assess the concentration trends of PCE and TCE in MW-155.

Geochemical Parameters. In the Shallow Zone, the average MNA screening score following IA injection activities indicated adequate or strong evidence of anaerobic biodegradation in MW-9, MW-159, and R-MW6 (Table 17), located immediately downgradient of the Property along 8th Avenue North (Figure 45). Screening scores in MW-337, MW-339, and R-MW5 also indicated geochemical evidence of adequate anaerobic biodegradation, however these three locations are beyond the extent of the CVOC plume. Within the extent of the CVOC plume and further downgradient from the Property, geochemical screening results for MW-154, MW-155, and MW-313 indicated limited evidence of anaerobic biodegradation. Beyond the extent of the CVOC plume in FMW-143, MW125, MW-305, MW-310, MW-312, MW-320, and MW-332 there is limited or inadequate evidence of anaerobic biodegradation in the Shallow Zone.

Intermediate A Zone

CVOCs. During the sampling period, 6 CVOCs were detected at least once above their respective PCULs in the approximately 260 samples collected off of the Property in the Intermediate A Zone, including PCE (72 samples, up to 4,190 µg/L), TCE (87 samples, up to 1,270 µg/L), cDCE (103 samples, up to 6,400 µg/L), 1,1-DCE (15 samples, up to 22.1 µg/L), VC (137 samples, up to 8,610 µg/L), and methylene chloride (4 samples, up to 50 µg/L). The maximum CVOC detections were in monitoring wells MW108 in the alley (PCE), MW-156 on the east side of 8th Avenue North (TCE), HMW-2IA and HMW-20IA on the Seattle DOT Mercer Parcels (methylene chloride and cDCE, respectively), MW107 in 8th Avenue North immediately adjacent to the Property (1,1-DCE), and MW-146 on the south side of Roy Street south of the Property (VC). Wells that defined the lateral extent of the CVOC plume within the Intermediate A Zone (Figure 42) included:

- MW-330 on Valley Street;
- MW127 on 8th Avenue North;

- MW-331 along the north side of the alley east of the Seattle Roy Aloha Shops;
- GEI-MW-1 at the eastern edge of Block 79 East;
- MW115, MW116, MW119, and MW-317 on 9th Avenue North;
- MW-315 and MW-325 on Mercer Street;
- MW-306 on Roy Street;
- HMW-3IA and HMW-6IA on the Seattle DOT Mercer Parcels; and
- MW-302 on Dexter Avenue North.

1,1-DCE was detected above the PCUL in monitoring wells within the extent of the CVOC plume and co-located with detections of PCE, TCE, cDCE, and/or VC above their respective PCULs. Detections of methylene chloride above the PCUL occurred in HMW-2IA on the Seattle DOT Mercer Parcels, MW108 and MW110 in the alley, and MW-156 on 8th Avenue North.

Prior to the sampling period, detections of PCE, TCE, cDCE, and VC above their respective PCULs in Intermediate A Zone groundwater were within the lateral extent of the current CVOC map (Figure 42), with the exception of one detection of PCE in MW116 along the west side of 9th Avenue North during sampling in 2012. CVOCs in MW116 have been non-detect or below their respective PCULs in MW116 since 2013, serving to define the eastern extent of the CVOC plume in the Intermediate A Zone. Available historical data indicate that 1,1-DCE detections above the PCUL were co-located with detections of PCE, TCE, cDCE, and VC each above their respective PCULS and within the extent of the current CVOC plume. Prior to or during the sampling period, tDCE was not detected off the Property above the PCUL in Intermediate A Zone groundwater. Available historical data indicate that methylene chloride and chloroform were not detected above the PCUL in the Intermediate A Zone prior to the sampling period.

Petroleum Hydrocarbons. During the sampling period, benzene was detected in 96 of the 257 Intermediate A Zone groundwater samples, with 9 detections above the PCUL (up to 46.6 μg/L). Detections of benzene above the PCUL were located along the alley east of the Seattle Roy Aloha Shops in monitoring wells MW108 and MW-308. Prior to the sampling period, benzene exceeded the PCUL once in 2014 in GEI-MW-2, which is located east of MW108 on Block 79 East. In Intermediate A Zone groundwater off of the Property, GRO was not detected above the PCUL in the 71 analyzed samples without laboratory noted CVOC interference during the sampling period or prior to the sampling period (15 samples). 1,2,3-TMB and 1,2,4-TMB were not detected above their respective PCULs during the sampling period. 1,2,3-TMB and 1,2,4-TMB were not analyzed for or not reported prior to the sampling period, based on review of historical reports.

CVOC Time Trends. During the sampling period, groundwater CVOCs in the Intermediate A Zone were generally quantitatively stable or decreasing (Table 14). Mann-Kendall analysis results for CVOC concentrations in groundwater in the Intermediate A Zone indicate decreases of CVOC concentrations or non-detect concentration stability for at least one CVOC in FMW-142, GEI-1, GEI-MW1, MW108, MW109, MW110, MW115, MW116, MW119, MW120, MW127, MW-144/MW-144R, MW-146, MW-156, MW-189, MW-302, MW-306, and MW-308.

Groundwater detections of PCE and TCE in BB-8, and cDCE and VC in MW-142 and MW-146 were the only CVOCs in the Intermediate A Zone with statistical evidence of increasing concentrations. Detections of PCE and TCE in BB-8 were relatively stable during sampling from the first quarter of 2017 through the second quarter of 2018 (coinciding with dewatering on Block 37), increasing through the fourth quarter of 2020, and then qualitatively decreasing since then. Additional sampling events, however, are required to statistically assess the concentration trends of PCE and TCE in BB-8.

Detections of cDCE and VC in MW-142 have been qualitatively increasing since the first quarter of 2019. During the fourth quarter of 2019, cDCE increased roughly one order of magnitude , shortly after dewatering began at the Property and Block 38 West. Concentrations of VC in MW-142 were roughly stable until the third quarter of 2020, peaked in the fourth quarter of 2020, and have been decreasing since the first quarter of 2021 with cDCE concentrations.

In MW-146, detections of cDCE and VC began increasing during the fourth quarter of 2019, shortly after dewatering began at the Property and Block 38 West. Concentrations of cDCE reached a maximum during the fourth quarter of 2020, and VC reached a maximum concentration during the third quarter of 2020. As concentrations of cDCE and VC were rising, concentrations of PCE and TCE were decreasing. PCE, TCE, cDCE, and VC concentrations in MW-146 have been decreasing since the first quarter of 2021.

Geochemical Parameters. In the Intermediate A Zone, the average MNA screening score following Property IA injection activities indicated adequate or strong evidence of anaerobic biodegradation in the following monitoring wells (Table 17):

- **Perimeter:** PRB-A1, PRB-A5, PRB-A11, PRB-A17, PRB-A19, PRB-A23, PRB-B1, PRB-B4, PRB-B11, PRB-B14, and PRB-B23; and

- **Off-Property:** HMW-9IA, HMW-20IA, MW107, MW108, MW109, MW110, MW115, MW119, MW-142, MW-144/MW-144R, MW-146, MW-156, MW-189, MW-308, and MW-344 located generally adjacent to and downgradient of the Property (Figure 45).

Beyond the extent of the CVOC plume, there was also adequate geochemical evidence for anaerobic biodegradation of CVOCs in FMW-142, GEI-MW-1, MW116, MW-317, MW-327, and MW-333. The screening results for other wells beyond the limits of the CVOC plume (GEI-1, MW127, MW-302, MW-306, MW-315, MW-325, MW-330, and MW-331) indicated limited or inadequate evidence of anaerobic biodegradation. MNA screening scores for five locations within the CVOC plume (BB-8, MW120, PRB-A14, PRB-B17, and PRB-B19) indicated limited evidence of anaerobic biodegradation.

Intermediate B Zone

CVOCs. During the sampling period, 6 CVOCs were detected at least once above their respective PCULs in the approximately 216 samples collected in Intermediate B Zone groundwater, including PCE (24 samples, up to 660 µg/L), TCE (44 samples, up to 2,800 µg/L), cDCE (74 samples, up to 9,100 µg/L), 1,1-DCE (12 samples, up to 17.5 µg/L), VC (133 samples, up to 7,400 µg/L), and methylene chloride (1 sample, 89.3 µg/L, estimated). 1,1-DCE detections above the PCUL were co-located with detections of PCE, TCE, cDCE, and/or VC above their respective PCULs. During the sampling period, methylene chloride was detected one time above the laboratory detection limit and also exceeded the PCUL in MW-314 along the alley east of the Seattle Roy Aloha Shops. The maximum CVOC detections were in monitoring wells MW-157 located on the east side of 8th Avenue North (1,1-DCE), MW-314 at the south end of the alley (methylene chloride), MW-147 south of the Property on the south side of Roy Street (VC), and HMW-9IB on the Seattle DOT Mercer Parcels (PCE, cDCE). Wells that defined the lateral extent of the CVOC plume within the Intermediate B Zone (Figure 43) included:

- MW126 at the north end of the alley;
- MW-334 on the south side of the 900 Roy Street property;
- The Block 38 West dewatering wells (DW-15, DW-16, DW-17, DW-18A);
- Wells on the south and west sides of the Seattle DOT Mercer Parcels (HMW-5IB, HMW-6IB, HMW-7IB, HMW-15IB, MW-350);
- MW-316 on Mercer Street;
- MW-307 on Roy Street; and
- MW-303 and MW112 on Dexter Avenue North.

As shown on Figure 43, Block 38 West preconstruction groundwater data (see Section 4.5.10 and Appendix B) indicate that before dewatering at Block 38 West, the southeasterly limit of the Intermediate B CVOCs above the PCULs was somewhere between the MW-335 area (south side of Block 43) and the northwest corner of Block 38 West. Block 38 West groundwater data collected during dewatering indicate that Block 38 West construction dewatering pulled CVOCs to the edge of the property, with the extent of CVOCs above the PCULs being pulled as far as approximately 110 feet south of the northwest Block 38 West property corner (DW-15) and approximately 30 feet east of the northwest property corner (DW-18A) as shown on Figure 43.

Prior to the sampling period, detections of PCE, TCE, cDCE, and/or VC exceeded the PCUL within the RI-defined CVOC plume in MW111 in the alley east of the Seattle Roy Aloha Shops and along the west side of 8th Avenue North in W-MW-01 and W-MW-02. Neither tDCE nor chloroform were detected above their respective PCULs in Intermediate B Zone groundwater during the sampling period, nor prior to the sampling period based on historically tabulated data. Historical reports indicate that methylene chloride was not detected above the PCUL in the Intermediate B Zone prior to the sampling period without laboratory noted contamination interference.

Petroleum Hydrocarbons. Benzene was detected above the PCUL (up to 28.8 µg/L) in 10 of the 216 Intermediate B Zone groundwater samples collected during the sampling period. Detections of benzene above the PCUL were only found in monitoring wells MW-318 and MW-322 on the west side of 9th Avenue North. Prior to the sampling period, sample results for benzene did not exceed the PCUL. In Intermediate B Zone groundwater off of the Property, GRO was not detected above the PCUL in the 83 analyzed samples without laboratory-noted CVOC interference during the sampling period nor detected prior to the sampling period (5 samples). 1,2,3-TMB and 1,2,4-TMB were not detected above their respective PCULs in the 204 and 216 samples analyzed (respectively) during the sampling period. 1,2,3-TMB and 1,2,4-TMB were not analyzed for or not reported prior to the sampling period, based on review of historical reports.

CVOC Time Trends. In general, CVOCs in groundwater in the Intermediate B Zone were quantitatively stable or decreasing (Table 14). Mann-Kendall analysis results for CVOC concentrations in groundwater in the Intermediate B Zone largely indicate decreases of CVOC concentrations or non-detect concentration stability for CVOCs in FMW-141, MW112, MW126, MW-145/MW-145R, MW-148, MW-157, MW-303, MW-307, MW-309, MW-311, MW-316, MW-318, MW-322, MW-334, MW-338, MW-340, W-MW-01, and W-MW-02. During the sampling period, there was no statistical evidence of increasing Intermediate B Zone groundwater concentrations for PCE and TCE. Intermediate B Zone groundwater results for cDCE and/or VC were statistically increasing in MW111, MW-147, MW-190, and MW-335.

In MW111, cDCE and VC concentrations were at a relative maximum during the second quarter of 2018, shortly after the end of dewatering at Block 37. Concentrations of cDCE and VC in MW111 decreased from then and began increasing again during the first quarter of 2020, shortly after dewatering at Block 38 West began. Concentrations of cDCE and VC were relatively stable in MW111 after their initial increases during the first quarter of 2020 until dewatering at Block 38 West ceased in the first quarter of 2021. The MW111 cDCE and VC concentrations then decreased in the second quarter of 2021. Groundwater cDCE and VC concentrations in MW-147 increased through the period of Property and Block 38 West dewatering and began decreasing shortly after dewatering ended at Block 38 West. In MW-190, VC began increasing after the first quarter of 2020, shortly after the start of dewatering at Block 38 West. The concentration of VC in MW-190 was at a maximum (68.4 µg/L) during the first quarter of 2021, near the end of dewatering at Block 38 West. In MW-335, cDCE began increasing after the third quarter of 2020. The initial increase occurred shortly after Property dewatering ended, with the concentration of cDCE relatively stable since the fourth quarter of 2020. Additional sampling events are required to further statistically assess the concentration trends of cDCE and/or VC in MW111, MW-147, MW-190, and MW-335.

Geochemical Parameters. Within the current limits of Intermediate B Zone CVOC plume, the average MNA screening score following IA injection activities indicated adequate or strong evidence of anaerobic biodegradation in the following monitoring wells (Table 17):

- **Perimeter:** PRB-C1 and PRB-C5; and

- **Off-Property:** FMW-141, MW111, MW-143, MW-147, MW-157, MW-311, MW-314, MW-318, MW-322, W-MW-01, and W-MW-02. These locations were downgradient of the Property during non-pumping or off-Property pumping periods (Figure 45).

MNA screening scores for 10 locations within the CVOC plume (MW-145R, MW-148, MW-190, MW-309, MW-335, PRB-C11, PRB-C14, PRB-C17, PRB-C19, PRB-C23) indicated limited evidence of anaerobic biodegradation. The screening results for the Intermediate B Zone monitoring wells on the Seattle DOT Mercer Parcels indicated adequate evidence of anaerobic biodegradation in HMW-9IB and MW-347 and limited evidence of anaerobic biodegradation in MW-345, MW-346, MW-348, MW-349, and MW-350. The MNA screening results for Intermediate B Zone wells beyond the limits of the CVOC plume indicated adequate evidence of anaerobic biodegradation in MW-334, MW-338, and MW-340 and limited evidence of anaerobic biodegradation in MW112, MW126, MW-303, MW-307, and MW-316.

Deep Zone

CVOCs. Five CVOCs were detected at least once above their respective PCULs in the 301 samples collected in the Deep Zone during the sampling period, including PCE (37 samples, up to 706 μg/L), TCE (60 samples, up to 1,540 μg/L), cDCE (108 samples, up to 10,300 μg/L), 1,1-DCE (6 samples, up to 15 μg/L), and VC (190 samples, up to 1,800 μg/L). The maximum CVOC detections were in monitoring well MW113 in 9th Avenue North. Other elevated CVOC concentrations were detected in monitoring wells located in the alley (MW103), near the 9th Avenue North and Roy Street intersection (FMW-129, HMW-1D, MW-323, and MW-324), and on Mercer Street east of 9th Avenue North (MW-336). The six detections of 1,1-DCE above the PCUL during the sampling period were located in MW113 and MW-324 and were co-located with detections of PCE, TCE, cDCE, and/or VC exceeding their respective PCULs. Wells that defined the lateral extent of the CVOC plume in the Deep Zone (Figure 44) included:

- MW122 at the north end of the alley;
- MW123 on Westlake Avenue North;
- MW-342 and MW-343 on the south side of Valley Street north of Block 37;
- FMW-131 on Block 37;
- FMW-137 on the south side of Mercer Street;
- wells on the south and west sides of the Seattle DOT Mercer Parcels (HMW-2D, HMW-3D, HMW-6D, HMW-10D, HMW-13D, HMW-14D);
- MW-138 and MW-304 on Dexter Avenue North; and
- MW102 and MW124 on the south side of Valley Street north of the Property.

Similar to the Intermediate B Zone, Block 38 West preconstruction groundwater data (see Section 4.5.10 and Appendix B) indicate that before dewatering at Block 38 West the southeasterly limit of the Deep Zone CVOCs above the PCULs was somewhere between the MW-336 area (south side of Block 43) and the northwest corner of Block 38 West.

Block 38 West groundwater data collected after initiation of dewatering at that property indicate that Block 38 West construction dewatering pulled CVOCs to the edge of the property, with the extent of CVOCs above the PCULs being pulled as far as approximately 110 feet south of the northwest property corner (DW-15) and approximately 30 feet east of the northwest property corner (DW-18A) as shown on Figure 44.

Prior to the sampling period, PCE, TCE, cDCE, and/or VC exceeded their respective PCULs in seven monitoring wells (FMW-129, FMW-131, MW103, MW104, MW105, MW113, and MW128) located within the defined lateral extent of the CVOC plume. Concentrations of tDCE, chloroform, and methylene chloride did not exceed their respective PCULs during the sampling period, nor prior to the sampling period based on historically tabulated data.

Petroleum Hydrocarbons. In off-Property Deep Zone groundwater, GRO was not detected above the PCUL in the 89 samples analyzed without laboratory noted CVOC interference. Benzene was detected above the PCUL (up to 44.1 µg/L) in 22 of 292 samples during the sampling period, in FMW-140 at 900 Roy Street, MW128 along the east side of Westlake Avenue North, and MW-328 and MW-341 at the south end of Lake Union Park. Prior to the sampling period, benzene was analyzed for in 16 Deep Zone groundwater samples and was not detected. 1,2,3-TMB and 1,2,4-TMB were not detected above their respective PCULs in Deep Zone groundwater off Property during the sampling period and were not analyzed for or not reported prior to the sampling period based on review of historical reports.

CVOC Time Trends. In general, CVOCs in groundwater in the Deep Zone were quantitatively stable or decreasing during the evaluated time period (Table 14). Mann-Kendall analysis results for CVOC concentrations in groundwater in the Deep Zone largely indicate decreases of CVOC concentrations or non-detect concentration stability for CVOCs in FMW-129, FMW-131, FMW-137, FMW-138, FMW-140, GEI-2, MW102, MW103, MW106, MW122, MW123, MW124, MW128, MW-138, MW-153, MW-158A, MW-304, MW-319, MW-323, MW-324, MW-326, MW-328,MW-341, MW-342, and MW-343. MW113 is the only Deep Zone groundwater location where there is statistical evidence of increasing concentrations of PCE during the sampling period. TCE is statistically increasing in MW104 and MW105. cDCE is indicated as probably increasing in MW-329 and increasing in MW-336. In MW-160, VC is increasing, and TCE, cDCE, and VC are statistically increasing in MW-161.

In MW113, the Mann-Kendall analysis indicated PCE increased during the evaluated time period. During the third quarter of 2020 through the second quarter of 2021, however, PCE results for MW113 (detected from 3.04 to 706 µg/L) are statistically stable. During this later time period, cDCE is also statistically stable, and TCE and VC are statistically decreasing.

In MW104, the detected concentration of TCE in groundwater was relatively stable from the second quarter of 2017 through the fourth quarter of 2018. The MW104 TCE concentration then increased from December 2018 to March 2019, decreased to a relative low during the fourth quarter of 2019, increased to a maximum concentration of 108 µg/L during the second quarter of 2020, and has decreased since then. The increases and decreases observed in TCE concentration in the groundwater in MW104 do not directly correspond with any Site dewatering events.

The concentration of TCE in groundwater in MW105 was non-detect or below the PCUL from the first quarter of 2017 through the fourth quarter of 2019. The concentration of TCE in MW105 began increasing during the first quarter of 2020, coinciding closely with dewatering on the Property and at Block 38 West. TCE in MW105 began decreasing during the first quarter of 2021, when dewatering rates at Block 38 West were reduced (Table 2).

In MW-329, the concentration of cDCE was detected above the PCUL during the second and fourth quarters of 2020. The maximum concentration of cDCE in MW-329 was 21.0 μg/L in November 2020.

The concentration of cDCE in MW-336 has increased since it was installed in May 2020 through May 2021. The maximum detection of cDCE in MW-336 was 150 μg/L in May 2021.

In MW-160, VC concentrations were non-detect or below the PCUL from the second quarter of 2018 (when the monitoring well was installed) through the fourth quarter of 2019, increasing through the first quarter of 2021, and decreasing during the second quarter of 2021 (shortly after dewatering at Block 38 West ended). The maximum concentration of VC in MW-160 was 17.1 μg/L in February 2021.

In MW-161, concentrations of TCE, cDCE, and VC statistically increased during the evaluated time period. TCE, cDCE, and VC concentrations in MW-161 were relatively stable from the second quarter of 2018, when they were installed, through the fourth quarter of 2019. MW-161 TCE, cDCE, and VC concentrations increased through the first quarter of 2021 and decreased during the second quarter of 2021, after the cessation of groundwater extraction at Block 38 West. The maximum concentrations of TCE, cDCE, and VC in MW-161 were 55.8, 85.8, and 9.28 μg/L, respectively, in February 2021.

Geochemical Parameters: Within the current limits of the Deep Zone CVOC plume, the average MNA screening score after IA injection activities indicated adequate or strong evidence of anaerobic biodegradation in most Deep Zone monitoring wells, including (Table 17):

- **Perimeter:** PRB-D4 and PRB-D17; and
- **Off-Property:** FMW-129, FMW-140, GEI-2, MW103, MW104, MW105, MW113, MW128, MW-158A, MW-161, MW-319, MW-323, MW-324, MW-328, MW-329, MW-336, MW-341, and MW-342 (Table 17). The locations in the Deep Zone showing adequate or strong evidence of anaerobic biodegradation were downgradient of the Property during non-pumping or Off-Property pumping periods (Figure 45).

Screening results for seven Deep Zone wells (MW-153, MW-160, PRB-D1, PRB-D11, PRB-D13, PRB-D20, and PRB-D23), within the current Deep Zone CVOC plume limits, indicated limited evidence of anaerobic biodegradation. The MNA screening results for Deep Zone wells beyond the limits of the CVOC plume indicated adequate evidence of anaerobic biodegradation in FMW-131 and MW123 and limited evidence of anaerobic biodegradation in FMW-137, MW102, MW106, MW122, MW124, MW-138, MW-304, MW-326, and MW-343.

5.3.4 Soil Vapor

Site characterization under Ecology's vapor intrusion guidance (Ecology, 2016b, 2018a, and 2022) includes three steps: a preliminary assessment, a Tier I evaluation, and a Tier II evaluation. The preliminary assessment evaluates the types of chemicals at the Site and the locations of existing and potential future buildings to determine if buildings are close enough to potential sources to require further evaluation. If so, a Tier I evaluation is conducted to collect shallow groundwater and/or soil vapor data that are compared to vapor intrusion screening levels. If a Tier I evaluation indicates the potential for unacceptable indoor air concentrations (i.e., groundwater and/or soil vapor concentrations exceeding the vapor intrusion screening levels near an occupied building), a Tier II evaluation should be conducted that may include sampling of sub-slab soil vapor, indoor air, and ambient air.

As discussed in the Final RI/FS Work Plan Addendum (PES, 2020), PES conducted a preliminary assessment of the Property history, existing data, and surrounding properties and a Tier I evaluation of historical vadose zone soil data, Site Shallow Zone groundwater data collected since 2017, soil vapor data from SV01, SV02, and SV03, and the building construction and utilities on parcels surrounding the Property. For that evaluation, PES compared existing data to the RI/FS Work Plan (PES, 2019d) screening levels, including the RI/FS Work Plan soil screening levels, MTCA Method B groundwater screening levels protective of indoor air, and the MTCA Method B sub-slab soil vapor screening levels. Additionally, groundwater concentration data were also compared to short-term TCE screening levels set forth in Appendix A of Ecology's vapor intrusion guidance (Ecology, 2022; formerly Vapor Intrusion Implementation Memo #22 [Ecology, 2019]).

Since Ecology's vapor intrusion guidance (Ecology, 2022) indicates that structures located farther than 100 feet from potential vapor sources[16] are not likely to be vapor intrusion risks, the preliminary assessment was focused on determining the 100-foot limit from subsurface vapor sources (vadose zone soil, shallow groundwater, and soil vapor) and the adequacy of the monitoring network in place at the time. PES also reviewed the location and depth of subsurface utilities to evaluate the potential for vapors to migrate into buildings farther than 100 feet from potential vapor sources. Based on the historical presence of CVOCs in Shallow Zone groundwater and vadose zone soil beneath the Property, PES placed the potential vapor intrusion risk limit no closer than 100 feet from the Property boundary. Figure 46 shows the 100-foot limit determined by the preliminary assessment. The preliminary assessment concluded that there was the potential for subsurface CVOCs at the Site to affect indoor air quality in occupied buildings, and so PES conducted a Tier 1 evaluation.

The Tier I evaluation determined that the historical monitoring network (SV01, SV02, and SV03) was inadequate to monitor soil vapor conditions adjacent to buildings within or near the 100-foot limit, including across the four streets surrounding the Property, in the alley east of the Property, and on the west side of 9th Avenue North to the north of Roy Street. Thus, the Final RI/FS Work Plan Addendum (PES, 2020) outlined the installation and monitoring of SV-04 through SV-28 in the RI.

[16] The edge of a potential vapor source is where detectable VOC concentrations in shallow soil or groundwater have decreased to levels below the PQL.

As discussed in Section 4.4.6, PES collected soil vapor samples consistent with the RI Work Plan (PES, 2019f) and RI Work Plan Addendum (PES, 2020b). This section provides a summary of the analytical results for soil vapor monitoring performed during the period from 2017 through May 2021. Table 3 presents the soil vapor probe completion details. Tables 12 and 18 present the detection statistics for soil vapor data and a summary of the primary CVOC results. Comprehensive results for all soil vapor compounds analyzed are provided in Table G-11 of Appendix G. Figure 46 depicts the last round of soil vapor results collected during the RI (second quarter 2021). During soil vapor monitoring from 2017 through May 2021, six compounds were detected above their respective screening levels in soil vapor (benzene, bromodichloromethane, chloroform, naphthalene, TCE, and VC). Those six compounds and four other compounds related to former Property operations (1,1-DCE, cDCE, PCE, and tDCE) are discussed below.

5.3.4.1 CVOCs

PCE: PCE was detected in soil vapor in twenty-five of twenty-eight vapor probes during the sampling period and was detected in 73 percent of the soil vapor samples. PCE was not detected in SV-15, SV-18, or SV-24. The maximum concentration of PCE in soil vapor was 215 $\mu g/m^3$ in a sample collected from SV-25 on July 15, 2020. SV-25 is a shallow vapor probe at 6 feet bgs located west of the Property in the sidewalk on the west side of Dexter Avenue North. All detections of PCE in soil vapor were below the screening level of 320 $\mu g/m^3$.

TCE: TCE was detected in soil vapor in SV03, SV-07, SV-09, SV-11, SV-12, SV-16, SV-21, and SV-26 during the sampling period and in 8 percent of the soil vapor samples, with 2 percent (two samples) of the detected concentrations exceeding the screening level. TCE exceeded the vapor screening level of 11 $\mu g/m^3$ at 17.4 $\mu g/m^3$ in the sample collected from SV-09 on November 11, 2020, and at 12.8 $\mu g/m^3$ in the sample collected from SV-16 on May 10, 2021. These concentrations are below the residential short-term vapor intrusion screening level for TCE of 67 $\mu g/m^3$. SV-09 is a shallow vapor probe at 6 feet bgs located northeast of the Property in the east side of the intersection of 8th Avenue North and Valley Street. SV-16 is shallow vapor probe at 6 feet bgs located east of the Property in the ROW on the northeast side of 8th Avenue North. TCE detections at each location were limited to one sample, except SV-26 where it was detected in two samples.

cDCE: cDCE was detected in soil vapor in SV01, SV-12, and SV-16 during the sampling period and in 4 percent of the soil vapor samples during the sampling period. There is no screening level for cDCE; the maximum detection of cDCE in soil vapor was 9.99 $\mu g/m^3$ in a sample collected from SV01 on August 12, 2021. cDCE detections were limited to one sample from SV-12 and SV-16, and two samples from SV01. SV01 is a deep vapor probe at 12.25 feet bgs located east of the Property in the sidewalk on the east side of 8th Avenue North. SV-12 is a shallow vapor probe at 6 feet bgs located north of the Property in the ROW on the northeast side of Valley Street. SV-16 is shallow vapor probe at 6 feet bgs located east of the Property in the ROW on the northeast side of 8th Avenue North.

tDCE: tDCE was detected in soil vapor in SV01 and SV-16 during the sampling period and in fewer than 1 percent of the soil vapor samples. The maximum concentration of tDCE in soil vapor was 1.29 $\mu g/m^3$ in a sample collected from SV-16 on May 10, 2021, which is below the screening level of 610 $\mu g/m^3$. SV-16 is a shallow vapor probe at 6 feet bgs located east of the Property in the ROW on the northeast side of 8th Avenue North.

VC: VC was detected in soil vapor in SV01 and SV-15 during the sampling period and in 3 percent of the soil vapor samples, with fewer than 3 percent (three samples) exceeding the screening level. VC exceeded the vapor screening level of 9.5 $\mu g/m^3$ at a maximum of 409 $\mu g/m^3$ in the sample collected from SV01 on February 7, 2021, and at 31.7 $\mu g/m^3$ in the sample collected from SV-15 on May 04, 2021. SV01 is located in the sidewalk on the east side of 8th Avenue North, and SV-15 is located east of the Property on the north side of Roy Street by the alley. SV01 is a deep vapor probe at 12.25 feet bgs located east of the Property in the sidewalk on the east side of 8th Avenue North. SV-15 is a deep vapor probe at 13 feet bgs located east of the Property in the sidewalk on the north side of Roy Street next to the alley. Concentrations of VC exceeding the soil vapor screening level were only detected in samples collected in the first and second quarters of 2021.

1,1-DCE: 1,1-DCE was detected in soil vapor in SV01 during the sampling period and was detected in fewer than 1 percent (one sample) of the samples. SV01 is a deep vapor probe at 12.25 feet bgs located east of the Property in the sidewalk on the east side of 8th Avenue North. 1,1-DCE was detected at a concentration of 0.923 $\mu g/m^3$ in the sample collected on May 12, 2021, which is below the soil vapor screening level for 1,1-DCE of 3,000 $\mu g/m^3$.

Bromodichloromethane: Bromodichloromethane was detected in soil vapor in SV-27 during the sampling period and was detected in 3 percent of the samples, with fewer than 1 percent (one sample) of detected concentrations exceeding the screening level. SV-27 is a deep vapor probe at 15 feet bgs located west of the Property in the sidewalk on the west side of Dexter Avenue North. Bromodichloromethane was detected above the soil vapor screening level of 2.3 $\mu g/m^3$ at 2.75 $\mu g/m^3$ in the sample collected from SV-27 on July 15, 2020.

Chloroform: Chloroform was detected in soil vapor in SV01, SV-06, SV-08, SV-10, SV-13, SV-17, SV-18, SV-27, and SV-28 during the sampling period and was detected in 16 percent of the samples, with 12 percent (thirteen samples) of the detected concentrations exceeding the screening level. Chloroform exceeded the soil vapor screening level of 3.6 $\mu g/m^3$ in:

- SV-10 at a concentration of 3.70 $\mu g/m^3$ in the sample collected on July 16, 2020. SV-10 is a shallow vapor probe at 6 feet bgs located north of the Property in the ROW on the north side of Valley Street;

- SV-13 with a maximum concentration of 7.69 $\mu g/m^3$ in the sample collected on May 6, 2021. SV-13 is a deep soil vapor probe at 12 feet bgs located north of the Property in the ROW on the northeast side of Valley Street;

- SV-17 with a maximum concentration of 84.2 $\mu g/m^3$ in the sample collected on May 6, 2021. SV-17 is a shallow vapor probe at 6 feet bgs located east of the Property in the ROW on the east side of 8th Avenue North;

- SV-18 with a maximum concentration of 12.9 $\mu g/m^3$ in the sample collected on November 2, 2020. SV-18 is shallow vapor probe at 6 feet bgs located east of the Property in the ROW on the east side of 8th Avenue North; and

- SV-27 with a maximum concentration of 84.2 $\mu g/m^3$ in the sample collected on July 15, 2020. SV-27 is a deep vapor probe at 15 feet bgs located west of the Property in the sidewalk on the northwest side of Dexter Avenue North.

5.3.4.2 Petroleum Hydrocarbons

Benzene: Benzene was detected in soil vapor in 20 of 28 vapor probes and was detected in 26 percent of the samples, with 2 percent (two samples) of detected concentrations exceeding the screening level. Benzene was not detected in SV03, SV-04, SV-09, SV-13, SV-14, SV-16, SV-19, or SV-28. Benzene was detected above the soil vapor screening level of 11 $\mu g/m^3$ at 12.2 $\mu g/m^3$ in the sample collected from SV01 on May 12, 2021, and at 273 $\mu g/m^3$ in the sample collected from SV-24 on February 3, 2021. SV01 is a deep vapor probe at 12.25 feet bgs located east of the Property in the sidewalk on the east side of 8th Avenue North, and SV-24 is a deep vapor probe at 10 feet bgs located east of the Property in the alley between 8th Avenue North and 9th Avenue North. At 12 of the 20 vapor sampling locations where benzene was detected (including SV-24), detections of benzene were limited to one sample.

Naphthalene: Naphthalene was detected in soil vapor in SV-14 and SV-24 during the sampling period and was detected in 3 percent of the samples, with all 3 percent (three samples) exceeding the screening level. Naphthalene exceeded the soil vapor screening level of 2.5 $\mu g/m^3$ at 11.3 $\mu g/m^3$ in the sample collected from SV-14 on July 16, 2020, and at a maximum concentration of 44.8 $\mu g/m^3$ in the sample collected from SV-24 on February 3, 2021. SV-14 is a shallow vapor probe at 6 feet bgs located east of the Property in the sidewalk on the north side of Roy Street next to the alley, and SV-24 is a deep vapor probe at 10 feet bgs located east of the Property in the alley between 8th Avenue North and 9th Avenue North. The sample exceeding the screening level in SV-14 was followed by three quarters of samples with naphthalene concentrations below the MRL. Naphthalene exceeded the screening level in SV-24 in the fourth quarter of 2020 and first quarter of 2021, with concentrations below the MRL in the third quarter of 2020 and the second quarter of 2021.

5.3.4.3 Soil Vapor Summary

The Tier 1 evaluation conducted during the RI indicates that areas with vadose zone soil concentrations above the soil screening levels and Shallow Zone groundwater concentrations above the vapor intrusion screening levels do not result in soil vapor concentrations exceeding the soil vapor screening levels, except in the areas of SV01 and SV-16 as discussed below. Areas with soil vapor concentrations above the vapor intrusion screening levels are summarized below.

CVOCs: PCE was detected in soil vapor throughout the Site, but all detections were below the screening level. TCE was detected in soil vapor north and east of the Property. TCE was detected above the screening level in one sample each at two locations along 8th Avenue North.

Those two exceedances were the only detections of TCE in soil vapor. The TCE exceedance at SV-16 occurred during the most recent sampling event for the RI (second quarter 2021). Concentrations of TCE in all other vapor samples collected during the RI sampling were below the MRLs. 1,1-DCE, cDCE and tDCE were detected in soil vapor at three sampling locations north and east of the Property along Valley Street and 8th Avenue North. All detections of 1,1-DCE, cDCE, and tDCE in vapor were below screening levels. VC was detected in soil vapor at two locations east of the Property along 8th Avenue North and Roy Street. VC was detected above the screening level at each location, and the exceedances occurred in the most recent sampling events for the RI (first and second quarter 2021 for SV01, and second quarter 2021 for SV-15). Each exceedance was preceded by at least three quarters of soil vapor results with VC concentrations below the laboratory reporting limits. Shallow sources of VC were removed from the Property during redevelopment, and the elevated VC concentrations in SV01 appear to be coincident with shallow groundwater concentrations of VC above the PCUL in the area (e.g., in MW121). Additional soil vapor monitoring will be conducted in these areas to monitor soil vapor concentrations after the RI.

Chloroform was detected in soil vapor north, south, east, and west of the Property, and was detected above the screening level north and west of the Property. Bromodichloromethane was detected in soil vapor at one location west of the Property along Dexter Avenue North, and was detected above the screening level at that location. Chloroform and bromodichloromethane were not detected in shallow groundwater or shallow soil at the Site and are likely present as biproducts of potable water chlorination and irrigation or plumbing leaks in the subsurface.

The Tier I evaluation indicates that soil vapor concentrations related to the Site exceed the screening levels for VC in the area of SV01 and SV-15, and for TCE in the area of SV-16. These areas are adjacent to the 800 Roy Street building (which is currently unoccupied) and the 700 Dexter building (which has a vapor barrier).

Petroleum Hydrocarbons: Benzene was detected in soil vapor throughout the Site. Benzene and naphthalene detections exceeded the screening level in three locations east of the Property: SV01 along 8th Avenue North had detections of benzene exceeding the screening level; SV-14 along Roy Street had an exceedance of naphthalene above the screening level; and SV-24 in the alley between 8th Avenue and 9th Avenue had two exceedances of naphthalene. The presence of petroleum-related compounds in soil vapor at these locations is likely attributed to former petroleum releases at the Seattle Roy Aloha Shops site at 800 Roy Street, since benzene and naphthalene were both detected in groundwater during the RI above their respective groundwater PCULs and/or vapor intrusion screening levels in wells located on or near the Seattle Roy Aloha Shops property. Benzene and naphthalene concentrations in groundwater on or near the Property during the RI were either non-detect or were below their respective groundwater PCULs and vapor intrusion screening levels.

5.3.5 Summary of the Nature and Extent of Contamination

5.3.5.1 Property

The primary constituents detected at the Property consist of PCE and its breakdown products (TCE, cDCE, tDCE, and VC). The ERH/SVE system installed and operated between April and December 2013 treated soil and groundwater down to an elevation of 0 feet (Shallow and upper Intermediate A Zones) over a large portion of the Property (see Figure 14). Soil sampling in the treatment zone post ERH/SVE operation generally found decreased CVOC concentrations ranging from one to four orders of magnitude compared to pretreatment concentrations.

Soil and groundwater sampling conducted during IA design and implementation in 2017 through 2019 identified areas of soil and groundwater CVOC contamination above the PCULs, with the highest concentrations largely present at the margins of or outside of the Property ERH/SVE treatment zone, both laterally and vertically. Primary areas of high CVOC concentrations identified in those investigations included the following (see Figure 4):

- The former western boiler room;
- Near the former loading dock;
- The western end of the northern sewer line; and
- The southeast corner of the Property.

Although other areas at the Property contained soil and groundwater CVOC concentrations above the PCULs, most were either relatively small and localized (e.g., near B-244 and DB07) or are suspected to be a result (based on location and depth) of groundwater transport of CVOCs from the areas around MW-135 and MW-133. Petroleum hydrocarbons were generally not detected in soil above the MDLs, with the limited detections above the PCULs generally in the depth range excavated during construction or in locations adjacent to injection wells. In groundwater, petroleum hydrocarbons were not detected above the PCULs during IA design and implementation sampling. IA activities included removal of the Shallow and upper Intermediate A Zones during construction of the building basement and treatment of the remainder of the Intermediate A Zone, the Intermediate B and C Zones, and upper Intermediate D Zone in much of the northwest, northeast, and southwest Property quadrants, and the southern portion of the southeast Property quadrant.

Soil sampling after IA ISCO and EVO injections detected CVOCs above the PCULs (primarily PCE, TCE, and cDCE) in the contingent action injection well borings (designated “CA” wells, see Figure 11) and monitoring well borings (MW-165 through MW-188, see Figure 11) located in the former western boiler room, former loading dock, and southwest corner of the Property. Groundwater samples collected from the IA monitoring wells have generally shown decreasing concentrations of PCE and TCE over time, except for wells at specific treatment intervals in the former western boiler room (MW-178 in Treatment Zone B) and the southwest corner of the Property (MW-182 in Treatment Zone B).

The MNA screening scores for the IA monitoring well groundwater samples have generally indicated adequate or strong evidence of anaerobic biodegradation, particularly within Treatment Zones A, B, and C (Table 17). Groundwater in the treatment Zone D wells have shown relatively limited evidence of anaerobic biodegradation, based on the MNA screening scores. Implementation of the Property IA continues with periodic monitoring of the 24 Property IA monitoring wells and future injection of amendments in the Property contingent action injection wells.

5.3.5.2 Outside the Property

Soil. In vadose zone soil, the primary CVOCs detected above the PCULs were PCE, TCE, and VC, and the primary petroleum hydrocarbons detected above the PCULs were GRO, benzene, and ethylbenzene. Vadose zone CVOC PCUL exceedances were centered along 8th Avenue North to the east of the Property (Figures 29 through 32), and vadose zone petroleum hydrocarbon PCUL exceedances were primarily found in samples collected on the Seattle DOT Mercer Parcels and on the streets surrounding the Property.

In saturated zone soil, the primary CVOCs detected above the PCULs were PCE, TCE, cDCE, and VC, and the primary petroleum hydrocarbons detected above the PCULs were GRO and BTEX. Saturated zone CVOC PCUL exceedances were primarily found along 8th Avenue North to the east of the Property, in the alley east of the Seattle Roy Aloha Shops, on 9th Avenue North to the north of Roy Street, and the western portion of the Seattle DOT Mercer Parcels (Figures 29 through 32). CVOC PCUL exceedances were concentrated in the Intermediate Zone, although Deep Zone CVOC exceedances occurred in locations beneath the Property (MW133, MW-162, MW-163, and MW-164) and in locations near the 9th Avenue North and Roy Street intersection (MW-323 and MW-324). The saturated soil zone CVOC PCUL exceedances were generally co-located with groundwater CVOC PCUL exceedances.

Petroleum hydrocarbons in saturated zone soil samples exceeded the PCULs near former UST locations on and east of the northern portion of the Seattle Roy Aloha Shops, along the west side of 9th Avenue North, in the northwest quadrant of the Seattle DOT Mercer Parcels, and in the southeast corner of the Seattle DOT Dexter Parcel. In these areas, GRO, BTEX, and other petroleum hydrocarbon PCUL exceedances were typically co-located. Exceptions to this included deeper PCUL exceedances of benzene south of Lake Union (MW-341 and MW-343), deeper toluene PCUL exceedances in the alley (MW-311) and the west side of 9th Avenue North (MW-323), and isolated, relatively low-level (less than twice the PCUL) toluene PCUL exceedances elsewhere. The saturated soil zone petroleum hydrocarbon PCUL exceedances were co-located with groundwater petroleum hydrocarbon PCUL exceedances.

Groundwater. In groundwater outside of the Property, PCE and its breakdown products (TCE, cDCE, and VC) were detected above the PCULs in all four water-bearing zones, with 1,1-DCE also detected above the PCUL in the Intermediate and Deep Zones. Chloroform and methylene chloride were also detected above the PCULs, albeit in only a few samples. Groundwater with CVOC PCUL exceedances extends to the south and east of the Property, with the area above the PCULs increasing with depth (Figures 41 through 44). During the RI, the maximum CVOC detections were in the following locations:

- Shallow Zone: MW-155 southeast of the Property, and MW-9 and R-MW6 on 8th Avenue North;

- Intermediate A Zone: MW108 and MW110 in the alley, MW-156 on the east site of 8th Avenue North, MW-146 on the south side of Roy Street south of the Property, and HMW-20IA on the Seattle DOT Mercer Parcels;

- Intermediate B Zone: MW-143 and MW-157 on the east side of 8th Avenue North, FMW-141 in the alley, MW-314 at the south end of the alley, MW-322 at the south end of 9th Avenue North, MW-335 on Mercer Street east of 9th Avenue North, MW-147 south of the Property on the south side of Roy Street, and HMW-9IB on the Seattle DOT Mercer Parcels; and

- Deep Zone: MW103 in the alley; FMW-129, FMW-140, HMW-1D, MW113, MW-323, and MW-324 near the 9th Avenue North and Roy Street intersection; and MW-336 on Mercer Street east of 9th Avenue North.

The elevated CVOC concentrations east of the Property (with higher concentrations of PCE and TCE closer to the Property) are consistent with the distribution of CVOCs in soil and groundwater in the former western boiler room area and the former loading dock area on the Property, the easterly groundwater flow direction, and the generally downward hydraulic gradient. The presence of CVOC concentrations multiple orders of magnitude above the PCULs to the south (MW-146, MW-147, HMW-20IA, HMW-9IB) and southeast (MW-335 and MW-336) of the Property, however, are reflective of past construction dewatering at properties to the south and southeast that have influenced groundwater flow and contaminant migration in those directions (Table 2, Figure 10; see Section 3.5.2). Although past operations and releases at the Property likely have contributed the bulk of the CVOCs to the Site plume, other CVOC sources in the South Lake Union Area (see Section 4.5) may have also contributed CVOCs to the plume, although RIs for some of those sites have yet to be completed. Generally decreasing CVOC concentration trends and geochemical parameter concentrations supportive of anaerobic biodegradation indicate a stable to slowly shrinking plume, except where significantly influenced by the recent operation of construction-related dewatering systems.

During the RI, the maximum petroleum hydrocarbon detections (including benzene) were in wells located at and east of the northern portion of the Seattle Roy Aloha Shops in the Shallow and Intermediate A Zones (SCS-2, SCL-MW101, SCL-MW105, MW108, and MW-308), in wells on the west side of 9th Avenue North in the Intermediate B Zone (MW-318 and MW-322), and in wells near the 9th Avenue North and Roy Street intersection (FMW-140), along the east side of Westlake Avenue North (MW128), and at the south end of Lake Union Park (MW-328 and MW-341) in the Deep Zone. During this same time period, petroleum hydrocarbons (including benzene) were not detected above the PCULs in monitoring wells located along 8th Avenue North (on the west side of Seattle Roy Aloha Shops). This distribution of petroleum hydrocarbons is consistent with a source at the Seattle Roy Aloha Shops (i.e., not related to the Site), the easterly groundwater flow direction, and the generally downward hydraulic gradient (see Figure 47).

Soil Vapor. The Tier 1 evaluation conducted during the RI indicates that areas with vadose zone soil concentrations above the soil screening levels and Shallow Zone groundwater concentrations above the vapor intrusion screening levels do not result in soil vapor concentrations exceeding the soil vapor screening levels, except in the area of SV01 (vinyl chloride and benzene) and locations bordering the Seattle Roy Aloha Shops (petroleum hydrocarbons). The vinyl chloride exceedances in the SV01 area are likely associated with the Property, and the petroleum hydrocarbons in the area around the Seattle Roy Aloha Shops are likely associated with former releases at that property.

6.0 CONCEPTUAL SITE MODEL

This section updates the preliminary conceptual site model presented in the IA and RI work plans with data (collected through June 2021) from IA implementation and monitoring, the RI, and more recent investigations at the Seattle DOT Mercer Parcels, the Seattle DOT Dexter parcel, and Block 38 West. The updated conceptual site model includes focused discussions of contaminant sources, chemical fate and transport, current and future land and water use, and exposure pathways and receptors. The intent of the conceptual site model is to pull together the Site data to allow development of proposed cleanup levels for the Site and identification of areas of concern. The conceptual site model may be updated in the future, as necessary, based on data collected after June 2021.

6.1 Contaminant Sources

6.1.1 Property

The primary sources of contamination were at the Property and included: (1) releases of PCE-containing liquids from the former dry cleaning operations, and (2) releases of petroleum hydrocarbons from former USTs. As a result of these releases, the most frequently detected and highest concentration constituents in both soil and groundwater include PCE and its breakdown products TCE, cDCE, and VC. Other CVOCs are detected less frequently and/or at much lower concentrations in soil and groundwater than PCE and its breakdown products.

Based on the data collected at the Property, primary sources of CVOCs in the subsurface were located near the former western boiler room and the sewer line located near the former loading dock just east of Building C (east and north of well MW-135). Dry cleaning effluent containing spent PCE may have flowed into a floor drain, Sump No. 8, or the utility trench south of the boilers, all of which likely connected through the southern sewer line to the sewer. Results of sludge samples collected from cleanouts and soil and groundwater samples collected during the pre-IA investigation indicate that effluent containing spent PCE was also likely conveyed through the northern sewer line. Additional smaller releases may have contributed to shallow PCE contamination elsewhere on the Property, including in the vicinity of the former water/sludge treatment facility that operated in Building C. Dry cleaning operations ceased in the 1990s, so any releases to the subsurface would have ended then.

Operation of the ERH/SVE system reportedly removed approximately 98 percent of the original CVOC mass in the depth range treated (to approximately 40 feet bgs or 0 feet elevation relative to NAVD 88). Additional Property source mass was removed during IA and Property redevelopment activities, including removal of the Shallow and upper Intermediate A Zones during construction of the building basement and treatment of the remainder of the Intermediate A Zone, the Intermediate B Zone, and upper Deep Zone across portions of the Property with high CVOC detections.

The primary source of petroleum hydrocarbon contamination at the Property was the UST system located in the northeast corner of the Property, with impacts to soil and groundwater. The USTs were removed between 1966 and 1985. Four USTs containing heating oil (also referred to as Bunker C fuel oil) were located in the southwestern portion of the Property; those USTs were removed in 2013. Operation of the ERH/SVE system likely removed the residual sources of petroleum hydrocarbons in the depth range treated. Petroleum hydrocarbons were generally not detected in soil above the MDLs, with the limited detections above the PCULs generally in the depth range excavated during construction or in locations adjacent to injection wells. In groundwater, petroleum hydrocarbons were not detected above the PCULs during IA design and implementation sampling.

6.1.2 Off the Property

The commercial laundries, paint and varnish manufacturers, gas stations, auto repair facilities, print and graphics companies, the natural gas storage and distribution facility, and the lumber mill at and near the Site led to petroleum hydrocarbon, CVOC, and non-halogenated VOC contamination in soil and groundwater at various locations within the Site. Properties that have potentially sourced CVOCs include Block 79E (based on shallow CVOC detections at and adjacent to the property) and Block 55 (based on historical PCE use and dangerous waste records documenting PCE- and TCE-containing dangerous wastes at the property). Historical uses of other properties at the Site that could be sources of CVOCs (e.g., vehicle repair at 800 Aloha Street and painting activities at 739 9th Avenue North) have been documented (SES, 2013b). The primary CVOCs detected above the PCULs off the Property include PCE, TCE, cDCE, VC, and 1,1-DCE.

Sources of petroleum hydrocarbons to the subsurface were documented to have existed in many of the other properties that are included within the Site and are not attributable to the Property, including confirmed releases at the Seattle Roy Aloha Shops, Seattle DOT Mercer Parcels, Seattle DOT Dexter Parcel, Block 37, Block 43, Block 79 East, and Block 38 West. Shallow soil containing petroleum hydrocarbons is also located in the street rights-of-way immediately surrounding the Property; the source of petroleum hydrocarbons in this soil is unknown. The primary petroleum hydrocarbons detected above the PCULs off the Property include GRO, benzene, and ethylbenzene.

6.2 Chemical Fate and Transport

6.2.1 Contaminant Fate Processes

Physical, chemical, and biological processes affect the mobility and behavior of liquid- (or pure-) phase and vapor-phase contaminants in the unsaturated zone and dissolved- or

pure-phase contaminants in the saturated zone. These processes include both nondestructive processes (sorption, dispersion, volatilization, diffusion, dissolution, and dilution) and destructive processes (biotic and abiotic degradation) that occur during flow of air, water, or pure-phase product in the subsurface.

6.2.1.1 Nondestructive Processes

Sorption effects, which are often greater in zones with silt and organic matter, slow the rate of contaminant migration and can extend the life of the groundwater plume (due to desorption from soil). Sorption/desorption effects are very likely active in the siltier zones beneath the Site (e.g., the Intermediate B Zone beneath the Property).

Dispersion spreads out the contaminant plume, slows the migration rate, and decreases the contaminant concentration of the plume boundary and is most significant in stratified soil zones and potentially in siltier portions of an aquifer. Dispersion is likely active at and downgradient of the Property due to the interbedded nature of the Intermediate A and B Zones beneath the Site.

Volatilization of VOCs from the water table to the vapor-phase in unsaturated soil is dependent on the relative volatility of the contaminant (e.g., PCE is moderately volatile, while vinyl chloride is highly volatile). Based on the vadose zone soil CVOC data, the Shallow Zone groundwater CVOC concentrations, and the soil vapor results, potentially the only location at the Site where volatilization is occurring at a level leading to a potential PCUL exceedance is near the SV01 area (Figure 41).

Diffusion is driven by chemical concentration gradients and is the primary mechanism for vapor transport in unsaturated soil where soil vapor is usually stagnant. Diffusion may be an active contaminant migration pathway in locations with VOCs remaining in the unsaturated zone. Diffusion in the saturated zone is a far less important mechanism than dispersion.

Dilution, which is the mixing of cleaner water from natural or artificial sources, results in lower contaminant concentrations. This mechanism is likely only active in the few unpaved portions of the Site or if significant leaks from water lines, sanitary sewers, or storm drains occurs.

Dissolution of pure-phase contaminants into the dissolved-phase in soil pore water or into groundwater depends on the relative solubility of the contaminant (PCE is moderately soluble, while vinyl chloride is highly soluble). The potential presence of DNAPL beneath the Property was indicated by the elevated and persistent soil and groundwater CVOC concentrations found in the pre-IA investigations, with the former PCE source areas at the Property (near the former western boiler room and the sewer line located near the former loading dock just east of former Building C) the most likely DNAPL locations. Given the nature of CVOCs, DNAPL, where present, would likely exist as disseminated residuals, blobs, and ganglia in the finer-grained units beneath the Property and would serve as a source of dissolved-phase CVOCs in groundwater. DNAPL was not identified in any soil sample or monitoring well during the pre-IA investigations. As noted in Section 4.3.6.1, DNAPL was observed during excavation at the base of the parking garage approximately 4 feet northeast of

CA-A1 (Figure 11). The DNAPL (less than a cup) was removed with absorbent pads and excavated for off-site disposal, and the soil around the DNAPL location was overexcavated and sampled to document DNAPL removal. A laboratory sample of the product confirmed that it was PCE. DNAPL was not observed elsewhere on the Property during excavation activities. DNAPL was not observed in the soil borings or monitoring wells installed during implementation of the IA and RI.

In summary, historical desorption of VOCs from soil in the source areas, continued desorption of VOCs from secondary sources (fine-grained soil), and potential dissolution of DNAPL in the saturated zone beneath the Property have likely generated most of the dissolved VOCs in groundwater at the Site. Volatilization and diffusion are likely active processes in the vadose zone above the Shallow Zone plume.

6.2.1.2 Destructive Processes

Microbial metabolic degradation of petroleum hydrocarbons occurs under both aerobic and anaerobic conditions, with aerobic biodegradation occurring preferentially. Dissolved oxygen, nitrate, sulfate, manganese, and iron-oxides serve as oxidants (electron acceptors) to facilitate biodegradation. For BTEX components, ethylbenzene and xylenes will be metabolized before toluene, with benzene being biodegraded last. Anaerobic biodegradation can end up responsible for the bulk of biodegradation of petroleum hydrocarbons due to the typically higher amounts of sulfate, manganese, and iron-oxide electron acceptors in most aquifers.

Microbial metabolic degradation of PCE occurs under both aerobic and anaerobic conditions. Aerobic metabolism includes direct oxidation of CVOCs as an energy source, and fortuitous degradation of CVOCs (co-metabolism) during metabolism of other organic compounds. Under anaerobic conditions, CVOCs are degraded by reductive dechlorination (the sequential removal of chlorine atoms from a CVOC molecule). Degradation of both petroleum hydrocarbons and CVOCs may occur simultaneously during reductive dechlorination. Anaerobic reductive dechlorination efficiency decreases as chlorine atoms are removed, PCE is most readily degraded, and vinyl chloride is the most recalcitrant.

The natural attenuation screening (Section 5.3.3.2) and presence of breakdown products (TCE, cDCE, and VC) indicate that anaerobic biodegradation was occurring at the Site prior to implementation of the IA (PES, 2018). This process has been enhanced through preliminary Property pilot test injections in November 2015 and January 2016 (Section 4.2.3), Property IA injections in February and March 2019 (Section 4.3.5), and IA perimeter well injections in September and October 2020 and February and March 2021 (Section 4.3.5). These actions, as well as operation of the ERH/SVE system in 2013 and the injection of ISCO reagents between September 2018 and January 2019, have contributed to the destruction of contaminants in the subsurface. This is evidenced by generally decreasing concentrations of PCE and TCE over time in IA monitoring wells and Property-adjacent monitoring wells and MNA screening scores generally indicative of adequate or strong evidence of anaerobic biodegradation in those same monitoring wells (Table 17 and Figure 45). Generally decreasing CVOC concentration trends and geochemical parameter concentrations supportive of anaerobic biodegradation indicate a stable to slowly shrinking Site CVOC plume. However, high source area concentrations, downward hydraulic gradients, the relatively high groundwater flow rates in

some zones, and changing groundwater flow regimes caused by groundwater extraction in the vicinity have limited the effects of biodegradation to attenuate contaminants to levels below screening levels off of the Property during the RI monitoring period.

6.2.2 Migration Mechanisms and Pathways

Residual contaminants in unsaturated and saturated soil may be transported in air and water in the subsurface, with the processes described above contributing to the spread or retardation of contaminant movement. The following sections describe the migration mechanisms and transport pathways at the Site. Figure 47 provides a CSM cross section depicting the major mechanisms and pathways affecting migration, key hydrogeologic features impacting transport, and a depiction of the extent of CVOCs and benzene exceeding both the PCULs and a focused higher concentration part of the plume (greater than 100 μg/L). Figure 48 presents a CSM flow chart depicting sources, transport mechanisms, exposure media and pathways, and receptors.

6.2.2.1 Unsaturated Soil

Most of the unsaturated soil contamination at the Property was treated by the 2013 ERH/SVE independent action. The remaining Property vadose zone source mass was removed during construction of the building basement. The processes that affected migration of VOCs in the unsaturated zone before these independent and interim actions may have affected VOC migration in limited off-Property areas post-treatment are discussed below.

- **Pure Phase Flow.** When a release of a VOC product occurs in the subsurface, the product moves downward through the unsaturated soil as a non-aqueous phase liquid ("NAPL") under the force of gravity, including both DNAPL and light, non-aqueous phase liquid ("LNAPL"). Geologic heterogeneities control the amount of lateral spreading that occurs during the downward movement of NAPL, with NAPL either trapped in the vadose zone soil pores or able to reach the water table and the saturated zone. LNAPL can accumulate and spread along the water table. DNAPL will continue to move downward as described in the saturated soil discussion below. Pure-phase flow was probably the primary initial contaminant migration route for PCE in the former dry cleaning area and petroleum hydrocarbons in the fuel storage and distribution area. With removal of the vadose zone at the Property and the relatively low and localized vadose zone VOC detections off of the Property, pure-phase migration in the unsaturated soil is not considered a current migration pathway.

- **Leaching from Unsaturated Soil to Groundwater.** This process includes infiltration of natural precipitation through unsaturated soil, dissolution of pure-phase contaminants or flushing of soil pore water contaminants into the water, and transport of the contaminants to the saturated zone (groundwater). While likely an active contaminant migration pathway when the former dry cleaning and fueling activities were occurring, this process is not considered a significant migration pathway in Site unsaturated soil due to the removal of the vadose zone at the Property, the relatively low and localized vadose zone VOC detections off of the Property, and the pavement covering the areas with vadose zone VOC detections.

As discussed above, the primary processes affecting VOCs in the vadose zone are volatilization and diffusion, both potentially currently active between the Property and the Roy Aloha Shops parcel (in the SV01 area; see Figures 46 and 47).

6.2.2.2 Saturated Soil and Groundwater

Historically, DNAPL reaching the saturated zone beneath the Property would have moved downward, in a typically tortuous fashion along multiple flow paths. Downward DNAPL movement would have been controlled by the pore size distribution and bedding of the geologic unit, with disconnected blobs and ganglia left behind the trailing edge of the DNAPL mass. Downward DNAPL movement would have continued until the mass of DNAPL was exhausted or a soil layer fine enough to stop the DNAPL was encountered. In the latter case, the DNAPL would have pooled and spread laterally. Portions of a site containing DNAPL pools and/or residual DNAPL (blobs and ganglia) are termed the DNAPL source zone. As groundwater moves through the NAPL source zone, a plume of dissolved contaminants is generated; soluble constituents partition into groundwater dictated by the effective solubility of the solvent mixture. Dissolved contaminants then migrate by advection with groundwater. Volatile constituents from groundwater partition into the unsaturated zone vapor phase and migrate in soil vapor. According to Kueper et al. (2003), the lifespan of residual DNAPL in the unsaturated zone is considerably shorter than residual DNAPL in the saturated zone due to high unsaturated zone volatilization rates.

The primary transport mechanism from the Property source area and other source areas at the Site is advective flow of contaminants dissolved in groundwater. In the South Lake Union area, the higher elevation recharge areas on the surrounding hills and lower lake elevation drive shallower groundwater flow and shallower contamination near the Property toward Lake Union (Figure 24 and 25). The elevation difference between Lake Union and Elliott Bay may drive deeper groundwater flow from Lake Union toward Elliott Bay and to the south in the area south of Lake Union. As observed during the IA investigations and RI, dewatering at properties in and near the Site modifies the natural groundwater flow directions toward the areas being dewatered, with the effects most pronounced near the dewatering wells and in the water-bearing zone being pumped (Figures 26 through 28). Changes in Lake Union water levels also influence shallower groundwater flow, with the higher summer lake levels driving shallow groundwater away from the lake. Leaking pipes could also influence groundwater flow locally.

Other factors at the Site influencing groundwater flow and advective contaminant transport include the presence of relatively higher permeability Shallow, Intermediate A, and Deep Zone units and the presence of a dense/hard, generally fine-grained, low permeability aquitard beneath the Property and extending east toward the lake. Given the depositional environment and observations during drilling, the aquitard appears to be of glacial origin beneath and near the Property and of lacustrine origin nearer the lake. The aquitard is in the lower portion of the Intermediate Zone beneath the Property and immediately east of the Property, and is thicker, denser, and tighter than it appears to be east of 9th Avenue North, where it is in the upper portion of the Intermediate Zone (Figure 37). The higher elevation groundwater recharge and the presence of the aquitard result in generally downward hydraulic gradients from the Shallow Zone to the Deep Zone, with the effect of driving contamination during advection downward as well as in the horizontal groundwater flow direction. The thicker and denser nature of the aquitard beneath and near the Property better serves to limit downward advective

transport than does the thinner, less dense aquitard east of the alley. The aquitard appears to be particularly leaky near the area around the 9th Avenue North and Roy Street intersection, with higher deep groundwater elevations (mounding) and higher deep CVOC concentrations.

As discussed above, sorption/desorption in the plume serves to slow the rate of contaminant transport, extend the life of the plume (especially in the finer units and interbeds), and increase the concentrations of CVOCs sorbed to soil; dispersion (and to a lesser degree diffusion) serves to spread the plume; and biodegradation serves to slow the rate of contaminant transport and shorten the life of the plume. Potential CVOC dissolution from residual DNAPL beneath the Property would serve to extend the life of the plume.

Focusing on the CVOCs released at the Property, these transport mechanisms and pathways have resulted in a CVOC plume beneath and generally east and southeast of the Property with the extent of the plume increasing with depth (Figures 41 through 44 and Figure 47). The CVOC plume in the Shallow Zone extends east of the Property to approximately the alley and south of the Property to approximately the south side of Roy Street. The CVOC plume in the Intermediate Zone extends east of the Property to approximately 9th Avenue North and south of the Property to approximately the southern portion of the Seattle DOT Mercer Parcels. The CVOC plume in the Deep Zone extends east of the Property to approximately the west side of Lake Union (at an elevation well below the lake) and south of the Property to approximately the southern portion of the Seattle DOT Mercer Parcels. The extent of the Intermediate B Zone and Deep Zone CVOC plume at the southeast corner of the Site (near the intersection of Westlake Avenue North and Mercer Street) has been extended to the southeast by dewatering in properties in the vicinity, with the current extent (as of June 2021) to near the northwest corner of Block 38 West (Figures 43 and 44). Generally decreasing CVOC concentration trends and geochemical parameter concentrations supportive of anaerobic biodegradation indicate a stable to slowly shrinking plume, except where significantly influenced by the recent operation of construction-related dewatering systems.

The benzene plume east of the Property appears to have originated in the Shallow Zone at and east of the Roy Aloha Shops site and has migrated to the east and downward into the Intermediate Zone along 9th Avenue North and into the Deep Zone near the intersection of Westlake Avenue North and Broad Street. Forthcoming RIs at other cleanup sites east of the Property are expected to provide additional definition of the benzene plume and additional information on possible source(s) of that plume.

6.3 Current and Future Land and Water Use

The Property is currently zoned for mixed use (Seattle Mixed South Lake Union 175/85-280). Most other properties in the Site are also zoned for mixed use, with the area bordering Lake Union zoned for commercial uses. Based on the current redevelopment of the area, the future land use at the Property is reasonably expected to remain zoned for mixed or commercial use. Based on these zoning codes, a wide variety of light industrial, residential, and commercial uses are allowed, including daycare centers. Therefore, potential receptors at the Site currently and in the future are light industrial workers, workers and patrons of commercial and retail facilities, and area residents.

Groundwater at the Site is not currently used for drinking water, and though future use of groundwater in the South Lake Union area as a drinking water source is extremely unlikely, groundwater remains a future potential exposure pathway. Although Ecology has designated surface water in Lake Union to be protected for a wide range of uses (including domestic, industrial, and agricultural water supply), given the Site hydrogeology and lack of VOC transport at concentrations of concern from groundwater to the lake (nor a reasonable likelihood of such in the future; see Section 5.3.1.2), use of surface water in Lake Union for drinking water is not considered a potential exposure pathway.

6.4 Likely Vulnerable Populations and Overburdened Communities

This section presents the results of an evaluation of potential impacts to likely vulnerable populations and overburdened communities in the vicinity of the Site. The evaluation was conducted in accordance with Ecology's Implementation Memorandum No. 25 (Ecology, 2024). The purposes of this evaluation are to identify and reduce the impact of environmental and health disparities in Washington and improve the health of Washington residents, as well as support Ecology's decisions regarding site prioritization, cleanup decisions, and site hazard rankings. The evaluation has determined that the area assessed includes a likely vulnerable population or overburdened community in and near the southeastern edge of the Site. As discussed in more detail below, the potential for that population or community to be exposed to Site contamination is low.

Implementation Memorandum No. 25 states that the potentially exposed population includes a likely vulnerable population or overburdened community if the population meets any of the following criteria:

- The potentially exposed population is located in a census tract that is at or above the 80th Washington State percentile of the Demographic Index from the EPA's Environmental Justice ("EJ") Screening Tool;

- The potentially exposed population is located in a census tract that is at or above the 80th Washington State percentile of the Supplemental Demographic Index from the EJ Screening Tool; and

- The potentially exposed population is located in a census tract that ranks a 9 or 10 on the Environmental Health Disparities Index from the Washington State Department of Health ("DOH") Environmental Health Disparities Map ("EHD" Map).

The evaluation comprised all populations potentially threatened by the Site, including all populations residing either on-Site or off-Site who are reasonably likely to be exposed or potentially exposed to hazardous substances based on their land and resource uses at the Site (WAC 173-340-350[6][h][i]). Due to the recent abolition of EPA's Office of Environmental Justice and External Civil Rights, EPA's EJ Screening Tool is no longer accessible for use in the evaluation of vulnerable populations and overburdened communities. This evaluation, therefore, only included the DOH EHD Map[17] to evaluate whether vulnerable populations are

[17] DOH. 2025. Washington Environmental Health Disparities Map, Version 2.0. Washington State Department of Health. Revised January 8. https://fortress.wa.gov/doh/wtnibl/WTNIBL/.

present in the vicinity of the Site. Per DOH EHD Map, the Site includes portions of four Census Tracts:

- **53033006700:** west side of Lake Union, includes the Property at the south edge of the tract, 2018 population of 9,979;
- **53033006600:** south and southeast sides of Lake Union, includes Lake Union Park at the southwestern corner of the tract, 2018 population of 4,676;
- **53033007200:** south of 53033006700, includes Seattle DOT Mercer Parcels and Block 38 at the northern edge of the tract, 2018 population of 12,168; and
- **53033007200**: south of 53033006700, includes Block 37 at the northwest corner of the tract, 2018 population of 12,013.

The EHD Map combines 19 indicators of community and environmental health to create a cumulative ranking system that allows for comparison with other communities across Washington State. The indicators are ranked on a scale of 1 to 10 and are aggregated into the following four groups, which are also ranked on a scale of 1 to 10:

1. **Environmental Exposures:** diesel exhaust PM2.5 (fine particulate matter) emissions, ozone concentration, PM2.5 concentration, proximity to heavy traffic roadways, and toxic releases from facilities.
2. **Environmental Effects:** lead risk from housing, proximity to hazardous waste treatment storage and disposal facilities (TSDFs), proximity to National Priorities List facilities (Superfund Sites), proximity to Risk Management Plan (RMP) facilities, and wastewater discharge.
3. **Socioeconomic Factors:** no high school diploma, people of color, population living in poverty, primary language other than English, transportation expense, unaffordable housing, and unemployed.
4. **Sensitive Populations:** death from cardiovascular disease and low birth weight.

The rankings of the four groups are then aggregated into a final EHD rank. The EHD Map (a copy is provided in Appendix A) displayed the following EHD ranks for the four Site Census Tracts:

- **53033006700:** an EHD rank of 3, comprised of an Environmental Exposure rank of 10, an Environmental Effects rank of 9, a Socioeconomic rank of 1, and a Sensitive Populations rank of 1;
- **53033006600:** an EHD rank of 6, comprised of an Environmental Exposure rank of 10, an Environmental Effects rank of 9, a Socioeconomic rank of 1, and a Sensitive Populations rank of 3;

- **53033007200:** an EHD rank of 8 comprised of an Environmental Exposure rank of 10, an Environmental Effects rank of 10, a Socioeconomic rank of 3, and a Sensitive Populations rank of 5; and

- **53033007200**: an EHD rank of 10, comprised of an Environmental Exposure rank of 10, an Environmental Effects rank of 10, a Socioeconomic rank of 5, and a Sensitive Populations rank of 9.

In summary, potentially exposed populations (those with a ranking of 9 or 10 on the EHD map) are not present in three of the four Census Tracts that encompass the Site. The one Census Tract with a likely vulnerable population or overburdened community (Census Tract 53033007200) is located at or near the southeast portion of the Site; due to the location of that Census Tract at the downgradient edge of the Site, the presence of commercial office buildings in that area (pavement at the ground surface and no residences), and the low contaminant concentrations that are present well below the ground surface, the potential for a likely vulnerable population or overburdened community to be exposed to Site contamination is low.

6.5 Exposure Pathways and Receptors

Based on the Site investigation results and current and future land and water uses discussed above, the following sections summarize the exposure pathways and receptors. Figure 48 summarizes these pathways and receptors.

6.5.1 Soil

Potential transport and exposure pathways for soil contamination include the following:

- Direct contact exposures by human receptors, which comprise dermal absorption and/or ingestion of the contaminated soil beneath the Site;

- Leaching of contaminants in soil (unsaturated and saturated) to groundwater such that groundwater becomes contaminated and is a potential exposure pathway for human receptors (see Section 6.5.2); and

- Volatilization of contaminants to soil vapor and subsequent migration to air that can be inhaled by human receptors (i.e., indoor air via vapor intrusion or air within utility trenches or other excavations where vapors can accumulate).

Most of the Site (including the Property) is currently covered with pavement or buildings, which limits direct contact and minimizes soil leaching from the unsaturated zone. Except for the shallow soil in the street rights-of-way adjacent to the Property and the other properties with known releases, known contaminated soil at the Site is present at depths greater than 15 feet bgs that make direct contact by building occupants and site workers extremely unlikely. However, there is the potential that human receptors (site/construction workers) could be exposed to contaminants present in soil in these areas of the Site via direct contact (and potential incidental ingestion or inhalation) during future redevelopment and/or subsurface maintenance and construction activities.

Leaching from contaminated soil within the saturated zone to groundwater is a complete pathway at the Site. Volatilization of contaminants from soil to soil vapor is likely a complete pathway in the SV01 area on 8th Avenue North. Exposure of ecological receptors to Site-related contaminants does not appear to be a complete exposure pathway.
Given the highly developed nature of the South Lake Union area, including the buildings and pavement covering most of the Site, the commercial/industrial use of the property and surrounding area, and the depth of known contaminated soil (greater than 15 feet bgs) in the area outside the Property, terrestrial ecological exposure to Site-related contaminants in soil is unlikely (see Section 6.5.5).

6.5.2 Groundwater

There are no known active water supply wells located on or downgradient of the Property, and due to the Site's location in the city with public water supply readily available, use of groundwater as a drinking water source in the future is extremely unlikely. Consistent with WAC 173-340-720(1)(a), however, future use of deeper aquifers downgradient of the Site as a drinking water source must be presumed. Therefore, while not a current exposure pathway, ingestion of contaminated groundwater (drinking water) by human receptors is a potential future exposure pathway. Additionally, for properties undergoing future redevelopment within the Site footprint, direct contact, incidental ingestion of groundwater, and inhalation of vapors from dissolved contaminants are potential future exposure pathways for site workers during construction. Volatilization of contaminants from contaminated groundwater at the water table to soil vapor is likely a complete pathway in the SV01 area on 8th Avenue North.

6.5.3 Soil Vapor and Air

As noted above, Site contaminants in unsaturated zone soil and shallow groundwater can volatilize to soil vapor and subsequently migrate into indoor air via vapor intrusion, or accumulate in air within trenches and excavations, where they can be inhaled by human receptors (i.e., building occupants, construction workers). Based on the soil, groundwater, and soil vapor sampling conducted prior to and during the RI, it appears that there currently is not a vapor intrusion risk for human health at the Property. However, given the presence of vinyl chloride and benzene above the soil vapor screening level in the SV01 area and the periodic presence of benzene above the soil vapor screening level in the SV-24 area, there is the potential for a vapor intrusion risk if the current building or a future building at 800 Roy Street becomes occupied. There is also the potential for vapor inhalation risk for current or future site workers performing utility maintenance or other construction work within trenches and excavations in the vicinity of the Site.

6.5.4 Surface Water

As discussed in Section 5.3.1.2, the geology, groundwater flow, and chemistry results indicate that there is currently no transport of VOCs in groundwater to the lake at concentrations of concern for the surface water pathway. These factors also demonstrate that there is not a reasonable likelihood of VOC transport from groundwater to the lake in the future. For these reasons, transport of VOCs from the Site to the lake is an incomplete pathway.

6.5.5 Terrestrial Ecological Evaluation

Ecological exposure to contaminated soil is not a complete exposure pathway. Consistent with WAC 173-340-7491(1)(b), the site qualifies for an exclusion from a terrestrial ecological evaluation since the portions of the Site with soil contamination are in developed areas that are covered by buildings, paved roads, and sidewalks. These physical barriers prevent exposure to plants and wildlife, and institutional controls are or will be used to manage remaining contamination.

7.0 PROPOSED CLEANUP LEVELS AND AREAS OF CONCERN

MTCA-defined cleanup standards (WAC 173-340-700(3)) are composed of three separate components: cleanup levels, points of compliance, and additional regulatory requirements. This section of the RI report addresses proposed cleanup levels and the extent of the Site with soil or groundwater exceeding the proposed cleanup levels. The forthcoming FS report will discuss points of compliance and additional regulatory requirements that may apply to specific cleanup alternatives.

7.1 Proposed Media Cleanup Levels

The subsections below identify COPCs, screen the COPCs based on Site data and the conceptual site model to select proposed COCs, and develop proposed cleanup levels for these proposed COCs.

7.1.1 Selection of Chemicals of Potential Concern

PES screened the analytes detected in soil, groundwater, and soil vapor to identify COPCs and to eliminate from further evaluation those constituents that do not contribute significantly to the risk associated with the Site. The COPCs were identified in several steps consistent with the requirements provided in WAC 173-340-703.

During the 2017 through 2021 RI activities, 58 VOCs were detected in soil samples collected at the Site (Table 12 and Appendix G Tables G-1 through G-4), and 41 VOCs were detected in soil vapor samples collected at the Site (Table 12 and Appendix G Table G-12), including during investigations conducted prior to initiation of the IA. PES did not include in Table 12 and Appendix G Tables G-1 through G-4 the results of soil samples collected during soil pre-treatment on the Property or of stockpile samples collected at the Site (i.e., prior to 2017). During the 2017 through 2021 IA and RI activities, 54 VOCs were detected in groundwater at the Site (Table 12 and Appendix G Table G-5). PES did not include the results of groundwater samples collected prior to initiation of the IA investigations in the groundwater statistics (i.e., prior to 2017). Appendix G Tables G-1 through G-5 and Table G-11 include the maximum and minimum detections, the PCULs or screening levels, and the FOD. Table G-1 notes the elevations above which all on-Property soil was excavated during Property redevelopment (above elevations 0.7 to 10.7 feet), and Tables G-1 and G-2 also note the elevation ranges for CVOC treatment (+10 to -55 feet).

To identify COPCs, PES screened the vadose zone soil, saturated zone soil, groundwater, and soil vapor data following the process summarized in Figure 49:

1. If a PCUL did not exist for a compound and could not be developed, the compound was not carried forward as a COPC.
2. If a PCUL existed or could be developed, the results for that compound were compared to the PCUL. If the maximum detection for a compound did not exceed the PCUL, the compound was not categorized as a COPC. If the maximum detection for a compound exceeded the PCUL:

    a. The data for that compound were compared to the PCUL using the 3-part rule[18] (see notes to Figure 49) and if complying, reviewed to determine if a hot spot existed: if not, the compound was not categorized as a COPC, but if a hot spot for that compound existed it was categorized as a COPC.

    b. If the data for a compound did not comply with the 3-part rule, the FOD and maximum detection for the compound were compared to the PCUL (see Figure 49 and accompanying figure notes). If the results of those comparisons indicated that concentrations of the compound did not statistically exceed the PCUL by much, the distribution of concentrations were reviewed to determine if a hot spot existed; if not, the compound was not categorized as a COPC, but if a hot spot existed, the compound was categorized as a COPC. If the results of those comparisons indicated that concentrations of the compound statistically exceeded the PCUL significantly, the compound was categorized as a COPC.

Since there are multiple known or potential sources of VOCs contributing to contamination in the Site subsurface, the COPCs were reviewed relative to known or potential Site sources, distribution within the Site, persistence at a given location, presence in multiple media, and location relative to the Property IA. COPCs that appear to be sourced at locations other than the Property, and are not commingled with COPCs that originated from the Property, were eliminated as proposed COCs for the Site. PES categorized as proposed COCs all COPCs that were not screened out in this process, and all proposed COCs were carried forward for cleanup level development and consideration in future cleanup planning. As discussed below, although benzene found in Site groundwater and associated saturated soil has been sourced at locations other than the Property, since it is commingled with COPCs originating at the Property, it has been categorized as a "Retained COPC" (Retained Chemical of Potential Concern) and carried forward for data tracking purposes and cleanup level development.

[18] The 3-part rule refers to the process of determining statistical compliance for contaminants in soil and groundwater, in which (1) the upper one-sided 95 percent confidence limit on the mean is less than the cleanup level, (2) no single sample concentration is more than 2 times the cleanup level, and (3) less than 10 percent of the sample concentrations are greater than the cleanup level. For soil compliance, this applies to the distribution of soil data across the site (see WAC 173-340-740[7][c][iii]). For groundwater compliance, this applies to data for each individual well or monitoring location (see WAC 173-340-720[9][c][iv]).

7.1.1.1 Vadose Zone Soil

The vadose zone soil results were screened using the procedure described above. Table 19 presents the screening results. Four CVOCs (PCE, TCE, cDCE, and methylene chloride) and four petroleum hydrocarbons (1,2,4-TMB, 1,3,5-TMB, benzene, and GRO) were categorized as COPCs. Following is a discussion of each COPC, including the rationale for subsequently categorizing or eliminating each of the COPCs as a proposed COC:

1. **PCE, TCE, and cDCE:** PES categorized PCE, TCE, and cDCE as proposed COCs in vadose zone soil due to PCE's use during former operations at the Property, the occurrence of the other constituents as breakdown products of PCE, and the historical sources of these constituents in the subsurface at the Property.

2. **Methylene Chloride:** Methylene chloride is not a constituent associated with former operations at the Property and is not a biotic or abiotic breakdown product of PCE. It did not exceed the PCUL in vadose zone soil samples or saturated zone soil samples collected at the Property or along the perimeter of the Property. Soil methylene chloride detections exceeding the PCUL were limited to vadose zone and saturated zone soil samples primarily collected on the Seattle DOT Mercer Parcels (that were not co-located with CVOCs) and in isolated saturated zone soil samples collected in the alley east of the Roy Aloha Shops and on 9th Avenue North. Methylene chloride, additionally, is a periodic laboratory contaminant. Due to these factors, PES did not categorize methylene chloride as a proposed COC for vadose zone soil.

3. **1,2,4-TMB:** Although 1,2,4-TMB is associated with petroleum hydrocarbons, which were handled at the Property, it did not exceed the PCUL in vadose zone soil samples collected at the Property or along the perimeter of the Property. The five vadose zone soil 1,2,4-TMB PCUL exceedances occurred in samples collected on the Seattle DOT Mercer Parcels that were not co-located with CVOCs. Due to these results, PES did not categorize 1,2,4-TMB as a proposed COC for vadose zone soil.

4. **1,3,5-TMB:** Similar to 1,2,4-TMB, 1,3,5-TMB is associated with petroleum hydrocarbons, which were handled at the Property. It was not detected above the PCUL in vadose zone soil samples at the Property or along the perimeter of the Property. The only two vadose zone soil 1,3,5-TMB PCUL exceedances occurred in samples collected on the Seattle DOT Mercer Parcels that were not co-located with CVOCs. Based on these results, 1,3,5-TMB was not categorized as a proposed COC for vadose zone soil.

5. **Benzene:** Although benzene is associated with petroleum hydrocarbons, which were handled at the Property, it did not exceed the PCUL in vadose zone soil samples collected at the Property. In the sampling locations at the perimeter of the Property, only one vadose zone soil sample (A9C9 at 3 feet bgs) exceeded the benzene PCUL. A number of shallow vadose zone soil samples in the 8th Avenue North ROW (B-272, B-294, T-5, T7, T9, T10, and SV-16), Valley Street (SV-12), and Roy Street (TP-SD-04 and TP-SD-05) also exceeded the benzene PCUL. Nearby saturated soil results (where available) and groundwater results in nearby wells, however, indicate that none of the vadose zone soil PCUL exceedances have led to deeper soil or

groundwater benzene PCUL exceedances. Based on these isolated, shallow, and non-impactful vadose zone benzene PCUL exceedances, PES did not categorize benzene as a proposed COC for vadose zone soil. However, due to the presence of benzene in groundwater and associated deeper saturated soil elsewhere at the Site, benzene has been categorized as a Retained COPC for vadose zone soil.

6. **GRO:** Vadose soil samples from the Property were not analyzed for GRO. GRO was not detected in the five vadose zone soil samples collected along the perimeter of the Property. GRO was determined to be a vadose zone soil COPC based on two vadose zone PCUL exceedances off of the Property (B-270 on Valley Street and MW-331 in the alley east of the Roy Aloha Shops) and eight SDOT Mercer Parcels PCUL exceedances, none of which were co-located with CVOCs. Based on these results, GRO was not categorized as a proposed COC for vadose zone soil.

Of the 8 vadose zone soil COPCs, PES categorized PCE, TCE, and cDCE as proposed COCs and benzene as a Retained COPC in vadose zone soil.

7.1.1.2 Saturated Soil

The saturated zone soil results were screened using the procedure described above. Table 20 presents the screening results. Nine CVOCs (PCE, TCE, cDCE, tDCE, VC, 1,1-DCE, 1,2-dichloropropane, methylene chloride, and trans-1,3-dichloropropene), 11 petroleum hydrocarbons (1,2,3-TMB, 1,2,4-TMB, 1,3,5-TMB, benzene, ethylbenzene, GRO, MTBE, naphthalene, n-propylbenzene, toluene, and total xylenes), and one other VOC (acetone) were categorized as COPCs. Following is a discussion of each COPC, including the rationale for categorizing or eliminating each as a proposed COC:

1. **PCE, TCE, cDCE, tDCE, VC, and 1,1-DCE:** PES categorized these constituents as proposed COCs in saturated soil due to PCE's use during former operations at the Property, the occurrence of the other constituents as breakdown products of PCE, and the historical sources of these constituents in the subsurface at the Property.

2. **1,2-Dichloropropane:** 1,2-dichloropropane is a chemical intermediate in the production of CVOCs, including PCE. It is not a constituent associated with former operations at the Property and is not a biotic or abiotic breakdown product of PCE. It was not detected in vadose zone soil samples at the Site or above the PCUL in Site groundwater samples. 1,2-dichloropropane was identified as a saturated soil COPC based on four saturated soil detections, three of which exceeded the PCUL (B-223 and IW-54B near the former northern sewer line on the Property and MW-336 on the north side of Mercer Street east of 9th Avenue North). Both of the Property soil sample elevations were excavated during Property redevelopment. Given the removal of the Property saturated soil PCUL exceedances and the lack of PCUL exceedances in vadose zone soil and groundwater, PES did not categorize 1,2-dichloropropane as a proposed COC for saturated soil.

3. **Methylene Chloride:** For the same reasons discussed in the vadose zone soil evaluation of COPCs (i.e., not a Property-related constituent, not a PCE breakdown product, not detected above the PCULs on or near the Property, and a common laboratory contaminant), methylene chloride was not categorized as a proposed COC for saturated soil.

4. **Trans-1,3-Dichloropropene:** Trans-1,3-dichloropropene is not a constituent associated with former operations at the Property and is not a biotic or abiotic breakdown product of PCE. It is most often used as a pesticide in farming operations. It was not detected in vadose zone soil samples or groundwater samples at the Site. Trans-1,3-dichloropropene was screened as a COPC based on two saturated soil detections at elevations between -36 and -47 feet elevation in IW-14D (near the former loading dock sewer line), both of which exceeded the PCUL. The area was treated in the elevation range of the two samples during the IA. Due to the IA injections and the lack of detections in vadose zone soil and groundwater, PES did not categorize trans-1,3-dichloropropene as a proposed COC for saturated soil.

5. **1,2,3-TMB:** Although 1,2,3-TMB is associated with petroleum hydrocarbons, which were handled at the Property, it did not exceed the PCUL in vadose zone soil samples collected at the Property, in vadose zone or saturated soil samples along the perimeter of the Property, or in groundwater samples at or adjacent to the Property. The five saturated soil 1,2,3-TMB PCUL exceedances occurred in samples collected on the Property: B-205 and IW-7A near the former northeast quadrant USTs, B-236 in the southwest quadrant, B-241 near the former northern sewer line, and MW-135 near the former dock sewer line. Four of the five sample locations (B-205, B-241, IW-7A, and MW-135) were at elevations excavated during Property redevelopment and the fifth (B-236) was in a location treated by IA injection wells. Due to the IA excavation and injections, the lack of PCUL exceedances in vadose zone soil and Property groundwater, and the lack of off-Property co-located 1,2,3-TMB and CVOC PCUL exceedances, 1,2,3-TMB was not categorized as a proposed COC for saturated soil.

6. **1,2,4-TMB:** Although 1,2,4-TMB is associated with petroleum hydrocarbons, which were handled at the Property, it did not exceed the PCUL in vadose zone soil samples collected at the Property or along the perimeter of the Property and was not co-located with CVOCs. It also did not exceed the PCUL in saturated soil samples along the perimeter of the Property. Only seven saturated zone soil samples collected at the Property exceeded the 1,2,4-TMB PCUL, and soil at the location of four of them (B-205, B-241, IW-7A, and MW-135) was excavated during construction of the building basement. Additionally, soil at the other three locations (B-236, IW-23C, and MW-132) was treated during the IA. The only location with a groundwater screening level exceedance was at SCS-2, located on the northern portion of the 800 Aloha/Roy Street parcel. Based on these results and cleanup actions and the lack of off-Property co-located 1,2,4-TMB and CVOC PCUL exceedances, PES did not categorize 1,2,4-TMB as a proposed COC for saturated soil.

7. **1,3,5-TMB:** Although 1,3,5-TMB is associated with petroleum hydrocarbons, which were handled at the Property, it did not exceed the PCUL in vadose zone soil samples collected at the Property, in vadose zone or saturated soil samples along the perimeter of the Property, or in groundwater samples at or adjacent to the Property.

The saturated soil 1,3,5-TMB PCUL exceedances occurred in samples collected on the Property: B-205 near the former northeast quadrant USTs, B-236 in the southwest quadrant, B-241 near the former northern sewer line, and MW-135 near the former dock sewer line. Three of the four sample locations (B-205, B-241, and MW-135) were at elevations excavated during Property redevelopment and the fourth (B-236) was in a location treated by IA injection wells. Due to the IA injections, the lack of PCUL exceedances in vadose zone soil and Property groundwater, and the lack of off-Property co-located 1,3,5-TMB and CVOC PCUL exceedances, 1,3,5-TMB was not categorized as a proposed COC for saturated soil.

8. **Benzene:** Although benzene is associated with petroleum hydrocarbons, which were handled at the Property, it did not exceed the PCUL in vadose zone soil samples collected at the Property. Eighteen saturated zone soil samples collected at the Property exceeded the benzene PCUL. Soil at 13 locations (B-203 at 34 feet elevation, B-205 at 30 feet elevation, B-233 at 15 feet elevation, B-244 at 34 feet elevation, DB14 at 32 feet elevation, IW-7A at 35, 30, 25, 20, and 10 feet elevation, IW-8C at 28 feet elevation, IW-11D at 28 feet elevation, and IW-27B at 27 feet elevation) was excavated during construction of the building basement on the Property. Additionally, soil at three of the locations (B-203 at -1 feet elevation, IW-7A at 5 feet elevation, and IW-16D at -46 feet elevation) was treated during the IA, soil at one location (MW-133 at -95 feet elevation) did not cause a groundwater screening level exceedance in the well installed at that location, and soil at one location (B-216 at -3 feet elevation) did not cause a groundwater screening level exceedance in nearby wells. In the sampling locations at the perimeter of the Property, 10 saturated soil samples (A3C3 at 33, 28, and -2 feet elevation, A9C9 at 33 and 28 feet elevation, B1D1 at 31 feet elevation, B2D2 at 32 feet elevation, B4D4 at 33 feet elevation, B5D5 at 33 feet elevation, and B10D10 at 30 feet elevation) had benzene detections greater than the PCULs, as did a number of shallow soil samples in the 8th Avenue North ROW, but groundwater results in nearby wells indicate that none of these soil screening level exceedances have led to groundwater benzene screening level exceedances within this portion of the Site. Based on these results and IA activities addressing these areas, PES did not categorize benzene as a proposed COC for saturated soil. Due to the presence of benzene in groundwater and associated deeper saturated soil elsewhere at the Site, however, benzene has been categorized as a Retained COPC for saturated soil.

9. **Ethylbenzene:** Although ethylbenzene is associated with petroleum hydrocarbons, which were handled at the Property, it did not exceed the PCUL in vadose zone soil samples collected at the Property, in vadose zone soil samples or saturated soil samples along the perimeter of the Property, or in groundwater samples. Only one Property soil sample (DB14 at 32 feet elevation) exceeded the ethylbenzene PCUL, and that sample location was excavated during construction of the building basement. The primary locations of saturated soil ethylbenzene PCUL exceedances were in locations near off-Property sources (MW-309 and MW-331 downgradient of the northern portion of the 800 Aloha/Roy Street parcel, DMW-1S at the Seattle DOT Dexter Parcel, and MW-350 at the Seattle DOT Mercer Parcels). PES did not, therefore, categorize ethylbenzene as a proposed COC for saturated soil.

10. **GRO:** Eight saturated soil samples from the Property exceeded the GRO PCUL. Soil at the location of five of them (B-203 at 34 feet elevation, B-205 at 30 feet elevation, IW-7A at 30 and 25 feet elevation, and MW-135 at 25 feet elevation) was excavated during construction of the building basement. Soil at the remaining three locations (MW-132 at -15 feet elevation and MW-133 at -15 and -18 feet elevation) was treated during the IA. GRO was not detected in the 5 vadose zone samples or 19 saturated soil samples collected along the perimeter of the Property. The one GRO detection above the PCUL in saturated soil near the Property (B-212 at elevation 37 feet on the east side of Dexter Avenue North) did not have corresponding soil BTEX PCUL exceedances or groundwater GRO PCUL exceedances in nearby monitoring wells. Based on these results and the Property cleanup actions, GRO was not categorized as a proposed COC for saturated soil.

11. **MTBE:** Fourteen saturated soil samples from the Property exceeded the MTBE PCUL. Soil at the location of five of them (B-206 at 24 feet elevation, B-210 at 24 feet elevation, IW-1C at 14 feet elevation, and IW-3C at 24 and 14 feet elevation) was excavated during construction of the building basement. Soil at the remaining nine locations (B-210 at -21 feet elevation, B-211 at -30, -40, and -50 feet elevation, IW-3C at 4 feet elevation, MW-132 at -15 feet elevation, and MW-133 at -15, -45, and -80 feet elevation) was treated during the IA. MTBE was not detected in Property vadose zone samples and was only detected below the PCUL in two saturated soil samples collected along the perimeter of the Property. MTBE was not detected above the groundwater PCUL at the Site. Based on these results and the Property cleanup actions, PES did not categorize MTBE as a proposed COC for saturated soil.

12. **Naphthalene:** Naphthalene was not detected in vadose zone soil samples collected at the Property or along the perimeter of the Property. It was not detected above the saturated soil PCUL along the perimeter of the Property or above the groundwater PCUL at the Site. Only three saturated soil samples from the Property exceeded the naphthalene PCUL, with soil at all three locations (B-205 at 30 feet elevation, IW-7A at 25 feet elevation, and MW-135 at 25 feet elevation) excavated during construction of the building basement. Based on these results and the Property cleanup actions, PES did not categorize naphthalene as a proposed COC for saturated soil.

13. **N-propylbenzene:** N-propylbenzene was not detected in vadose zone soil samples collected at the Property or along the perimeter of the Property. It was not detected above the saturated soil PCUL along the perimeter of the Property or above the groundwater PCUL at the Site. Only one saturated soil sample from the Property exceeded the n-propylbenzene PCUL (B-205 at 30 feet elevation), and the location was excavated during construction of the building basement. Based on these results and the Property cleanup actions, n-propylbenzene was not categorized as a proposed COC for saturated soil.

14. **Toluene:** Toluene did not exceed the PCUL in vadose zone soil samples collected at the Property or in vadose zone or saturated soil samples along the perimeter of the Property. Only two saturated zone soil samples collected at the Property exceeded the toluene PCUL level. Soil at one of the locations (DB14 at 32 feet elevation) was excavated during construction of the building basement, and soil at one of the locations

(MW-133 at -45 feet elevation) was treated during the IA. None of the IA or RI groundwater samples exceeded toluene groundwater PCUL. Based on these results and the Property cleanup actions, toluene was not categorized as a proposed COC for saturated soil.

15. **Total Xylenes:** Total xylenes did not exceed the PCUL in vadose zone soil samples collected at the Property or in vadose zone or saturated soil samples along the perimeter of the Property. Only three saturated zone soil samples collected at the Property exceeded the total xylenes PCUL. Soil at all three of these locations (B-241 at 34 feet elevation, DB14 at 32 and 22 feet elevation) was excavated during construction of the building basement. None of the IA or RI groundwater samples exceeded total xylenes groundwater PCUL. Based on these results and the Property cleanup actions, PES did not categorize total xylenes as a proposed COC for saturated soil.

16. **Acetone:** Acetone is not a constituent associated with former operations at the Property, and it did not exceed the PCUL in Property vadose zone soil samples or in vadose zone or saturated soil samples collected along the perimeter of the Property. Only one saturated zone soil sample collected at the Property exceeded the acetone PCUL (B-248 at 2 feet elevation). The area near this boring was treated during the IA, and groundwater samples in the nearby monitoring wells screened at the same elevation did not exceed the groundwater acetone PCUL. Additionally, none of the IA or RI groundwater samples exceeded acetone groundwater PCUL. PES, therefore, did not categorize acetone as a proposed COC for saturated soil.

Of the 21 saturated soil COPCs, PES categorized PCE, TCE, cDCE, tDCE, VC, and 1,1-DCE as proposed COCs and benzene as a Retained COPC in saturated soil.

7.1.1.3 Groundwater

The IA and RI groundwater results were screened using the procedure described above. Table 21 presents the screening results. Seven CVOCs (PCE, TCE, cDCE, tDCE, VC, 1,1-DCE, and methylene chloride) and two petroleum hydrocarbons (benzene and GRO) were categorized as COPCs. Following is a discussion of each COPC, including the rationale for categorizing or eliminating each as a proposed COC:

1. **PCE, TCE, cDCE, tDCE, VC, and 1,1-DCE:** PES categorized these constituents as proposed groundwater COCs due to PCE's use during former operations at the Property, the occurrence of the other constituents as breakdown products of PCE, and the historical sources of these constituents in the subsurface at the Property.

2. **Methylene Chloride:** As discussed in the soil evaluation of COPCs, methylene chloride is not a constituent associated with former operations at the Property and is not a biotic or abiotic breakdown product of PCE. It did not exceed the PCUL in vadose zone soil samples or saturated zone soil samples collected at the Property or along the perimeter of the Property. The nine groundwater detections exceeding the PCUL were located at the Property (twice in MW-182 and once in MW-184), on the east side of 8th Avenue North (once in MW-156), in the alley east of the Roy Aloha Shops (once in MW108, once in MW110, and once in MW-314), on the west side of 9th Avenue North (once in MW113),

and on the Seattle DOT Mercer Parcels (once in HMW-2IA). Due to the isolated and inconsistent detections of methylene chloride above the PCUL, the preponderance of results below the MDL, and methylene chloride's periodic presence as a laboratory contaminant, methylene chloride was not categorized as a proposed groundwater COC.

3. **Benzene:** Benzene was detected above the groundwater PCUL in 78 of the more than 1,200 samples in the IA/RI data set. The PCUL exceedances were in wells near or downgradient of confirmed and suspected petroleum hydrocarbon sources at other properties: in the alley east of the Roy Aloha Shops (SCL-MW101, SCL-MW105, SCS-2, MW108, and MW-308), in the 9th Avenue North ROW east of the Block 79 East parcel (MW-318, MW-322, MW113, and FMW-140), the east side of the Westlake Avenue North ROW adjacent to Block 37 (MW128), Lake Union Park (MW-328 and MW-341), and the Seattle DOT Dexter Parcel (DMW-1S). Benzene was not detected above the groundwater PCUL in Property groundwater samples in the IA/RI data set collected in 2017 through 2021. Based on the distribution of the PCUL exceedances and the location of historical petroleum hydrocarbon sources off-Property adjacent to the benzene groundwater PCUL exceedances, PES did not categorize benzene as a proposed groundwater COC. However, due to the presence of benzene co-located with CVOCs in groundwater and associated deeper saturated soil near and downgradient of these historical petroleum hydrocarbon sources off of the Property, benzene has been categorized as a Retained COPC for groundwater.
4. **GRO:** GRO exceeded the groundwater PCUL in only four samples: one sample from DMW-1S on the Seattle DOT Dexter Parcel and three samples from SCS-2 on the Roy Aloha Shops. Taking into account CVOC interferences in the GRO analyses (see Section 4.4.7), GRO detections in wells at and adjacent to the Property did not exceed the groundwater GRO PCUL nor were the individual petroleum hydrocarbon-related analytes (e.g., BTEX) elevated in wells at and adjacent to the Property. Based on the locations of the PCUL exceedances near off-Property petroleum hydrocarbon sources and the lack of groundwater GRO PCUL exceedances at and adjacent to the Property, PES did not categorize GRO as a proposed groundwater COC.

Of the nine groundwater COPCs, PES categorized PCE, TCE, cDCE, tDCE, VC, and 1,1-DCE as proposed COCs and benzene as a Retained COPC in groundwater.

7.1.1.4 Soil Vapor

The soil vapor results were screened using the procedure described above (see Table 22). Two CVOCs (VC and chloroform) and two petroleum hydrocarbons (benzene and naphthalene) were categorized as COPCs. Following is a discussion of each COPC, including the rationale for categorizing or eliminating each as a proposed COC:

1. **VC:** PES categorized VC as a proposed soil vapor COC since VC detections at the end of the RI data set exceeded the soil vapor screening level east of the Property and because VC is a breakdown product of cDCE and tDCE.
2. **Chloroform:** Despite chloroform being identified as a COPC, PES did not categorize chloroform as a proposed soil vapor COC. Chloroform was not a vadose zone soil, saturated soil, or groundwater COPC, nor was there a chloroform source at the

Property. Additionally, the chloroform detections were relatively widespread and sporadic, and the potential presence of it in potable water, if leaked from nearby water lines (see Figures 4 and 11), also suggest that chloroform should not be categorized as a potential soil vapor COC.

3. **Benzene:** Benzene was detected twice above the soil vapor screening level, once in SV01 on the east side of 8th Avenue North (west side of the Roy Aloha Shops) and once in SV-24 in the alley east of the Roy Aloha Shops. Based on: (1) the absence of a benzene source in shallow groundwater at the Property, (2) the low concentrations of benzene in shallow groundwater along 8th Avenue North, (3) the widespread detections of benzene in vadose zone soil around the Roy Aloha Shops and (4) the significantly higher soil vapor benzene detection on the east side of the Roy Aloha Shops (SV-24) than on the west side of the parcel (SV01), benzene was not categorized as a proposed soil vapor COC. However, due to the presence of benzene in soil vapor on the west and east sides of the Roy Aloha Shops, benzene has been categorized as a Retained COPC for soil vapor.

4. **Naphthalene:** Naphthalene was detected three times above the soil vapor screening level, once (July 2020) in SV-14 on the north side of Roy Street east of 8th Avenue North (southeast corner of the Roy Aloha Shops) and twice (November 2020 and February 2021) in SV-24 in the alley east of the Roy Aloha Shops. The naphthalene detected at SV-14 appears to be anomalous, as it was not detected above the laboratory reporting limit at this location during subsequent events performed in 2020 and 2021, and it has generally not been detected in groundwater in the vicinity of this monitoring point. The naphthalene detected at SV-24 is in the vicinity of shallow groundwater naphthalene concentrations that exceed the groundwater screening level for protection of vapor intrusion near the historical petroleum release at the Roy Aloha Shops. For these reasons and the absence of naphthalene as a proposed soil or groundwater COC for the American Linen Site, naphthalene was not categorized as a proposed soil vapor COC.

In summary, PES categorized VC as the sole proposed soil vapor COC and benzene as a Retained COPC.

7.1.2 Development of Proposed Cleanup Levels

PES developed proposed RI cleanup levels using the same process Ecology used for the project (2015c, 2016a, and 2017), consistent with Ecology's expectations for Site cleanup level development (Ecology, 2015b):

- MTCA Method B provided the basis for establishing proposed cleanup levels at the Site. Cleanup level development considered calculated cancer risks, calculated noncancer hazard quotients, applicable or relevant and appropriate requirements ("ARARs"), cross-media transport, and PQLs;
- Proposed soil cleanup levels are protective of human health and the environment, considering leaching, direct contact, soil vapor, and air pathways; and
- Proposed groundwater cleanup levels are protective of human health (considering residential use) and the vapor intrusion and air pathways.

As discussed in Section 5.3.1, the reasonable maximum exposure scenario for the Site does not include surface water as a potential receptor, and PES, therefore, did not include that pathway in the development of proposed cleanup levels. Based on the current or future complete pathways identified in the CSM (Figure 48), PES developed proposed soil and groundwater cleanup levels for each proposed COC and Retained COPC identified in Section 7.1.1 (Appendix K Tables K-4 and K-5):

- Soil: PCE, TCE, cDCE, tDCE, VC, 1,1-DCE, and benzene; and
- Groundwater: PCE, TCE, cDCE, tDCE, VC, 1,1-DCE, and benzene.

Although tDCE, VC, 1,1-DCE, and benzene were not identified as proposed COCs for vadose zone soil, PES developed proposed vadose zone soil cleanup levels for them (1) to allow for calculation of additive hazard quotients and risks and (2) for consistency with the proposed saturated soil cleanup levels. Cleanup levels are not available for soil vapor, so the soil vapor screening levels for the project (Section 5.3.4) will continue to be used for evaluation of soil vapor results, and similar to vadose zone soil, include all six of the saturated soil and groundwater proposed COCs and the one Retained COPC (Appendix K Table K-6). Table K-6 also provides the air cleanup levels that would be used if needed based on the continued evaluation of the soil vapor and vapor intrusion pathway. The following subsections provide a brief summary of the proposed soil and groundwater cleanup level development.

7.1.2.1 Soil

The soil PCULs for the proposed COCs and Retained COPC were based on protection of groundwater as a drinking water source, with none of the proposed COC PCULs based on direct contact. Due to PCULs that were below the achievable PQLs, the PCULs were raised to the PQL for 1,1-DCE, PCE, and TCE (saturated zone only) and VC (vadose and saturated zones). With the elimination of the surface water pathway, the proposed COC cleanup levels could be based on the MTCA Method B cleanup levels for protection of human health (direct contact) or the MTCA Method B cleanup levels for protection of groundwater. PES selected the latter since they are the lower cleanup levels. Appendix K Table K-4 presents the development of the proposed vadose zone and saturated zone soil cleanup levels for the proposed COCs and Retained COPC. The proposed soil cleanup levels are provided in Table 23. The following discussion provides a brief summary of each proposed cleanup level:

- **PCE:** the vadose zone and saturated zone soil PCULs were selected as the proposed cleanup levels (0.050 and 0.005 mg/kg, respectively) since both are protective of groundwater. For the proposed PCE cleanup levels, the hazard quotients are both well below 1, and the cancer risks are both well below 1×10^{-5};
- **TCE:** the vadose zone and saturated zone soil PCULs were selected as the proposed cleanup levels (0.025 and 0.002 mg/kg, respectively) since both are protective of groundwater. For the proposed TCE cleanup levels, the hazard quotients are both well below 1, and the cancer risks are both well below 1×10^{-5};

- **cDCE:** the soil PCULs for the vadose zone and saturated zone were based on the protection of groundwater, so the proposed cDCE cleanup levels are the same as the PCULs: 0.078 mg/kg for vadose zone soil and 0.0052 mg/kg for saturated zone soil. The hazard quotients for the proposed cDCE cleanup levels are well below 1;

- **tDCE:** the proposed tDCE soil cleanup levels for the vadose zone (0.52 mg/kg) and saturated zone (0.032 mg/kg) are the same as the tDCE PCULs, since the PCULs were based on the MTCA Method B soil cleanup levels. The hazard quotients for the proposed tDCE cleanup levels are well below 1;

- **VC:** since the MTCA Method B vadose zone and saturated soil cleanup levels for protection of groundwater (0.0017 mg/kg and 0.000089 mg/kg, respectively) are below the PQL, the proposed VC vadose zone and saturated zone cleanup levels are based on the PQL (0.004 mg/kg). For the proposed VC cleanup levels, the hazard quotients are both well below 1, and the cancer risks are both well below 1×10^{-5};

- **1,1-DCE:** the vadose zone and saturated zone soil PCULs were selected as the proposed cleanup levels (0.046 and 0.004 mg/kg, respectively) since both are protective of groundwater. For the proposed 1,1-DCE cleanup levels, the hazard quotients are both well below 1; and

- **Benzene:** the vadose zone and saturated zone soil PCULs were selected as the proposed cleanup levels (0.027 and 0.002 mg/kg, respectively, with the latter based on the PQL) since both are protective of groundwater. For the proposed benzene cleanup levels, the hazard quotients are both below 1, and the cancer risks are both below 1×10^{-5}.

Table 23 summarizes the proposed vadose zone soil and saturated soil cleanup levels, and Table K-4 in Appendix K presents the proposed COC soil cleanup levels, including the additive hazard quotients and risks. For evaluation of the additive hazard quotients and risks, PES conservatively used the proposed vadose zone soil cleanup levels, since they are higher than the saturated soil cleanup levels. Table K-4 provides the concentration of each proposed COC yielding a hazard quotient of 1 (the Method B noncancer values), the concentrations of each proposed COC yielding a risk of 1×10^{-5}, and the calculated hazard quotients and risks (if applicable) at the proposed cleanup levels. The sum of the individual hazard quotients was well below 1, and the sum of the individual risk values was well below 1×10^{-5}, consistent with MTCA requirements, so no adjustments due to additive hazard quotients or additive carcinogenic risks was required.

7.1.2.2 Groundwater

The groundwater PCULs for the proposed COCs and Retained COPC were based on the federal or state drinking water maximum contaminant level (MCL) for PCE, tDCE, 1,1-DCE, and benzene; the MCL adjusted downward to a hazard quotient of 1 for TCE and cDCE; and the MCL adjusted downward to a carcinogenic risk of 1×10^{-5} for VC. With the elimination of the surface water pathway, the proposed cleanup levels for the proposed COCs and Retained COPC are based on drinking water beneficial uses. Table 23 summarizes the proposed

groundwater COC and Retained COPC cleanup levels, and Table K-5 presents the proposed groundwater COC and Retained COPC cleanup levels, including the additive hazard quotients and risks. All of the MCLs but those for cDCE and TCE yielded individual hazard quotients less than 1. The following discussion provides a brief summary of the proposed cleanup levels for each proposed COC:

- **PCE:** since the total PCE risk at the PCUL is well below 1 x 10^{-5}, the MCL-based PCUL (5 μg/L) is accepted as the proposed PCE cleanup level. For the proposed PCE cleanup level, the hazard quotient is well below 1;

- **TCE:** since the hazard quotient of the TCE PCUL is at 1, and the risk at the TCE PCUL is below 1 x 10^{-5}, the PCUL (4 μg/L) is accepted as the proposed TCE cleanup level. As discussed below, the proposed TCE cleanup level could be adjusted downward to meet the additive hazard quotients for similar target organs, but won't need to be if compliance samples contain concentrations at or below the proposed CULs and achieve additive risk at or below 1 x 10^{-5};

- **cDCE:** the cDCE PCUL (16 μg/L) is accepted as the proposed cleanup level since the hazard quotient is 1;

- **tDCE:** since the hazard quotient of the MCL-based PCUL (100 μg/L) is below 1 and tDCE is not a carcinogen, the PCUL is accepted as the proposed tDCE cleanup level. As discussed below, the proposed tDCE cleanup level could be adjusted downward to meet the additive hazard quotients for similar target organs, but won't need to be if compliance samples contain concentrations at or below the proposed CULs and achieve additive risk at or below 1 x 10^{-5};

- **VC:** since the hazard quotient of the VC PCUL is below 1, and the risk at the VC PCUL is at 1 x 10^{-5}, the PCUL (0.29 μg/L) is accepted as the proposed VC cleanup level;

- **1,1-DCE:** since the hazard quotient of the MCL-based PCUL (7 μg/L) is well below 1 and 1,1-DCE is not a carcinogen, the PCUL is accepted as the proposed 1,1-DCE cleanup level; and

- **Benzene:** since the total benzene risk is well below 1 x 10^{-5} and the hazard quotient is well below 1, the MCL-based PCUL (5 μg/L) was selected as the proposed benzene cleanup level. As discussed below, the proposed benzene cleanup level could be adjusted downward to meet the additive hazard quotients and risk for similar target organs, but won't need to be if compliance samples contain concentrations at or below the proposed CULs and achieve additive risk at or below 1 x 10^{-5};

Table K-5 in Appendix K provides the MTCA cleanup levels, PCULs, and individual hazard quotients and risk values, and additive groundwater hazard quotients and risk values. For the MTCA-required additive hazard quotient evaluation, the hazard quotients of chemicals targeting similar organs were added to ensure that the cumulative hazard quotient was below 1. 1,1-DCE and VC both target the liver, but the sum of their hazard quotients was well below the MTCA requirement of 1, so their proposed cleanup levels will not require adjustments.

TCE, tDCE, and benzene target the immune system, and the sum of their hazard quotients was greater than the MTCA requirement of 1. As noted below for total risk, evaluation of samples or areas for total TCE, tDCE, and benzene hazard quotients will only need to be conducted for wells or areas at or below the proposed cleanup levels during compliance evaluations in the future.

MTCA also requires that the additive carcinogenic risks be evaluated, with the total acceptable risk at or below 1 x 10^{-5}. As shown in Table K-5, the additive risks of PCE, TCE, VC, and benzene are approximately 2.4 x 10^{-5}. As outlined by Ecology (Ecology, 2017), the cleanup levels of one or more of the constituents causing the risk exceedance can be adjusted downward to achieve an additive risk at or below 1 x 10^{-5}. Alternatively, the additive risk can be calculated for individual samples or areas of the site to determine if the additive risk is at or below 1 x 10^{-5} for the sample or area. The additive risk evaluation only needs to be conducted for samples or areas that are at or below all the proposed cleanup levels (which are protective of drinking water). Any sample or area with a concentration of a COC above its cleanup level is automatically out of compliance. Since the lowest IA/RI VC PQL (0.1 μg/L, which is below many laboratory PQLs) is not much below the proposed VC cleanup level, the latter option has been selected (retaining the MCL-based cleanup levels with the additional requirement of checking for additive risk across all constituents).

Due to the very low vadose zone total hazard quotients and risk levels, the cross-media totals are essentially the groundwater totals (a hazard quotient of 1.6 and a total risk value of 2.4 x 10^{-5}). Based on this evaluation, no further cleanup level adjustments were required.

7.2 Areas of Concern

7.2.1 Soil

Since the proposed cleanup levels for vadose zone and saturated zone soil are the same as the PCULs, the areas of concern for soil are the same as the areas with soil exceeding the PCULs. Following is a brief summary.

7.2.1.1 Property

All vadose zone soil at the Property was excavated during construction of the of the building foundation and parking garage. Sampling of saturated soil after IA ISCO and EVO injections detected proposed COCs (primarily PCE, TCE, and cDCE) above the proposed cleanup levels in the former western boiler room in the west central part of the Property, the former loading dock in the north central part of the Property, and the southwest corner of the Property. The saturated soil proposed COC cleanup level exceedances were generally co-located with groundwater proposed COC cleanup level exceedances.

7.2.1.2 Outside the Property

In vadose zone soil and saturated soil, the primary proposed COCs detected above the proposed cleanup levels were PCE, TCE, and VC. Proposed soil cleanup level exceedances in the vadose zone were centered along 8th Avenue North to the east of the Property (Figures 29

through 32). Proposed cleanup level exceedances in saturated soil were primarily found along 8th Avenue North to the east of the Property, in the alley east of the Roy Aloha Shops, on 9th Avenue North to the north of Roy Street, and in the western portion of the Seattle DOT Mercer Parcels (Figures 29 through 32). As discussed in Section 5.3.2.2, these exceedances were concentrated in the Intermediate Zone, although proposed soil cleanup level exceedances also occurred in the Deep Zone in locations near the 9th Avenue North and Roy Street intersection (MW-323 and MW-324). Similar to saturated soil beneath the Property, the proposed COC cleanup level exceedances in off-Property saturated soil were generally co-located with proposed groundwater COC cleanup level exceedances. Considering the few proposed cleanup level exceedances outside the Property in vadose zone soil and in shallow soil further from the Property, it is likely that contaminated groundwater was the source of the proposed soil cleanup level exceedances.

7.2.2 Groundwater

Since the proposed cleanup levels for groundwater are based on the groundwater PCULs, the groundwater areas of concern are essentially the same as the areas exceeding the groundwater PCULs (Figures 41 through 44). Following is a brief summary.

7.2.2.1 Property

Groundwater samples collected from the IA monitoring wells after the ISCO and EVO injections at the Property document groundwater exceeding the proposed cleanup levels across the Property, with the largest exceedances in the former western boiler room in the west central part of the Property (MW-177 through MW-180), beneath (MW-170 through MW-172) and east (MW-165 and MW-166) of the former loading dock in the north central part of the Property, and the southwest corner of the Property (MW-181 through MW-184).

7.2.2.2 Outside the Property

In groundwater outside of the Property, PCE and its breakdown products (TCE, cDCE, and VC) were detected above the proposed cleanup levels in all four water-bearing zones, with 1,1-DCE also detected above the proposed cleanup level in the Intermediate and Deep Zones. Since the proposed cleanup levels are similar to the PCULs, the areas of concern for groundwater are the same as the areas with groundwater exceeding the PCULs. The areas of concern for groundwater extend to the south and east of the Property, increasing with depth (Figure 50). As discussed in Section 5.3.5.2, the areas of concern in these zones are consistent with eastward and downward groundwater flow from Property sources of the proposed COCs, modified by past construction dewatering at properties to the south and potentially other CVOC sources in the South Lake Union Area. Generally decreasing CVOC concentration trends and geochemical parameter concentrations supportive of anaerobic biodegradation indicate a stable to slowly shrinking plume, except where significantly influenced by the recent operation of construction-related dewatering systems.

In groundwater off-Property, benzene was not detected above the proposed cleanup levels in monitoring wells located along 8th Avenue North (on the west side of Seattle Roy Aloha Shops) but was detected above the proposed cleanup level at and east of the northern portion of the

Seattle Roy Aloha Shops in the Shallow and Intermediate A Zones, on the west side of 9th Avenue North in the Intermediate B Zone, and along the east side of Westlake Avenue North and at the south end of Lake Union Park in the Deep Zone. The benzene detections above the proposed cleanup level in the Intermediate and Deep Zones were collocated with CVOCs above the proposed cleanup levels. The distribution of the benzene plume is consistent with a source or sources at or east of the Seattle Roy Aloha Shops, the easterly groundwater flow direction, and a generally downward hydraulic gradient.

7.2.3 Soil Vapor

Based on RI soil vapor CVOC concentrations above the vapor intrusion screening levels, there are two areas of concern for soil vapor: the area at SV01 in 8th Avenue North east of the Property (benzene and vinyl chloride) and the area at SV-24 in the alley between 8th Avenue North and 9th Avenue North (benzene only). Figure 50 depicts the approximate extent of these areas.

8.0 SUMMARY AND CONCLUSIONS

The RI's objective was to fill data gaps to complete the evaluation of the Site's physical characteristics and nature and extent of contamination. For this RI report, PES has aggregated information generated during relevant Site-wide investigations, implementation of the Property IA, and the Site RI. Sections 8.1 through 8.5 summarize this information, and Section 8.6 outlines conclusions and provides a segue to the initial tasks in the forthcoming FS.

8.1 Site Background

The Property currently includes two adjacent 14-story office towers that encompass the entire parcel. Three levels of underground parking (below the elevation of 8th Avenue North) and a partial subgrade level for parking and support facilities (located between the elevation of Dexter Avenue North and 8th Avenue North) lie beneath the office towers. The recently-constructed buildings include on-street retail and offices at floors above the surrounding streets. Historically, a commercial laundry with heating oil USTs (1925 through mid-1990s), a gasoline service station (1925 through 1966), a laundry vehicle fuel dispenser and USTs (1947 through 1966), and various businesses (automotive repair shops, a bakery, and a car rental office after the mid-1990s) operated on the Property. Dry cleaning occurred at the commercial laundry between approximately 1966 and 1990.

In addition to the historical facilities that operated on the Property, the primary parcels near the Property with former commercial or industrial activities that could have also served as sources of subsurface contamination in the vicinity of the Site (Figure 6) include the following:

- Seattle Roy Aloha Shops east of the Property (vehicle maintenance, transformer testing, vehicle refueling, and fuel and transformer storage);
- Block 79 East (automotive welding, repair, and sales);

- 710 9th Avenue North (laundry, gasoline service station, automotive repair, a lithograph manufacturer, and a sheet metal fabrication and painting shop);
- South Lake Union Park (sawmill, glass manufacturing, and wooden boat repair);
- Block 37 (lumber mill, retail gasoline stations, and automobile service garages);
- Block 43 (a bottling facility, wood yard, a steam laundry, a retail biofuel station, and automobile repair shops, service shops, fueling facilities, and dealerships); and
- Seattle DOT Mercer Parcels (auto repair shop, gas station, automobile wrecking businesses, a paint manufacturer, and various painting businesses).

8.2 Site Investigations and Cleanup Actions

8.2.1 Pre-IA and RI Property-Related Investigations and Independent Actions

Various consultants conducted investigations at and adjacent to the Property between 1992 and March 2016. Those cumulative subsurface investigation tasks for the Site were extensive and detailed and included soil, groundwater, and soil vapor sampling and analysis; aquifer testing; and groundwater level measurement. Subsurface explorations were located from Aloha Street on the north to Mercer Street on the south, and from Dexter Avenue North on the west to Westlake Avenue North on the east. The maximum depth explored during these investigations was 145 feet bgs. Property-related independent actions included removal of four 6,000 gallon heating oil USTs and one 500 to 600-gallon UST, installation and operation of an extensive ERH/SVE system to clean up high concentrations of CVOCs in soil and groundwater beneath the Property (Figure 14), and pilot testing of ERD bioamendments in temporary wells on the Property (Figure 14).

8.2.2 Property IA

BMRD began design and implementation of an IA at the Property in 2017 to reduce the mass of contamination that remains on the Property through a combination of: (1) removal of contaminants (through soil excavation and groundwater dewatering) and (2) *in situ* treatment of contaminants in the saturated soil and groundwater beneath the excavation and adjacent to the eastern and southern (i.e., downgradient) Property boundaries. First, PES conducted a design investigation (soil borings and monitoring wells) and oversaw installation of 157 injection wells at the Property (Figure 11). Second, PES oversaw sequential injections of ISCO and EVO amendments in the lower portion of the Intermediate A Zone, the Intermediate B Zone, and the upper portion of the Deep Zone beneath the proposed development excavation. Third, the development contractor implemented groundwater dewatering from a series of well points installed in the sidewalls at the limits of the excavation, treating the water prior to disposal. Fourth, the development contractor excavated the entire depth of the vadose zone, Shallow Zone, and the upper portion of the Intermediate A Zone (to elevations between 0.7 feet and 10.7 feet). Fifth, the development contractor installed a single membrane liner system combining waterproofing and a contaminant vapor protection barrier beneath and up the sides of the building foundation. Sixth, PES oversaw installation of 63 injection wells and

24 monitoring wells through the bottom of the parking garage basement to allow injection of EVO beneath the building as needed in the future. Last, control of contaminant migration from the Property was implemented by installing and injecting EVO in 94 injection wells installed at 47 locations along 8th Avenue North and Roy Street on the downgradient perimeter of the Property. Performance groundwater monitoring has been conducted in monitoring wells beneath the Property (Figure 11) and outside of the Property boundaries (Figure 12) to provide data before, during, and after IA injection events.

8.2.3 Site RI

BMRD conducted the RI between September 2019 and June 2021. The RI field work included installation of 42 monitoring wells and 25 soil vapor probes, sampling soil every 5 feet during monitoring well drilling, analyzing 36 soil samples for grain size and 8 soil samples for vertical hydraulic conductivity, conducting hydraulic conductivity testing in 11 monitoring wells, measuring 7 quarterly rounds of groundwater levels in all network monitoring wells, collecting groundwater samples from 49 to 122 monitoring wells during 7 quarterly events, and collecting soil vapor samples from 1 to 2 soil vapor probes in three quarterly events and from 23 to 27 soil vapor probes in four quarterly events. RI data analysis included data collected prior to initiation of the IA; data collected during IA investigation and performance monitoring; data from the RI; and Site-related data from investigations and monitoring conducted at properties at and adjacent to the Site.

8.3 RI Findings

8.3.1 Geology

The Site sits at the intersection of marginal glacial and lacustrine depositional environments, with recent lake deposits, glacial till, glacial ice-contact deposits, and recessional lake deposits present in the near surface at the Site (Figure 15). Human activity in the area has removed and redeposited native materials and generated other artificial surface deposits. At depth, lithologic unconformities and buried topographies are common due to multiple stages of glacial advancement and retreat followed by post-glacial uplift. The resulting lithology is both horizontally and vertically heterogeneous. Based on the investigations conducted at the Site, the subsurface lithology beneath fill material consists of predominantly silty sand with lesser units of sand, silty gravel, silt, sandy silt, and clay (artificial fill overlying lacustrine deposits and glacial till and/or ice contact deposits). Below this are coarser deposits of sand and silty sand with variable amounts of gravel (outwash and/or interglacial deposits). Densities range from loose near the surface to very dense at depth. Drilling encountered dense to very dense soil in the borings at depths greater than 30 to 40 feet bgs, although drilling in the western portion of the Site encountered dense to very dense soil as shallow as 5 feet bgs.

8.3.2 Hydrogeology

8.3.2.1 Hydraulic Conductivity

Hydraulic conductivities of the saturated subsurface materials at the Site were determined by field (slug tests, Table 8) and laboratory (grain size, Table 7) methods. Based on the slug tests, the average horizontal hydraulic conductivities of the water-bearing zones were:

- Shallow Zone: 6.0×10^{-4} cm/sec;
- Intermediate A Zone: 2.7×10^{-3} cm/sec;
- Intermediate B Zone: 4.1×10^{-4} cm/sec; and
- Deep Zone: 3.3×10^{-3} cm/sec.

Based on lithology of the slug-tested screen zone or grain-size conductivity estimates, the average horizontal hydraulic conductivities ranged from:

- Gravel (GP): 3.4×10^{-3} to 6.1×10^{-3} cm/sec;
- Sand (SP): 6.0×10^{-3} to 5.0×10^{-2} cm/sec;
- Silty Sand (SM): 1.2×10^{-4} to 5.6×10^{-4} cm/sec;
- Sandy Silt or Silt (ML): 1.4×10^{-5} to 1.7×10^{-4} cm/sec; and
- Clay (CL): 2.8×10^{-7} to 1.1×10^{-6} cm/sec.

8.3.2.2 Groundwater and Surface Water Elevations

When no known dewatering activities were occurring at or near the Site (i.e., unpumped conditions), the depth to groundwater varied from 2.2 feet bgs to 43.5 feet bgs, with the shallowest depths to water predominantly in the eastern part of the Site and the deepest depths to water in the western part of the Site. Based on highest groundwater elevations in Shallow Zone wells, the vadose zone ranges from 18 to 22 feet thick on the western side of the Site and from 7 to 10 feet thick on the eastern side of the Site. During unpumped conditions, groundwater elevations were generally higher in the west part of the Site and lower to the east in the Shallow, Intermediate A, and Intermediate B Zones. In the same conditions, groundwater elevations in the Deep Zone were highest in the area around 9th Avenue North and Roy Street, and lower to the west and east of there.

The hydraulic gradient at the Site is predominantly downward. The higher downward gradients near the Property indicate a greater hydrologic separation between water-bearing in that area, which is consistent with the lithologic findings. Seasonal groundwater level changes in unpumped conditions ranged from approximately 2 to 9 feet, with the highest groundwater elevations in the spring and the lowest groundwater elevations in the late summer and early fall. Groundwater elevations decreased in all four water-bearing zones during periods of pumping, with the wells most impacted located in and adjacent to the dewatering wells and water-bearing zone being pumped.

The water level of Lake Union is maintained by the USACE between approximately 16.78 and 18.78 feet elevation, with the lower elevations during winter months (lowest levels between December and January) and the higher elevations during summer months (peak levels between May and June). Surface water elevations in Lake Union appear to be higher than adjacent groundwater elevations during the late spring and summer months when the lake elevation is maintained at its highest level. The lake water level appears to be higher than the nearby groundwater elevations in Deep Zone wells throughout the year. During periods of pumping, the Lake Union water elevations were predominantly above the groundwater elevations in all four water-bearing zones.

8.3.2.3 Hydrostratigraphy

Discontinuous water-bearing zones in glacial or ice-contact deposits in the west and lacustrine or interglacial deposits in the east underlie the Site. These zones have been classified as follows:

- Shallow Zone – an unconfined water-bearing zone in the fill, recent lacustrine deposits, and upper portion of the glacial till/ice-contact deposits;
- Intermediate Zone – dense to very dense, semi-confined to confined water-bearing zones in the glacial till/ice-contact deposits west of 9th Avenue North and medium dense to dense, semi-confined to confined water-bearing zones in the lacustrine deposits east of 9th Avenue North; and
- Deep Zone – a very dense, confined water-bearing zone in the outwash/interglacial deposits.

West of 9th Avenue North the Intermediate Zone is divided into an upper coarser zone (termed the Intermediate A Zone) and a lower finer zone (termed the Intermediate B Zone), but east of 9th Avenue North, the Intermediate Zone is thinner and there is less lithologic distinction between the Intermediate A and Intermediate B Zones. The Intermediate Zone serves as a leaky aquitard that is less permeable beneath and near the western edge of the Property (in the glacial deposits) and becomes leakier to the east (in the lacustrine deposits). A lower aquitard consisting of very hard, fine-grained glacial drift was found below the Deep Zone in a few locations.

8.3.2.4 Groundwater Flow Direction

When no known dewatering activities were occurring at or near the Site, the groundwater flow direction was generally to the east in the Shallow, Intermediate A, and Intermediate B Zones. In the same conditions, groundwater flow the Deep Zone was westward west of a groundwater high located in the 9th Avenue North area (between Westlake Avenue North and the alley) and eastward east of the groundwater high. Construction dewatering significantly affected the groundwater flow directions in all four water-bearing zones during the IA and RI, with easterly groundwater flow in all four zones when dewatering was occurring at Block 37; southeasterly groundwater flow in the southern portion of the Site in the Shallow, Intermediate A, and Intermediate B Zones and throughout the Site in the Deep Zone when dewatering was occurring at Block 38 West; and radial flow toward the Property in the Shallow, Intermediate A, and Intermediate B Zones when dewatering was occurring at the Property.

8.3.2.5 Groundwater Flow Velocity

PES estimated the groundwater flow velocity (also known as the seepage velocity or average linear velocity) when no pumping was known to be occurring in the area and when pumping was occurring at or near the Site. The estimated average horizontal flow velocities are as follows:

- Non-pumped conditions:
  - Shallow Zone: 0.008 to 0.58 feet per day;
  - Intermediate A Zone: 0.012 to 7.4 feet per day;
  - Intermediate B Zone: 0.001 to 0.56 feet per day; and
  - Deep Zone: 0.003 to 1.2 feet per day.
- Pumped conditions:
  - Shallow Zone: 0.024 to 1.7 feet;
  - Intermediate A Zone: 0.033 to 19.4 feet per day;
  - Intermediate B Zone: 0.003 to 1.1 feet per day; and
  - Deep Zone: 0.006 to 2.4 feet per day.

8.3.3 Nature and Extent of Contamination

8.3.3.1 Property

The primary constituents detected at the Property consist of PCE and its breakdown products (TCE, cDCE, tDCE, and VC). The ERH/SVE system installed and operated between April and December 2013 treated soil and groundwater down to an elevation of 0 feet (Shallow and upper Intermediate A Zones) over a large portion of the Property (see Figure 14), and the highest residual CVOC concentrations largely present at the margins of or outside of the Property ERH/SVE treatment zone, both laterally and vertically. Primary areas of high CVOC concentrations included the former western boiler room, near the former loading dock, the western end of the northern sewer line, the southwest corner of the Property, and the southeast corner of the Property.

Petroleum hydrocarbons were generally not detected in soil above the MDLs or in groundwater above the PCULs, with the limited detections above the PCULs generally in the depth range excavated during construction or in locations adjacent to injection wells. IA activities included removal of the Shallow and upper Intermediate A Zones during construction of the building basement and treatment of the remainder of the Intermediate A Zone, the Intermediate B Zone, and upper Deep Zone in much of the northwest, northeast, and southwest Property quadrants, and the southern portion of the southeast Property quadrant.

Groundwater samples collected from the IA monitoring wells after IA ISCO and EVO injections have generally shown CVOCs remaining above the PCULs with decreasing concentrations of PCE and TCE over time, except for wells at specific treatment intervals in the former western boiler room and the southwest corner of the Property. The MNA screening scores for the IA monitoring well groundwater samples have generally indicated adequate or strong evidence of anaerobic biodegradation.

8.3.3.2 Outside the Property

Soil. In vadose and saturated zone soil, the primary CVOCs detected above the PCULs were PCE, TCE, and VC, and the primary petroleum hydrocarbons detected above the PCULs were GRO, benzene, and ethylbenzene. Vadose zone CVOC PCUL exceedances were centered along 8th Avenue North to the east of the Property, and vadose zone petroleum hydrocarbon PCUL exceedances were primarily found in samples collected on the Seattle DOT Mercer Parcels and on the streets surrounding the Property. Saturated zone CVOC PCUL exceedances were primarily found along 8th Avenue North to the east of the Property, in the alley east of the Roy Aloha Shops, on 9th Avenue North to the north of Roy Street, and the western portion of the Seattle DOT Mercer Parcels. CVOC PCUL exceedances were concentrated in the Intermediate Zone, although Deep Zone CVOC exceedances also occurred in locations near the 9th Avenue North and Roy Street intersection (MW-323 and MW-324). The saturated soil zone CVOC PCUL exceedances were generally co-located with groundwater CVOC PCUL exceedances.

Petroleum hydrocarbons in saturated zone soil samples exceeded the PCULs near areas not related to operations at the Property, including the former UST locations on and east of the northern portion of the Seattle Roy Aloha Shops, along the west side of 9th Avenue North, in the northwest quadrant of the Seattle DOT Mercer Parcels, in the southeast corner of the Seattle DOT Dexter Parcel, south of Lake Union (MW-341 and MW-343), and isolated, relatively low-level (less than twice the PCUL) toluene PCUL exceedances elsewhere. The saturated soil zone petroleum hydrocarbon PCUL exceedances were co-located with groundwater petroleum hydrocarbon PCUL exceedances.

Groundwater. In groundwater outside of the Property, PCE, TCE, cDCE, and VC were detected above the PCULs in all four water-bearing zones, with 1,1-DCE also detected above the PCUL in the Intermediate and Deep Zones. Groundwater with CVOC PCUL exceedances extends to the south and east of the Property, with the area above the PCULs increasing with depth. During the RI, the maximum CVOC detections were generally closer to the Property in the shallower zones and farther from the property in the deeper zones. The elevated CVOC concentrations east of the Property (with higher concentrations of PCE and TCE closer to the Property) are consistent with the distribution of CVOCs in soil and groundwater in the former western boiler room area and the former loading dock area on the Property, the easterly groundwater flow direction, and the generally downward hydraulic gradient. The presence of CVOC concentrations multiple orders of magnitude above the PCULs to the south and southeast of the of the Property are reflective of past construction dewatering at properties to the south (e.g., Blocks 50, 55, and 56; see Figure 10). Although past operations and releases at the Property likely have contributed the bulk of the CVOCs to the Site plume, other CVOC sources in the South Lake Union Area may have also contributed CVOCs to the plume and may be significant sources in the more dilute, distal parts of the plume to the south and east. Generally decreasing CVOC concentration trends and geochemical parameter concentrations supportive of anaerobic biodegradation indicate a stable to slowly shrinking plume, except where significantly influenced by the recent operation of construction-related dewatering systems.

During the RI, the maximum petroleum hydrocarbon detections were in wells located in areas not related to operations at the Property, including at and east of the northern portion of the Seattle Roy Aloha Shops in the Shallow and Intermediate A Zones, in wells on the west side of 9th Avenue North in the Intermediate B Zone, and in wells near the 9th Avenue North and Roy Street intersection (FMW-140), along the east side of Westlake Avenue North (MW128), and at the south end of Lake Union Park (MW-328 and MW-341) in the Deep Zone. This distribution of petroleum hydrocarbons is consistent with a source or sources at the Seattle Roy Aloha Shops, the easterly groundwater flow direction, and the generally downward hydraulic gradient (see Figure 47).

Soil Vapor. The Tier 1 evaluation conducted during the RI indicates that areas with vadose zone soil concentrations above the soil screening levels and Shallow Zone groundwater concentrations above the vapor intrusion screening levels do not result in soil vapor concentrations exceeding the soil vapor screening levels, except in the area of SV01 (vinyl chloride and benzene) and locations bordering the Seattle Roy Aloha Shops (petroleum hydrocarbons). The vinyl chloride exceedances in the SV01 area are likely associated with the Property, and the petroleum hydrocarbons in the area around the Seattle Roy Aloha Shops are likely associated with former releases at that property.

8.4 Conceptual Site Model

8.4.1 Contaminant Sources

The primary sources of CVOC contamination were at the Property and included releases of PCE-containing liquids from the former dry cleaning operations. As a result of these releases, the most frequently detected and highest concentration constituents in both soil and groundwater include PCE and its breakdown products TCE, cDCE, and VC. Other CVOCs are detected less frequently and/or at much lower concentrations in soil and groundwater than the PCE and its breakdown products. Other properties that could have sourced CVOCs include Block 79E, Block 55, and the Seattle Roy Aloha Shops; however, remedial investigations for those sites are not yet complete and, therefore, potential sources or releases of CVOCs from those properties have not been confirmed.

The primary sources of benzene contamination at the Site have been documented to originate from other properties located within the Site boundaries, including confirmed releases at the Seattle Roy Aloha Shops, Seattle DOT Mercer Parcels, Seattle DOT Dexter Parcel, Block 37, Block 43, Block 79 East, and Block 38 West. The source of benzene at the Property was the UST system located in the northeast corner of the Property, which impacted soil and groundwater. Independent and interim actions at the Property and Property redevelopment removed the Property benzene source. The lack of groundwater benzene detections at the Property above the proposed cleanup levels during IA design and implementation sampling indicate that the Property benzene source did not, and does not currently, contribute to the Site benzene plume. Shallow soil containing benzene is also located in the street rights-of-way immediately surrounding the Property; the source of benzene in this soil is unknown, and it does not appear to contribute to the Site benzene plume.

8.4.2 Contaminant Fate and Transport

Historical desorption of CVOCs and benzene from soil in the source areas, continued desorption of CVOCs and benzene from secondary sources (fine-grained soil), and potential dissolution of residual DNAPL (COVCs) in the saturated zone beneath the Property and residual LNAPL (benzene) in the saturated zone at off-Property sources have likely generated most of the dissolved CVOCs and benzene in groundwater at the Site. Volatilization and diffusion are likely active processes in the vadose zone above the Shallow Zone plume. Anaerobic biodegradation that was occurring at the Site prior to implementation of the IA has been enhanced through preliminary Property pilot test injections in November 2015 and January 2016, Property IA injections in February and March 2019, and IA perimeter well injections in September/October 2020 and February/March 2021. These actions, as well as operation of the ERH/SVE system in 2013 and the injection of ISCO reagents between September 2018 and January 2019 have contributed to generally decreasing concentrations of PCE and TCE over time in IA monitoring wells and Property-adjacent monitoring wells and MNA screening scores generally indicative of adequate or strong evidence of anaerobic biodegradation in those same monitoring wells. Aerobic biodegradation of benzene in off-Property petroleum hydrocarbon sources is also likely an active process.

For the portion of the Site south and east of the Property, decreasing CVOC concentration trends and geochemical parameter concentrations supportive of anaerobic biodegradation indicate a stable to slowly shrinking Site CVOC plume. However, high source area concentrations, downward hydraulic gradients, the relatively high groundwater flow rates in some zones, and changing groundwater flow regimes caused by groundwater extraction in the vicinity have limited the effects of biodegradation to attenuate contaminants to levels below screening levels off of the Property during the RI monitoring period.

The primary transport mechanism from the Property source area and other source areas at the Site is advective flow of contaminants dissolved in groundwater, with Shallow and Intermediate Zone flow toward Lake Union and Deep Zone flow west and southeast from a groundwater high near the intersection of 9th Avenue North and Roy Street. Construction dewatering at and near the Site modifies the natural groundwater flow directions toward the areas being dewatered, with the effects most pronounced near the dewatering wells and in the water-bearing zone being pumped. Changes in Lake Union water levels also influence shallower groundwater flow, with the higher summer lake levels driving shallow groundwater away from the lake.

Groundwater flow and contaminant transport are further influenced by the presence of a dense/hard, generally fine-grained, low permeability aquitard beneath the Property and extending east toward the lake. The aquitard is in the Intermediate B Zone beneath the Property and immediately east of the Property, and is thicker, denser, and tighter than it appears to be east of 9th Avenue North, where it is in the Intermediate A Zone. The higher elevation groundwater recharge and the presence of the aquitard result in generally downward hydraulic gradients from the Shallow Zone to the Deep Zone, with the effect of both downward and horizontal contaminant movement. The thicker and denser nature of the aquitard beneath and near the Property better serves to limit downward advective transport than does the thinner, less dense aquitard east of the alley. The aquitard appears to be particularly leaky near the area around the 9th Avenue North and Roy Street intersection, with higher deep groundwater elevations (mounding) and higher deep CVOC concentrations.

As discussed above, sorption/desorption in the plume serves to slow the rate of contaminant transport, extend the life of the plume (especially in the finer units and interbeds), and increase the concentrations of CVOCs and benzene sorbed to soil; dispersion (and to a lesser degree diffusion) serves to spread the plume; and biodegradation serves to slow the rate of contaminant transport and shorten the life of the plume. Potential CVOC dissolution from any residual DNAPL beneath the Property and residual LNAPL at off-Property sources would serve to extend the life of the plume.

Focusing on the CVOCs released at the Property, these transport mechanisms and pathways have resulted in a CVOC plume beneath and generally east and southeast of the Property with the extent of the plume increasing with depth. The CVOC plume in the Shallow Zone extends east of the Property to approximately the alley and south of the Property to approximately the south side of Roy Street. The CVOC plume in the Intermediate A and B Zones extends east of the Property to approximately 9th Avenue North and south of the Property to approximately the southern portion of the Seattle DOT Mercer Parcels. The CVOC plume in the Deep Zone extends east of the Property to approximately the west side of Lake Union (at an elevation well below the lake) and south of the Property to approximately the southern portion of the Seattle DOT Mercer Parcels. The extent of the Intermediate B Zone and Deep Zone CVOC plume at the southeast corner of the Site (near the intersection of Westlake Avenue North and Mercer Street) has been extended to the southeast by dewatering in properties in the vicinity, with the extent as of June 2021 to near the northwest corner of Block 38 West.

For benzene, advective transport of petroleum hydrocarbons sourced east of the Property has led to a benzene plume located in the Shallow Zone at and east of the Roy Aloha Shops site that has migrated to the east and downward into the Intermediate Zone along 9th Avenue North and into the Deep Zone near the intersection of Westlake Avenue North and Broad Street.

8.4.3 Exposure Pathways and Receptors

Based on the current and expected future zoning codes and property uses, a wide variety of light industrial, residential, and commercial uses are allowed at the Site, including daycare centers. Groundwater at the Site is not currently used for drinking water, but consumption of groundwater cannot be ruled out in the future. Potentially exposed populations are not present in most of the Site, with a likely vulnerable population or overburdened community located at or near the southeast portion of the Site; due to the location of that population or community at the downgradient edge of the Site, the presence of commercial office buildings in that area, and the low contaminant concentrations that are present well below the ground surface, the potential for a likely vulnerable population or overburdened community to be exposed to Site contamination is low.

Based on these uses, the current and likely future Site conditions (paved or covered by buildings), and the depth of contamination, following are the potential exposure pathways and receptors for contaminated media at the Site:

- **Soil:** direct contact (including ingestion) of contaminated soil by site workers during maintenance activities, construction, or redevelopment; leaching of contaminants to groundwater; and volatilization of contaminants to soil vapor with subsequent migration to indoor air;

- **Groundwater:** ingestion of contaminated groundwater (drinking water) is a potential, though extremely unlikely, future exposure pathway; direct contact including incidental ingestion of groundwater and inhalation of vapors are potential future exposure pathways during construction; and volatilization of contaminants from contaminated groundwater at the water table to soil vapor is likely a complete pathway in the SV01 area on 8th Avenue North; and

- **Soil Vapor:** potential future vapor intrusion risk in the SV01 area if the current building or a future building at the Seattle Roy Aloha Shops becomes occupied.

Although Ecology has designated surface water in Lake Union to be protected for a wide range of uses (including domestic, industrial, and agricultural water supply), given the Site hydrogeology and lack of VOC transport at concentrations of concern from groundwater to the lake, use of surface water in Lake Union for drinking water, seafood consumption, or recreational purposes is not considered a potential exposure pathway.

8.5 Proposed Cleanup Levels and Areas of Concern

8.5.1 Proposed Cleanup Levels

PES screened the soil, groundwater, and soil vapor data collected during the IA and RI against the PCULs to determine COPCs, which were further screened against Property source contaminants, distribution of the COPCs across the Site, and presence of the COPCs in multiple media to identify proposed COCs. Proposed cleanup levels were developed for the proposed COCs. PES categorized as proposed COCs PCE, TCE, and cDCE in vadose zone soil; PCE, TCE, cDCE, tDCE, VC, and 1,1-DCE in saturated soil and groundwater; VC in soil vapor; and benzene as a Retained COPC in vadose zone soil, saturated soil, groundwater, and soil vapor. Table 23 presents the proposed cleanup levels for PCE, TCE, cDCE, tDCE, VC, 1,1-DCE, and benzene in vadose zone soil, saturated zone soil, and groundwater, and the subsurface soil vapor-related screening levels and indoor air cleanup levels.

8.5.2 Areas of Concern

Since the proposed cleanup levels for vadose zone and saturated zone soil are the same as the PCULs, the areas of concern for soil are the same as the areas with soil exceeding the PCULs. The saturated soil areas of concern are generally co-located with groundwater areas of concern (see Figure 50).

Vadose zone soil beneath the Property is not an area of concern, since all vadose zone soil was removed during construction of the building basement. At the Property, the area of concern for saturated soil and groundwater encompasses the Property, with the largest proposed cleanup level exceedances in the former western boiler room in the west central part of the Property, the former loading dock in the north central part of the Property, and the southwest corner of the Property.

Outside the Property, the area of concern for vadose zone soil is centered along 8th Avenue North to the east of the Property, and the areas of concern for saturated soil are located along 8th Avenue North to the east of the Property, in the alley east of the Roy Aloha Shops, on 9th Avenue North to the north of Roy Street, and in the western portion of the Seattle DOT Mercer Parcels. The saturated zone areas of concern are concentrated in the Intermediate Zone and in the Deep Zone near the 9th Avenue North and Roy Street intersection.

In groundwater outside of the Property, the areas of concern for groundwater extend to the south and east of the Property, with the areas of concern increasing with depth. The location of the groundwater areas of concern outside the Property are consistent with eastward and downward groundwater flow from Property sources of the proposed COCs, modified by past construction dewatering at properties to the south and southeast and potentially other CVOC sources in the South Lake Union Area. Generally decreasing CVOC concentration trends and geochemical parameter concentrations supportive of anaerobic biodegradation indicate a stable to slowly shrinking plume, except where significantly influenced by the recent operation of construction-related dewatering systems. Only one area of concern for soil vapor exists, the area at SV01 (benzene and vinyl chloride).

8.6 Conclusions

In conclusion, the RI for the American Linen Supply Co Dexter Ave Site has met the objective of filling data gaps to complete the evaluation of the Site's physical characteristics and nature and extent of contamination associated with the Site. The RI has:

1. Defined the lateral and vertical extents of Site CVOCs in soil and groundwater, as summarized in Section 8.3.3;

2. Collected sufficient groundwater elevation data to define groundwater flow in unpumped and pumped conditions, which indicate a predominant easterly flow direction toward Lake Union except for an area of westerly flow within the Deep Zone from a groundwater divide located near 9th Avenue North and Roy Street;

3. Collected sufficient groundwater quality data to evaluate the stability and seasonal variability of CVOCs, which indicate that concentrations within the Shallow, Intermediate, and Deep Zones are generally quantitatively stable or decreasing, except for a few locations that showed temporary increasing trends that coincided with construction dewatering activities at the Block 38 West property;

4. Collected sufficient data to evaluate the geologic materials at the Site and the hydraulic conductivities of the lithologies present at the Site, which are respectively summarized in Sections 8.3.1 and 8.3.2;

5. Collected sufficient geochemical, transport, and remediation parameter data to support development and evaluation of cleanup action alternatives;

6. Conducted a sufficiently robust vapor intrusion investigation to narrow the potential area of concern to one isolated location east of the Property; and

7. Screened the constituents detected above the PCULs to identify COPCs, further screened the COPCs to select proposed COCs, and determined proposed cleanup levels for the proposed COCs. Final COCs and final CULs will be established for the Site in the cleanup action plan (CAP) and may differ from those identified in this RI depending on the selected remedy and current MTCA cleanup levels at the time the CAP is finalized.

The RI activities, inclusive of previous investigations, have served to meet the substantive requirements of WAC 173-340-350(5) and (6). The RI provides sufficient information and data to support development of remedial alternatives for evaluation during the FS. While some minor data gaps may remain, those data gaps are not sufficient to preclude the evaluation of remedial alternatives. If necessary, additional investigative activities may be performed and integrated with development and evaluation of remedial alternatives during the FS.

The FS will present a summary of data collected since the end of the second quarter of 2021 (the end of the RI data period), updating the conceptual site model, as necessary. The FS will screen potentially applicable cleanup technologies, assemble the selected technologies into multiple cleanup alternatives, compare the alternatives, and select a preferred cleanup alternative for consideration by Ecology. Once a cleanup alternative has been selected, Ecology will request public review of the FS, the FS will be finalized, and a DCAP and cleanup design documents will be prepared.

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TABLES

Table 1

Potential Water Use Near South Lake Union
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Map No.	Date Installed	Name	Property Address	Township, Range, Section, Quarter, Quarter	Distance and Direction from 700 Dexter Avenue North	Ecology Well/Water Rights Database				Ecology Water Rights Database Information									Comments
						Well Log Available?	Reported Drilled Depth	Well Screen or Perforations		Record Number	Priority Date	Record Status	Applic. No.	Permit No.	Certif. No.	Record Type	Source	Use	
								Depth	Elevation										
Groundwater Supply Wells																			
1	2/18/99	Fisher Properties	100 Fourth Ave N	T25N, R4E, S30, SW¼, SE¼	2,900 feet SW	Yes	148	138 -148	-13 to -23	–	–	–	–	–	–	–	–	–	No record of use or current well status
2	8/30/01	Fisher Properties	100 Fourth Ave N	T25N, R4E, S30, SW¼, SE¼	2,900 feet SW	Yes	155	145 - 155	-20 to -30	–	–	–	–	–	–	–	–	–	No record of use or current well status
3	1936	Troy Laundry	300 Boren Ave N	T25N, R4E, S30, SE¼, SE¼	2,100 feet SE	Yes	555	297 - 308, 357 - 521	-202 to -213 -262 to -426	G1-002435CL G1-00389CWRIS	– 2/10/1971	Active Active	– 11589	– 10486	– G1-00389C	Claim Cert	GW GW	Ind Ind	Well data from Liesch, et al (1963) Well decommissioned 7/26/11 (SES, 2012)
4	–	Lake View Cemetery	1554 15th Ave E	T25N, R4E, S20, SE¼, SE¼	6,400 feet NE	No	300	NR	–	G1-28238	3/15/2005	Active	–	–	–	Appl	GW	I	No record of well installation details or current well status
5	–	J.L. Lorentz	2536 Mayfair Ave N	T25N, R4E, S19, NE¼, SE¼	6,500 feet NW	–	–	–	180	G1-139095CL	–	Active	–	–	–	Claim	S	I	1974 water right claim date; current status of spring not known
6	1921	Puget Sound Light & Power	Post Ave between Columbia & Cherry	T25N, R4E, S31, SE¼, SE¼	8,400 feet SSE	Yes	147	125 -147	-105 to -127	G1-00047SWRIS G1-00048SWRIS	– 1/1/2021	Active Active	47 48	– –	24 25	Cert Cert	GW GW	Ind Ind	Business no longer exists; status of the well not known
7	1901	Diamond Ice & Storage	1331 Western Ave	T25N, R4E, S31, SE¼, SE¼	6,800 feet S	Yes	479	467 - 479	-447 to -459	G1-00049SWRIS	1901	Active	49	–	23	Cert	GW	Ind	Business no longer exists; status of the well not known
8	11/15/13	Seattle Steam Company	1319 Western Ave	T25N, R4E, S31, SE¼, NW¼	6,800 feet S	Yes	385	335 - 370	-312 to -350	G1-28722	3/21/2012	Active	–	–	–	Permit	GW	Ind	
Surface Water Supply																			
9	–	City of Seattle	1241 Eastlake Ave E	T25N, R4E, S29, NW¼, NE¼	3,700 feet NE	–	–	–	–	S1-062167CL	1/1/1901	Active	–	–	–	Claim	SW	Ind	Lake Union water for cooling former electric generating plant
10	–	Lake Union Drydock	1515 Fairview Ave E	T25N, R4E, S29, NW¼, NE¼	4,000 feet NE	–	–	–	–	S1-076388CL	–	Active	–	–	–	Claim	SW	Ind	Lake Union water for ship and drydock ballast
11	–	D.D. Eggers	1901 N. Northlake Way	T25N, R4E, S20, NW¼, NW¼	6,900 feet NNE	–	–	–	–	S1-300558CL	–	Active	–	–	–	Claim	SW	Ind	Lake Union water for synthetic fuel production

Notes:

1. The Washington State Department of Ecology ("Ecology") well log and water rights databases, Washington State Department of Health ("DOH") Source Water Assessment Program database, and King County groundwater well database were reviewed in October 2020.
2. The DOH database indicated no Type A or B water sources or well head protection areas in the central Seattle area.
3. The King County groundwater well database showed no additional wells beyond those shown in the Ecology databases.
4. – = no information in database or not applicable, NR = not reported.
5. Source: GW = groundwater, S = spring, SW = surface water
6. Use: I = irrigation, Ind = industrial.
7. Well depths in feet below ground surface, and well screen elevations in feet (approximate) relative to the North American Vertical Datum of 1988.
8. References: a. Liesch B.A., C.E. Price, and K.L. Walters. 1963. *Water Supply Bulletin No. 20, Geology and Ground-Water Resources of Northwestern King County, Washington.* Washington Department of Conservation, Division of Water Resources.
   b. SoundEarth Strategies ("SES"). 2012. *Draft Remedial Investigation Report, Troy Laundry Property, 307 Fairview Avenue North, Seattle, Washington.* Prepared for Touchstone SLU LLC. May 2.

Table 2

Summary of Groundwater Extraction in and near the Site
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Month	Volume of Groundwater Extracted (gallons)														
	Block 50 815 Mercer St	Block 26W 500 Boren Ave N	Block 32 1001 Mercer St	Block 55 500 Dexter Ave N	Block 44 515 Westlake Ave N	Block 43 601 Westlake Ave N	Block 52 325 9th/ 300 8th Ave N	Block 45 400 9th Ave N	Block 56 400 Dexter Ave N	Block 37 600 Westlake Ave N	Block 31 625 Boren Ave N	Block 25 630 Boren Ave N	Property 700 Dexter Ave N	Block 38W 520 Westlake Ave N	400 Westlake Ave N
Jul-06	22,007,623														
Aug-06	6,388,300														
Sep-06	5,259,194														
October 2006 to January 2009: no known groundwater extraction															
Feb-09		1,716,700													
Mar-09		7,191,300	776,000												
Apr-09		5,755,600	7,935,900												
May-09		4,285,800	11,775,000												
Jun-09		573,566	10,793,000												
Jul-09			11,963,000												
Aug-09			12,345,900												
Sep-09			3,825,200												
Oct-09			40,600												
Nov-09			89,300												
Dec-09			51,600												
Jan-10			58,600												
Feb-10			17,700												
Mar-10			22,100												
Apr-10			29,600												
May-10			9,600												
June 2010 to July 2011: no known groundwater extraction															
Aug-11				139,300											
Sep-11				816,100											
Oct-11				1,098,000											
Nov-11				1,185,100											
Dec-11				1,123,100											
Jan-12				1,378,800											
Feb-12				549,800											

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American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Month	Volume of Groundwater Extracted (gallons)														
	Block 50 815 Mercer St	Block 26W 500 Boren Ave N	Block 32 1001 Mercer St	Block 55 500 Dexter Ave N	Block 44 515 Westlake Ave N	Block 43 601 Westlake Ave N	Block 52 325 9th/ 300 8th Ave N	Block 45 400 9th Ave N	Block 56 400 Dexter Ave N	Block 37 600 Westlake Ave N	Block 31 625 Boren Ave N	Block 25 630 Boren Ave N	Property 700 Dexter Ave N	Block 38W 520 Westlake Ave N	400 Westlake Ave N
March 2012 to February 2013: no known groundwater extraction															
Mar-13					5,945,000										
Apr-13					11,134,000										
May-13					10,083,000										
Jun-13					9,560,000										
Jul-13					6,926,000										
Aug-13					5,549,000										
Sep-13					1,834,000										
October 2013: no known groundwater extraction															
Nov-13						2,866,284									
Dec-13						4,224,355	121,900								
Jan-14						5,882,805	328,700	109,200							
Feb-14						6,631,545	1,111,300	638,500							
Mar-14						13,275,532	262,800	7,954,800							
Apr-14						13,542,303		5,636,000							
May-14						14,543,173		1,274,000							
Jun-14						13,941,891		1,395,300							
Jul-14						15,214,891									
Aug-14						10,736,974									
Sep-14						4,931,103									
Oct-14						3,867,104									
Nov-14						1,831,078									
Dec-14						1,125,723									
January 2015 to August 2015: no known groundwater extraction															
Sep-15									13,928,300						
Oct-15									14,412,700						
Nov-15									6,904,400						
Dec-15									8,782,100						
Jan-16									7,840,200						
Feb-16									8,083,600						
Mar-16									5,989,500						

Table 2

Summary of Groundwater Extraction in and near the Site
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Month	Volume of Groundwater Extracted (gallons)														
	Block 50 815 Mercer St	Block 26W 500 Boren Ave N	Block 32 1001 Mercer St	Block 55 500 Dexter Ave N	Block 44 515 Westlake Ave N	Block 43 601 Westlake Ave N	Block 52 325 9th/ 300 8th Ave N	Block 45 400 9th Ave N	Block 56 400 Dexter Ave N	Block 37 600 Westlake Ave N	Block 31 625 Boren Ave N	Block 25 630 Boren Ave N	Property 700 Dexter Ave N	Block 38W 520 Westlake Ave N	400 Westlake Ave N
April 2016 to March 2017: no known groundwater extraction															
Apr-17															
May-17										70,000,000 total during the period	120,000,000 total during the period				
Jun-17															
Jul-17															
Aug-17															
Sep-17															
Oct-17															
Nov-17															
Dec-17															
January 2018 to July 2019: no known groundwater extraction															
Jul-19													56,500		
Aug-19													276,625		
Sep-19													371,578	0	
Oct-19										261,900			45,077	213	
Dec-19										1,035,500			NA	1,376	
Jan-20										98,600			NA	48,740	
Feb-20													NA	22,780,800	NA
Mar-20													NA	22,780,800	NA
Apr-20													NA	17,285,173	NA
May-20													NA	18,295,496	NA
Jun-20													NA	16,663,000	NA
Jul-20													NA	16,984,000	NA
Aug-20														15,724,000	NA
Sep-20														13,602,837	NA
Oct-20														13,500,500	NA
Nov-20														12,873,700	NA
Dec-20														12,153,100	NA
Jan-21														4,650,000	NA
Feb-21														6,186,000	NA

Table 2

Summary of Groundwater Extraction in and near the Site
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

	Volume of Groundwater Extracted (gallons)														
Month	Block 50 815 Mercer St	Block 26W 500 Boren Ave N	Block 32 1001 Mercer St	Block 55 500 Dexter Ave N	Block 44 515 Westlake Ave N	Block 43 601 Westlake Ave N	Block 52 325 9th/ 300 8th Ave N	Block 45 400 9th Ave N	Block 56 400 Dexter Ave N	Block 37 600 Westlake Ave N	Block 31 625 Boren Ave N	Block 25 630 Boren Ave N	Property 700 Dexter Ave N	Block 38W 520 Westlake Ave N	 400 Westlake Ave N
Mar-21														5,588,500	NA
Apr-21															NA
May-21															NA
Jun-21															NA
Totals (gal)	33,655,117	19,522,966	59,733,100	6,290,200	51,031,000	112,614,761	1,824,700	17,007,800	65,940,800	71,396,000	120,000,000		>749,780	199,118,235	NA
Totals (M gal)	33.7	19.5	59.7	6.3	51.0	112.6	1.8	17.0	65.9	71.4	120		>0.7	199.1	NA

Notes:

1. Block numbers per Vulcan Real Estate; W = west half of block, E = east half of block.
2. Dewatering data for Blocks 50, 26, 32, 55, 44, 52, and 45 from a PowerPoint presentation (*Vulcan Block 43 Groundwater & Contaminant Transport Modeling* . GeoEngineers. July 24, 2015).
3. Dewatering data for Block 43 from *Groundwater Cleanup Report (Revised), South Lake Union Block 43 Site* , Farallon Consulting, November 2, 2018.
4. Dewatering data for Block 56 from King County Industrial Waste Monthly Self-Monitoring Reports for Wastewater Discharge Authorization No. 4345-01.
5. Dewatering data for Blocks 37, 31, and 25 from *Interim Action Completion Report, 700 Dexter Plume, Block 37 Property* , Farallon Consulting, April 9, 2018.
6. Dewatering data for Block 38W from the monthly Agreed Order No. DE 17963 progress reports and communications between April 2020 and March 2021, Farallon Consulting.
7. All elevations in feet relative to the North American Vertical Datum (NAVD 88).
8. NA = extracted volume not available
9. gal = gallons, M gal = million gallons
10. Dewatering systems designs for developments prior to 2014 not available. Based on the lowest basement elevations, these were likely screened near elevation 0.
11. The Block 43 dewatering system was operational from 11/8/13 to 12/15/14, averaging 194 gpm. It consisted of 22 dewatering wells screened at various elevations between +10 and - 40 feet.
12. The Block 37 groundwater capture system was operational from 4/17/17 to 12/18/17, averaging 194 gpm. It consisted of four pumping wells screened between approximately elevations 0 and -60 feet.
13. The Block 31 and 25 dewatering systems were operational from 5/18/17 to 10/19/17, averaging 479 gpm. It consisted of a series of dewatering wells screened between elevations +15 and -25 feet.
14. The Property dewatering system was operational from 8/6/19 to 7/20/20. It consisted of a series of well points screened between approximately +20 and 0 feet that were operated at regular intervals, with pumping rates typically averaging less than 10 gpm.
15. The Block 38W dewatering system was operational from 1/3/20 to 3/24/21. It consisted of 18 dewatering wells screened between elevations +10 and -30 feet.
16. Specifics about the 400 Weslake Ave N dewatering system are not known, but the bottom of the basement is approximately elevation 19 feet, so the dewatering system likely extended to at least elevation 10 feet.

Table 3

Monitoring Well and Boring Completion Details
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Log?	Surveyed?	Well Tag	Dates Drilled	Easting	Northing	Last Surveyed	Depth		Elevation			Well Screen				Well Dia (in)	Drill Rig Type	Casing Depth (ft bgs)
									Total (ft bgs)	Well (ft bgs)	Ground (ft)	Monument (ft)	TOC (ft)	Depth		Elevation				
														Top	Bottom	Top	Bottom			
Shallow Zone Wells																				
DMW-1S	615 Dexter, SE quadrant	Y	Yes	BLR921	03/05/19	1,268,247.25	231,651.70	Apr 2019	30.2	27.0	56.06	–	55.76	17.0	27.0	39.1	29.1	2	HSA	–
DMW-2S	615 Dexter, SE quadrant	Y	Yes	BME933	03/02/20	1,268,261.67	231,660.98	Mar 2020	40.4	35.0	56.03	–	55.74	25.0	35.0	31.0	21.0	2	HSA	–
DMW-4S	Alley S of SE quadrant of 615 Dexter	Y	Yes	BME929	02/26/20	1,268,253.79	231,624.29	Mar 2020	70.3	33.0	61.76	–	61.54	23.0	33.0	38.8	28.8	2	HSA	–
DMW-5IA	Alley S of 615 Dexter	Y	Yes	BME930	02/28/20	1,268,079.48	231,627.71	Mar 2020	70.3	50	69.48	69.48	69.15	39.8	49.8	29.4	19.4	2	HSA	–
DMW-6	615 Dexter, NE quadrant	Y	Yes	BME934	03/04/20	1,268,185.85	231,731.42	Mar 2020	50.3	44	66.30	66.30	66.08	34.0	44.0	32.1	22.1	2	HSA	–
DMW-7S	Dexter Ave N ROW, W side	Y	Yes	BLY432	10/26/20	1,268,275.54	231,679.41	Nov 2020	38.0	38.0	58.34	58.38	58.01	28.0	38.0	30.3	20.3	2	Sonic	–
DMW-8S	Dexter Ave N ROW, W side	Y	Yes	BLY431	10/27/20	1,268,275.52	231,659.22	Nov 2020	37.0	37.0	58.57	58.59	58.35	27.0	37.0	31.6	21.6	2	Sonic	–
DMW-9S	Dexter Ave N ROW, W side	Y	Yes	BLY430	10/27/20	1,268,275.18	231,623.75	Nov 2020	33.0	33.0	58.85	58.88	58.55	23.0	33.0	35.9	25.9	2	Sonic	–
DMW-10S	601 Dexter, NE quadrant	Y	Yes	BNF363	10/19/20	1,268,260.63	231,588.90	Nov 2020	55.3	55.0	59.46	59.55	59.24	35.0	55.0	24.5	4.5	2	HSA	–
DMW-11S	601 Dexter, NE quadrant	Y	Yes	BNF365	10/20/20	1,268,238.63	231,596.22	Nov 2020	55.2	50.0	61.15	61.19	60.86	30.0	50.0	31.2	11.2	2	HSA	–
DMW-12S	615 Dexter, S central edge of property	Y	Yes	BNF364	10/20/20	1,268,169.70	231,632.93	Nov 2020	55.5	55.0	66.05	66.02	65.67	30.0	50.0	36.1	16.1	2	HSA	–
DMW-13S	Alley S of SW quadrant of 615 Dexter	Y	Yes	BMP376	10/23/20	1,268,126.09	231,631.33	Nov 2020	50.4	50.0	66.28	66.30	65.02	30.0	50.0	36.3	16.3	2	HSA	–
DMW-14S	Alley S of SW quadrant of 615 Dexter	Y	Yes	BLY433	10/26/20	1,268,064.11	231,627.59	Nov 2020	51.0	51.0	70.29	70.32	70.15	41.0	51.0	29.3	19.3	2	Sonic	–
FMW-132	Block 38 West, N end	Y	TOC Elev	–	08/24/18	–	–	–	10	10.0	–	–	25.48	5.0	10.0	20.5	15.5	2	HSA	–
FMW-133	Block 38 West, N end	Y	TOC Elev	–	08/24/18	–	–	–	26.5	11.5	–	–	24.87	6.5	11.5	18.8	13.8	2	HSA	–
FMW-134	Block 38 West, S end	Y	TOC Elev	–	08/24/18	–	–	–	20	17.0	–	–	24.98	12.0	17.0	13.4	8.4	2	HSA	–
FMW-135	Block 38 West, N end	Y	TOC Elev	–	08/24/18	–	–	–	51.5	12.0	–	–	25.29	7.0	12.0	18.6	13.6	2	HSA	–
FMW-143	9th Ave N ROW, E side	Y	Yes	BLW-340	07/24/19	1,268,991.70	231,901.40	Nov 2019	30	28.0	32.99	33.03	32.69	23.0	28.0	10.0	5.0	2	Sonic	–
F13	Property, NE quadrant	N	Yes	NA	06/01/13	1,268,570.14	231,929.52	May 2017	40	40.0	38.38	38.38	39.69	10.0	40.0	28.4	-1.6	1	–	–
F5	Property, NW quadrant	N	Yes	NA	06/01/13	1,268,450.74	231,943.61	May 2017	40	40.0	39.05	39.14	39.00	10.0	40.0	29.1	-1.0	1	–	–
F9	Property, NE quadrant	N	Yes	NA	06/01/13	1,268,508.08	231,942.51	May 2017	40	40.0	38.48	38.54	38.76	10.0	40.0	28.5	-1.5	1	–	–
G12	Property, NE quadrant	N	Yes	NA	06/01/13	1,268,541.87	231,927.48	May 2017	40	40.0	39.39	39.39	39.40	10.0	40.0	29.4	-0.6	1	–	–
HC-B1	701 Dexter	Y	No	BLI-191	03/01/19	1,268,256.55	231,852.99	Unknown	60.3	–	58.00	–	–	30.0	40.0	28.0	18.0	2	HSA	–
HMW-1S	SDOT Mercer Parcels, NE quadrant	Y	Yes	BLI532	03/06/19	1,268,917.04	231,663.10	Aug 2020	31.5	30.2	36.01	36.12	35.73	20.0	30.0	16.0	6.0	2	HSA	–
HMW-2S	SDOT Mercer Parcels, NE quadrant	Y	Yes	BLR924	03/13/19	1,268,683.07	231,667.68	Aug 2020	30.0	30.0	47.39	47.56	47.28	19.8	29.8	27.6	17.6	2	HSA	–
HMW-9S	SDOT Mercer Parcels, SW quadrant	Y	Yes	BLZ189	03/02/20	1,268,475.20	231,607.54	Aug 2020	40.0	35.0	55.39	58.79	58.54	25.0	35.0	30.4	20.4	2	Sonic	–
HMW-10S	SDOT Mercer Parcels, SE quadrant	Y	Yes	BLZ193	03/03/20	1,268,682.53	231,564.81	Aug 2020	40.0	35.0	48.21	51.30	51.09	24.7	34.7	23.5	13.5	2	Sonic	–
HMW-11S	SDOT Mercer Parcels, SE quadrant	Y	Yes	BLZ195	02/24/20	1,268,889.17	231,574.99	Aug 2020	40.0	35.0	41.47	45.06	44.77	25.0	35.0	16.5	6.5	2	Sonic	–
HMW-17S	SDOT Mercer Parcels, NW quadrant	Y	Yes	BMP351	09/03/20	1,268,386.26	231,712.89	Nov 2020	45.5	45.0	57.21	57.41	57.35	35.0	45.0	22.2	12.2	2	HSA	–
HMW-18S	SDOT Mercer Parcels, NW quadrant	Y	Yes	BMP352	09/03/20	1,268,386.87	231,676.51	Nov 2020	45.3	45.0	57.61	57.70	57.44	35.0	45.0	22.6	12.6	2	HSA	–
HMW-19S	SDOT Mercer Parcels, NW quadrant	Y	Yes	BMP353	09/08/20	1,268,383.91	231,643.01	Nov 2020	46.4	45.0	58.20	61.35	61.08	35.0	45.0	23.2	13.2	2	HSA	–
HMW-20S	SDOT Mercer Parcels, NW quadrant	Y	Yes	BMP354	09/08/20	1,268,512.50	231,636.97	Nov 2020	35.8	35.0	53.81	56.90	56.49	25.0	35.0	28.8	18.8	2	HSA	–
HMW-21S	SDOT Mercer Parcels, SE quadrant	Y	Yes	BMP373	10/20/20	1,268,924.20	231,626.20	Nov 2020	41.5	40.0	38.17	38.17	37.92	30.0	40.0	8.2	-1.8	2	HSA	–
HMW-22S	SDOT Mercer Parcels, SE quadrant	Y	Yes	BMP374	10/22/20	1,268,923.70	231,592.80	Nov 2020	38.5	37.0	38.75	38.77	38.58	27.0	37.0	11.8	1.8	2	HSA	–
J15	Property, SE quadrant	N	Yes	NA	06/01/13	1,268,578.97	231,895.55	May 2017	40	40.0	38.74	38.74	38.85	10.0	40.0	28.7	-1.3	1	–	–
J5	Property, SW quadrant	N	No	NA	06/01/13	1,268,418.17	231,903.60	May 2017	40	40.0	39.84	40.05	39.95	10.0	40.0	29.8	-0.2	1	–	–
K8	Property, SW quadrant	N	Yes	NA	06/01/13	1,268,456.68	231,888.93	May 2017	40	40.0	39.90	40.46	40.39	10.0	40.0	29.9	-0.1	1	–	–
M15	Property, SE quadrant	N	Yes	NA	06/01/13	1,268,549.38	231,859.22	May 2017	40	40.0	39.48	39.64	39.82	10.0	40.0	29.5	-0.5	1	–	–
MW121 (B121)	8th Ave N ROW, E side	Y	Yes	BID-016	12/16/13	1,268,598.04	232,091.86	Dec 2013	26.5	25.0	–	–	41.72	15.0	25.0	26.7	16.7	2	HSA	–
MW125 (B125)	Valley St ROW, N side	Y	Yes	BID-020	12/20/13	1,268,598.04	232,091.86	Dec 2013	31.5	30.0	–	–	43.55	15.0	30.0	28.6	13.6	2	HSA	–
MW-154	Roy St ROW, S side	N	Yes	BKF-350	03/30/18	1,268,485.83	231,733.87	Apr 2018	35	35.6	53.05	53.07	52.57	25.3	35.2	27.8	17.9	2	HSA	–
MW-155	Roy St ROW, S side	N	Yes	BKF-354	04/10/18	1,268,721.17	231,733.31	Apr 2018	30	30.0	44.39	44.44	44.05	20.0	30.0	24.4	14.4	2	HSA	–
MW-159	8th Ave N ROW, E side	Y	Yes	BKF-358	04/16/18	1,268,680.42	231,910.30	Apr 2018	31	30.9	43.25	43.28	42.79	20.4	30.4	22.9	12.9	2	HSA	–
MW-210	Valley St ROW, S side	Y	Yes	NA	10/10/08	1,269,463.18	231,959.15	May 2017	20	20.0	27.09	27.17	26.57	5.0	20.0	22.1	7.1	2	HSA	–

Table 3

Monitoring Well and Boring Completion Details
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Log?	Surveyed?	Well Tag	Dates Drilled	Easting	Northing	Last Surveyed	Depth		Elevation			Well Screen				Well Dia (in)	Drill Rig Type	Casing Depth (ft bgs)
									Total (ft bgs)	Well (ft bgs)	Ground (ft)	Monument (ft)	TOC (ft)	Depth		Elevation				
														Top	Bottom	Top	Bottom			
MW-214	Valley St ROW, S side	Y	Yes	NA	10/01/14	1,269,388.42	231,861.09	May 2017	17	17.0	27.81	27.87	27.32	7.0	17.0	20.8	10.8	2	HSA	–
MW-301	Valley St ROW, S side	Y	Yes	BLR-795	09/20/10	1,268,438.37	232,058.67	Nov 2019	30	28.4	53.84	53.84	53.54	18.3	28.3	35.6	25.6	2	Sonic	–
MW-305	Roy St ROW, S side	Y	Yes	BMF-579	10/03/19	1,268,248.04	231,758.02	Nov 2019	35	33.0	60.23	60.27	59.86	22.8	32.8	37.4	27.4	2	Sonic	–
MW-310	Alley E of Seattle Roy Aloha Shops	Y	Yes	BMF-590	09/17/19	1,268,804.70	232,047.86	Nov 2019	25	23.9	32.90	32.93	32.48	13.8	23.8	19.2	9.2	2	Sonic	–
MW-312	Alley E of Seattle Roy Aloha Shops	Y	Yes	BMF-589	09/17/19	1,268,807.34	231,926.26	Nov 2019	26	25.9	35.63	35.66	34.99	15.8	25.8	19.9	9.9	2	Sonic	–
MW-313	Alley E of Seattle Roy Aloha Shops	Y	Yes	BMF-586	09/12/10	1,268,808.11	231,817.18	Nov 2019	30	29.6	39.81	39.84	39.53	19.5	29.5	20.4	10.4	2	Sonic	–
MW-320	9th Ave N ROW, W side	Y	Yes	BLR-800	10/01/19	1,268,936.05	231,911.09	Nov 2019	30	25.7	34.10	34.13	33.57	15.5	25.5	18.6	8.6	2	Sonic	–
MW-332	Roy St ROW, N side	Y	Yes	BMP 105	04/17/20	1,268,901.68	231,795.43	Jun 2020	30	30.6	36.32	36.3	35.72	20.3	30.3	16.0	6.0	2	Sonic	–
MW-337	Lake Union Park, N end	Y	Yes	BMP-111	05/01/20	1,269,172.36	232,192.21	Jun 2020	20	19.9	27.76	27.88	27.51	9.7	19.7	18.1	8.1	2	Sonic	–
MW-339	Lake Union Park, S end	N	Yes	BMP-114	05/05/20	1,269,264.79	232,014.53	Jun 2020	20.3	20.3	28.25	28.37	28.06	10.1	20.1	18.2	8.2	2	Sonic	–
MW-8	Seattle Roy Aloha Shops, N end	N	TOC Elev	NA	October 1993	–	–	–	19	19.0	–	–	33.19	4.5	19.0	28.7	14.2	2	–	–
MW-9	8th Ave N ROW, E side	N	TOC Elev	NA	October 1993	1,268,673.31	232,099.67	Nov 2019	22	22.0	41.05	41.05	40.74	7.0	22.0	34.1	19.1	2	–	–
N7	Property, SW quadrant	N	Yes	NA	06/01/13	1,268,413.11	231,847.65	May 2017	40	40.0	51.76	53.56	52.44	10.0	40.0	41.8	11.8	1	–	–
R-MW2	Property, NE quadrant	Y	TOC Elev	NA	10/22/92	–	–	–	15	15.0	–	–	41.74	5.0	15.0	36.7	26.7	2	HSA	–
R-MW3	Property, NE quadrant	Y	TOC Elev	NA	10/22/92	–	–	–	17	17.0	–	–	41.74	7.0	17.0	34.7	24.7	2	HSA	–
R-MW5	Dexter Ave N ROW, E side	Y	Yes	NA	10/27/92	1,268,352.05	231,915.02	Nov 2019	30	30.0	57.35	57.28	57.01	15.0	30.0	42.4	27.4	2	HSA	–
R-MW6	8th Ave N ROW, W side	Y	Yes	NA	10/27/92	1,268,622.13	231,825.18	Dec 2013	22	22.0	–	45.51	45.28	12.0	22.0	33.3	23.3	2	HSA	–
SCL-MW101	Alley E of Seattle Roy Aloha Shops	N	TOC Elev	AGI-540	June 2002	1,268,818.93	232,188.81	Nov 2019	–	15.0	30.48	30.48	30.02	5.0	15.0	25.5	15.5	2	–	–
SCL-MW105	Alley E of Seattle Roy Aloha Shops	N	TOC Elev	–	June 2002	1,268,821.22	232,236.18	Nov 2019	–	30.0	31.07	31.08	30.77	20.0	30.0	11.1	1.1	2	–	–
SCS-2	Seattle Roy Aloha Shops, N end	N	TOC Elev	ABV-825	February 1996	–	–	–	–	21.0	–	–	39.16	11.0	21.0	28.2	18.2	4	–	–
Intermediate A Zone Wells																				
BB-8	Roy St ROW, S side	Y	Yes	NA	06/06/97	1,268,704.64	231,761.74	Nov 2019	78.5	40.0	44.00	44.01	43.64	30.0	40.0	14.0	4.0	2	HSA	–
DMW-3IA	615 Dexter, NE quadrant	Y	Yes	BME932	02/27/20	1,268,264.12	231,698.15	Mar 2020	50.3	49.2	56.09	56.09	55.84	39.0	49.0	16.8	6.8	2	HSA	–
FMW-136	Block 38 West, S end	Y	TOC Elev	–	08/22/18	–	–	–	40	40.0	–	–	24.79	30.0	40.0	-4.9	-14.9	2	HSA	–
FMW-142	9th Ave N ROW, E side	Y	Yes	BLW-342	07/24/18	1,268,991.88	231,918.28	Nov 2019	45	42.5	32.87	32.90	32.52	37.5	42.5	-4.6	-9.6	2	Sonic	–
GEI-1	Block 37, SW quadrant	Y	Yes	BIJ 461	04/16/14	1,269,362.77	231,828.18	2014	81.5	26.8	28.35	–	27.95	26.8	36.8	1.2	-8.9	2	HSA	–
GEI-MW-1	Block 79 East, N end	Y	TOC Elev	BIJ-490	08/22/14	1,268,931.69	232,238.25	Jul 2020	61.5	59.9	30.50	30.63	30.30	39.8	59.8	-9.5	-29.5	2	HSA	–
GEI-MW-2	Block 79 East, S end	Y	TOC Elev	BIJ-492	08/23/14	–	–	–	60	37.1	–	–	31.00	27.0	37.0	4.0	-6.0	2	HSA	–
GEI-MW-3	Block 79 East, S end	Y	TOC Elev	BIJ-491	08/23/14	–	–	–	65.5	59.5	–	–	30.75	49.4	59.4	-18.7	-28.7	2	HSA	–
HC-4	601 Dexter, NE quadrant	N	TOC Elev	BLR695	04/12/19	1,268,251.49	231,573.25	Unknown	50	50	60.23	–	–	40.0	50.0	20.2	10.2	2	HSA	–
HMW-2IA	SDOT Mercer Parcels, NE quadrant	Y	Yes	BLR922	03/08/19	1,268,696.96	231,646.61	Aug 2020	46.0	44.8	45.55	47.69	47.51	34.8	44.8	10.8	0.8	2	HSA	–
HMW-3IA	SDOT Mercer Parcels, NW quadrant	Y	Yes	BLR925	03/15/19	1,268,425.85	231,681.84	Aug 2020	45.5	44.8	55.02	55.01	54.75	34.8	44.8	20.2	10.2	2	HSA	–
HMW-6IA	SDOT Mercer Parcels, SW quadrant	Y	Yes	BLZ185	03/02/20	1,268,379.66	231,552.50	Aug 2020	50.0	47.5	58.65	61.47	61.27	37.5	47.5	21.2	11.2	2	Sonic	–
HMW-9IA	SDOT Mercer Parcels, SW quadrant	Y	Yes	BLZ190	02/28/20	1,268,480.44	231,610.72	Aug 2020	50.0	46.7	55.26	58.35	58.21	36.7	46.7	18.6	8.6	2	Sonic	–
HMW-20IA	SDOT Mercer Parcels, NW quadrant	Y	Yes	BMP-356	09/09/20	1,268,516.08	231,634.12	Nov 2020	51.3	51.0	53.83	56.80	56.47	41.0	51.0	12.8	2.8	2	HSA	–
MW107 (B107)	8th Ave N ROW, W side	Y	Yes	BHS-773	12/03/12	1,268,625.98	231,885.01	Jun 2020	45.5	45.0	–	44.20	43.82	35.0	45.0	8.8	-1.2	2	HSA	–
MW108 (B108)	Alley E of Seattle Roy Aloha Shops	Y	Yes	BHS-765	12/14/12	1,268,805.44	232,044.39	Dec 2013	50.5	50.0	–	33.15	32.78	40.0	50.0	-7.2	-17.2	2	HSA	–
MW109 (B109)	Alley E of Seattle Roy Aloha Shops	Y	Yes	BHS-771	12/04/12	1,268,808.01	231,942.36	Dec 2019	45.5	45.0	35.53	35.54	34.87	35.0	45.0	0.0	-10.0	2	HSA	–
MW110 (B110)	Alley E of Seattle Roy Aloha Shops	Y	Yes	BHS-772	12/04/12	1,268,806.34	231,814.34	Dec 2013	45.5	45.0	–	40.04	39.67	35.0	45.0	4.7	-5.3	2	HSA	–
MW114 (B114)	SDOT Mercer Parcels, NW quadrant	Y	Yes	BHS-768	12/10/12	1,268,537.67	231,656.12	Dec 2013	45.5	45.0	–	46.38	45.84	35.0	45.0	10.8	0.8	2	HSA	–
MW115 (B115)	9th Ave N ROW, W side	Y	Yes	BHS-766	12/13/12	1,268,948.67	231,824.86	May 2017	46	45.0	34.44	34.48	34.10	35.0	45.0	-0.6	-10.6	2	HSA	–
MW116 (B116)	9th Ave N ROW, W side	Y	Yes	BHS-769	12/07/12	1,268,952.65	232,006.18	May 2017	46.5	45.0	31.92	31.96	31.34	35.0	45.0	-3.1	-13.1	2	HSA	–
MW117 (B117)	Dexter Ave N ROW, E side	Y	Yes	BHS-885	02/04/13	1,268,343.66	231,643.72	Dec 2013	55.5	55.0	–	–	56.90	40.0	55.0	16.9	1.9	2	HSA	–
MW118 (B118)	Mercer St ROW, N side	Y	Yes	BIC-079	03/21/13	1,268,503.40	231,491.37	Dec 2013	55.5	50.0	–	–	52.91	40.0	50.0	12.9	2.9	2	HSA	–
MW119 (B119)	9th Ave N ROW, W side	Y	Yes	BIC-080	03/21/13	1,268,924.29	231,652.18	May 2017	46	45.0	37.74	37.75	37.42	35.0	45.0	2.7	-7.3	2	HSA	–

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700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Log?	Surveyed?	Well Tag	Dates Drilled	Easting	Northing	Last Surveyed	Depth		Elevation			Well Screen				Well Dia (in)	Drill Rig Type	Casing Depth (ft bgs)
									Total (ft bgs)	Well (ft bgs)	Ground (ft)	Monument (ft)	TOC (ft)	Depth		Elevation				
														Top	Bottom	Top	Bottom			
MW120 (B120)	8th Ave N ROW, E side	Y	Yes	BID-015	12/16/13	1,268,675.20	232,145.41	Dec 2019	50.5	50.0	40.67	40.64	39.94	40.0	50.0	0.0	-10.0	2	HSA	–
MW127 (B127)	8th Ave N ROW, E side	Y	Yes	BID-022	12/31/13	1,268,689.96	232,261.39	Dec 2013	50.5	50.0	–	39.42	39.04	40.0	50.0	-1.0	-11.0	2	HSA	–
MW131	Property, SE quadrant	Y	Yes	BIX-341	3/03/16 – 3/04/16	1,268,544.45	231,831.38	May 2017	54.0	54.0	39.84	39.87	39.39	44.0	54.0	-4.2	-14.2	2	HSA	40
MW-142	8th Ave N ROW, E side	Y	Yes	BKF-356	04/12/18	1,268,681.79	231,977.91	Apr 2018	51.0	50.3	42.44	42.43	42.12	40.0	50.0	2.4	-7.6	2	HSA	–
MW-144	8th Ave N ROW, E side	N	Yes	BKF-355	04/18/18	1,268,680.09	231,857.59	Apr 2018	50.0	50.0	43.87	43.88	43.50	40.0	50.0	3.9	-6.1	2	HSA	–
MW-144R	8th Ave N ROW, E side	N	Yes	BME-511	11/26/19	1,268,670.40	231,865.37	Dec 2019	50.0	49.6	42.85	42.87	42.46	39.0	49.3	3.9	-6.5	2	Sonic	–
MW-146	Roy St ROW, S side	N	Yes	BKF-349	03/30/18	1,268,493.78	231,733.61	Apr 2018	50.0	50.3	52.74	52.77	52.34	39.9	49.9	12.8	2.8	2	HSA	–
MW-149	Property, NE quadrant	N	Yes	BKF-142	03/12/18	1,268,528.97	231,983.66	Apr 2018	46.0	45.0	35.66	35.9	35.22	35.0	45.0	0.7	-9.3	2	HSA	–
MW-151	Property, SW quadrant	N	Yes	BKF-143	03/12/18	1,268,403.10	231,899.51	Apr 2018	46.0	45.0	39.94	40.05	39.38	35.0	45.0	4.9	-5.1	2	HSA	–
MW-156	8th Ave N ROW, E side	N	Yes	BKF-359	04/16/18	1,268,683.09	232,036.58	Apr 2018	51.0	50.0	41.64	41.7	41.24	39.6	49.6	2.0	-8.0	2	HSA	–
MW-189	Valley St ROW, S side	Y	Yes	BLR-796	09/23/19	1,268,529.21	232,057.30	Nov 2019	58.0	59.0	47.66	47.65	47.33	48.8	58.8	-1.2	-11.2	2	Sonic	–
MW-302	Dexter Ave N ROW, E side	Y	Yes	BMF-578	10/01/19	1,268,350.87	231,904.80	Nov 2019	65.0	64.4	57.30	57.26	57.03	54.3	64.3	3.0	-7.0	2	Sonic	–
MW-306	Roy St ROW, S side	Y	Yes	BMF-577	09/30/19	1,268,252.64	231,757.55	Nov 2019	55.0	52.9	59.90	59.89	59.48	42.8	52.8	17.2	7.2	2	Sonic	–
MW-308	Alley E of Seattle Roy Aloha Shops	Y	Yes	BMF-576	09/20/19	1,268,812.03	232,140.04	Nov 2019	45.4	45.4	30.42	30.42	30.15	35.1	45.1	-4.7	-14.7	2	Sonic	–
MW-315	Mercer St ROW, N side	Y	Yes	BMF-570	9/10/19-/9/11/19	1,268,645.49	231,538.56	Nov 2019	48.0	47.7	49.67	49.65	49.18	37.5	47.4	12.2	2.3	2	Sonic	–
MW-317	9th Ave N ROW, W side	Y	Yes	BLR-798	09/25/19	1,268,941.64	232,085.35	Nov 2019	38.4	38.4	31.61	31.63	31.35	28.2	38.2	3.4	-6.6	2	Sonic	–
MW-325	Mercer St ROW, N side	Y	Yes	BMF-585	9/9/19-9/11/19	1,268,885.15	231,552.84	Nov 2019	44.7	44.7	41.51	41.51	40.90	34.5	44.5	7.0	-3.0	2	Sonic	–
MW-327	Lake Union Park, S end	Y	Yes	BMF-573	09/17/19	1,269,261.46	232,014.22	Nov 2019	35.1	35.1	28.42	28.52	28.15	24.8	34.8	3.6	-6.3	2	Sonic	–
MW-330	Valley St ROW, N side	Y	Yes	BMP-107	04/20/20	1,268,462.17	232,100.63	Jun 2020	62.3	62.3	52.04	52.08	51.67	52.1	62.1	-0.1	-10.1	2	Sonic	–
MW-331	Alley E of Seattle Roy Aloha Shops	Y	Yes	BMP-106	04/17/20	1,268,814.53	232,268.59	Jun 2020	45.8	45.8	31.21	31.22	30.43	35.6	45.6	-4.3	-14.3	2	Sonic	–
MW-333	900 Roy St, S end	Y	Yes	BMP-104	04/16/20	1,269,115.52	231,888.32	Jun 2020	43.4	43.4	31.67	31.74	31.10	33.2	43.2	-1.5	-11.5	2	Sonic	–
MW-344	SDOT Mercer Parcels, NW quadrant	Y	Yes	BNA-413	05/20/21	1,268,477.82	231,685.10	May 2021	50.00	49.70	53.0	53.06	52.70	39.40	49.40	13.6	3.6	2	Sonic	–
Intermediate B Zone Wells																				
FMW-130	Block 38 West, S end	Y	TOC Elev	–	7/21/14 - 7/22/14	–	–		60	55.0	–	–	21.86	45.0	55.0	-22.8	-32.8	2	Sonic	–
FMW-141	Alley E of Seattle Roy Aloha Shops	Y	Yes	BLW-341	07/22/19	1,268,808.24	231,948.19	Dec 2019	60	57.5	35.44	35.45	35.15	47.5	57.5	-12.1	-22.1	2	Sonic	–
HMW-1IB	SDOT Mercer Parcels, NE quadrant	Yes	Yes	BLR917	03/13/19	1,268,903.53	231,653.15	Aug 2020	65.5	64.3	38.29	38.55	38.38	54.3	64.3	-16.0	-26.0	2	HSA	–
HMW-2IB	SDOT Mercer Parcels, NE quadrant	Yes	Yes	BLR923	03/12/19	1,268,686.97	231,653.01	Aug 2020	66.5	62.8	47.41	47.50	47.19	52.8	62.8	-5.4	-15.4	2	HSA	–
HMW-4IA	SDOT Mercer Parcels, SW quadrant	Yes	Yes	BLI162	03/07/19	1,268,409.57	231,558.72	Apr 2019	81.5	60	58.70	–	58.53	50.0	60.0	8.7	-1.3	2	HSA	–
HMW-5IB	SDOT Mercer Parcels, SW quadrant	Yes	Yes	BLZ188	02/28/20	1,268,382.82	231,613.00	Aug 2020	70.0	59.7	58.44	61.22	60.99	49.7	59.7	8.7	-1.3	2	Sonic	–
HMW-6IB	SDOT Mercer Parcels, SW quadrant	Yes	Yes	BLZ186	03/03/20	1,268,380.80	231,548.10	Aug 2020	70.0	60.0	58.67	61.92	61.61	50.0	60.0	8.7	-1.3	2	Sonic	–
HMW-7IB	SDOT Mercer Parcels, SW quadrant	Yes	Yes	BLZ159	03/02/20	1,268,383.26	231,522.51	Aug 2020	70.0	59.7	58.69	61.71	61.38	49.7	59.7	9.0	-1.0	2	Sonic	–
HMW-8IB	SDOT Mercer Parcels, SW quadrant	Yes	Yes	BLZ158	03/02/20	1,268,433.80	231,559.10	Aug 2020	70.0	60.5	57.97	61.04	60.78	50.5	60.5	7.5	-2.5	2	Sonic	–
HMW-9IB	SDOT Mercer Parcels, SW quadrant	Yes	Yes	BLZ191	02/28/20	1,268,480.08	231,604.89	Aug 2020	70.0	67.0	55.36	58.64	57.89	57.0	67.0	-1.6	-11.6	2	Sonic	–
HMW-11IB	SDOT Mercer Parcels, SE quadrant	Yes	Yes	BLZ196	02/24/20	1,268,891.69	231,565.09	Aug 2020	70.0	54.9	39.70	43.09	42.91	44.9	54.9	-5.2	-15.2	2	Sonic	–
HMW-15IB	SDOT Mercer Parcels, SW quadrant	Yes	Yes	BMP316	07/16/20	1,268,389.50	231,512.30	Aug 2020	76.5	73.0	58.86	58.73	58.33	64.0	73.0	-5.1	-14.1	2	HSA	–
HMW-16IB	SDOT Mercer Parcels, NW quadrant	Yes	Yes	BMP315	07/14/20	1,268,386.50	231,724.00	Aug 2020	76.5	65.0	57.02	57.18	56.80	55.0	65.0	2.0	-8.0	2	HSA	–
MW111 (B111)	Alley E of Seattle Roy Aloha Shops	Y	Yes	BHS-770	12/05/12 – 12/06/12	1,268,807.08	231,896.12	Dec 2019	80.5	80.0	36.66	36.67	36.38	70.0	80.0	-33.5	-43.5	2	HSA	50
MW112 (B112)	Dexter Ave N ROW, W side	Y	Yes	BHS-767	12/11/12 – 12/12/12	1,268,310.62	231,915.10	Dec 2019	85.5	85.0	57.77	57.79	57.47	75.0	85.0	-17.2	-27.2	2	HSA	–
MW126 (B126)	Alley E of Seattle Roy Aloha Shops	Y	Yes	BID-021	12/30/13	1,268,813.91	232,263.78	Dec 2013	95	95.0	–	–	30.94	85.0	95.0	-54.1	-64.1	2	HSA	–
MW130	Property, NW quadrant	Y	Yes	BIX-340	3/01/16 – 3/02/16	1,268,422.37	231,932.27	May 2017	80	80.0	39.12	39.55	38.72	70.0	80.0	-30.9	-40.9	2	HSA	40
MW-132	Property, SE quadrant	Y	Yes	BKA-298	8/22/17 – 8/23/17	1,268,494.61	231,916.83	Sep 2017	83	80.0	40.10	40.39	40.07	70.0	80.0	-29.9	-39.9	2	Sonic	55
MW-134	Property, NE quadrant	Y	Yes	BKA-294	8/27/17 – 8/29/17	1,268,601.58	231,993.63	Sep 2017	90	90.0	41.45	41.45	41.05	80.0	90.0	-38.6	-48.6	2	Sonic	–
MW-135	Property, NE quadrant	Y	Yes	BKA-299	8/24/17 – 8/25/17	1,268,495.24	231,963.50	Sep 2017	80	80.0	39.11	39.17	38.96	70.0	80.0	-30.9	-40.9	2	Sonic	60
MW-136	Property, SW quadrant	Y	Yes	BKA-300	8/28/17 – 8/29/17	1,268,420.05	231,820.95	Sep 2017	95.5	95.5	51.87	51.87	51.45	84.6	94.6	-32.7	-42.7	2	Sonic	–
MW-139	Property, SE quadrant	Y	Yes	BKA-295	9/13/17 – 9/14/17	1,268,533.63	231,841.28	Sep 2017	80	80.0	39.81	39.81	39.44	70.0	80.0	-30.2	-40.2	2	Sonic	–

Table 3

Monitoring Well and Boring Completion Details
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Log?	Surveyed?	Well Tag	Dates Drilled	Easting	Northing	Last Surveyed	Depth		Elevation			Well Screen				Well Dia (in)	Drill Rig Type	Casing Depth (ft bgs)
									Total (ft bgs)	Well (ft bgs)	Ground (ft)	Monument (ft)	TOC (ft)	Depth		Elevation				
														Top	Bottom	Top	Bottom			
MW-143	8th Ave N ROW, E side	Y	Yes	BKF-355	04/12/18	1,268,681.54	231,974.66	Apr 2018	82.0	80.4	42.43	42.48	42.04	70.1	80.0	-27.7	-37.6	2	HSA	–
MW-145	8th Ave N ROW, E side	N	Yes	BKF-360	04/18/18	1,268,678.28	231,851.15	Apr 2018	81.0	80.4	43.86	43.87	43.46	70.0	80.0	-26.1	-36.1	2	HSA	–
MW-145R	8th Ave N ROW, E side	N	Yes	BME-510	11/25/19-11/26/19	1,268,670.64	231,872.79	Dec 2019	80.1	80.1	42.66	42.67	42.00	69.9	79.9	-27.2	-37.2	2	Sonic	–
MW-147	Roy St ROW, S side	Y	Yes	BKF-351	04/02/18	1,268,501.67	231,733.85	Apr 2018	80.4	80.4	52.36	52.39	51.85	70.0	80.0	-17.6	-27.6	2	HSA	–
MW-148	Roy St ROW, S side	Y	Yes	BKF-353	04/09/18	1,268,725.60	231,731.90	Apr 2018	80.5	80.4	44.27	44.29	43.91	70.0	80.0	-25.7	-35.7	2	HSA	–
MW-150	Property, NE quadrant	N	Yes	BKF-141	03/09/18	1,268,528.54	231,978.38	Apr 2018	60.0	59.0	35.75	35.86	35.39	49.0	59.0	-13.3	-23.3	2	HSA	–
MW-152	Property, SW quadrant	Y	Yes	BKF-144	03/13/18	1,268,391.47	231,898.22	Apr 2018	60.0	60.0	39.85	39.9	39.11	50.0	60.0	-10.2	-20.2	2	HSA	–
MW-157	8th Ave N ROW, E side	N	Yes	BKF-357	04/13/18	1,268,683.21	232,040.85	Apr 2018	81.0	80.2	41.61	41.66	41.22	69.9	79.8	-28.3	-38.2	2	HSA	–
MW-190	Valley St ROW, S side	Y	Yes	BLR-794	9/18/19-9/19/19	1,268,513.78	232,057.87	Nov 2019	89.0	89.0	48.65	48.65	48.39	78.8	88.8	-30.2	-40.2	2	Sonic	–
MW-303	Dexter Ave N ROW, E side	Y	Yes	BMF-581	10/3/19-10/4/19	1,268,352.70	231,967.32	Nov 2019	82.0	81.7	57.56	57.55	57.28	71.4	81.4	-13.8	-23.8	2	Sonic	–
MW-307	Roy St ROW, S side	Y	Yes	BMF-580	10/03/19	1,268,244.49	231,757.96	Nov 2019	85.0	83.0	60.45	60.45	60.21	72.8	82.8	-12.4	-22.4	2	Sonic	–
MW-309	Alley E of Seattle Roy Aloha Shops	Y	Yes	BMF-575	09/19/19	1,268,811.71	232,143.16	Nov 2019	75.0	72.7	30.37	30.35	29.97	62.4	72.4	-32.0	-42.0	2	Sonic	–
MW-311	Alley E of Seattle Roy Aloha Shops	Y	Yes	BMF-574	09/18/19	1,268,804.88	232,040.35	Nov 2019	74.0	72.5	33.14	33.17	32.98	62.2	72.2	-29.1	-39.1	2	Sonic	–
MW-314	Alley E of Seattle Roy Aloha Shops	Y	Yes	BMF-288	9/9/19-9/13/13	1,268,804.06	231,817.34	Nov 2019	80.0	78.0	39.81	39.85	39.19	67.8	77.8	-28.0	-38.0	2	Sonic	–
MW-316	Mercer St ROW, N side	Y	Yes	BMF-569	09/09/19	1,268,641.35	231,537.58	Nov 2019	70.1	70.1	49.81	49.79	49.44	59.8	69.8	-10.0	-20.0	2	Sonic	–
MW-318	9th Ave N ROW, W side	Y	Yes	BLR-797	09/24/19	1,268,941.46	232,081.31	Nov 2019	65.0	64.9	31.66	31.67	31.36	54.8	64.8	-23.1	-33.1	2	Sonic	–
MW-322	9th Ave N ROW, W side	Y	Yes	BLR-792	09/17/19	1,268,937.97	231,957.89	Nov 2019	65.0	64.8	33.45	33.46	33.13	54.7	64.7	-21.3	-31.3	2	Sonic	–
MW-334	900 Roy St, S end	Y	Yes	BMP-103	04/16/20	1,269,119.58	231,890.01	Jun 2020	63.3	63.3	31.40	31.46	31.22	53.1	63.1	-21.7	-31.7	2	Sonic	–
MW-335	Mercer St ROW, N side	Y	Yes	BMP-108	04/21/20	1,269,109.62	231,541.10	Jun 2020	71.1	71.1	35.18	35.17	34.26	60.8	70.8	-25.6	-35.6	2	Sonic	–
MW-338	Lake Union Park, N end	Y	Yes	BMP-110	05/01/20	1,269,175.12	232,184.99	Jun 2020	55.0	54.7	27.84	27.9	27.38	44.4	54.4	-16.6	-26.6	2	Sonic	–
MW-340	Lake Union Park, S end	N	Yes	BMP-113	05/05/20	1,269,259.00	232,016.44	Jun 2020	55.0	54.7	28.31	28.41	28.02	44.4	54.4	-16.1	-26.1	2	Sonic	–
MW-345	SDOT Mercer Parcels, NW quadrant	Y	Yes	BNA-412	05/20/21	1,268,481.59	231,687.90	May 2021	65.0	64.7	52.85	52.87	52.61	54.4	64.4	-1.6	-11.6	2	Sonic	–
MW-346	SDOT Mercer Parcels, NW quadrant	Y	Yes	BNA-411	05/19/21	1,268,545.50	231,674.21	May 2021	65.0	64.2	51.78	51.91	51.63	53.9	63.9	-2.2	-12.2	2	Sonic	–
MW-347	SDOT Mercer Parcels, NW quadrant	Y	Yes	BNA-410	05/19/21	1,268,541.92	231,645.66	May 2021	65.0	64.3	52.79	52.98	52.70	54.0	64.0	-1.3	-11.3	2	Sonic	–
MW-348	SDOT Mercer Parcels, SW quadrant	Y	Yes	BNA-409	5/17/21-5/18/21	1,268,533.26	231,609.29	May 2021	69.0	68.9	53.96	54.13	53.84	58.6	68.6	-4.6	-14.6	2	Sonic	–
MW-349	SDOT Mercer Parcels, SW quadrant	Y	Yes	BNA-408	05/17/21	1,268,490.33	231,574.32	May 2021	69.0	68.9	55.84	55.92	55.58	58.6	68.6	-2.8	-12.8	2	Sonic	–
MW-350	SDOT Mercer Parcels, NW quadrant	Y	Yes	BNA-414	05/21/21	1,268,407.70	231,635.14	May 2021	70.0	69.7	57.77	57.90	57.55	59.4	69.4	-1.7	-11.7	2	Sonic	–
W-MW-01	8th Ave N ROW, W side	Yes	Yes	NA	01/27/12	1,268,626.39	231,827.22	Feb 2012	80	80.0	–	45.38	44.88	70.0	80.0	-25.1	-35.1	2	Sonic	–
W-MW-02	8th Ave N ROW, W side	Yes	Yes	NA	01/31/12	1,268,626.44	231,912.08	Feb 2012	80	80.0	43.72	43.75	43.46	70.0	80.0	-26.3	-36.3	2	Sonic	–
Deep Zone Wells																				
FMW-129	SDOT Mercer Parcels, NE quadrant	Y	Yes	BIC-085	5/13/14 – 5/16/14	1,268,873.71	231,707.21	May 2017	119	89.2	38.64	38.38	38.31	84.2	89.2	-45.6	-50.6	2	HSA	–
FMW-131	Block 37, SE quadrant	Y	Yes	NA	8/25/16 – 8/30/16	1,269,436.35	231,629.37	–	75.0	74.9	–	–	27.85	62.5	72.5	-34.7	-44.7	2	HSA	–
FMW-137	Alley E of Block 38 West	N	Yes	–	11/3/18 - 11/17/18	1,269,446.94	231,392.41	–	90	85.0	–	–	30.09	70.0	85.0	-39.9	-54.9	2	Sonic	–
FMW-138	Alley E of Block 38 West	N	Yes	–	11/3/18 - 11/14/18	1,269,426.19	230,983.38	–	100	100.0	–	–	40.44	90.0	100.0	-50.0	-60.0	2	Sonic	–
FMW-140	900 Roy St, S end	Y	Yes	BLT-940	07/12/19	1,269,111.06	231,885.87	Nov 2019	85	80.0	32.00	32.00	31.71	70.0	80.0	-38.0	-48.0	2	Sonic	–
FMW-3D	Terry Ave N ROW, E side	Y	Yes	NA	3/7/16 – 3/8/16	1,269,941.28	231,737.65	–	71.5	69.0	–	–	27.88	59.0	69.0	-31.1	-41.1	2	HSA	–
GEI-2	Block 37, NW quadrant	Y	Yes	BIJ 462	4/16/14 – 4/17/14	1,269,358.70	231,666.08	2014	81.5	60.5	29.6	–	29.38	50.5	60.5	-21.1	-31.1	2	HSA	–
HMW-1D	SDOT Mercer Parcels, NE quadrant	Y	Yes	BLI197	03/04/19	1,268,907.50	231,641.76	Aug 2020	90.0	90.0	38.07	38.27	37.99	80.0	90.0	-41.9	-51.9	2	Sonic	–
HMW-2D	SDOT Mercer Parcels, NE quadrant	Y	Yes	BLI198	03/06/19	1,268,696.23	231,659.76	Aug 2020	90.0	90.0	47.34	47.43	47.19	80.0	90.0	-32.7	-42.7	2	Sonic	–
HMW-3D	SDOT Mercer Parcels, NW quadrant	Y	Yes	BLI199	03/06/19	1,268,408.96	231,675.97	Aug 2020	90.0	90.0	56.56	56.58	56.37	80.0	90.0	-23.4	-33.4	2	Sonic	–
HMW-6D	SDOT Mercer Parcels, SW quadrant	Y	Yes	BLZ187	03/02/20	1,268,382.84	231,551.34	Aug 2020	90.0	89.7	58.58	61.77	61.49	79.7	89.7	-21.1	-31.1	2	Sonic	–
HMW-9D	SDOT Mercer Parcels, SW quadrant	Y	Yes	BLZ192	02/28/20	1,268,484.37	231,609.92	Aug 2020	90.0	89.7	55.32	58.33	58.14	79.7	89.7	-24.4	-34.4	2	Sonic	–
HMW-10D	SDOT Mercer Parcels, SE quadrant	Y	Yes	BLZ194	03/05/20	1,268,686.24	231,565.46	Aug 2020	90.0	89.0	48.16	51.15	51.03	79.0	89.0	-30.8	-40.8	2	Sonic	–
HMW-12D	SDOT Mercer Parcels, NE quadrant	Y	Yes	BMP290	07/16/20	1,268,915.30	231,704.60	Aug 2020	100.3	92.0	33.52	36.83	35.86	82.0	92.0	-48.5	-58.5	2	MR/HSA	–
HMW-13D	SDOT Mercer Parcels, SE quadrant	Y	Yes	BMP318	07/23/20	1,268,802.40	231,638.70	Aug 2020	100.9	99.5	45.30	45.38	45.08	89.5	99.5	-44.2	-54.2	2	MR/HSA	–

Table 3

Monitoring Well and Boring Completion Details
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Log?	Surveyed?	Well Tag	Dates Drilled	Easting	Northing	Last Surveyed	Depth		Elevation			Well Screen				Well Dia (in)	Drill Rig Type	Casing Depth (ft bgs)
									Total (ft bgs)	Well (ft bgs)	Ground (ft)	Monument (ft)	TOC (ft)	Depth		Elevation				
														Top	Bottom	Top	Bottom			
HMW-14D	SDOT Mercer Parcels, SE quadrant	Y	Yes	BMP317	07/20/20	1,268,800.70	231,576.90	Aug 2020	81.5	80.0	46.35	46.41	46.11	70.0	80.0	-23.7	-33.7	2	MR/HSA	–
HVP-1	SDOT Mercer Parcels, SW quadrant	Y	Yes	BMP319	07/28/20	–	–	–	150.3	150.0	52.65	–	–	–	–	–	–	6	MR/HSA	–
MW101 (B101)	Property, NE quadrant	Y	Yes	BCK-014	7/10/12 – 7/12/12	1,268,533.39	231,934.66	Dec 2013	140	115.0	–	39.78	39.49	105.0	115.0	-65.5	-75.5	2	Sonic	40, 80
MW102 (B102)	Valley St ROW, S side	Y	Yes	BCK-015	7/17/12 – 7/23/12	1,268,505.01	232,058.56	Nov 2019	125	125.0	49.38	49.37	49.11	115.0	125.0	-65.8	-75.8	2	Sonic	–
MW103 (B103)	Alley E of Seattle Roy Aloha Shops	Y	Yes	BCK-016	7/25/12 – 7/27 12	1,268,807.23	231,911.84	Dec 2019	115	114.0	36.12	36.13	35.86	103.5	113.5	-67.6	-77.6	2	Sonic	–
MW104 (B104)	8th Ave N ROW, W side	Y	Yes	BCK-017	7/30/12 – 8/01/12	1,268,635.95	231,912.28	Dec 2013	130	129.0	–	43.05	42.68	119.0	129.0	-76.3	-86.3	2	Sonic	–
MW105 (B105)	Roy St ROW, S side	Y	Yes	BCK-018	8/06/12 – 8/10/12	1,268,694.42	231,762.84	Nov 2019	140	140.0	44.39	44.41	44.12	130.0	140.0	-85.3	-95.3	2	Sonic	–
MW106 (B106)	SDOT Mercer Parcels, NW quadrant	Y	Yes	BCK-019	8/14/12 – 8/15/12	1,268,501.66	231,720.28	Dec 2013	140	140.0	–	52.25	51.99	130.0	140.0	-78.0	-88.0	2	Sonic	–
MW113 (B113)	9th Ave N ROW, W side	Y	Yes	BHS-764	12/18/12	1,268,950.77	231,911.93	Nov 2019	80	80.0	33.20	33.21	32.91	70.0	80.0	-36.8	-46.8	2	HSA	–
MW122 (B122)	Alley E of Seattle Roy Aloha Shops	Y	Yes	BID-017	12/17/13	1,268,810.95	232,139.15	Dec 2013	115	115.0	–	30.54	30.03	105.0	115.0	-75.0	-85.0	2	HSA	–
MW123 (B123)	Westlake Ave N ROW, W side	Y	Yes	BID-018	12/18/13	1,269,084.44	232,170.77	Nov 2019	80	80.0	27.95	27.95	27.50	70.0	80.0	-42.5	-52.5	2	HSA	–
MW124 (B124)	Valley St ROW, S side	Y	Yes	BID-019	12/19/13	1,268,387.31	232,058.01	Dec 2019	120	120.0	56.76	56.77	56.17	110.0	120.0	-53.8	-63.8	2	HSA	–
MW128 (B128)	Westlake Ave N ROW, E side	Y	Yes	BID-023	01/09/14	1,269,319.15	231,810.63	May 2017	70.5	70.0	29.20	29.21	28.59	60.0	70.0	-30.8	-40.8	2	HSA	–
MW-133	Property, SW quadrant	Y	Yes	BKA-297	8/15/17 – 8/17/17	1,268,397.31	231,878.49	Sep 2017	145	138.6	40.08	40.08	39.77	129.0	139.0	-88.9	-98.9	2	Sonic	62.5
MW-137	Property, SW quadrant	Y	Yes	NA	8/31/17 – 9/1/17	1,268,471.72	231,851.07	Sep 2017	115	115.0	51.73	51.77	51.46	105.0	115.0	-53.3	-63.3	2	Sonic	–
MW-138	Dexter Ave N ROW, E side	Y	Yes	BKA-296	9/12/17 – 9/15/17	1,268,345.19	231,841.61	Nov 2019	117	115.0	57.44	57.41	57.03	105.0	115.0	-47.6	-57.6	2	Sonic	–
MW-140	Roy St ROW, N side	Y	Yes	BKA-301	8/30/17 – 8/31/17	1,268,511.94	231,782.78	Sep 2017	140	140.0	50.57	50.57	50.20	129.5	139.5	-78.9	-88.9	2	Sonic	–
MW-141	Property, SE quadrant	Y	Yes	NA	9/18/17 – 9/19/17	1,268,598.81	231,860.58	Sep 2017	107	105.0	39.59	39.59	39.32	95.0	105.0	-55.4	-65.4	2	Sonic	–
MW-153	Roy St ROW, S side	Y	Yes	BKF-348	03/29/18	1,268,443.98	231,734.96	Apr 2018	130	130.0	54.75	54.79	54.35	120.0	130.0	-65.3	-75.3	2	HSA	–
MW-158A	8th Ave N ROW, E side	Y	Yes	BKF-352	04/06/18	1,268,683.06	232,045.84	Apr 2018	100	100.0	41.51	41.52	41.09	89.7	100.0	-48.2	-58.5	2	HSA	–
MW-160	8th Ave N ROW, W side	Y	Yes	BKF-460	05/10/18	1,268,625.97	231,968.95	Oct 2018	128	128.0	42.56	42.57	42.24	118.0	128.0	-75.4	-85.4	2	HSA	–
MW-161	8th Ave N ROW, W side	Y	Yes	BKF-461	05/06/18	1,268,622.67	231,866.90	Nov 2019	140	140.0	44.43	44.44	43.99	130.0	140.0	-85.6	-95.6	2	HSA	–
MW-162	Property, NE quadrant	Y	No	BKH-255	1/27/19 – 1/28/19	–	–	–	110.5	110.1	38.2	–	–	99.8	109.8	-61.6	-71.6	2	Sonic	90
MW-163	Property, NW quadrant	Y	No	BKH-257	1/29/19 – 1/30/19	–	–	–	110.5	110.3	39.2	–	–	100.2	110.2	-61.0	-71.0	2	Sonic	90
MW-164	Property, SW quadrant	Y	No	BKH-256	1/24/19 – 1/25/19	–	–	–	111	110.0	39.8	–	–	99.7	109.7	-59.9	-69.9	2	Sonic	90
MW-304	Dexter Ave N ROW, E side	Y	Yes	BMF-581	10/02/19	1,268,352.38	231,961.13	Nov 2019	116	115.5	57.57	57.56	57.23	105.2	115.2	-47.6	-57.6	2	Sonic	–
MW-319	9th Ave N ROW, W side	Y	Yes	BLR-793	09/18/19	1,268,941.67	232,077.44	Nov 2019	85	84.0	31.70	31.71	31.31	74.5	84.5	-42.8	-52.8	2	Sonic	–
MW-323	9th Ave N ROW, W side	Y	Yes	BLR-799	09/28/19	1,268,935.73	231,873.86	Nov 2019	110	110.0	34.65	34.69	34.38	100.0	110.0	-65.4	-75.4	2	Sonic	–
MW-324	Roy St ROW, N side	Y	Yes	BMF-587	09/12/19	1,269,021.77	231,829.66	Nov 2019	80	76.5	34.27	34.28	33.71	66.3	76.3	-32.1	-42.1	2	Sonic	–
MW-326	Mercer St ROW, N side	Y	Yes	BLR-750	9/9/2019-9/10/19	1,268,889.59	231,552.72	Nov 2019	100.1	100.1	41.30	41.3	40.97	90.0	100.0	-48.7	-58.7	2	Sonic	–
MW-328	Lake Union Park, S end	Y	Yes	BMF-572	09/16/19	1,269,265.31	232,010.75	Nov 2019	80	74.8	28.38	28.45	28.09	64.5	74.5	-36.1	-46.1	2	Sonic	–
MW-329	Westlake Ave N ROW, E side	Y	Yes	BMF-571	09/12/19	1,269,321.03	231,798.39	Nov 2019	110	108.6	29.26	29.25	28.93	98.3	108.3	-69.0	-79.0	2	Sonic	–
MW-336	Mercer St ROW, N side	Y	Yes	BMP-109	04/22/20	1,269,151.51	231,540.07	Jun 2020	95.5	95.5	33.68	33.67	33.31	85.3	95.3	-51.6	-61.6	2	Sonic	–
MW-341	Lake Union Park, S end	Y	Yes	BMP-112	05/04/20	1,269,261.00	232,010.55	Jun 2020	105.5	105.5	28.45	28.52	28.11	95.2	105.2	-66.8	-76.8	2	Sonic	–
MW-342	Valley St ROW, S side	N	Yes	BMP-102	04/15/20	1,269,512.87	231,859.08	Jun 2020	70.3	70.3	27.66	27.68	27.37	60.1	70.1	-32.4	-42.4	2	Sonic	–
MW-343	Valley St ROW, S side	Y	Yes	BMP-101	4/14/20 - 4/15/20	1,269,520.38	231,859.54	Jun 2020	110	109.3	27.64	27.68	27.16	99.1	109.1	-71.5	-81.5	2	Sonic	–
Shallow Soil Vapor Probes																				
SV01	8th Ave N ROW, E side	Y	Yes	–	03/11/13	1,268,682.67	231,993.39	July 2020	12.25	–	42.20	42.215	41.95	11.8	12.3	30.4	29.9	–	DP	–
SV02	8th Ave N ROW, E side	Y	Yes	–	03/11/13	1,268,681.25	231,906.35	July 2020	11.75	–	43.36	43.355	43.11	11.3	11.8	32.1	31.6	–	DP	–
SV03	8th Ave N ROW, E side	Y	Yes	–	03/11/13	1,268,677.87	231,828.33	July 2020	12.75	–	44.10	44.11	43.81	12.3	12.8	31.8	31.3	–	DP	–
SV-04	Roy St ROW, S side	Y	Yes	BLK 889	06/29/20	1,268,731.27	231,731.45	July 2020	6	6	44.06	44.09	–	5.5	6.0	38.6	38.1	0.25	DP	–
SV-05	Roy St ROW, S side	Y	Yes	BLK 890	06/29/20	1,268,730.14	231,729.81	July 2020	13	13	44.13	44.15	–	12.5	13.0	31.6	31.1	0.25	DP	–
SV-06	Roy St ROW, S side	Y	Yes	BLK 891	06/29/20	1,268,477.86	231,733.96	July 2020	6	6	53.36	53.39	–	5.5	6.0	47.9	47.4	0.25	DP	–
SV-07	Roy St ROW, S side	Y	Yes	BLK 892	06/29/20	1,268,477.45	231,732.37	July 2020	15	15	53.41	53.44	–	14.5	15.0	38.9	38.4	0.25	DP	–
SV-08	8th Ave N ROW, E side	Y	Yes	BLK 893	06/30/20	1,268,675.48	232,123.75	July 2020	10	10	40.91	40.94	–	9.5	10.0	31.4	30.9	0.25	DP	–

Table 3

Monitoring Well and Boring Completion Details
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Log?	Surveyed?	Well Tag	Dates Drilled	Easting	Northing	Last Surveyed	Depth		Elevation			Well Screen				Well Dia (in)	Drill Rig Type	Casing Depth (ft bgs)
									Total (ft bgs)	Well (ft bgs)	Ground (ft)	Monument (ft)	TOC (ft)	Depth		Elevation				
														Top	Bottom	Top	Bottom			
SV-09	8th Ave N ROW, E side	Y	Yes	BLK 894	07/01/20	1,268,676.85	232,123.94	July 2020	6	6	40.83	40.86	–	5.5	6.0	35.3	34.8	0.25	DP	–
SV-10	Valley St ROW, N side	Y	Yes	BLK 895	06/30/20	1,268,468.28	232,097.54	July 2020	6	6	51.81	51.85	–	5.5	6.0	46.3	45.8	0.25	DP	–
SV-11	Valley St ROW, N side	Y	Yes	BLK 896	06/30/20	1,268,469.07	232,098.99	July 2020	15	14.75	51.69	51.73	–	14.3	14.8	37.4	36.9	0.25	DP	–
SV-12	Valley St ROW, N side	Y	Yes	BLK 897	07/01/20	1,268,584.70	232,097.56	July 2020	6	6	44.57	44.62	–	5.5	6.0	39.1	38.6	0.25	DP	–
SV-13	Valley St ROW, N side	Y	Yes	BLK 898	07/01/20	1,268,585.90	232,099.47	July 2020	12	12	44.42	44.46	–	11.5	12.0	32.9	32.4	0.25	DP	–
SV-14	Roy St ROW, N side	Y	Yes	BLK 899	07/01/20	1,268,785.24	231,796.41	July 2020	6	6	40.93	40.92	–	5.5	6.0	35.4	34.9	0.25	DP	–
SV-15	Roy St ROW, N side	Y	Yes	BLK 900	07/01/20	1,268,785.09	231,798.41	July 2020	13	13	40.98	40.99	–	12.5	13.0	28.5	28.0	0.25	DP	–
SV-16	8th Ave N ROW, E side	Y	Yes	BLK 901	07/02/20	1,268,669.51	231,859.20	July 2020	6	6	42.97	42.99	–	5.5	6.0	37.5	37.0	0.25	DP	–
SV-17	8th Ave N ROW, E side	Y	Yes	BLK 902	07/02/20	1,268,668.95	231,906.41	July 2020	6	6	42.10	42.10	–	5.5	6.0	36.6	36.1	0.25	DP	–
SV-18	8th Ave N ROW, E side	Y	Yes	BLK 903	07/02/20	1,268,669.89	231,982.22	July 2020	6	6	42.05	42.06	–	5.5	6.0	36.6	36.1	0.25	DP	–
SV-19	9th Ave N ROW, W side	Y	Yes	BLK 904	07/09/20	1,268,933.23	231,840.64	July 2020	6	6	35.19	35.20	–	5.5	6.0	29.7	29.2	0.25	DP	–
SV-20	9th Ave N ROW, W side	Y	Yes	BLK 905	07/09/20	1,268,933.28	231,842.83	July 2020	10	10	35.15	35.16	–	9.5	10.0	25.6	25.1	0.25	DP	–
SV-21	Alley E of Seattle Roy Aloha Shops	Y	Yes	BLK 906	07/09/20	1,268,808.91	231,953.22	July 2020	6	6	35.30	35.35	–	5.5	6.0	29.8	29.3	0.25	DP	–
SV-22	Alley E of Seattle Roy Aloha Shops	Y	Yes	BLK 907	07/09/20	1,268,808.90	231,955.46	July 2020	10	10	35.24	35.28	–	9.5	10.0	25.7	25.2	0.25	DP	–
SV-23	Alley E of Seattle Roy Aloha Shops	Y	Yes	BLK 908	07/09/20	1,268,805.42	232,034.81	July 2020	6	6	33.36	33.39	–	5.5	6.0	27.9	27.4	0.25	DP	–
SV-24	Alley E of Seattle Roy Aloha Shops	Y	Yes	BLK 909	07/09/20	1,268,805.37	232,036.82	July 2020	10	10	33.29	33.32	–	9.5	10.0	23.8	23.3	0.25	DP	–
SV-25	Dexter Ave N ROW, W side	Y	Yes	BLK 910	07/10/20	1,268,293.10	231,918.58	July 2020	6	6	58.17	58.18	–	5.5	6.0	52.7	52.2	0.25	DP	–
SV-26	Dexter Ave N ROW, W side	Y	Yes	BLK 911	07/10/20	1,268,293.08	231,916.60	July 2020	12	12	58.21	58.23	–	11.5	12.0	46.7	46.2	0.25	DP	–
SV-27	Dexter Ave N ROW, W side	Y	Yes	BLK 913	07/10/20	1,268,295.72	232,025.83	July 2020	15	15	58.59	58.59	–	14.5	15.0	44.1	43.6	0.25	DP	–
SV-28	Dexter Ave N ROW, W side	Y	Yes	BLK 912	07/10/20	1,268,295.62	232,023.76	July 2020	8.2	6	58.60	58.59	–	5.5	6.0	53.1	52.6	0.25	DP	–
Shallow Zone Borings																				
B-249	Property, NW quadrant	Y	No	–	10/15/18	–	–	–	20.00	–	39.4	–	–	–	–	–	–	–	DP	–
B-250	Property, NW quadrant	Y	No	–	10/15/18-10/16/18	–	–	–	30.00	–	39.4	–	–	–	–	–	–	–	DP	–
B-251	Property, NW quadrant	Y	No	–	10/15/18	–	–	–	25.00	–	39.4	–	–	–	–	–	–	–	DP	–
B-252	Property, NW quadrant	Y	No	–	10/15/18	–	–	–	29.00	–	39.4	–	–	–	–	–	–	–	DP	–
B-253A	Property, NW quadrant	Y	No	–	10/18/18	–	–	–	20.00	–	39.4	–	–	–	–	–	–	–	DP	–
B-254	Property, SW quadrant	Y	No	–	10/16/18	–	–	–	25.00	–	39.4	–	–	–	–	–	–	–	DP	–
B-254A	Property, SW quadrant	Y	No	–	10/16/18	–	–	–	35.00	–	39.4	–	–	–	–	–	–	–	Sonic	–
B-255	Property, SW quadrant	Y	No	–	10/16/18	–	–	–	16.00	–	39.4	–	–	–	–	–	–	–	DP	–
B-255A	Property, SW quadrant	Y	No	–	10/16/18	–	–	–	21.00	–	39.4	–	–	–	–	–	–	–	DP	–
B-256	Property, SW quadrant	Y	No	–	10/16/18	–	–	–	18.00	–	39.4	–	–	–	–	–	–	–	DP	–
B-257	Property, NW quadrant	Y	No	–	10/17/18	–	–	–	25.00	–	39.4	–	–	–	–	–	–	–	DP	–
B-258	Property, NW quadrant	Y	No	–	10/17/18	–	–	–	20.00	–	39.4	–	–	–	–	–	–	–	DP	–
B-259	Property, NW quadrant	Y	No	–	10/17/18	–	–	–	20.00	–	39.4	–	–	–	–	–	–	–	DP	–
B-260	Property, NW quadrant	Y	No	–	10/17/18	–	–	–	20.00	–	39.4	–	–	–	–	–	–	–	DP	–
B-261	Property, SW quadrant	Y	No	–	10/17/18	–	–	–	20.00	–	39.4	–	–	–	–	–	–	–	DP	–
B-262	Property, SW quadrant	Y	No	–	10/17/18	–	–	–	20.00	–	39.4	–	–	–	–	–	–	–	DP	–
B-263	Property, SW quadrant	Y	No	–	10/18/18	–	–	–	18.00	–	39.4	–	–	–	–	–	–	–	DP	–
B-264	Property, NW quadrant	Y	No	–	10/18/18	–	–	–	16.00	–	39.4	–	–	–	–	–	–	–	DP	–
B-265	Property, NW quadrant	Y	No	–	10/18/18	–	–	–	17.50	–	39.4	–	–	–	–	–	–	–	DP	–
B-266	Property, NW quadrant	Y	No	–	10/18/18	–	–	–	20.00	–	39.4	–	–	–	–	–	–	–	DP	–
B-267	Property, SW quadrant	Y	No	–	10/18/18	–	–	–	20.00	–	39.4	–	–	–	–	–	–	–	DP	–
B-268	Valley St ROW, S side	Y	No	–	3/17/20	–	–	–	2.50	–	–	–	–	–	–	–	–	–	DP	–
B-269	Valley St ROW, S side	Y	No	–	03/17/20	–	–	–	2.50	–	–	–	–	–	–	–	–	–	DP	–
B-270	Valley St ROW, S side	Y	No	–	03/17/20	–	–	–	2.00	–	–	–	–	–	–	–	–	–	DP	–

Table 3

Monitoring Well and Boring Completion Details
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Log?	Surveyed?	Well Tag	Dates Drilled	Easting	Northing	Last Surveyed	Depth		Elevation			Well Screen				Well Dia (in)	Drill Rig Type	Casing Depth (ft bgs)
									Total (ft bgs)	Well (ft bgs)	Ground (ft)	Monument (ft)	TOC (ft)	Depth		Elevation				
														Top	Bottom	Top	Bottom			
B-271	Valley St ROW, S side	Y	No	–	03/17/20	–	–	–	2.00	–	–	–	–	–	–	–	–	–	DP	–
B-272	Valley St ROW, S side	Y	No	–	03/17/20	–	–	–	6.00	–	–	–	–	–	–	–	–	–	DP	–
B-273	8th Ave N, W side	Y	No	–	03/17/20	–	–	–	6.00	–	–	–	–	–	–	–	–	–	DP	–
B-274	8th Ave N, W side	Y	No	–	03/17/20	–	–	–	6.00	–	–	–	–	–	–	–	–	–	DP	–
B-275	8th Ave N, W side	Y	No	–	03/17/20	–	–	–	11.00	–	–	–	–	–	–	–	–	–	DP	–
B-276	8th Ave N, W side	Y	No	–	03/17/20	–	–	–	11.00	–	–	–	–	–	–	–	–	–	DP	–
B-277	8th Ave N, W side	Y	No	–	03/18/20	–	–	–	12.00	–	–	–	–	–	–	–	–	–	DP	–
B-278	Dexter Ave N, E sidewalk	Y	No	–	03/18/20	–	–	–	8.00	–	–	–	–	–	–	–	–	–	DP	–
B-279	Dexter Ave N, E sidewalk	Y	No	–	03/18/20	–	–	–	12.00	–	–	–	–	–	–	–	–	–	DP	–
B-280	Dexter Ave N, E sidewalk	Y	No	–	03/18/20	–	–	–	7.00	–	–	–	–	–	–	–	–	–	DP	–
B-281	Dexter Ave N, E sidewalk	Y	No	–	03/18/20	–	–	–	8.00	–	–	–	–	–	–	–	–	–	DP	–
B-282	Dexter Ave N, E side	Y	No	–	03/18/20	–	–	–	7.00	–	–	–	–	–	–	–	–	–	DP	–
B-283	Dexter Ave N, E side	Y	No	–	08/19/20	–	–	–	0.67	–	–	–	–	–	–	–	–	–	DP	–
B-284	Dexter Ave N, E side	Y	No	–	08/19/20	–	–	–	1.00	–	–	–	–	–	–	–	–	–	DP	–
B-285	Dexter Ave N, E side	Y	No	–	08/19/20	–	–	–	1.00	–	–	–	–	–	–	–	–	–	DP	–
B-286	Dexter Ave N, E side	Y	No	–	08/19/20	–	–	–	0.58	–	–	–	–	–	–	–	–	–	DP	–
B-287	Dexter Ave N, E side	Y	No	–	08/19/20	–	–	–	1.00	–	–	–	–	–	–	–	–	–	DP	–
B-288	Valley St ROW, N side	Y	No	–	08/19/20	–	–	–	1.08	–	–	–	–	–	–	–	–	–	DP	–
B-289	Dexter Ave N	Y	No	–	08/19/20	–	–	–	0.83	–	–	–	–	–	–	–	–	–	DP	–
B-290	8th Ave N	Y	No	–	08/20/20	–	–	–	0.75	–	–	–	–	–	–	–	–	–	DP	–
B-291	8th Ave N	Y	No	–	08/20/20	–	–	–	0.92	–	–	–	–	–	–	–	–	–	DP	–
B-292	Dexter Ave N. E side	N	No	–	08/22/20	–	–	–	12.00	–	–	–	–	–	–	–	–	–	Excavatio	–
B-293	8th Ave N, E side	Y	No	–	08/26/20	–	–	–	1.50	–	–	–	–	–	–	–	–	–	DP	–
B-294	8th Ave N, W side	Y	No	–	08/26/20	–	–	–	10.00	–	–	–	–	–	–	–	–	–	DP	–
B-295	8th Ave N, W side	Y	No	–	08/26/20	–	–	–	10.00	–	–	–	–	–	–	–	–	–	DP	–
B-296	Valley Street, N side	Y	No	–	08/26/20	–	–	–	1.50	–	–	–	–	–	–	–	–	–	DP	–
B-297	8th Ave N, W side	Y	No	–	08/26/20	–	–	–	5.00	–	–	–	–	–	–	–	–	–	DP	–
B-298	Dexter Ave N, E sidewalk	Y	No	–	08/26/20	–	–	–	6.00	–	–	–	–	–	–	–	–	–	DP	–
B-299	Valley Street, S sidewalk	Y	No	–	02/01/21	–	–	–	8.50	–	–	–	–	–	–	–	–	–	DP	–
B-300	Valley Street, S sidewalk	Y	No	–	02/01/21	–	–	–	6.00	–	–	–	–	–	–	–	–	–	DP	–
B-301	Valley Street, S sidewalk	Y	No	–	02/01/21	–	–	–	6.50	–	–	–	–	–	–	–	–	–	DP	–
B-302	Valley Street, S sidewalk	Y	No	–	02/01/21	–	–	–	4.50	–	–	–	–	–	–	–	–	–	DP	–
MBB-11	SDOT Mercer Parcels, NE quadrant	Y	Yes	–	03/04/20	1,268,866.80	231,668.80	Unknown	35.0	–	46.42	–	–	–	–	–	–	–	Sonic	–
MBB-12	SDOT Mercer Parcels, NE quadrant	Y	Yes	–	03/04/20	1,268,907.20	231,696.90	Unknown	35.0	–	33.69	–	–	–	–	–	–	–	Sonic	–
MBB-13	SDOT Mercer Parcels, NE quadrant	Y	Yes	–	03/04/20	1,268,913.60	231,671.40	Unknown	35.0	–	35.98	–	–	–	–	–	–	–	Sonic	–
MBB-14	SDOT Mercer Parcels, SE quadrant	Y	Yes	–	03/03/20	1,268,863.70	231,635.20	Unknown	35.0	–	47.15	–	–	–	–	–	–	–	Sonic	–
MBB-15	SDOT Mercer Parcels, NE quadrant	Y	Yes	–	03/04/20	1,268,912.60	231,638.10	Unknown	35.0	–	37.73	–	–	–	–	–	–	–	Sonic	–
MBB-17	SDOT Mercer Parcels, SW quadrant	Y	Yes	–	09/01/20	1,268,507.70	231,591.60	Unknown	31.5	–	54.88	–	–	–	–	–	–	–	Sonic	–
MBB-18	SDOT Mercer Parcels, NW quadrant	Y	Yes	–	09/01/20	1,268,579.60	231,636.50	Unknown	20.8	–	51.33	–	–	–	–	–	–	–	Sonic	–
MBB-19	SDOT Mercer Parcels, SW quadrant	Y	Yes	–	09/01/20	1,268,589.90	231,595.40	Unknown	20.8	–	51.68	–	–	–	–	–	–	–	Sonic	–
MBB-20	SDOT Mercer Parcels, NE quadrant	Y	Yes	–	09/02/20	1,268,688.00	231,693.10	Unknown	20.5	–	47.53	–	–	–	–	–	–	–	Sonic	–
MBB-21	SDOT Mercer Parcels, SE quadrant	Y	Yes	–	09/02/20	1,268,696.90	231,570.00	Unknown	20.9	–	47.6	–	–	–	–	–	–	–	Sonic	–
MBB-22	SDOT Mercer Parcels, SE quadrant	Y	Yes	–	09/21/20	1,268,767.40	231,639.00	Unknown	36.5	–	42.05	–	–	–	–	–	–	–	Sonic	–
MBB-23	SDOT Mercer Parcels, NE quadrant	Y	Yes	–	09/21/20	1,268,760.40	231,689.50	Unknown	35.8	–	47.18	–	–	–	–	–	–	–	Sonic	–
MBPP-1	SDOT Mercer Parcels, SE quadrant	Y	Yes	–	03/05/19	1,268,801.40	231,635.90	Unknown	30.0	–	45.28	–	–	–	–	–	–	–	DP	–

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Monitoring Well and Boring Completion Details
American Linen Supply Co Dexter Ave Site
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Sample Location	Description of Location	Log?	Surveyed?	Well Tag	Dates Drilled	Easting	Northing	Last Surveyed	Depth		Elevation			Well Screen				Well Dia (in)	Drill Rig Type	Casing Depth (ft bgs)
									Total (ft bgs)	Well (ft bgs)	Ground (ft)	Monument (ft)	TOC (ft)	Depth		Elevation				
														Top	Bottom	Top	Bottom			
MBPP-2	SDOT Mercer Parcels, SE quadrant	Y	Yes	–	03/05/19	1,268,828.30	231,575.50	Unknown	30.0	–	44.46	–	–	–	–	–	–	–	DP	–
MBPP-3	SDOT Mercer Parcels, SE quadrant	Y	Yes	–	03/06/19	1,268,746.60	231,593.90	Unknown	30.0	–	45.89	–	–	–	–	–	–	–	DP	–
MBPP-4	SDOT Mercer Parcels, SE quadrant	Y	Yes	–	03/07/19	1,268,667.70	231,619.10	Unknown	18.0	–	48.34	–	–	–	–	–	–	–	DP	–
MBPP-5	SDOT Mercer Parcels, NE quadrant	Y	Yes	–	03/07/19	1,268,693.20	231,721.90	Unknown	28.0	–	45.92	–	–	–	–	–	–	–	DP	–
MBPP-6	SDOT Mercer Parcels, SW quadrant	Y	Yes	–	03/08/19	1,268,569.50	231,604.60	Unknown	30.0	–	52.26	–	–	–	–	–	–	–	DP	–
MBPP-7	SDOT Mercer Parcels, NW quadrant	Y	Yes	–	03/08/19	1,268,551.40	231,725.50	Unknown	23.0	–	49.77	–	–	–	–	–	–	–	DP	–
MBPP-8	SDOT Mercer Parcels, SW quadrant	Y	Yes	–	03/08/19	1,268,424.60	231,588.60	Unknown	30.0	–	57.52	–	–	–	–	–	–	–	DP	–
DGW-1	615 Dexter, SE quadrant	Y	Yes	–	03/06/19	1,268,242.70	231,659.60	Unknown	31.5	–	55.98	–	–	–	–	–	–	–	HSA	–
DGW-2	615 Dexter, NE quadrant	Y	Yes	–	03/07/19	1,268,182.10	231,693.10	Unknown	31.5	–	66.25	–	–	–	–	–	–	–	HSA	–
DPP-1	615 Dexter, NW quadrant	Y	Yes	–	03/04/19	1,268,128.30	231,743.40	Unknown	20.0	–	68.8	–	–	–	–	–	–	–	DP	–
DPP-2	615 Dexter, SE quadrant	Y	Yes	–	03/04/19	1,268,189.80	231,647.80	Unknown	10.0	–	66.24	–	–	–	–	–	–	–	DP	–
DPP-3	615 Dexter, NE quadrant	Y	Yes	–	03/05/19	1,268,253.60	231,737.50	Unknown	30.5	–	55.98	–	–	–	–	–	–	–	HSA	–
DPP-4	615 Dexter, SE quadrant	Y	Yes	–	03/04/19	1,268,167.80	231,645.10	Unknown	22.5	–	66.25	–	–	–	–	–	–	–	DP	–
DPP-5	615 Dexter, NE quadrant	Y	Yes	–	03/04/19	1,268,179.40	231,736.60	Unknown	20.0	–	66.26	–	–	–	–	–	–	–	DP	–
DPP-6	615 Dexter, NE quadrant	Y	Yes	–	03/05/19	1,268,235.50	231,697.70	Unknown	19.5	–	55.92	–	–	–	–	–	–	–	DP	–
MBGW-1	SDOT Mercer Parcels, NE quadrant	Y	Yes	–	03/06/19	1,268,814.40	231,717.90	Unknown	30.0	–	39.95	–	–	–	–	–	–	–	DP	–
MBGW-3	SDOT Mercer Parcels, NE quadrant	Y	Yes	–	03/07/19	1,268,669.10	231,688.00	Unknown	28.0	–	47.77	–	–	–	–	–	–	–	DP	–
MBGW-4	SDOT Mercer Parcels, NE quadrant	Y	Yes	–	03/06/19	1,268,722.50	231,686.80	Unknown	25.0	–	47.30	–	–	–	–	–	–	–	DP	–
MBGW-6	SDOT Mercer Parcels, NW quadrant	Y	Yes	–	03/14/19	1,268,490.70	231,694.90	Unknown	30.5	–	52.50	–	–	–	–	–	–	–	HSA	–
MBGW-9	SDOT Mercer Parcels, SW quadrant	Y	Yes	–	03/13/19	1,268,464.90	231,553.80	Unknown	31.5	–	56.84	–	–	–	–	–	–	–	HSA	–
MBGW-10	SDOT Mercer Parcels, SW quadrant	Y	Yes	–	03/13/19	1,268,494.80	231,523.60	Unknown	30.9	–	55.25	–	–	–	–	–	–	–	HSA	–
MBGW-12	SDOT Mercer Parcels, NW quadrant	Y	Yes	–	03/15/19	1,268,449.40	231,726.00	Unknown	30.9	–	54.00	–	–	–	–	–	–	–	HSA	–
MBGW-13	SDOT Mercer Parcels, NW quadrant	Y	Yes	–	03/14/19	1,268,435.00	231,693.10	Unknown	31.5	–	54.72	–	–	–	–	–	–	–	HSA	–
MBGW-14	SDOT Mercer Parcels, SE quadrant	Y	Yes	–	03/06/19	1,268,872.10	231,615.60	Unknown	30.0	–	46.09	–	–	–	–	–	–	–	DP	–
Intermediate A Zone Borings																				
DB01	Property, NW quadrant	Y	No	–	03/18/13	–	–	–	41	–	–	–	–	–	–	–	–	–	HSA	–
DB02	Property, NE quadrant	Y	No	–	03/18/13	–	–	–	45.5	–	–	–	–	–	–	–	–	–	HSA	–
DB03	Property, NE quadrant	Y	No	–	03/27/13	–	–	–	60.5	–	–	–	–	–	–	–	–	–	HSA	–
DB04	Property, NW quadrant	Y	No	–	3/21/13, 3/24/13	–	–	–	60	–	–	–	–	–	–	–	–	–	HSA	–
DB05	Property, SW quadrant	Y	No	–	03/26/13	–	–	–	70.5	–	–	–	–	–	–	–	–	–	HSA	–
DB11	Property, SW quadrant	Y	No	–	04/02/13	–	–	–	55	–	–	–	–	–	–	–	–	–	HSA	–
DB12	Property, NW quadrant	Y	No	–	04/03/13	–	–	–	45.5	–	–	–	–	–	–	–	–	–	HSA	–
DB13	Property, SW quadrant	Y	No	–	04/03/13	–	–	–	45.5	–	–	–	–	–	–	–	–	–	HSA	–
DB14	Property, NE quadrant	Y	No	–	04/04/13	–	–	–	45.5	–	–	–	–	–	–	–	–	–	HSA	–
B-201	Property, SW quadrant	Y	No	–	04/04/13	–	–	–	50.5	–	–	–	–	–	–	–	–	–	Sonic	–
B-202	Property, NW quadrant	Y	Yes	–	06/19/17	1,268,405.50	231,991.69	Sep 2017	50.5	–	39.17	39.17	–	–	–	–	–	–	Sonic	–
B-204	Property, SE quadrant	Y	Yes	–	06/20/17	1,268,599.02	231,834.38	Sep 2017	50.5	–	39.80	39.80	–	–	–	–	–	–	Sonic	–
B-218	Property, NE quadrant	Y	Yes	–	09/19/17	1,268,498.98	231,949.50	Sep 2017	50	–	38.11	38.11	–	–	–	–	–	–	Sonic	–
B-220	Property, NE quadrant	Y	Yes	–	09/20/17	1,268,507.48	231,959.67	Sep 2017	50	–	38.91	38.91	–	–	–	–	–	–	Sonic	–
B-222	Property, NW quadrant	Y	Yes	–	09/21/17	1,268,485.13	231,956.09	Sep 2017	50	–	39.16	39.16	–	–	–	–	–	–	Sonic	–
B-223	Property, NW quadrant	Y	Yes	–	09/21/17	1,268,481.78	231,979.18	Sep 2017	50	–	39.10	39.10	–	–	–	–	–	–	Sonic	–
B-224	Property, NE quadrant	Y	No	–	11/27/17	–	–	–	60.5	–	–	–	–	–	–	–	–	–	HSA	–
B-225	Property, NW quadrant	Y	No	–	11/27/17	–	–	–	40.6	–	–	–	–	–	–	–	–	–	HSA	–
B-226	Property, NW quadrant	Y	No	–	11/28/17	–	–	–	40.0	–	–	–	–	–	–	–	–	–	HSA	–
B-227	Property, NE quadrant	Y	No	–	11/28/17	–	–	–	41.0	–	–	–	–	–	–	–	–	–	HSA	–

Table 3

Monitoring Well and Boring Completion Details
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Log?	Surveyed?	Well Tag	Dates Drilled	Easting	Northing	Last Surveyed	Depth		Elevation			Well Screen				Well Dia (in)	Drill Rig Type	Casing Depth (ft bgs)
									Total (ft bgs)	Well (ft bgs)	Ground (ft)	Monument (ft)	TOC (ft)	Depth		Elevation				
														Top	Bottom	Top	Bottom			
B-228	Property, NW quadrant	Y	No	–	11/29/17	–	–	–	41.0	–	–	–	–	–	–	–	–	–	HSA	–
B-229	Property, NE quadrant	Y	No	–	11/29/17	–	–	–	45.5	–	–	–	–	–	–	–	–	–	HSA	–
B-230	Property, NW quadrant	Y	No	–	11/30/17	–	–	–	55.5	–	–	–	–	–	–	–	–	–	HSA	–
B-231	Property, NW quadrant	Y	No	–	11/30/17	–	–	–	40.5	–	–	–	–	–	–	–	–	–	HSA	–
B-232	Property, NE quadrant	Y	No	–	12/01/17	–	–	–	40.0	–	–	–	–	–	–	–	–	–	HSA	–
B-233	Property, NE quadrant	Y	No	–	12/01/17	–	–	–	41.5	–	–	–	–	–	–	–	–	–	HSA	–
B-234	Property, SW quadrant	Y	No	–	12/04/17	–	–	–	37.0	–	–	–	–	–	–	–	–	–	HSA	–
B-234A	Property, SW quadrant	Y	No	–	12/04/17	–	–	–	45.0	–	–	–	–	–	–	–	–	–	HSA	–
B-235	Property, SW quadrant	Y	No	–	12/4/17, 12/5/17	–	–	–	45.5	–	–	–	–	–	–	–	–	–	HSA	–
B-236	Property, SW quadrant	Y	No	–	12/05/17	–	–	–	45.5	–	–	–	–	–	–	–	–	–	HSA	–
B-237	Property, SW quadrant	Y	No	–	12/06/17	–	–	–	45.5	–	–	–	–	–	–	–	–	–	HSA	–
B-238	Property, NW quadrant	Y	No	–	12/06/17	–	–	–	40.0	–	–	–	–	–	–	–	–	–	HSA	–
DGW-3	615 Dexter, SE quadrant	Y	No	–	03/06/19	1,268,215.30	231,642.20	Unknown	45.0	–	56.08	–	–	–	–	–	–	–	HSA	–
DGW-4	Alley S of SW quadrant of 615 Dexter	Y	No	–	03/04/19	1,268,076.20	231,632.90	Unknown	51.5	–	69.87	–	–	–	–	–	–	–	HSA	–
MBB-1	SDOT Mercer Parcels, NW quadrant	Y	Yes	–	02/27/20	1,268,422.60	231,703.20	Unknown	40.0	–	55.02	–	–	–	–	–	–	–	Sonic	–
MBB-2	SDOT Mercer Parcels, NW quadrant	Y	Yes	–	02/27/20	1,268,418.40	231,687.60	Unknown	40.0	–	55.45	–	–	–	–	–	–	–	Sonic	–
MBB-3	SDOT Mercer Parcels, NW quadrant	Y	Yes	–	02/27/20	1,268,431.00	231,679.00	Unknown	40.0	–	54.84	–	–	–	–	–	–	–	Sonic	–
MBB-4	SDOT Mercer Parcels, NW quadrant	Y	Yes	–	02/27/20	1,268,438.50	231,685.40	Unknown	40.0	–	54.61	–	–	–	–	–	–	–	Sonic	–
MBB-5	SDOT Mercer Parcels, NW quadrant	Y	Yes	–	03/02/20	1,268,575.90	231,669.70	Unknown	40.0	–	50.53	–	–	–	–	–	–	–	Sonic	–
MBB-6	SDOT Mercer Parcels, NW quadrant	Y	Yes	–	03/03/20	1,268,588.90	231,665.20	Unknown	40.0	–	50.33	–	–	–	–	–	–	–	Sonic	–
MBB-7	SDOT Mercer Parcels, NW quadrant	Y	Yes	–	02/25/20	1,268,625.50	231,704.90	Unknown	40.0	–	49.41	–	–	–	–	–	–	–	Sonic	–
MBB-8	SDOT Mercer Parcels, NW quadrant	Y	Yes	–	02/26/20	1,268,630.30	231,658.20	Unknown	40.0	–	49.66	–	–	–	–	–	–	–	Sonic	–
MBB-9	SDOT Mercer Parcels, NE quadrant	Y	Yes	–	02/26/20	1,268,676.80	231,652.00	Unknown	40.0	–	47.55	–	–	–	–	–	–	–	Sonic	–
MBB-10	SDOT Mercer Parcels, NE quadrant	Y	Yes	–	02/26/20	1,268,686.20	231,698.90	Unknown	40.0	–	49.66	–	–	–	–	–	–	–	Sonic	–
MBB-16	SDOT Mercer Parcels, NW quadrant	Y	Yes	–	09/02/20	1,268,460.80	231,702.00	Unknown	40.4	–	53.70	–	–	–	–	–	–	–	Sonic	–
MBB-24	SDOT Mercer Parcels, NW quadrant	Y	Yes	–	09/09/20	1,268,449.00	231,640.90	Unknown	40.4	–	54.10	–	–	–	–	–	–	–	Sonic	–
MBB-25	Dexter Ave N ROW, E side	Y	Yes	–	10/30/20	1,268,366.10	231,525.00	Unknown	40.0	–	58.63	–	–	–	–	–	–	–	Sonic	–
MBB-26	Mercer St ROW, N side	Y	Yes	–	10/29/20	1,268,385.40	231,500.30	Unknown	40.0	–	58.79	–	–	–	–	–	–	–	Sonic	–
MBGW-11	Mercer St ROW, N side	Y	Yes	–	03/12/19	1,268,442.20	231,510.40	Unknown	50.0	–	57.55	–	–	–	–	–	–	–	HSA	–
Intermediate B Zone Borings																				
DB06	Property, SW quadrant	Y	No	–	03/25/13	–	–	–	80.5	–	–		–	–	–	–	–	–	HSA	–
DB07	Property, SE quadrant	Y	No	–	3/27/13, 3/28/13	–	–	–	90.5	–	–		–	–	–	–	–	–	HSA	–
DB08	Property, SE quadrant	Y	No	–	3/20/13, 3/21/13	–	–	–	70.5	–	–		–	–	–	–	–	–	HSA	–
DB09	Property, SE quadrant	Y	No	–	03/19/13	–	–	–	70.5	–	–		–	–	–	–	–	–	HSA	–
DB10	Property, SW quadrant	Y	No	–	3/29/13, 4/01/13	–	–	–	71.5	–	–		–	–	–	–	–	–	HSA	–
B-203	Property, NE quadrant	Y	Yes	–	06/20/17	1,268,561.63	232,025.18	Sep 2017	80.5	–	39.18	39.18	–	–	–	–	–	–	Sonic	–
B-205	Property, NE quadrant	Y	Yes	–	08/30/17	1,268,576.55	232,029.05	Sep 2017	80	–	40.28	40.28	–	–	–	–	–	–	Sonic	–
B-206	Property, NW quadrant	Y	Yes	–	08/14/17	1,268,449.73	231,966.00	Sep 2017	80	–	39.10	39.10	–	–	–	–	–	–	Sonic	–
B-207	Property, NE quadrant	Y	Yes	–	08/25/17	1,268,512.28	231,939.23	Sep 2017	90	–	38.51	38.51	–	–	–	–	–	–	Sonic	55
B-208	Property, SE quadrant	Y	Yes	–	08/24/17	1,268,562.08	231,910.53	Sep 2017	80	–	38.80	38.80	–	–	–	–	–	–	Sonic	–
B-209	Property, SE quadrant	Y	Yes	–	08/25/17	1,268,592.62	231,906.12	Sep 2017	82	–	38.97	38.97	–	–	–	–	–	–	Sonic	–
B-210	Property, SE quadrant	Y	Yes	–	8/21/17-8/22/17	1,268,521.39	231,878.26	Sep 2017	80	–	39.38	39.38	–	–	–	–	–	–	Sonic	50
B-216	Property, SW quadrant	Y	Yes	–	09/01/17	1,268,471.33	231,824.29	Sep 2017	95	–	51.86	51.86	–	–	–	–	–	–	Sonic	–
B-219	Property, SE quadrant	Y	Yes	–	08/28/17	1,268,593.22	231,834.94	Sep 2017	80	–	39.79	39.79	–	–	–	–	–	–	Sonic	–
B-221	Property, NE quadrant	Y	Yes	–	9/20/17-9/21/17	1,268,500.74	231,971.67	Sep 2017	70	–	39.02	39.02	–	–	–	–	–	–	Sonic	–

Table 3

Monitoring Well and Boring Completion Details
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Log?	Surveyed?	Well Tag	Dates Drilled	Easting	Northing	Last Surveyed	Depth		Elevation			Well Screen				Well Dia (in)	Drill Rig Type	Casing Depth (ft bgs)
									Total (ft bgs)	Well (ft bgs)	Ground (ft)	Monument (ft)	TOC (ft)	Depth		Elevation				
														Top	Bottom	Top	Bottom			
B-239	Property, NW quadrant	Y	Yes	–	04/18/18	1,268,455.45	232,010.81	Apr 2018	80	–	39.24	–	–	–	–	–	–	–	HSA	–
B-240	Property, NW quadrant	Y	Yes	–	04/02/18	1,268,445.88	231,984.23	Apr 2018	80	–	39.24	–	–	–	–	–	–	–	HSA	–
B-241	Property, NW quadrant	Y	Yes	–	04/03/18	1,268,444.93	231,958.45	Apr 2018	80	–	39.08	–	–	–	–	–	–	–	HSA	–
B-242	Property, NW quadrant	Y	Yes	–	04/04/18	1,268,395.16	231,959.03	Apr 2018	80	–	38.84	–	–	–	–	–	–	–	HSA	–
B-243	Property, SW quadrant	Y	Yes	–	03/29/18	1,268,379.31	231,911.19	Apr 2018	80	–	39.88	–	–	–	–	–	–	–	HSA	–
B-244	Property, SE quadrant	Y	Yes	–	03/28/18	1,268,560.60	231,894.07	Apr 2018	80	–	38.79	–	–	–	–	–	–	–	HSA	–
B-245	Property, SE quadrant	Y	Yes	–	03/28/18	1,268,542.23	231,812.38	Apr 2018	80	–	39.90	–	–	–	–	–	–	–	HSA	–
B-246	Property, SE quadrant	Y	Yes	–	05/11/18	–	–	–	80	–	39.88	–	–	–	–	–	–	–	HSA	–
B-247	Property, SW quadrant	Y	Yes	–	04/20/18	1,268,459.49	231,907.63	Apr 2018	81	–	39.73	–	–	–	–	–	–	–	HSA	–
MBGW-5	SDOT Mercer Parcels, NW quadrant	Y	Yes	–	03/11/19	1,268,585.20	231,683.80	Unknown	76.5	–	49.87	–	–	–	–	–	–	–	HSA	–
MBGW-7	SDOT Mercer Parcels, SW quadrant	Y	Yes	–	03/06/19	1,268,489.70	231,624.50	Unknown	75.3	–	53.76	–	–	–	–	–	–	–	HSA	–
MBGW-8	SDOT Mercer Parcels, SE quadrant	Y	Yes	–	03/15/19	1,268,709.90	231,577.50	Unknown	76.5	–	47.08	–	–	–	–	–	–	–	HSA	–
MBGW-16	SDOT Mercer Parcels, SW quadrant	Y	Yes	–	03/14/19	1,268,567.10	231,546.50	Unknown	75.5	–	52.14	–	–	–	–	–	–	–	HSA	–
Deep Zone Borings																				
B-211	Property, SW quadrant	Y	Yes	–	8/17/17-8/18/17	1,268,426.80	231,900.70	Sep 2017	122	–	39.75	–	–	–	–	–	–	–	Sonic	55
B-212	Dexter Ave N ROW, E side	Y	Yes	–	9/8/17-9/11/17	1,268,349.91	231,945.06	Sep 2017	100	–	57.61	–	–	–	–	–	–	–	Sonic	–
B-213	Dexter Ave N ROW, E side	Y	Yes	–	9/5/17-9/6/17	1,268,347.25	231,893.53	Sep 2017	125	–	57.42	–	–	–	–	–	–	–	Sonic	–
B-214	Dexter Ave N ROW, E side	Y	Yes	–	9/7/17-9/8/17	1,268,344.84	231,831.15	Sep 2017	120	–	57.42	–	–	–	–	–	–	–	Sonic	–
B-215	Roy St ROW, N side	Y	Yes	–	9/12/17-9/13/17	1,268,432.65	231,782.45	Sep 2017	95	–	53.95	–	–	–	–	–	–	–	Sonic	–
B-217	Property, SW quadrant	Y	Yes	–	09/05/17	1,268,385.94	231,843.51	Sep 2017	115	–	51.80	–	–	–	–	–	–	–	Sonic	–
B-248	Property, SW quadrant	Y	Yes	–	04/23/18	1,268,430.90	231,824.98	Apr 2018	115	–	51.85	–	–	–	–	–	–	–	HSA	–
MBGW-2	SDOT Mercer Parcels, NE quadrant	Y	Yes	–	03/05/19	1,268,809.60	231,675.90	Unknown	81.0	–	46.11	–	–	–	–	–	–	–	HSA	–
MBGW-15	SDOT Mercer Parcels, SE quadrant	Y	Yes	–	03/11/19	1,268,885.70	231,568.70	Unknown	81.0	–	40.87	–	–	–	–	–	–	–	HSA	–
Treatment Zone A Injection Wells																				
IW-1A	Property, NE quadrant	Y	Yes	BKF-132	03/02/18	1,268,539.39	232,028.04	Apr 2018	49	48	37.01	37.01	–	33.0	48.0	4.0	-11.0	2	HSA	–
IW-2A	Property, NE quadrant	Y	Yes	BKF-134	03/05/18	1,268,566.64	232,025.70	Apr 2018	51	50	39.57	39.56	–	35.0	50.0	4.6	-10.4	2	HSA	–
IW-3A	Property, NW quadrant	Y	Yes	BKF-210	03/09/18	1,268,471.14	232,008.21	Apr 2018	50	50	39.22	39.23	–	30.0	50.0	9.2	-10.8	2	HSA	–
IW-4A	Property, NW quadrant	Y	Yes	BKF-182	03/06/18	1,268,500.28	232,010.35	Apr 2018	50	49	38.90	38.92	–	29.0	49.0	9.9	-10.1	2	HSA	–
IW-5A	Property, NE quadrant	Y	Yes	BKS-137	03/06/18	1,268,529.18	232,004.88	Apr 2018	47	46	36.05	36.00	–	25.0	45.0	11.1	-9.0	2	HSA	–
IW-6A	Property, NE quadrant	Y	Yes	BKF-139	03/08/18	1,268,551.56	232,009.61	Apr 2018	48	49	37.76	37.74	–	33.0	48.0	4.8	-10.2	2	HSA	–
IW-7A	Property, NE quadrant	Y	Yes	BKF-192	03/15/18	1,268,577.15	232,008.24	Apr 2018	51	50	40.09	40.06	–	35.0	50.0	5.1	-9.9	2	HSA	–
IW-8A	Property, NE quadrant	Y	Yes	BKF-225	03/08/18	1,268,600.43	232,008.24	Apr 2018	52	51	41.47	41.48	–	36.0	51.0	5.5	-9.5	2	HSA	–
IW-9A	Property, NW quadrant	Y	Yes	BKF-209	03/09/18	1,268,456.41	231,992.20	Apr 2018	49	49	39.22	39.25	–	29.0	49.0	10.2	-9.8	2	HSA	–
IW-10A	Property, NW quadrant	Y	Yes	BKF-186	03/12/18	1,268,491.57	231,983.63	Apr 2018	50	49	39.23	39.27	–	29.0	49.0	10.2	-9.8	2	HSA	–
IW-11A	Property, NE quadrant	Y	Yes	BKF-128	02/23/18	1,268,519.48	231,988.42	Apr 2018	50	49	35.29	35.37	–	34.0	49.0	1.3	-13.7	2	HSA	–
IW-12A	Property, NE quadrant	Y	Yes	BKF-129	02/26/18	1,268,540.14	231,988.12	Apr 2018	48	47	36.65	36.72	–	32.0	47.0	4.7	-10.4	2	HSA	–
IW-13A	Property, NE quadrant	Y	Yes	BKF-190	03/14/18	1,268,565.44	231,986.17	Apr 2018	51	49	38.42	38.40	–	34.0	49.0	4.4	-10.6	2	HSA	–
IW-14A	Property, NE quadrant	Y	Yes	BKF-230	03/05/18	1,268,587.75	231,985.77	Apr 2018	52	50	40.83	40.89	–	35.0	50.0	5.8	-9.2	2	HSA	–
IW-15A	Property, NE quadrant	Y	Yes	BKS-228	03/07/18	1,268,611.47	231,990.54	Apr 2018	53	52	41.81	41.84	–	37.0	52.0	4.8	-10.2	2	HSA	–
IW-16A	Property, NW quadrant	Y	Yes	BKF-223	03/09/18	1,268,449.98	231,966.09	Apr 2018	53	49	39.08	39.09	–	34.0	49.0	5.1	-9.9	2	HSA	–
IW-17A	Property, NW quadrant	Y	Yes	BKF-220	03/13/18	1,268,472.68	231,980.01	Apr 2018	54	49	39.11	39.13	–	29.0	49.0	10.1	-9.9	2	HSA	–
IW-18A	Property, NE quadrant	Y	Yes	BKF-219	03/14/18	1,268,499.98	231,967.53	Apr 2018	52	49	38.90	38.92	–	29.0	49.0	9.9	-10.1	2	HSA	–
IW-19A	Property, NE quadrant	Y	Yes	BKF-145	03/13/18	1,268,523.81	231,965.23	Apr 2018	47	47	37.48	37.50	–	27.0	47.0	10.5	-9.5	2	HSA	–
IW-20A	Property, NE quadrant	Y	Yes	BKF-193	3/16-3/19/18	1,268,549.04	231,964.96	Apr 2018	48	48	37.44	37.42	–	28.0	48.0	9.4	-10.6	2	HSA	–
IW-21A	Property, NE quadrant	Y	Yes	BKF-235	02/28/18	1,268,574.60	231,964.18	Apr 2018	51	50	39.28	39.44	–	35.0	50.0	4.3	-10.7	2	HSA	–

Table 3

Monitoring Well and Boring Completion Details
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Log?	Surveyed?	Well Tag	Dates Drilled	Easting	Northing	Last Surveyed	Depth		Elevation			Well Screen				Well Dia (in)	Drill Rig Type	Casing Depth (ft bgs)
									Total (ft bgs)	Well (ft bgs)	Ground (ft)	Monument (ft)	TOC (ft)	Depth		Elevation				
														Top	Bottom	Top	Bottom			
IW-22A	Property, NE quadrant	Y	Yes	BKF-231	03/05/18	1,268,597.88	231,963.49	Apr 2018	54	52	41.86	41.86	–	37.0	52.0	4.9	-10.1	2	HSA	–
IW-23A	Property, NW quadrant	Y	Yes	BKF-176	02/28/18	1,268,461.14	231,947.95	Apr 2018	52	52	39.02	39.05	–	37.0	52.0	2.0	-13.0	2	HSA	–
IW-24A	Property, NW quadrant	Y	Yes	BKF-182	03/05/18	1,268,486.39	231,951.88	Apr 2018	49	49	39.12	39.19	–	34.0	49.0	5.1	-9.9	2	HSA	–
IW-25A	Property, NE quadrant	Y	Yes	BKF-238	02/26/18	1,268,511.47	231,944.62	Apr 2018	50	49	38.13	38.45	–	34.0	49.0	4.1	-10.9	2	HSA	–
IW-26A	Property, NE quadrant	Y	Yes	BKF-239	02/23/18	1,268,536.37	231,943.60	Apr 2018	50	48.5	38.68	38.82	–	33.5	48.5	5.2	-9.8	2	HSA	–
IW-27A	Property, NE quadrant	Y	Yes	BKF-245	02/09/18	1,268,562.59	231,943.08	Apr 2018	49	49	38.41	38.41	–	34.0	49.0	4.4	-10.6	2	HSA	–
IW-28A	Property, NE quadrant	Y	Yes	BKF-233	03/01/18	1,268,588.74	231,941.99	Apr 2018	52	51	42.00	42.04	–	36.0	51.0	6.0	-9.0	2	HSA	–
IW-29A	Property, SE quadrant	Y	Yes	BKF-182	03/05/18	1,268,521.50	231,921.38	Apr 2018	49	49	39.55	39.61	–	34.0	49.0	5.6	-9.5	2	HSA	–
IW-30A	Property, NE quadrant	Y	Yes	BKF-179	03/01/18	1,268,548.35	231,928.37	Apr 2018	50	50	39.08	39.19	–	35.0	50.0	4.1	-10.9	2	HSA	–
IW-31A	Property, SW quadrant	Y	Yes	BKF-170	02/19/18	1,268,484.93	231,907.20	Apr 2018	50	50	40.07	40.05	–	35.0	50.0	5.1	-9.9	2	HSA	–
IW-32A	Property, SW quadrant	Y	Yes	BKF-122	02/15/18	1,268,395.74	231,907.86	Apr 2018	52	50.5	39.86	39.90	–	35.5	50.5	4.4	-10.6	2	HSA	–
IW-33A	Property, SE quadrant	Y	Yes	BKF-208	03/07/18	1,268,513.26	231,911.19	Apr 2018	51	50	40.18	40.17	–	35.0	50.0	5.2	-9.8	2	HSA	–
IW-34A	Property, SW quadrant	Y	Yes	BKF-119	02/13/18	1,268,413.88	231,907.87	Apr 2018	51	50	39.92	39.98	–	35.0	50.0	4.9	-10.1	2	HSA	–
IW-35A	Property, SW quadrant	Y	Yes	BKF-168	02/15/18	1,268,475.13	231,887.90	Apr 2018	50	50	40.41	40.55	–	35.0	50.0	5.4	-9.6	2	HSA	–
IW-36A	Property, SW quadrant	Y	Yes	BKF-153	2/12-2/13/18	1,268,377.32	231,881.69	Apr 2018	53	52	39.90	39.90	–	37.0	52.0	2.9	-12.1	2	HSA	–
IW-37A	Property, SW quadrant	Y	Yes	BKF-152	02/07/18	1,268,489.05	231,880.66	Apr 2018	51	50	40.39	40.41	–	35.0	50.0	5.4	-9.6	2	HSA	–
IW-38A	Property, SW quadrant	Y	Yes	BKF-158	02/16/18	1,268,403.80	231,893.71	Apr 2018	52	51	40.07	39.99	–	36.0	51.0	4.1	-10.9	2	HSA	–
IW-39A	Property, SW quadrant	Y	Yes	BKF-117	02/12/18	1,268,426.72	231,886.82	Apr 2018	51	51	39.87	39.94	–	36.0	51.0	3.9	-11.1	2	HSA	–
IW-40A	Property, SW quadrant	Y	Yes	BKF-196	03/20/18	1,268,386.01	231,859.14	Apr 2018	57	56	51.76	51.78	–	36.0	56.0	15.8	-4.2	2	HSA	–
IW-41A	Property, SW quadrant	Y	Yes	BKF-150	03/19/18	1,268,411.44	231,855.89	Apr 2018	63	62	51.65	51.70	–	42.0	62.0	9.7	-10.4	2	HSA	–
IW-42A	Property, SW quadrant	Y	Yes	BKF-149	03/19/18	1,268,386.17	231,839.74	Apr 2018	63	62	51.84	51.84	–	42.0	62.0	9.8	-10.2	2	HSA	–
IW-43A	Property, SE quadrant	Y	Yes	BKF-113	02/08/18	1,268,569.60	231,829.78	Apr 2018	50	50	39.64	39.72	–	35.0	50.0	4.6	-10.4	2	HSA	–
IW-44A	Property, SE quadrant	Y	Yes	BKF-114	02/08/18	1,268,595.81	231,828.30	Apr 2018	50	50	39.82	39.83	–	35.0	50.0	4.8	-10.2	2	HSA	–
IW-45A	Property, SW quadrant	Y	Yes	BKF-148	03/16/18	1,268,383.46	231,821.88	Apr 2018	64	62	51.89	51.88	–	42.0	62.0	9.9	-10.1	2	HSA	–
IW-46A	Property, SE quadrant	Y	Yes	BKF-110	02/06/18	1,268,535.05	231,811.45	Apr 2018	53	51	39.88	39.92	–	36.0	51.0	3.9	-11.1	2	HSA	–
IW-47A	Property, SE quadrant	Y	Yes	BKF-111	02/07/18	1,268,557.69	231,810.82	Apr 2018	53	53	39.87	39.87	–	38.0	53.0	1.9	-13.1	2	HSA	–
IW-48A	Property, SE quadrant	Y	Yes	BKF-112	02/07/18	1,268,581.43	231,810.01	Apr 2018	51	51	39.92	39.95	–	36.0	51.0	3.9	-11.1	2	HSA	–
IW-50A	Property, SW quadrant	Y	Yes	BKF-363	03/27/18	1,268,408.58	231,839.62	Apr 2018	63	62	51.81	51.85	–	42.0	62.0	9.8	-10.2	2	HSA	–
IW-51A	Property, SW quadrant	Y	Yes	BKF-200	03/26/18	1,268,402.42	231,822.33	Apr 2018	63	62	51.89	51.91	–	42.0	62.0	9.9	-10.1	2	HSA	–
IW-52A	Property, NE quadrant	Y	No	BKH-295	09/20/18	1,268,518.88	232,030.87	Oct 2018	46	45.2	36.20	35.93	–	25.8	45.8	10.4	-9.6	2	Sonic	–
IW-53A	Property, NW quadrant	Y	No	BKH-277	08/29/18	1,268,425.95	231,983.67	Oct 2018	50	50	39.20	39.23	–	28.9	49.0	10.3	-9.8	2	Sonic	–
IW-54A	Property, NW quadrant	Y	No	BKH-284	09/12/18	1,268,396.22	231,937.70	Oct 2018	50	49.6	39.40	39.11	–	29.6	49.6	9.8	-10.2	2	Sonic	–
IW-55A	Property, SW quadrant	Y	No	BKH-279	09/05/18	1,268,378.98	231,909.60	Oct 2018	52	51.8	41.20	39.65	–	31.7	51.8	9.5	-10.6	2	Sonic	–
IW-56A	Property, SW quadrant	Y	No	BKH-278	09/05/18	1,268,412.51	231,873.29	Oct 2018	52	50	40.20	40.40	–	35.0	50.0	5.2	-9.8	2	Sonic	–
IW-57A	Property, SW quadrant	Y	No	BKH-293	09/19/18	1,268,435.63	231,853.15	Oct 2018	65	62.5	51.70	51.61	–	47.2	62.2	4.5	-10.5	2	Sonic	–
IW-58A	Property, NW quadrant	Y	No	BKR-484	10/17/18	–	–	–	51	50.6	39.20	–	–	35.3	50.3	3.9	-11.1	2	Sonic	–
CA-A1	Property, NW quadrant	Y	Yes	BLZ-113	08/28/19	1,268,407.78	231,973.48	Nov 2019	26.4	25.0	13.9	–	13.58	9.7	24.7	4.2	-10.8	2	Sonic	–
CA-A2	Property, NW quadrant	Y	Yes	BLZ-116	08/29/19	1,268,406.99	231,954.25	Nov 2019	25.2	24.7	13.9	–	13.59	9.4	24.4	4.5	-10.5	2	Sonic	–
CA-A3	Property, NW quadrant	Y	Yes	BLZ-119	09/12/19	1,268,406.94	231,938.96	Nov 2019	24.5	24.4	13.9	–	13.77	9.0	24.0	4.9	-10.1	2	Sonic	–
CA-A4	Property, SW quadrant	Y	Yes	BLZ-123	09/18/19	1,268,406.70	231,918.56	Nov 2019	26.1	26.0	13.9	–	13.58	10.6	25.6	3.3	-11.7	2	Sonic	–
CA-A5	Property, SW quadrant	Y	Yes	BLZ-342	09/23/19	1,268,405.77	231,898.71	Nov 2019	25.5	25.5	13.9	–	13.58	10.2	25.2	3.7	-11.3	2	Sonic	–
CA-A6	Property, SW quadrant	Y	Yes	BLZ-341	09/24/19	1,268,405.18	231,878.43	Nov 2019	26.1	25.4	13.9	–	13.45	10.1	25.1	3.9	-11.2	2	Sonic	–
CA-A7	Property, SW quadrant	Y	Yes	BLZ-340	09/23/19	1,268,404.63	231,853.59	Nov 2019	27.2	27.1	13.9	–	13.58	11.7	26.7	2.2	-12.8	2	Sonic	–
CA-A8	Property, SW quadrant	Y	Yes	BLZ-339	09/19/19	1,268,404.07	231,833.63	Nov 2019	26.3	26.3	13.9	–	13.62	10.9	25.9	3.0	-12.0	2	Sonic	–
CA-A9	Property, NW quadrant	Y	Yes	BLZ-147	09/04/19	1,268,492.93	232,010.33	Nov 2019	24.7	24.5	13.9	–	13.63	9.2	24.2	4.7	-10.3	2	Sonic	–

Table 3

Monitoring Well and Boring Completion Details
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Log?	Surveyed?	Well Tag	Dates Drilled	Easting	Northing	Last Surveyed	Depth		Elevation			Well Screen				Well Dia (in)	Drill Rig Type	Casing Depth (ft bgs)
									Total (ft bgs)	Well (ft bgs)	Ground (ft)	Monument (ft)	TOC (ft)	Depth		Elevation				
														Top	Bottom	Top	Bottom			
CA-A10	Property, NW quadrant	Y	Yes	BLZ-169	09/04/19	1,268,492.40	231,990.39	Nov 2019	25.2	25.0	13.9	–	13.64	9.7	24.7	4.3	-10.8	2	Sonic	–
CA-A11	Property, NW quadrant	Y	Yes	BLZ-173	09/05/19	1,268,492.09	231,970.60	Nov 2019	24.8	25.1	13.9	–	13.61	9.8	24.8	4.1	-10.9	2	Sonic	–
CA-A12	Property, NW quadrant	Y	Yes	BLZ-177	09/06/19	1,268,491.58	231,950.65	Nov 2019	25.8	24.9	13.9	–	13.64	9.5	24.5	4.4	-10.6	2	Sonic	–
CA-A13	Property, NW quadrant	Y	Yes	BLZ-181	09/10/19	1,268,490.99	231,931.08	Nov 2019	25.4	25.0	13.9	–	13.60	9.7	24.7	4.2	-10.8	2	Sonic	–
CA-A14	Property, SW quadrant	Y	Yes	BLZ-128	09/11/19	1,268,490.39	231,911.11	Nov 2019	25.4	25.4	13.9	–	13.59	10.1	25.1	3.8	-11.2	2	Sonic	–
CA-A15	Property, SW quadrant	Y	Yes	BLZ-131	09/24/19	1,268,489.94	231,891.18	Nov 2019	25.3	25.3	13.9	–	13.58	10.0	25.0	3.9	-11.1	2	Sonic	–
CA-A16	Property, NE quadrant	Y	Yes	BLZ-166	10/23/19	1,268,559.64	231,998.66	Nov 2019	50.0	25.2	13.9	–	13.62	9.9	24.9	4.0	-11.0	2	Sonic	–
CA-A17	Property, NE quadrant	Y	Yes	BLZ-164	10/24/19	1,268,560.17	231,978.89	Nov 2019	25.6	25.6	13.9	–	13.50	10.2	25.2	3.7	-11.3	2	Sonic	–
CA-A18	Property, NE quadrant	Y	Yes	BLZ-162	10/26/19	1,268,559.91	231,959.22	Nov 2019	25.2	25.0	13.9	–	13.58	9.6	24.6	4.3	-10.7	2	Sonic	–
CA-A19	Property, SE quadrant	Y	Yes	BLZ-137	09/27/19	1,268,530.34	231,830.75	Nov 2019	25.3	24.9	13.9	–	13.60	9.6	24.6	4.4	-10.7	2	Sonic	–
CA-A20	Property, SE quadrant	Y	Yes	BLZ-139	09/30/19	1,268,550.15	231,830.04	Nov 2019	26.4	26.1	13.9	–	13.64	10.8	22.8	3.1	-8.9	2	Sonic	–
CA-A21	Property, SE quadrant	Y	Yes	BLZ-141	10/03/19	1,268,565.44	231,829.77	Nov 2019	25.6	25.6	13.9	–	13.59	10.3	25.3	3.6	-11.4	2	Sonic	–
Treatment Zone B Injection Wells																				
IW-1B	Property, NW quadrant	Y	Yes	BKF-133	03/02/18	1,268,536.68	232,032.13	Apr 2018	64	63	36.81	36.82	–	48.0	63.0	-11.2	-26.2	2	HSA	–
IW-2B	Property, NW quadrant	Y	Yes	BKF-135	03/05/18	1,268,563.86	232,031.13	Apr 2018	66	65	39.56	39.54	–	50.0	65.0	-10.4	-25.4	2	HSA	–
IW-3B	Property, NW quadrant	Y	Yes	BKF-181	03/06/18	1,268,496.44	232,006.05	Apr 2018	65	64	39.07	39.10	–	49.0	64.0	-9.9	-24.9	2	HSA	–
IW-4B	Property, SW quadrant	Y	Yes	BKF-136	03/06/18	1,268,527.20	232,009.32	Apr 2018	64	63	36.08	36.07	–	48.0	63.0	-11.9	-26.9	2	HSA	–
IW-5B	Property, SW quadrant	Y	Yes	BKF-140	03/08/18	1,268,547.37	232,009.88	Apr 2018	64	63	37.43	37.47	–	48.0	63.0	-10.6	-25.6	2	HSA	–
IW-6B	Property, SW quadrant	Y	Yes	BKF-191	03/15/18	1,268,572.95	232,010.79	Apr 2018	65	65	39.65	39.63	–	50.0	65.0	-10.4	-25.4	2	HSA	–
IW-7B	Property, SW quadrant	Y	Yes	BKF-224	03/09/18	1,268,598.78	232,012.09	Apr 2018	67	66	41.48	41.52	–	51.0	66.0	-9.5	-24.5	2	HSA	–
IW-8B	Property, SW quadrant	Y	Yes	BKF-195	3/19-3/20/18	1,268,464.24	231,991.12	Apr 2018	64.5	64	39.19	39.24	–	49.0	64.0	-9.8	-24.8	2	HSA	–
IW-9B	Property, NW quadrant	Y	Yes	BKF-184	03/08/18	1,268,495.30	231,980.09	Apr 2018	65	64.5	39.16	39.18	–	49.5	64.5	-10.3	-25.3	2	HSA	–
IW-10B	Property, NW quadrant	Y	Yes	BKF-131	03/01/18	1,268,518.75	231,992.62	Apr 2018	64	63	35.41	35.43	–	48.0	63.0	-12.6	-27.6	2	HSA	–
IW-11B	Property, NW quadrant	Y	Yes	BKF-164	02/26/18	1,268,536.38	231,991.42	Apr 2018	63	62	36.28	36.44	–	47.0	62.0	-10.7	-25.7	2	HSA	–
IW-12B	Property, NW quadrant	Y	Yes	BKF-189	03/14/18	1,268,561.38	231,990.46	Apr 2018	65	64	38.03	38.04	–	49.0	64.0	-11.0	-26.0	2	HSA	–
IW-13B	Property, NW quadrant	Y	Yes	BKF-226	03/08/18	1,268,586.98	231,990.83	Apr 2018	67	66	40.68	40.73	–	51.0	66.0	-10.3	-25.3	2	HSA	–
IW-14B	Property, SW quadrant	Y	Yes	BKF-227	03/07/18	1,268,607.87	231,991.75	Apr 2018	70	69	41.63	41.64	–	54.0	69.0	-12.4	-27.4	2	HSA	–
IW-15B	Property, SW quadrant	Y	Yes	BKF-222	03/12/18	1,268,445.61	231,966.44	Apr 2018	67	64	39.10	39.15	–	49.0	64.0	-9.9	-24.9	2	HSA	–
IW-16B	Property, NE quadrant	Y	Yes	BKF-221	03/13/18	1,268,474.83	231,964.68	Apr 2018	67	64	39.00	39.04	–	49.0	64.0	-10.0	-25.0	2	HSA	–
IW-17B	Property, NE quadrant	Y	Yes	BKF-218	03/14/18	1,268,497.35	231,964.43	Apr 2018	65	64	39.03	39.08	–	49.0	64.0	-10.0	-25.0	2	HSA	–
IW-18B	Property, NE quadrant	Y	Yes	BKF-147	03/15/18	1,268,521.69	231,958.50	Apr 2018	63	62	37.52	37.74	–	47.0	62.0	-9.5	-24.5	2	HSA	–
IW-19B	Property, NE quadrant	Y	Yes	BKF-194	03/19/18	1,268,546.16	231,970.53	Apr 2018	63.5	63	37.36	37.43	–	48.0	63.0	-10.6	-25.6	2	HSA	–
IW-20B	Property, NE quadrant	Y	Yes	BKF-234	02/28/18	1,268,572.06	231,968.62	Apr 2018	66	65	39.06	39.07	–	50.0	65.0	-10.9	-25.9	2	HSA	–
IW-21B	Property, NE quadrant	Y	Yes	BKF-229	03/06/18	1,268,595.29	231,966.95	Apr 2018	67	67	41.88	41.91	–	52.0	67.0	-10.1	-25.1	2	HSA	–
IW-22B	Property, NW quadrant	Y	Yes	BKF-177	02/28/18	1,268,457.17	231,953.54	Apr 2018	64	64	39.05	39.12	–	49.0	64.0	-10.0	-25.0	2	HSA	–
IW-23B	Property, NW quadrant	Y	Yes	BKF-181	03/05/18	1,268,480.66	231,954.58	Apr 2018	64	64	39.05	39.12	–	49.0	64.0	-10.0	-25.0	2	HSA	–
IW-24B	Property, NE quadrant	Y	Yes	BKF-237	02/26/18	1,268,508.92	231,953.94	Apr 2018	65	64	38.11	38.16	–	49.0	64.0	-10.9	-25.9	2	HSA	–
IW-25B	Property, NE quadrant	Y	Yes	BKF-240	02/22/18	1,268,539.41	231,949.46	Apr 2018	65	65	38.43	38.52	–	50.0	65.0	-11.6	-26.6	2	HSA	–
IW-26B	Property, NE quadrant	Y	Yes	BKF-244	02/12/18	1,268,563.65	231,948.69	Apr 2018	65	64	38.59	38.59	–	49.0	65.0	-10.4	-26.4	2	HSA	–
IW-27B	Property, NE quadrant	Y	Yes	BKF-233	03/02/18	1,268,587.77	231,946.65	Apr 2018	66	64	41.89	41.97	–	50.0	65.0	-8.1	-23.1	2	HSA	–
IW-28B	Property, NW quadrant	Y	Yes	BKF-174	02/22/18	1,268,418.68	231,930.89	Apr 2018	64	64	39.16	39.20	–	49.0	64.0	-9.8	-24.8	2	HSA	–
IW-29B	Property, NW quadrant	Y	Yes	BKF-173	02/22/18	1,268,452.23	231,932.45	Apr 2018	64	64	39.08	39.14	–	49.0	64.0	-9.9	-24.9	2	HSA	–
IW-30B	Property, NW quadrant	Y	Yes	BKF-175	02/23/18	1,268,480.26	231,931.20	Apr 2018	65	65	39.15	39.21	–	50.0	65.0	-10.9	-25.9	2	HSA	–
IW-31B	Property, NE quadrant	Y	Yes	BKF-175	02/26/18	1,268,503.10	231,928.68	Apr 2018	65	65	38.91	39.06	–	50.0	65.0	-11.1	-26.1	2	HSA	–
IW-32B	Property, NE quadrant	Y	Yes	BKF-207	03/07/18	1,268,528.67	231,925.09	Apr 2018	66	65	39.46	39.55	–	50.0	65.0	-10.5	-25.5	2	HSA	–

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American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Log?	Surveyed?	Well Tag	Dates Drilled	Easting	Northing	Last Surveyed	Depth		Elevation			Well Screen				Well Dia (in)	Drill Rig Type	Casing Depth (ft bgs)
									Total (ft bgs)	Well (ft bgs)	Ground (ft)	Monument (ft)	TOC (ft)	Depth		Elevation				
														Top	Bottom	Top	Bottom			
IW-33B	Property, NE quadrant	Y	Yes	BKF-180	03/02/18	1,268,549.42	231,935.50	Apr 2018	64	64	38.73	38.79	–	49.0	64.0	-10.3	-25.3	2	HSA	–
IW-34B	Property, SW quadrant	Y	Yes	BKF-121	02/15/18	1,268,390.32	231,905.73	Apr 2018	68	67	39.85	39.90	–	52.0	67.0	-12.2	-27.2	2	HSA	–
IW-35B	Property, SW quadrant	Y	Yes	BKF-123	02/16/18	1,268,414.12	231,904.16	Apr 2018	66	65	39.92	39.94	–	50.0	65.0	-10.1	-25.1	2	HSA	–
IW-36B	Property, SW quadrant	Y	Yes	BKF-206	03/06/18	1,268,437.81	231,906.53	Apr 2018	66	65	39.82	39.83	–	50.0	65.0	-10.2	-25.2	2	HSA	–
IW-37B	Property, SW quadrant	Y	Yes	BKF-178	03/01/18	1,268,462.74	231,903.88	Apr 2018	65	65	36.69	39.68	–	50.0	65.0	-13.3	-28.3	2	HSA	–
IW-38B	Property, SW quadrant	Y	Yes	BKF-171	02/20/18	1,268,485.27	231,899.19	Apr 2018	65	65	40.07	40.05	–	50.0	65.0	-9.9	-24.9	2	HSA	–
IW-39B	Property, SE quadrant	Y	Yes	BKF-187	3/12-3/13/18	1,268,509.82	231,904.74	Apr 2018	65	65	40.16	40.21	–	50.0	65.0	-9.8	-24.8	2	HSA	–
IW-40B	Property, SW quadrant	Y	Yes	BKF-155	02/13/18	1,268,376.85	231,886.84	Apr 2018	66	65	39.94	39.94	–	50.0	65.0	-10.1	-25.1	2	HSA	–
IW-41B	Property, SW quadrant	Y	Yes	BKF-157	02/15/18	1,268,401.06	231,888.10	Apr 2018	67	66	39.92	39.98	–	51.0	66.0	-11.1	-26.1	2	HSA	–
IW-42B	Property, SW quadrant	Y	Yes	BKF-118	02/13/18	1,268,422.06	231,885.88	Apr 2018	68	67	39.98	40.04	–	52.0	67.0	-12.0	-27.0	2	HSA	–
IW-43B	Property, SW quadrant	Y	Yes	BKF-162	02/23/18	1,268,445.99	231,885.58	Apr 2018	65	64.5	40.00	40.18	–	49.5	64.5	-9.5	-24.5	2	HSA	–
IW-44B	Property, SW quadrant	Y	Yes	BKF-154	02/08/18	1,268,471.69	231,881.49	Apr 2018	66	65	40.56	40.58	–	50.0	65.0	-9.4	-24.4	2	HSA	–
IW-45B	Property, SE quadrant	Y	Yes	BKF-151	02/05/18	1,268,496.31	231,882.27	Apr 2018	65	65	40.07	40.06	–	50.0	65.0	-9.9	-24.9	2	HSA	–
IW-46B	Property, SW quadrant	Y	Yes	BKF-197	03/21/18	1,268,379.28	231,857.02	Apr 2018	77	76	51.82	51.83	–	56.0	76.0	-4.2	-24.2	2	HSA	–
IW-47B	Property, SW quadrant	Y	Yes	BKF-198	03/22/18	1,268,407.67	231,853.44	Apr 2018	78	77	51.76	51.80	–	57.0	77.0	-5.2	-25.2	2	HSA	–
IW-48B	Property, SW quadrant	Y	Yes	BKF-199	03/23/18	1,268,432.22	231,853.84	Apr 2018	77	76	51.60	51.68	–	61.0	76.0	-9.4	-24.4	2	HSA	–
IW-49B	Property, SE quadrant	Y	Yes	BKF-109	02/05/18	1,268,535.86	231,815.74	Apr 2018	65	65	39.88	39.88	–	50.0	65.0	-10.1	-25.1	2	HSA	–
IW-50B	Property, SE quadrant	Y	Yes	BKF-115	02/09/18	1,268,557.26	231,815.81	Apr 2018	68	68	39.88	39.90	–	53.0	68.0	-13.1	-28.1	2	HSA	–
IW-51B	Property, SE quadrant	Y	Yes	BKF-116	02/12/18	1,268,580.89	231,814.30	Apr 2018	66	66	39.88	39.88	–	51.0	66.0	-11.1	-26.1	2	HSA	–
IW-52B	Property, NE quadrant	Y	No	BKH-288	09/13/18	1,268,508.39	232,021.12	Oct 2018	66	66	39.40	39.32	–	50.7	65.7	-11.3	-26.3	2	Sonic	–
IW-53B	Property, NE quadrant	Y	No	BKH-296	09/20/18	1,268,522.05	231,975.79	Oct 2018	63	62.8	36.70	35.31	–	47.8	62.8	-11.1	-26.1	2	Sonic	
IW-54B	Property, NW quadrant	Y	No	BKH-281	9/5-9/6/18	1,268,391.82	231,934.34	Oct 2018	67	64.5	39.50	39.19	–	49.0	64.0	-9.5	-24.5	2	Sonic	–
IW-55B	Property, SW quadrant	Y	No	BKH-287	09/13/18	1,268,389.59	231,841.86	Oct 2018	79	79.2	51.80	51.78	–	63.8	78.8	-12.0	-27.0	2	Sonic	–
IW-56B	Property, SW quadrant	Y	No	BKH-294	09/14/18	1,268,383.63	231,818.92	Oct 2018	80	78.4	52.00	51.84	–	63.0	78.0	-11.0	-26.0	2	Sonic	–
CA-B1	Property, NW quadrant	Y	Yes	BLZ-114	08/28/19	1,268,407.63	231,968.46	Nov 2019	38.7	38.7	13.9	–	13.56	23.2	38.2	-9.3	-24.3	2	Sonic	–
CA-B2	Property, NW quadrant	Y	Yes	BLZ-117	08/29/19	1,268,407.42	231,948.60	Nov 2019	39.6	39.5	13.9	–	13.56	24.2	39.2	-10.3	-25.3	2	Sonic	–
CA-B3	Property, NW quadrant	Y	Yes	BLZ-120	09/12/19	1,268,407.07	231,933.58	Nov 2019	38.2	38.9	13.9	–	13.63	23.6	38.6	-9.7	-24.7	2	Sonic	–
CA-B4	Property, SW quadrant	Y	Yes	BLZ-336	09/18/19	1,268,406.27	231,913.65	Nov 2019	39.5	39.1	13.9	–	13.57	23.7	38.8	-9.8	-24.9	2	Sonic	–
CA-B5	Property, SW quadrant	Y	Yes	BLZ-335	9/23/19 - 9/24/19	1,268,405.80	231,893.25	Nov 2019	39.2		13.9	–	13.58	–	–	–	–	2	Sonic	–
CA-B6	Property, SW quadrant	Y	Yes	BLZ-296	09/19/19	1,268,405.16	231,873.44	Nov 2019	39.6	39.6	13.9	–	13.62	24.3	39.3	-10.4	-25.4	2	Sonic	–
CA-B7	Property, SW quadrant	Y	Yes	BLZ-299	09/23/19	1,268,404.49	231,849.12	Nov 2019	40.2	40.4	13.9	–	13.62	25.1	40.1	-11.2	-26.2	2	Sonic	–
CA-B8	Property, SW quadrant	Y	Yes	BLZ-298	09/16/19	1,268,404.03	231,828.64	Nov 2019	40.1	40.5	13.9	–	13.55	25.1	40.1	-11.2	-26.2	2	Sonic	–
CA-B9	Property, NW quadrant	Y	Yes	BLZ-167	9/3/19 - 9/4/19	1,268,492.60	232,005.88	Nov 2019	39.9	40.0	13.9	–	13.61	24.7	39.7	-10.8	-25.8	2	Sonic	–
CA-B10	Property, NW quadrant	Y	Yes	BLZ-170	08/30/19	1,268,492.43	231,986.10	Nov 2019	39.7	39.9	13.9	–	13.58	24.5	39.5	-10.6	-25.6	2	Sonic	–
CA-B11	Property, NW quadrant	Y	Yes	BLZ-174	09/05/19	1,268,492.04	231,965.95	Nov 2019	39.3	39.1	13.9	–	13.57	23.7	38.7	-9.8	-24.8	2	Sonic	–
CA-B12	Property, NW quadrant	Y	Yes	BLZ-178	9/6/19 - 9/9/19	1,268,491.62	231,946.15	Nov 2019	39.7	39.7	13.9	–	13.61	24.3	39.3	-10.4	-25.4	2	Sonic	–
CA-B13	Property, NW quadrant	Y	Yes	BLZ-338	09/10/19	1,268,490.90	231,925.71	Nov 2019	40.9	39.9	13.9	–	13.62	24.6	39.5	-10.7	-25.6	2	Sonic	–
CA-B14	Property, SW quadrant	Y	Yes	BLZ-129	09/11/19	1,268,490.14	231,905.94	Nov 2019	40.2	39.2	13.9	–	13.59	23.8	38.8	-9.9	-24.9	2	Sonic	–
CA-B15	Property, SW quadrant	Y	Yes	BLZ-132	09/24/19	1,268,489.47	231,886.21	Nov 2019	39.5	39.5	13.9	–	13.58	24.2	39.2	-10.3	-25.3	2	Sonic	–
CA-B16	Property, NE quadrant	Y	Yes	BLZ-165	10/23/19	1,268,559.57	231,993.66	Nov 2019	39.0	39.8	13.9	–	13.57	24.5	39.5	-10.6	-25.6	2	Sonic	–
CA-B17	Property, NE quadrant	Y	Yes	BLZ-163	10/28/19	1,268,560.04	231,974.31	Nov 2019	39.4	39.3	13.9	–	13.57	24.0	39.0	-10.1	-25.1	2	Sonic	–
CA-B18	Property, NE quadrant	Y	Yes	BLZ-161	10/26/19	1,268,559.56	231,953.53	Nov 2019	38.8	38.8	13.9	–	13.61	23.4	38.4	-9.5	-24.5	2	Sonic	–
CA-B19	Property, SE quadrant	Y	Yes	BLZ-138	09/27/19	1,268,535.49	231,830.36	Nov 2019	39.6	39.6	13.9	–	13.58	24.2	39.2	-10.3	-25.3	2	Sonic	–
CA-B20	Property, SE quadrant	Y	Yes	BLZ-140	09/27/19	1,268,555.48	231,830.01	Nov 2019	39.5	39.5	13.9	–	13.60	24.2	39.2	-10.3	-25.3	2	Sonic	–
CA-B21	Property, SE quadrant	Y	Yes	BLZ-142	10/02/19	1,268,575.30	231,829.04	Nov 2019	40.4	40.2	13.9	–	13.60	24.8	39.8	-10.9	-25.9	2	Sonic	–

Table 3

Monitoring Well and Boring Completion Details
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Log?	Surveyed?	Well Tag	Dates Drilled	Easting	Northing	Last Surveyed	Depth		Elevation			Well Screen				Well Dia (in)	Drill Rig Type	Casing Depth (ft bgs)
									Total (ft bgs)	Well (ft bgs)	Ground (ft)	Monument (ft)	TOC (ft)	Depth		Elevation				
														Top	Bottom	Top	Bottom			
Treatment Zone C Injection Wells																				
IW-1C	Property, NE quadrant	Y	Yes	BKF-183	03/07/18	1,268,506.76	232,011.33	Apr 2018	79	78	39.12	39.14	–	63.0	78.0	-23.9	-38.9	2	HSA	–
IW-2C	Property, NE quadrant	Y	Yes	BKF-138	03/07/18	1,268,531.69	232,009.90	Apr 2018	77	76	36.24	36.33	–	61.0	76.0	-24.8	-39.8	2	HSA	–
IW-3C	Property, NE quadrant	Y	Yes	BKF-185	03/09/18	1,268,497.19	231,985.98	Apr 2018	80	79	39.09	39.13	–	64.0	79.0	-24.9	-39.9	2	HSA	–
IW-4C	Property, NE quadrant	Y	Yes	BKF-130	02/28/18	1,268,519.44	231,983.41	Apr 2018	79	78	35.19	35.31	–	63.0	78.0	-27.8	-42.8	2	HSA	–
IW-5C	Property, NE quadrant	Y	Yes	BKF-201	02/27/18	1,268,537.55	231,981.83	Apr 2018	78	77	36.38	36.55	–	62.0	77.0	-25.6	-40.6	2	HSA	–
IW-6C	Property, NE quadrant	Y	Yes	BKF-188	03/13/18	1,268,559.78	231,980.97	Apr 2018	81	80	37.95	37.99	–	65.0	80.0	-27.1	-42.1	2	HSA	–
IW-7C	Property, NW quadrant	Y	Yes	BKF-217	03/15/18	1,268,490.47	231,963.53	Apr 2018	82	81	39.16	39.23	–	66.0	81.0	-26.8	-41.8	2	HSA	–
IW-8C	Property, NE quadrant	Y	Yes	BKF-146	03/14/18	1,268,520.09	231,965.32	Apr 2018	77	77	37.46	37.50	–	62.0	77.0	-24.5	-39.5	2	HSA	–
IW-9C	Property, NE quadrant	Y	Yes	BKF-236	02/27/18	1,268,516.55	231,942.01	Apr 2018	80	79	38.06	38.37	–	64.0	79.0	-25.9	-40.9	2	HSA	–
IW-10C	Property, NW quadrant	Y	Yes	BKF-243	02/13/18	1,268,416.70	231,935.67	Apr 2018	79	79	39.15	39.20	–	64.0	79.0	-24.9	-39.9	2	HSA	–
IW-11C	Property, NW quadrant	Y	Yes	BKF-120	02/14/18	1,268,402.98	231,915.53	Apr 2018	81	80	39.83	39.97	–	65.0	80.0	-25.2	-40.2	2	HSA	–
IW-12C	Property, SW quadrant	Y	Yes	BKF-203	03/01/18	1,268,427.89	231,913.46	Apr 2018	80	80	39.86	39.87	–	65.0	80.0	-25.1	-40.1	2	HSA	–
IW-13C	Property, SW quadrant	Y	Yes	BKF-204	03/02/18	1,268,452.88	231,912.34	Apr 2018	81	80	39.78	39.81	–	65.0	80.0	-25.2	-40.2	2	HSA	–
IW-14C	Property, SW quadrant	Y	Yes	BKF-172	02/21/18	1,268,477.86	231,912.58	Apr 2018	80	80	39.54	39.64	–	65.0	80.0	-25.5	-40.5	2	HSA	–
IW-15C	Property, SW quadrant	Y	Yes	BKF-156	02/14/18	1,268,396.38	231,889.64	Apr 2018	82	81	39.92	39.93	–	66.0	80.0	-26.1	-40.1	2	HSA	–
IW-16C	Property, SW quadrant	Y	Yes	BKF-159	02/19/18	1,268,416.93	231,893.12	Apr 2018	76.5	75	39.86	39.87	–	60.0	75.0	-20.1	-35.1	2	HSA	–
IW-17C	Property, SW quadrant	Y	Yes	BKF-163	02/26/18	1,268,439.93	231,891.79	Apr 2018	80	80	39.84	39.95	–	65.0	80.0	-25.2	-40.2	2	HSA	–
IW-18C	Property, SW quadrant	Y	Yes	BKF-166	02/14/18	1,268,464.20	231,892.02	Apr 2018	80	80	40.12	40.19	–	65.0	80.0	-24.9	-39.9	2	HSA	–
IW-19C	Property, SW quadrant	Y	Yes	BKF-165	02/13/18	1,268,484.72	231,885.48	Apr 2018	82	81.5	40.34	40.47	–	66.5	81.5	-26.2	-41.2	2	HSA	–
IW-20C	Property, SW quadrant	Y	Yes	BKF-126	02/21/18	1,268,402.17	231,874.37	Apr 2018	86	84	40.19	40.41	–	69.0	84.0	-28.8	-43.8	2	HSA	–
IW-21C	Property, SW quadrant	Y	Yes	BKF-161	02/22/18	1,268,426.07	231,875.45	Apr 2018	89	88	40.16	40.38	–	73.0	88.0	-32.8	-47.8	2	HSA	–
IW-22C	Property, NW quadrant	Y	No	BKH-276	08/30/18	1,268,464.01	231,959.31	Oct 2018	80	79.8	39.20	38.94	–	64.8	79.8	-25.6	-40.6	2	Sonic	–
IW-23C	Property, NW quadrant	Y	No	BKH-275	9/4-9/5/18	1,268,436.07	231,943.55	Oct 2018	82	81	39.20	39.04	–	66.2	81.2	-27.0	-42.0	2	Sonic	–
IW-24C	Property, NW quadrant	Y	No	BKH-282	09/07/18	1,268,461.67	231,931.73	Oct 2018	81	81	39.30	39.16	–	65.4	80.4	-26.1	-41.1	2	Sonic	–
IW-25C	Property, NW quadrant	Y	No	BKH-291	09/19/18	1,268,487.67	231,940.44	Oct 2018	80	80.5	39.20	39.16	–	65.2	80.2	-26.0	-41.0	2	Sonic	
IW-26C	Property, SW quadrant	Y	No	BKH-280	09/06/18	1,268,382.65	231,905.15	Oct 2018	81	81	39.90	39.73	–	66.0	81.0	-26.1	-41.1	2	Sonic	–
IW-27C	Property, SW quadrant	Y	No	BKH-285	9/10-9/11/18	1,268,383.69	231,861.98	Oct 2018	91	90.8	50.90	51.75	–	75.3	90.5	-24.4	-39.6	2	Sonic	–
IW-28C	Property, SW quadrant	Y	No	BKH-292	09/17/18	1,268,436.23	231,857.62	Oct 2018	93	93.7	51.70	51.36	–	78.3	93.4	-26.6	-41.7	2	Sonic	–
CA-C1	Property, NW quadrant	Y	Yes	BLZ-115	08/27/19	1,268,407.57	231,963.35	Nov 2019	56.0	54.7	13.9	–	13.59	39.4	54.4	-25.5	-40.5	2	Sonic	–
CA-C2A	Property, NW quadrant	Y	Yes	BLZ-118	09/16/19	1,268,404.06	231,943.62	Nov 2019	54.4	54.3	13.9	–	13.64	39.0	54.0	-25.1	-40.1	2	Sonic	–
CA-C3	Property, NW quadrant	Y	Yes	BLZ-121	09/11/19	1,268,406.72	231,928.62	Nov 2019	53.8	54.3	13.9	–	13.61	38.9	53.9	-25.0	-40.0	2	Sonic	–
CA-C4	Property, SW quadrant	Y	Yes	BLZ-297	09/19/19	1,268,405.96	231,908.54	Nov 2019	56.6	54.1	13.9	–	13.52	38.7	53.7	-24.8	-39.8	2	Sonic	–
CA-C5	Property, SW quadrant	Y	Yes	BLZ-300	09/24/19	1,268,405.59	231,888.31	Nov 2019	55	55	13.9	–	13.58	39.7	54.7	-25.8	-40.8	2	Sonic	–
CA-C6	Property, SW quadrant	Y	Yes	BLZ-407	09/19/19	1,268,404.93	231,868.27	Nov 2019	54.7	54.7	13.9	–	13.61	39.4	54.4	-25.5	-40.5	2	Sonic	–
CA-C7	Property, SW quadrant	Y	Yes	BLZ-351	09/20/19	1,268,404.03	231,843.44	Nov 2019	55.4	55.4	13.9	–	13.59	40.0	55.0	-26.1	-41.1	2	Sonic	–
CA-C8	Property, NW quadrant	Y	Yes	BLZ-168	8/30/19 - 9/3/19	1,268,492.72	232,000.77	Nov 2019	55.0	55.4	13.9	–	13.58	40.0	55.0	-26.1	-41.1	2	Sonic	–
CA-C9	Property, NW quadrant	Y	Yes	BLZ-171	09/04/19	1,268,492.20	231,980.76	Nov 2019	34.2	33.3	13.9	–	13.57	37.9	52.9	-24.0	-39.0	2	Sonic	–
CA-C10	Property, NW quadrant	Y	Yes	BLZ-175	9/5/19 - 9/6/19	1,268,491.69	231,961.04	Nov 2019	54.8	53.8	13.9	–	13.54	38.5	53.5	-24.6	-39.6	2	Sonic	–
CA-C11	Property, NW quadrant	Y	Yes	BLZ-179	09/09/19	1,268,490.93	231,940.94	Nov 2019	54.2	54.4	13.9	–	13.65	39.0	54.0	-25.1	-40.1	2	Sonic	–
CA-C12	Property, SW quadrant	Y	Yes	BLZ-183	09/09/19	1,268,490.52	231,921.25	Nov 2019	55.3	54.8	13.9	–	13.50	39.5	54.5	-25.6	-40.6	2	Sonic	–
CA-C13	Property, SW quadrant	Y	Yes	BLZ-130	09/10/19	1,268,490.11	231,900.89	Nov 2019	54.2	54.2	13.9	–	13.57	38.8	53.8	-24.9	-39.9	2	Sonic	–
Treatment Zone D Injection Wells																				
IW-1D	Property, NE quadrant	Y	Yes	BKF-241	02/21/18	1,268,514.49	231,954.46	Apr 2018	91.5	91.5	37.67	37.79	–	78.5	91.5	-40.8	-53.8	2	HSA	–
IW-2D	Property, NE quadrant	Y	Yes	BKF-169	02/16/18	1,268,501.07	231,934.13	Apr 2018	95	94	38.89	38.94	–	79.0	94.0	-40.1	-55.1	2	HSA	–

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Sample Location	Description of Location	Log?	Surveyed?	Well Tag	Dates Drilled	Easting	Northing	Last Surveyed	Depth		Elevation			Well Screen				Well Dia (in)	Drill Rig Type	Casing Depth (ft bgs)
									Total (ft bgs)	Well (ft bgs)	Ground (ft)	Monument (ft)	TOC (ft)	Depth		Elevation				
														Top	Bottom	Top	Bottom			
IW-3D	Property, NE quadrant	Y	Yes	BKF-242	02/19/18	1,268,525.41	231,940.10	Apr 2018	94	94	38.36	38.59	–	79.0	94.0	-40.6	-55.6	2	HSA	–
IW-4D	Property, SW quadrant	Y	Yes	BKF-124	02/19/18	1,268,404.67	231,921.76	Apr 2018	96	95	39.80	39.91	–	80.0	95.0	-40.2	-55.2	2	HSA	–
IW-5D	Property, SW quadrant	Y	Yes	BKF-167	02/14/18	1,268,432.73	231,921.50	Apr 2018	95	95	39.86	39.87	–	80.0	95.0	-40.1	-55.1	2	HSA	–
IW-6D	Property, SW quadrant	Y	Yes	BKF-125	02/20/18	1,268,397.52	231,897.65	Apr 2018	97	96	39.87	39.95	–	81.0	96.0	-41.1	-56.1	2	HSA	–
IW-7D	Property, SW quadrant	Y	Yes	BKF-202	02/28/18	1,268,419.76	231,898.51	Apr 2018	95	94.5	39.84	39.86	–	79.5	94.5	-39.7	-54.7	2	HSA	–
IW-8D	Property, SW quadrant	Y	Yes	BKF-205	03/05/18	1,268,443.79	231,896.56	Apr 2018	95	95	39.65	39.53	–	80.0	95.0	-40.4	-55.4	2	HSA	–
IW-9D	Property, SW quadrant	Y	Yes	BKF-127	02/22/18	1,268,405.77	231,881.02	Apr 2018	100	99	40.00	40.07	–	84.0	99.0	-44.0	-59.0	2	HSA	–
IW-10D	Property, SW quadrant	Y	Yes	BKF-160	02/21/18	1,268,430.53	231,879.14	Apr 2018	99	98	40.19	40.28	–	83.0	98.0	-42.8	-57.8	2	HSA	–
IW-11D	Property, NE quadrant	Y	Yes	BKF-362	4/19/18-4/20/18	1,268,536.76	231,953.61	Apr 2018	95	95	38.18	38.37	–	80.0	95.0	-41.8	-56.8	2	HSA	–
IW-12D	Property, NE quadrant	Y	No	BKH-289	09/14/18	1,268,503.56	231,977.86	Oct 2018	95	94.9	38.50	39.04	–	79.9	94.9	-41.4	-56.4	2	Sonic	–
IW-13D	Property, NW quadrant	Y	No	BKH-290	09/18/18	1,268,482.19	231,958.68	Oct 2018	95	94.5	39.20	39.16	–	80.2	95.2	-41.0	-56.0	2	Sonic	–
IW-14D	Property, NW quadrant	Y	No	BKH-283	09/10/18	1,268,474.96	231,940.18	Oct 2018	109	108.7	39.20	39.08	–	80.2	95.2	-41.0	-56.0	2	Sonic	–
IW-15D	Property, SW quadrant	Y	No	BKH-286	09/11/18	1,268,390.43	231,845.85	Oct 2018	109	109	51.80	51.79	–	93.7	108.7	-41.9	-56.9	2	Sonic	–
IW-16D	Property, NW quadrant	Y	No	BKR-485	10/17-10/18/18	–	–	–	96	96.2	39.30	–	–	80.8	95.5	-41.5	-56.2	2	Sonic	–
CA-D1	Property, SW quadrant	Y	Yes	BLZ-122	09/10/19	1,268,406.74	231,923.47	Nov 2019	68.0	68.4	13.9	–	13.60	53.0	68.0	-39.1	-54.1	2	Sonic	–
CA-D2	Property, SW quadrant	Y	Yes	BLZ-352	9/16/19 - 9/18/19	1,268,406.00	231,903.91	Nov 2019	69.7	69.4	13.9	–	13.61	54.0	69.0	-40.1	-55.1	2	Sonic	–
CA-D3	Property, SW quadrant	Y	Yes	BLZ-353	9/19/19 - 9/23/19	1,268,405.78	231,883.37	Nov 2019	69.1	69.7	13.9	–	13.57	54.3	69.3	-40.4	-55.4	2	Sonic	–
CA-D4	Property, SW quadrant	Y	Yes	BLZ-354	09/18/19	1,268,404.67	231,863.59	Nov 2019	70.1	70.1	13.9	–	13.65	54.8	69.8	-40.9	-55.9	2	Sonic	–
CA-D5	Property, NW quadrant	Y	Yes	BLZ-172	9/3/19 - 9/4/19	1,268,492.06	231,976.01	Nov 2019	71.8	69.2	13.9	–	13.55	53.9	68.9	-40.0	-55.0	2	Sonic	–
CA-D6	Property, NW quadrant	Y	Yes	BLZ-176	09/04/19	1,268,491.58	231,955.40	Nov 2019	71.8	68.4	13.9	–	13.62	53.1	68.1	-39.2	-54.2	2	Sonic	–
CA-D7	Property, NW quadrant	Y	Yes	BLZ-337	9/5/19 - 9/6/19	1,268,491.19	231,935.87	Nov 2019	72.0	69.3	13.9	–	13.57	54.0	69.0	-40.1	-55.1	2	Sonic	–
CA-D8	Property, SW quadrant	Y	Yes	BLZ-184	9/6/19 - 9/9/19	1,268,490.41	231,915.69	Nov 2019	72.2	69.6	13.9	–	13.63	52.2	69.2	-38.3	-55.3	2	Sonic	–
Perimeter Dual Completion Wells																				
PRB-A1	8th Ave N ROW, W side	N	No	BLZ-201	1/8/19 - 1/9/19	–	–	–	85	52	–	–	–	31.7	51.7	–	–	2	Sonic	–
PRB-C1	8th Ave N ROW, W side	N	No			–	–	–		82	–	–	–	66.7	81.7	–	–	2	Sonic	–
PRB-B1	8th Ave N ROW, W side	N	No	BLZ-202	1/15/19 - 1/17/19	–	–	–	98	67.5	–	–	–	52.2	67.2	–	–	2	Sonic	–
PRB-D1	8th Ave N ROW, W side	N	No			–	–	–		97	–	–	–	82.2	96.7	–	–	2	Sonic	–
PRB-A2	8th Ave N ROW, W side	N	No	BLZ-203	1/17/19 - 1/18/19	–	–	–	83	52	–	–	–	31.8	51.8	–	–	2	Sonic	–
PRB-C2	8th Ave N ROW, W side	N	No			–	–	–		82	–	–	–	66.8	86.8	–	–	2	Sonic	–
PRB-B2	8th Ave N ROW, W side	N	No	BLZ-204	1/16/19 - 1/21/19	–	–	–	99	67.1	–	–	–	51.8	67.8	–	–	2	Sonic	–
PRB-D2	8th Ave N ROW, W side	N	No			–	–	–		97.3	–	–	–	82.0	96.9	–	–	2	Sonic	–
PRB-A3	8th Ave N ROW, W side	N	No	BLZ-205	2/13/19 - 2/14/19	–	–	–	84.5	53.5	–	–	–	33.2	53.2	–	–	2	Sonic	–
PRB-C3	8th Ave N ROW, W side	N	No			–	–	–		84.3	–	–	–	69.0	84.0	–	–	2	Sonic	–
PRB-B3	8th Ave N ROW, W side	N	No	BLZ-206	1/10/19 - 1/11/19	–	–	–	99	69	–	–	–	53.7	68.7	–	–	2	Sonic	–
PRB-D3	8th Ave N ROW, W side	N	No			–	–	–		98	–	–	–	82.7	97.7	–	–	2	Sonic	–
PRB-A4	8th Ave N ROW, W side	N	No	BLZ-207	1/8/19 - 1/10/19	–	–	–	85	53	–	–	–	32.7	52.7	–	–	2	Sonic	–
PRB-C4	8th Ave N ROW, W side	N	No			–	–	–		83	–	–	–	67.7	82.7	–	–	2	Sonic	–
PRB-B4	8th Ave N ROW, W side	N	No	BLZ-208	1/22/19 - 1/23/19	–	–	–	100	68	–	–	–	52.7	67.7	–	–	2	Sonic	–
PRB-D4	8th Ave N ROW, W side	N	No			–	–	–		98	–	–	–	82.7	97.7	–	–	2	Sonic	–
PRB-A5	8th Ave N ROW, W side	N	No	BLZ-209	1/23/19 - 1/23/19	–	–	–	84	53	–	–	–	32.7	52.7	–	–	2	Sonic	–
PRB-C5	8th Ave N ROW, W side	N	No			–	–	–		83	–	–	–	67.7	82.7	–	–	2	Sonic	–
PRB-B5	8th Ave N ROW, W side	N	No	BLZ-210	2/14/19 - 2/14/19	–	–	–	99.5	68.4	–	–	–	53.1	68.1	–	–	2	Sonic	–
PRB-D5	8th Ave N ROW, W side	N	No			–	–	–		98.4	–	–	–	83.1	98.1	–	–	2	Sonic	–
PRB-A6	8th Ave N ROW, W side	N	No	BLZ-211	2/19/19 - 2/19/19	–	–	–	84.5	53.6	–	–	–	33.2	53.3	–	–	2	Sonic	–
PRB-C6	8th Ave N ROW, W side	N	No			–	–	–		83.7	–	–	–	68.3	83.3	–	–	2	Sonic	–

Table 3

Monitoring Well and Boring Completion Details
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Log?	Surveyed?	Well Tag	Dates Drilled	Easting	Northing	Last Surveyed	Depth		Elevation			Well Screen				Well Dia (in)	Drill Rig Type	Casing Depth (ft bgs)
									Total (ft bgs)	Well (ft bgs)	Ground (ft)	Monument (ft)	TOC (ft)	Depth		Elevation				
														Top	Bottom	Top	Bottom			
PRB-B6	8th Ave N ROW, W side	N	No	BLZ-212	2/20/19 - 2/21/19	–	–	–	99.5	69.1	–	–	–	53.7	68.7	–	–	2	Sonic	–
PRB-D6	8th Ave N ROW, W side	N	No			–	–	–		99.2	–	–	–	83.9	98.9	–	–	2	Sonic	–
PRB-A7	8th Ave N ROW, W side	N	No	BLZ-213	2/15/19 - /2/15/19	–	–	–	84.5	53.4	–	–	–	33.1	53.1	–	–	2	Sonic	–
PRB-C7	8th Ave N ROW, W side	N	No			–	–	–		83.6	–	–	–	68.3	83.3	–	–	2	Sonic	–
PRB-B7	8th Ave N ROW, W side	N	No	BLZ-214	2/12/19 - 2/13/19	–	–	–	100	67.8	–	–	–	52.5	67.5	–	–	2	Sonic	–
PRB-D7	8th Ave N ROW, W side	N	No			–	–	–		98.7	–	–	–	83.4	98.4	–	–	2	Sonic	–
PRB-A8	8th Ave N ROW, W side	N	No	BLZ-215	2/8/19 - 2/12/19	–	–	–	84	54.0	–	–	–	33.7	53.7	–	–	2	Sonic	–
PRB-C8	8th Ave N ROW, W side	N	No			–	–	–		84.0	–	–	–	68.7	83.7	–	–	2	Sonic	–
PRB-B8	8th Ave N ROW, W side	N	No	BLZ-216	2/20/19 - 2/20/19	–	–	–	99.5	69.0	–	–	–	53.6	68.6	–	–	2	Sonic	–
PRB-D8	8th Ave N ROW, W side	N	No			–	–	–		99.5	–	–	–	84.2	99.2	–	–	2	Sonic	–
PRB-A9	8th Ave N ROW, W side	N	No	BLZ-217	2/7/19 - 2/7/19	–	–	–	87.5	54.1	–	–	–	33.7	53.7	–	–	2	Sonic	–
PRB-C9	8th Ave N ROW, W side	N	No			–	–	–		83.8	–	–	–	68.5	83.5	–	–	2	Sonic	–
PRB-B9	8th Ave N ROW, W side	N	No	BLZ-218	1/30/19 - 2/6/19	–	–	–	100	69.2	–	–	–	53.8	68.8	–	–	2	Sonic	–
PRB-D9	8th Ave N ROW, W side	N	No			–	–	–		99.3	–	–	–	84.0	99.0	–	–	2	Sonic	–
PRB-A10	8th Ave N ROW, W side	N	No	BLZ-219	1/14/19 - 1/17/19	–	–	–	86	56	–	–	–	35.7	55.7	–	–	2	Sonic	–
PRB-C10	8th Ave N ROW, W side	N	No			–	–	–		86	–	–	–	70.7	85.7	–	–	2	Sonic	–
PRB-B10	8th Ave N ROW, W side	N	No	BLZ-220	2/22/19 - 2/22/19	–	–	–	101	70.6	–	–	–	55.3	70.3	–	–	2	Sonic	–
PRB-D10	8th Ave N ROW, W side	N	No			–	–	–		100.5	–	–	–	85.2	100.2	–	–	2	Sonic	–
PRB-A11	8th Ave N ROW, W side	N	No	BLZ-221	2/25/19	–	–	–	86	53.6	–	–	–	35.0	55.0	–	–	2	Sonic	–
PRB-C11	8th Ave N ROW, W side	N	No			–	–	–		84.9	–	–	–	69.5	84.5	–	–	2	Sonic	–
PRB-B11	8th Ave N ROW, W side	N	No	BLZ-222	1/15/19 - 1/16/19	–	–	–	101	70.0	–	–	–	55.4	70.4	–	–	2	Sonic	–
PRB-D11	8th Ave N ROW, W side	N	No			–	–	–		100.7	–	–	–	85.4	100.4	–	–	2	Sonic	–
PRB-A12	8th Ave N ROW, W side	N	No	BLZ-223	2/26/19 - 2/26/19	–	–	–	86.5	55.4	–	–	–	35.1	55.1	–	–	2	Sonic	–
PRB-C12	8th Ave N ROW, W side	N	No			–	–	–		85.5	–	–	–	70.1	84.1	–	–	2	Sonic	–
PRB-B12	8th Ave N ROW, W side	N	No	BLZ-224	1/21/19 - 2/27/19	–	–	–	101	68.2	–	–	–	53.0	67.8	–	–	2	Sonic	–
PRB-D12	8th Ave N ROW, W side	N	No			–	–	–		98.4	–	–	–	83.4	98.1	–	–	2	Sonic	–
PRB-A13	Roy St ROW, N side	N	No	BLZ-225	3/4/19 - 3/5/19	–	–	–	87	57.7	–	–	–	37.3	57.3	–	–	2	Sonic	–
PRB-C13	Roy St ROW, N side	N	No			–	–	–		87.2	–	–	–	71.9	86.9	–	–	2	Sonic	–
PRB-B13	Roy St ROW, N side	N	No	BLZ-226	03/21/19	–	–	–	103	72.0	–	–	–	56.6	71.6	–	–	2	Sonic	–
PRB-D13	Roy St ROW, N side	N	No			–	–	–		102.4	–	–	–	87.0	102.0	–	–	2	Sonic	–
PRB-B14	Roy St ROW, N side	N	No	BLZ-227	3/5/19 - 3/5/19	–	–	–	103.5	73.6	–	–	–	58.3	73.3	–	–	2	Sonic	–
PRB-D14	Roy St ROW, N side	N	No			–	–	–		103.5	–	–	–	88.2	103.2	–	–	2	Sonic	–
PRB-D14R	Roy St ROW, N side	N	No		12/1/20 - 12/10/20	–	–	–	106	105.9	–	–	–	90.6	105.6	–	–	2	Sonic	–
PRB-B15	Roy St ROW, N side	N	No	BLZ-228	03/07/19	–	–	–	104	73.7	–	–	–	58.4	73.4	–	–	2	Sonic	–
PRB-D15	Roy St ROW, N side	N	No			–	–	–		103.7	–	–	–	88.4	103.4	–	–	2	Sonic	–
PRB-A16	Roy St ROW, N side	N	No	BLZ-229	3/7/19 - 3/11/19	–	–	–	90.5	58.7	–	–	–	43.4	58.4	–	–	2	Sonic	–
PRB-C16	Roy St ROW, N side	N	No			–	–	–		88.5	–	–	–	73.2	88.2	–	–	2	Sonic	–
PRB-B16	Roy St ROW, N side	N	No	BLZ-230	3/13/19 - 3/13/19	–	–	–	106	76.0	–	–	–	60.6	75.6	–	–	2	Sonic	–
PRB-D16	Roy St ROW, N side	N	No			–	–	–		106.0	–	–	–	90.7	105.7	–	–	2	Sonic	–
PRB-A17	Roy St ROW, N side	N	No	BLZ-231	3/8/19 - 3/12/19	–	–	–	91.5	58.5	–	–	–	38.2	58.2	–	–	2	Sonic	–
PRB-C17	Roy St ROW, N side	N	No			–	–	–		89.6	–	–	–	74.3	89.3	–	–	2	Sonic	–
PRB-B17	Roy St ROW, N side	N	No	BLZ-232	03/12/19	–	–	–	105	75.8	–	–	–	60.5	75.5	–	–	2	Sonic	–
PRB-D17	Roy St ROW, N side	N	No			–	–	–		106.2	–	–	–	90.9	105.9	–	–	2	Sonic	–
PRB-A18	Roy St ROW, N side	N	No	BLZ-233	03/14/19	–	–	–	93	60.0	–	–	–	39.7	59.7	–	–	2	Sonic	–
PRB-C18	Roy St ROW, N side	N	No			–	–	–		90.6	–	–	–	75.3	90.3	–	–	2	Sonic	–

Table 3

Monitoring Well and Boring Completion Details
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Log?	Surveyed?	Well Tag	Dates Drilled	Easting	Northing	Last Surveyed	Depth		Elevation			Well Screen				Well Dia (in)	Drill Rig Type	Casing Depth (ft bgs)
									Total (ft bgs)	Well (ft bgs)	Ground (ft)	Monument (ft)	TOC (ft)	Depth		Elevation				
														Top	Bottom	Top	Bottom			
PRB-B18	Roy St ROW, N side	N	No	BLZ-234	3/22/19 - 3/23/19	–	–	–	108	75.4	–	–	–	60.0	75.0	–	–	2	Sonic	–
PRB-D18	Roy St ROW, N side	N	No			–	–	–		105.4	–	–	–	90.0	105.0	–	–	2	Sonic	–
PRB-D18R	Roy St ROW, N side	N	No		12/4/20-12/8/20	–	–	–	107	107.0	–	–	–	91.6	106.6	–	–	2	Sonic	–
PRB-A19	Roy St ROW, N side	N	No	BLZ-235	03/19/19	–	–	–	95	61.6	–	–	–	41.2	61.3	–	–	2	Sonic	–
PRB-C19	Roy St ROW, N side	N	No			–	–	–		91.9	–	–	–	76.6	91.6	–	–	2	Sonic	–
PRB-B19	Roy St ROW, N side	N	No	BLZ-236	03/18/19	–	–	–	110	79.6	–	–	–	64.7	79.3	–	–	2	Sonic	–
PRB-D19	Roy St ROW, N side	N	No			–	–	–		109.4	–	–	–	94.0	109.0	–	–	2	Sonic	–
PRB-D19R	Roy St ROW, N side	N	No		12/3/20-12/4/20	–	–	–	110	109.8	–	–	–	94.4	109.4	–	–	2	Sonic	–
PRB-A20	Roy St ROW, N side	N	No	BLZ-237	03/15/19	–	–	–	94.5	64.1	–	–	–	43.7	63.8	–	–	2	Sonic	–
PRB-C20	Roy St ROW, N side	N	No			–	–	–		93.6	–	–	–	78.2	93.2	–	–	2	Sonic	–
PRB-B20	Roy St ROW, N side	N	No	BLZ-238	03/21/19	–	–	–	110	78.8	–	–	–	63.5	78.5	–	–	2	Sonic	–
PRB-D20	Roy St ROW, N side	N	No			–	–	–		109.0	–	–	–	93.7	108.7	–	–	2	Sonic	–
PRB-A21	Roy St ROW, N side	N	No	BLZ-239	03/16/19	–	–	–	96	64.0	–	–	–	43.7	63.7	–	–	2	Sonic	–
PRB-C21	Roy St ROW, N side	N	No			–	–	–		94.8	–	–	–	79.5	94.5	–	–	2	Sonic	–
PRB-B21	Roy St ROW, N side	N	No	BLZ-240	03/26/19	–	–	–	110	80.0	–	–	–	64.6	79.6	–	–	2	Sonic	–
PRB-D21	Roy St ROW, N side	N	No			–	–	–		109.8	–	–	–	94.5	109.5	–	–	2	Sonic	–
PRB-A22	Roy St ROW, N side	N	No	BLZ-241	03/23/19	–	–	–	96	64.6	–	–	–	44.2	64.3	–	–	2	Sonic	–
PRB-C22	Roy St ROW, N side	N	No			–	–	–		96.3	–	–	–	80.9	95.9	–	–	2	Sonic	–
Treatment Zone A Monitoring Wells																				
MW-165	Property, NE quadrant	Yes	Yes	BLZ-150	10/22/19	1,268,581.94	231,970.40	Nov 2019	22.7	23.0	13.9	–	13.58	12.7	22.7	1.3	-8.8	2	Sonic	–
MW-169	Property, SW quadrant	Yes	Yes	BLZ-127	09/24/19	1,268,461.82	231,922.84	Nov 2019	23.1	23.1	13.9	–	13.55	12.7	22.7	1.2	-8.8	2	Sonic	–
MW-173	Property, SE quadrant	Yes	Yes	BLZ-146	10/26/19	1,268,584.42	231,917.86	Nov 2019	22.0	22.0	13.9	–	13.56	11.7	21.7	2.2	-7.8	2	Sonic	–
MW-177	Property, SW quadrant	Yes	Yes	BLZ-350	09/26/19	1,268,393.18	231,887.12	Nov 2019	22.1	21.9	13.9	–	13.61	11.6	21.6	2.3	-7.7	2	Sonic	–
MW-181	Property, SW quadrant	Yes	Yes	BLZ-349	09/27/19	1,268,431.00	231,834.46	Nov 2019	22.8	22.8	13.9	–	13.59	12.4	22.4	1.5	-8.5	2	Sonic	–
MW-185	Property, SE quadrant	Yes	Yes	BLZ-133	10/02/19	1,268,522.10	231,840.33	Nov 2019	23.2	22.9	13.9	–	13.60	12.6	22.6	1.4	-8.7	2	Sonic	–
Treatment Zone B Monitoring Wells																				
MW-166	Property, NE quadrant	Yes	Yes	BLZ-149	10/22/19	1,268,587.14	231,970.32	Nov 2019	36.8	36.8	13.9	–	13.58	26.5	36.5	-12.6	-22.6	2	Sonic	–
MW-170	Property, SW quadrant	Yes	Yes	BLZ-126	09/26/19	1,268,466.70	231,922.95	Nov 2019	36.7	37.0	13.9	–	13.56	26.7	36.7	-12.8	-22.8	2	Sonic	–
MW-174	Property, SE quadrant	Yes	Yes	BLZ-145	10/26/19	1,268,584.50	231,913.45	Nov 2019	37.0	36.5	13.9	–	13.57	26.2	36.2	-12.3	-22.3	2	Sonic	–
MW-178	Property, SW quadrant	Yes	Yes	BLZ-348	09/25/19	1,268,397.56	231,887.29	Nov 2019	36.1	36.0	13.9	–	13.61	25.6	35.6	-11.7	-21.7	2	Sonic	–
MW-182	Property, SW quadrant	Yes	Yes	BLZ-347	09/27/19	1,268,435.65	231,834.63	Nov 2019	37.4	36.8	13.9	–	13.59	26.4	36.4	-12.5	-22.5	2	Sonic	–
MW-186	Property, SE quadrant	Yes	Yes	BLZ-136	10/01/19	1,268,527.26	231,840.76	Nov 2019	36.1	37.0	13.9	–	13.57	26.6	36.6	-12.7	-22.7	2	Sonic	–
Treatment Zone C Monitoring Wells																				
MW-167	Property, NE quadrant	Yes	Yes	BLZ-160	10/22/19	1,268,581.97	231,965.15	Nov 2019	52.2	52.2	13.9	–	13.58	41.8	51.8	-27.9	-37.9	2	Sonic	–
MW-171	Property, SW quadrant	Yes	Yes	BLZ-125	9/24/19 - 9/25/19	1,268,461.59	231,917.65	Nov 2019	52.7	51.8	13.9	–	13.49	41.5	51.5	-27.6	-37.6	2	Sonic	–
MW-175	Property, SE quadrant	Yes	Yes	BLZ-144	10/26/19	1,268,584.42	231,908.01	Nov 2019	52.2	51.6	13.9	–	13.56	41.7	51.7	-27.8	-37.8	2	Sonic	–
MW-179	Property, SW quadrant	Yes	Yes	BLZ-346	9/25/19 - 9/26/19	1,268,393.17	231,882.00	Nov 2019	51.4	51.4	13.9	–	13.62	41.1	51.1	-27.2	-37.2	2	Sonic	–
MW-183	Property, SW quadrant	Yes	Yes	BLZ-345	09/26/19	1,268,430.71	231,829.32	Nov 2019	52.4	51.7	13.9	–	13.55	41.3	51.3	-27.4	-37.4	2	Sonic	–
MW-187	Property, SE quadrant	Yes	Yes	BLZ-134	10/1/19 - 10/2/19	1,268,521.74	231,835.57	Nov 2019	52.2	51.3	13.9	–	13.56	40.9	50.9	-27.0	-37.0	2	Sonic	–
Treatment Zone D Monitoring Wells																				
MW-168	Property, NE quadrant	Yes	Yes	BLZ-148	10/21/19	1,268,586.89	231,964.73	Nov 2019	67.2	67.2	13.9	–	13.55	56.9	66.9	-43.0	-53.0	2	Sonic	–
MW-172	Property, SW quadrant	Yes	Yes	BLZ-124	9/25/19 - 9/26/19	1,268,467.31	231,917.87	Nov 2019	66.7	66.7	13.9	–	13.54	56.4	66.4	-42.5	-52.5	2	Sonic	–
MW-176	Property, SE quadrant	Yes	Yes	BLZ-143	10/25/19 - 10/26/19	1,268,583.98	231,902.76	Nov 2019	67.5	67.0	13.9	–	13.55	56.6	66.6	-42.7	-52.7	2	Sonic	–
MW-180	Property, SW quadrant	Yes	Yes	BLZ-344	9/24/19 - 9/25/19	1,268,397.49	231,882.40	Nov 2019	66.9	66.9	13.9	–	13.61	56.6	66.6	-42.7	-52.7	2	Sonic	–
MW-184	Property, SW quadrant	Yes	Yes	BLZ-343	9/26/19 - 9/27/19	1,268,435.35	231,829.39	Nov 2019	67.3	66.7	13.9	–	13.58	56.4	66.4	-42.5	-52.5	2	Sonic	–

Table 3

Monitoring Well and Boring Completion Details
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Log?	Surveyed?	Well Tag	Dates Drilled	Easting	Northing	Last Surveyed	Depth		Elevation			Well Screen				Well Dia (in)	Drill Rig Type	Casing Depth (ft bgs)
									Total (ft bgs)	Well (ft bgs)	Ground (ft)	Monument (ft)	TOC (ft)	Depth		Elevation				
														Top	Bottom	Top	Bottom			
MW-188	Property, SE quadrant	Yes	Yes	BLZ-135	9/30/19 - 10/1/19	1,268,527.24	231,835.51	Nov 2019	66.3	66.4	13.9	–	13.59	56.1	66.1	-42.2	-52.2	2	Sonic	–

Notes:

TOC = Top of PVC casing.

TOCs were surveyed relative to arbitrary benchmarks prior to 2012. TOCs were resurveyed by Bush, Roed & Hitchings, Inc. (BR&H) of Seattle, Washington, in February, October, and December 2012 and March 2013, relative to the North American Vertical Datum of 1988 (NAVD 88). In January 2014, selected wells were surveyed by BR&H to NAD83/91, Washington State Plane Coordinate System, North Zone (horizontal) and NAVD 88 (vertical). After that, new wells were surveyed by BR&H to NAVD 88 and NAD83/91.

ft = feet; in = inches; bgs = below ground surface; NW = northwest; NE = northeast; SW = southwest; SE = southeast.

– = Not available or not applicable.

ROW = right-of-way.

HSA = hollow-stem auger; DP = direct-push probe; Sonic = rotosonic or rotary vibratory drilling; MR = mud rotary drilling.

Casing depth = Depth where casing or auger size was reduced, with the larger casing left in place during drilling.

10-foot-long well screens assumed for MW-210, MW-214, SCL-MW101, SCL-MW105, and SCS-2.

Table 4

Summary of IA and RI Soil and Grab Groundwater Sampling and Analysis
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Monitoring Well or Boring	Area Location	Soil Sample Chemical Analysis			Soil Sample Physical Analysis					Reconnaissance Groundwater Samples		
		Sample Depth (ft bgs)	GRO	VOCs	Sample Depth (ft bgs)	Grain Size	Bulk Density	f_{oc}	Vertical K	Sample Depth (ft bgs)	GRO	VOCs
Shallow Zone Wells												
MW-154	Roy St ROW, near MW106	–	–	–	–	–	–	–	–	–	–	–
MW-155	Roy St ROW, near MW105	–	–	–	–	–	–	–	–	–	–	–
MW-159	8th Ave N ROW, near SV02	20, 30	–	X	25	X	–	–	–	–	–	–
MW-301	Alley Between 8th & 9th Ave	6, 10, 15, 20, 25, 30	–	X	–	–	–	–	–	–	–	–
MW-305	Dexter Ave N ROW	–	–	–	–	–	–	–	–	–	–	–
MW-310	Alley Between 8th & 9th Ave	–	–	–	–	–	–	–	–	–	–	–
MW-312	Alley Between 8th & 9th Ave	6, 10, 15, 20, 25	–	X	–	–	–	–	–	–	–	–
MW-313	Alley Between 8th & 9th Ave	–	–	–	–	–	–	–	–	–	–	–
MW-320	9th Ave N ROW	19, 27	X	X	–	–	–	–	–	–	–	–
MW-332	Roy St ROW	7, 11, 16, 20, 25, 30	–	X	–	–	–	–	–	–	–	–
MW-337	Lake Union Park	–	–	X	15, 15.5	X	X	X	X	–	–	–
MW-339	Lake Union Park	–	–	–	–	–	–	–	–	–	–	–
Intermediate A Zone Wells												
MW-142	8th Ave N ROW, near MW121	5	–	X	–	–	–	–	–	–	–	–
MW-144	8th Ave N ROW, SE of MW107	–	–	–	50	–	X	–	X	–	–	–
MW-144R	8th Ave N ROW, SE of MW107	–	–	–	–	–	–	–	–	–	–	–
MW-146	Roy Street ROW, near MW106	–	–	–	–	–	–	–	–	–	–	–
MW-149	Northeast part of the Property	–	–	–	–	–	–	–	–	–	–	–
MW-151	West part of the Property	–	–	–	–	–	–	–	–	–	–	–
MW-156	8th Ave N, near MW-9	–	–	–	–	–	–	–	–	–	–	–
MW-189	Valley Street ROW	–	–	–	–	–	–	–	–	–	–	–
MW-302	Dexter Ave N ROW	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65	–	X	33, 60	X	–	–	–	–	–	–
MW-306	Dexter Ave N ROW	–	–	–	–	–	–	–	–	–	–	–
MW-308	Alley Between 8th & 9th Ave	–	–	–	33, 40	–	X	X	X	–	–	–
MW-315	Mercer St ROW	–	–	–	–	–	–	–	–	–	–	–
MW-317	9th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–
MW-325	Mercer St ROW	–	–	–	–	–	–	–	–	–	–	–
MW-327	Westlake Ave N ROW	–	–	–	–	–	–	–	–	–	–	–
MW-330	Valley Street N ROW	6, 10, 11.5, 16, 21.5, 27, 32, 38, 42, 47, 52, 58, 62	–	X	–	–	–	–	–	–	–	–
MW-331	Alley Between 8th & 9th Ave	7, 11, 16, 20, 25, 30	–	X	44	X	–	X	–	–	–	–
MW-333	Westlake Ave N and Broad St	–	–	–	–	–	–	–	–	–	–	–
Intermediate B Zone Wells												
MW-132	Center of the Property	–	–	–	–	X	–	–	–	–	–	–
MW-134	Northeast part of the Property	–	–	–	–	–	–	–	–	–	–	–
MW-135	North-central part of the Property	–	–	–	–	X	–	–	–	–	–	–
MW-136	Southwest corner of the Property	–	–	–	–	X	–	–	–	–	–	–
MW-139	South-central part of the Property	–	–	–	–	X	–	–	–	–	–	–
MW-143	8th Ave N ROW, near MW121	10, 20, 30, 40, 50, 60, 70, 80	–	X	45	–	X	–	–	–	–	–
MW-145	8th Ave N ROW, SE of MW107	10, 20, 30, 40, 50, 60, 70, 80	–	X	80	X	–	–	–	–	–	–
MW-145R	8th Ave N ROW, SE of MW107	–	–	–	–	–	–	–	–	–	–	–
MW-147	Roy Street ROW, near MW106	10, 20, 30, 40, 50, 60, 70, 80	–	X	81	X	–	X	–	–	–	–
MW-148	Roy Street ROW, near BB-8	11, 20, 30, 40, 50, 60, 70, 80	–	X	60	X	–	–	–	–	–	–
MW-150	Northeast part of the Property	–	–	–	–	–	–	–	–	–	–	–
MW-152	West part of the Property	5, 15, 25, 35, 45, 55, 60	–	X	–	–	–	–	–	–	–	–

Table 4

Summary of IA and RI Soil and Grab Groundwater Sampling and Analysis
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Monitoring Well or Boring	Area Location	Soil Sample Chemical Analysis			Soil Sample Physical Analysis					Reconnaissance Groundwater Samples		
		Sample Depth (ft bgs)	GRO	VOCs	Sample Depth (ft bgs)	Grain Size	Bulk Density	f_{oc}	Vertical K	Sample Depth (ft bgs)	GRO	VOCs
MW-157	8th Ave N, near MW-9	–	–	–	–	–	–	–	–	–	–	–
MW-190	Valley St ROW	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 87	X	X	48	X	–	–	–	–	–	–
MW-303	Dexter Ave N ROW	–	–	–	65, 80	–	X	X	X	–	–	–
MW-307	Dexter Ave N ROW	6, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85	–	X	44	X	–	–	–	–	–	–
MW-309	Alley Between 8th & 9th Ave	5, 10, 13.5, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75	X	X	59	X	–	–	–	–	–	–
MW-311	Alley Between 8th & 9th Ave	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70	–	X	40, 48	X	–	X	–	–	–	–
MW-314	Alley Between 8th & 9th Ave	6, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80	–	X	43	X	–	–	–	–	–	–
MW-316	Mercer St ROW	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70	–	X	37, 58	X	–	–	–	–	–	–
MW-318	9th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–
MW-322	9th Ave N ROW	–	–	–	32.5	X	–	–	–	–	–	–
MW-334	Broad St and Westlake Ave	6, 10, 13, 17, 23, 28, 35, 40, 45.5, 50, 54.5, 60, 63	X	X	26	X	–	–	–	–	–	–
MW-335	Mercer St ROW	–	–	–	19, 39, 68	X	–	–	–	–	–	–
MW-338	Lake Union Park	10, 15, 20, 23, 28, 34, 39, 41, 45, 51, 55	–	X	47, 54	X	–	X	–	–	–	–
MW-340	Lake Union Park	–	–	–	47	X	–	–	X	–	–	–
W-MW-01	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–
W-MW-02	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–
Deep Zone Wells												
MW-133	West part of the Property	–	–	–	–	X	–	–	–	80 - 82, 90 - 92	X	X
MW-137	South-central part of the Property	–	–	–	–	X	–	–	–	76 - 78, 107 - 109	X	X
MW-138	Dexter Ave N ROW	–	–	–	–	X	–	–	–	115 - 117	–	X
MW-140	Roy Street ROW	–	–	–	–	X	–	–	–	–	–	–
MW-141	Roy Street ROW	–	–	–	–	–	–	–	–	105 - 107	–	X
MW-153	Roy St ROW W of MW106	10, 20, 30, 40, 50, 61, 70, 80, 90, 110, 130	–	X	80, 90-100	X	–	–	–	–	–	–
MW-158	8th Ave N, near MW-9	20, 30	X	X	–	–	–	–	–	–	–	–
MW-158A	8th Ave N, near MW-9	40, 50, 60, 70, 80, 90, 100	X	X	100	X	–	–	–	–	–	–
MW-160	8th Ave N, N of MW104	11, 21, 31, 40, 50, 55, 60, 70, 80, 90, 100, 110, 125, 127.5	–	X	100, 127.5	X	–	–	–	–	–	–
MW-161	8th Ave N, S of MW107	11, 21, 31, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140	–	X	100, 140	X	–	X	–	–	–	–
MW-162	Northeast part of the Property	48, 50, 67, 70, 72, 80, 85, 90, 95, 100, 105, 110	–	X	–	–	–	–	–	–	–	–
MW-163	Center of the Property	47, 50, 55, 60, 80, 85, 90, 95, 100, 105, 110	–	X	–	–	–	–	–	–	–	–
MW-164	Southwest part of the Property	80, 87, 90, 95, 100, 105, 110	–	X	–	–	–	–	–	–	–	–
MW-304	Dexter Ave N ROW	5, 10, 15, 20, 25, 30, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105, 110, 115	–	X	81, 108	X	–	X	–	–	–	–
MW-319	9th Ave N ROW	6, 10, 15, 20, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85	–	X	28	X	–	–	–	–	–	–
MW-323	9th Ave N ROW	10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 91, 95, 99, 105, 110	–	X	32.5, 43.5, 100	–	X	X	X	X	X	X
MW-324	9th Ave N ROW	6, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80	–	X	30, 38	X	–	–	–	–	–	–
MW-326	Mercer St ROW	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105, 110, 115	–	X	39	X	–	–	–	–	–	–
MW-328	East of Westlake Ave N	5, 10, 15, 20, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80	–	X	70	X	–	X	–	–	–	–
MW-329	East of Westlake Ave N	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105, 110	–	X	70, 105	X	–	–	–	–	–	–
MW-336	Mercer St ROW	7, 11.5, 14.5, 20, 25, 30, 35, 40, 45, 51, 55, 60, 65, 69, 74.5, 79, 85, 90, 95	–	X	24, 94	X	–	–	–	–	–	–
MW-341	Lake Union Park	85, 90, 95, 99, 104	–	X	90, 102	X	–	X	–	–	–	–
MW-342	Valley St ROW	–	–	–	–	–	–	–	–	–	–	–
MW-343	Valley St ROW	5, 10, 12.5, 17, 24, 28.5, 35, 38, 44, 47, 51, 55, 62, 68, 73, 79, 82, 86, 93, 99, 102, 106, 108	–	X	77, 103	X	–	X	–	–	–	–
Treatment Zone A Monitoring Wells												
MW-165	Property	–	–	–	–	–	–	–	–	–	–	–
MW-169	Property	–	–	–	–	–	–	–	–	–	–	–
MW-173	Property	–	–	–	–	–	–	–	–	–	–	–

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		Sample Depth (ft bgs)	GRO	VOCs	Sample Depth (ft bgs)	Grain Size	Bulk Density	f_{oc}	Vertical K	Sample Depth (ft bgs)	GRO	VOCs
MW-177	Property	–	–	–	–	–	–	–	–	–	–	–
MW-181	Property	14	–	X	–	–	–	–	–	–	–	–
MW-185	Property	–	–	–	–	–	–	–	–	–	–	–
Treatment Zone A Injection Wells												
IW-4A	Property	–	–	–	–	–	–	–	–	–	–	–
IW-7A	Property	5, 10, 15, 20, 25, 30, 35, 40, 45, 50	X	X	–	–	–	–	–	–	–	–
IW-9A	Property	–	–	–	–	–	–	–	–	–	–	–
IW-18A	Property	–	–	–	–	–	–	–	–	–	–	–
IW-22A	Property	–	–	–	–	–	–	–	–	–	–	–
IW-37A	Property	–	–	–	–	–	–	–	–	–	–	–
IW-41A	Property	–	–	–	–	–	–	–	–	–	–	–
IW-42A	Property	–	–	–	–	–	–	–	–	–	–	–
IW-45A	Property	–	–	–	–	–	–	–	–	–	–	–
IW-46A	Property	–	–	–	–	–	–	–	–	–	–	–
IW-48A	Property	–	–	–	–	–	–	–	–	–	–	–
IW-50A	Property	5, 10, 15, 20, 25, 30, 35, 40, 42, 45, 50, 55, 60	–	X	–	–	–	–	–	–	–	–
IW-51A	Property	5, 10, 15, 20, 25, 30, 35, 40, 42, 45, 50, 55, 62	–	X	–	–	–	–	–	–	–	–
IW-54A	Property	8, 49	–	X	–	–	–	–	–	–	–	–
IW-58A	Property	38	–	X	–	–	–	–	–	–	–	–
Treatment Zone B Monitoring Wells												
MW-166	Property	–	–	–	–	–	–	–	–	–	–	–
MW-170	Property	–	–	–	–	–	–	–	–	–	–	–
MW-174	Property	–	–	–	–	–	–	–	–	–	–	–
MW-178	Property	–	–	–	–	–	–	–	–	–	–	–
MW-182	Property	–	–	–	–	–	–	–	–	–	–	–
MW-186	Property	–	–	–	–	–	–	–	–	–	–	–
Treatment Zone B Injection Wells												
IW-3B	Property	–	–	–	–	–	–	–	–	–	–	–
IW-6B	Property	–	–	–	–	–	–	–	–	–	–	–
IW-8B	Property	5, 10, 15, 20, 25, 30, 40, 45, 50, 55, 60, 64	–	X	–	–	–	–	–	–	–	–
IW-17B	Property	–	–	–	–	–	–	–	–	–	–	–
IW-19B	Property	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 63	–	X	–	–	–	–	–	–	–	–
IW-21B	Property	5, 10, 20, 30, 40, 50, 60, 67	–	X	–	–	–	–	–	–	–	–
IW-22B	Property	–	–	–	–	–	–	–	–	–	–	–
IW-24B	Property	–	–	–	–	–	–	–	–	–	–	–
IW-27B	Property	5, 15, 25, 35	–	X	–	–	–	–	–	–	–	–
IW-28B	Property	–	–	–	–	–	–	–	–	–	–	–
IW-33B	Property	–	–	–	–	–	–	–	–	–	–	–
IW-37B	Property	–	–	–	–	–	–	–	–	–	–	–
IW-39B	Property	5, 15, 25, 35, 45, 55	–	X	–	–	–	–	–	–	–	–
IW-45B	Property	–	–	–	–	–	–	–	–	–	–	–
IW-46B	Property	5, 10, 15, 20, 25, 30, 35, 40, 42, 45, 50, 55, 60, 65, 70	–	X	–	–	–	–	–	–	–	–
IW-47B	Property	5, 10, 15, 20, 25, 30, 35, 40, 42, 45, 50, 55, 60, 65, 70, 75	–	X	–	–	–	–	–	–	–	–
IW-48B	Property	5, 10, 15, 20, 25, 30, 35, 40, 42, 45, 50, 55, 60, 65, 70, 75	–	X	–	–	–	–	–	–	–	–
IW-49B	Property	–	–	–	–	–	–	–	–	–	–	–

Table 4

Summary of IA and RI Soil and Grab Groundwater Sampling and Analysis
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Monitoring Well or Boring	Area Location	Soil Sample Chemical Analysis			Soil Sample Physical Analysis					Reconnaissance Groundwater Samples		
		Sample Depth (ft bgs)	GRO	VOCs	Sample Depth (ft bgs)	Grain Size	Bulk Density	f_{oc}	Vertical K	Sample Depth (ft bgs)	GRO	VOCs
IW-51B	Property	–	–	–	–	–	–	–	–	–	–	–
IW-53B	Property	30	–	X	–	–	–	–	–	–	–	–
IW-54B	Property	8, 13, 21, 33	–	X	–	–	–	–	–	–	–	–
IW-55B	Property	39, 43, 61	–	X	–	–	–	–	–	–	–	–
Treatment Zone C Monitoring Wells												
MW-167	Property	–	–	–	–	–	–	–	–	–	–	–
MW-171	Property	24	–	X	–	–	–	–	–	–	–	–
MW-175	Property	12	–	X	–	–	–	–	–	–	–	–
MW-179	Property	–	–	–	–	–	–	–	–	–	–	–
MW-183	Property	18	–	X	–	–	–	–	–	–	–	–
MW-187	Property	–	–	–	–	–	–	–	–	–	–	–
Treatment Zone C Injection Wells												
IW-1C	Property	5, 15, 25, 35, 45, 55, 65, 75	–	X	–	–	–	–	–	–	–	–
IW-2C	Property	5, 15, 25, 35, 45, 55, 65, 75	–	X	–	–	–	–	–	–	–	–
IW-3C	Property	5, 15, 25, 35, 45, 55, 65, 75	–	X	–	–	–	–	–	–	–	–
IW-4C	Property	–	–	–	–	–	–	–	–	–	–	–
IW-8C	Property	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75	–	X	–	–	–	–	–	–	–	–
IW-9C	Property	–	–	–	–	–	–	–	–	–	–	–
IW-13C	Property	–	–	–	–	–	–	–	–	–	–	–
IW-15C	Property	–	–	–	–	–	–	–	–	–	–	–
IW-19C	Property	–	–	–	–	–	–	–	–	–	–	–
IW-20C	Property	–	–	–	–	–	–	–	–	–	–	–
IW-22C	Property	62, 78	–	X	–	–	–	–	–	–	–	–
IW-23C	Property	42	–	X	–	–	–	–	–	–	–	–
IW-24C	Property	48, 55, 66, 75, 80	–	X	–	–	–	–	–	–	–	–
IW-27C	Property	45	–	X	–	–	–	–	–	–	–	–
IW-28C	Property	92	–	X	–	–	–	–	–	–	–	–
Treatment Zone D Monitoring Wells												
MW-168	Property	15	–	X	–	–	–	–	–	–	–	–
MW-172	Property	7	–	X	–	–	–	–	–	–	–	–
MW-176	Property	–	–	–	–	–	–	–	–	–	–	–
MW-180	Property	24, 27, 40	–	X	–	–	–	–	–	–	–	–
MW-184	Property	20	–	X	–	–	–	–	–	–	–	–
MW-188	Property	64	–	X	–	–	–	–	–	–	–	–
Treatment Zone D Injection Wells												
IW-1D	Property	–	–	–	–	–	–	–	–	–	–	–
IW-3D	Property	–	–	–	–	–	–	–	–	–	–	–
IW-4D	Property	–	–	–	–	–	–	–	–	–	–	–
IW-6D	Property	–	–	–	–	–	–	–	–	–	–	–
IW-8D	Property	–	–	–	–	–	–	–	–	–	–	–
IW-9D	Property	–	–	–	–	–	–	–	–	–	–	–
IW-11D	Property	10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95	–	X	–	–	–	–	–	–	–	–
IW-12D	Property	42, 50, 60, 85, 95	–	X	–	–	–	–	–	–	–	–
IW-13D	Property	80, 85, 95	–	X	–	–	–	–	–	–	–	–
IW-14D	Property	45, 55, 65, 75, 86, 95	–	X	–	–	–	–	–	–	–	–

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Monitoring Well or Boring	Area Location	Soil Sample Chemical Analysis			Soil Sample Physical Analysis					Reconnaissance Groundwater Samples		
		Sample Depth (ft bgs)	GRO	VOCs	Sample Depth (ft bgs)	Grain Size	Bulk Density	f_{oc}	Vertical K	Sample Depth (ft bgs)	GRO	VOCs
IW-15D	Property	54	–	X	–	–	–	–	–	–	–	–
IW-16D	Property	85, 90, 95	–	X	–	–	–	–	–	–	–	–
Treatment Zone A Perimeter Wells												
PRB-A1	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–
PRB-A3	8th Ave N ROW	3, 6, 8, 10, 15, 20, 25, 32, 35, 40, 45, 50	X	X	–	–	–	–	–	–	–	–
PRB-A5	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–
PRB-A9	8th Ave N ROW	3, 6, 10, 15, 20, 25, 32, 35, 40, 45, 50,	–	X	–	–	–	–	–	–	–	–
PRB-A11	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–
PRB-A14	Roy St ROW	–	–	–	–	–	–	–	–	–	–	–
PRB-A17	Roy St ROW	–	–	–	–	–	–	–	–	–	–	–
PRB-A19	Roy St ROW	–	–	–	–	–	–	–	–	–	–	–
PRB-A23	Roy St ROW	–	–	–	–	–	–	–	–	–	–	–
Treatment Zone B Perimeter Wells												
PRB-B1	8th Ave N ROW	11, 15, 20, 25, 31, 35, 40, 45, 50	X	X	–	–	–	–	–	–	–	–
PRB-B2	8th Ave N ROW	3, 6, 10	X	X	–	–	–	–	–	–	–	–
PRB-B4	8th Ave N ROW	3, 6, 10	–	X	–	–	–	–	–	–	–	–
PRB-B5	8th Ave N ROW	10, 15, 20, 25, 32, 35, 40, 45, 50	–	X	–	–	–	–	–	–	–	–
PRB-B6	8th Ave N ROW	17, 20, 25, 32, 35, 40, 45, 50	–	X	–	–	–	–	–	–	–	–
PRB-B10	8th Ave N ROW	15, 20, 25, 30, 35, 40, 45, 50	–	X	–	–	–	–	–	–	–	–
PRB-B11	8th Ave N ROW	10, 15, 20, 27, 30, 35, 40, 46, 50	–	X	–	–	–	–	–	–	–	–
PRB-B13	8th Ave N ROW	10, 20, 30, 40, 50	–	X	–	–	–	–	–	–	–	–
PRB-B14	Roy St ROW	–	–	–	–	–	–	–	–	–	–	–
PRB-B16	8th Ave N ROW	15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70	–	X	–	–	–	–	–	–	–	–
PRB-B17	Roy St ROW	–	–	–	–	–	–	–	–	–	–	–
PRB-B18	8th Ave N ROW	10, 20, 30, 40, 50	–	X	–	–	–	–	–	–	–	–
PRB-B19	Roy St ROW	10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75	–	–	–	–	–	–	–	–	–	–
PRB-B21	8th Ave N ROW	10, 20, 30, 40, 50, 60	–	X	–	–	–	–	–	–	–	–
PRB-B23	Roy St ROW	–	–	–	–	–	–	–	–	–	–	–
Treatment Zone C Perimeter Wells												
PRB-C1	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–
PRB-C5	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–
PRB-C11	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–
PRB-C14	Roy St ROW	–	–	–	–	–	–	–	–	–	–	–
PRB-C17	Roy St ROW	–	–	–	–	–	–	–	–	–	–	–
PRB-C19	Roy St ROW	–	–	–	–	–	–	–	–	–	–	–
PRB-C23	Roy St ROW	–	–	–	–	–	–	–	–	–	–	–
Treatment Zone D Perimeter Wells												
PRB-D1	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–
PRB-D4	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–
PRB-D11	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–
PRB-D13	Roy St ROW	–	–	–	–	–	–	–	–	–	–	–
PRB-D16	8th Ave N ROW	75, 80, 85, 90, 95, 100, 105	–	X	–	–	–	–	–	–	–	–
PRB-D17	Roy St ROW	–	–	–	–	–	–	–	–	–	–	–
PRB-D19	8th Ave N ROW	80, 85, 90, 95, 100, 105, 110	–	X	–	–	–	–	–	–	–	–
PRB-D20	Roy St ROW	–	–	–	–	–	–	–	–	–	–	–

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		Sample Depth (ft bgs)	GRO	VOCs	Sample Depth (ft bgs)	Grain Size	Bulk Density	f_{oc}	Vertical K	Sample Depth (ft bgs)	GRO	VOCs
PRB-D23	Roy St ROW	–	–	–	–	–	–	–	–	–	–	–
Contingent Action Addendum Wells												
CA-A10	8th Ave N ROW	21	–	X	–	–	–	–	–	–	–	–
CA-A12-20	8th Ave N ROW	24	–	X	–	–	–	–	–	–	–	–
CAA-C1	8th Ave N ROW	43	–	X	–	–	–	–	–	–	–	–
CAA-C2	Roy St ROW	10	–	X	–	–	–	–	–	–	–	–
CA-B8	Roy St ROW	3	–	X	–	–	–	–	–	–	–	–
CA-B10	Roy St ROW	17, 20, 21, 25	–	X	–	–	–	–	–	–	–	–
CA-B11	Roy St ROW	27	–	X	–	–	–	–	–	–	–	–
CA-B18	8th Ave N ROW	20	–	X	–	–	–	–	–	–	–	–
CA-B19	Roy St ROW	30	–	X	–	–	–	–	–	–	–	–
CA-B20	Roy St ROW	31	–	X	–	–	–	–	–	–	–	–
CA-C7	Roy St ROW	25	–	X	–	–	–	–	–	–	–	–
CA-C8	Roy St ROW	35	–	X	–	–	–	–	–	–	–	–
CA-C9	Roy St ROW	9	–	X	–	–	–	–	–	–	–	–
CA-C10	Roy St ROW	17, 26	–	X	–	–	–	–	–	–	–	–
CA-C13	Roy St ROW	Comp	–	X	–	–	–	–	–	–	–	–
CA-D1	Roy St ROW	Comp	–	X	–	–	–	–	–	–	–	–
CA-D2	Roy St ROW	31, 52	–	X	–	–	–	–	–	–	–	–
CA-D3	Roy St ROW	40	–	X	–	–	–	–	–	–	–	–
CA-D4	Roy St ROW	51, 54	–	X	–	–	–	–	–	–	–	–
CA-D5	Roy St ROW	14, 22, 26	–	X	–	–	–	–	–	–	–	–
CA-D6	Roy St ROW	56, 65	–	X	–	–	–	–	–	–	–	–
CA-D7	Roy St ROW	15	–	X	–	–	–	–	–	–	–	–
Soil Vapor Probes												
SV01	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–
SV02	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–
SV03	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–
SV-04	Roy St ROW	6	–	X	–	–	–	–	–	–	–	–
SV-05	Roy St ROW	10	–	X	–	–	–	–	–	–	–	–
SV-06	Roy St ROW	6	–	X	–	–	–	–	–	–	–	–
SV-07	Roy St ROW	15	–	X	–	–	–	–	–	–	–	–
SV-08	8th Ave N ROW	6, 7.5	–	X	–	–	–	–	–	–	–	–
SV-09	8th Ave N ROW	5.5	–	X	–	–	–	–	–	–	–	–
SV-10	Valley Street ROW	5.5	–	X	–	–	–	–	–	–	–	–
SV-11	Valley Street ROW	10	–	X	–	–	–	–	–	–	–	–
SV-12	Valley Street ROW	5.5	–	X	–	–	–	–	–	–	–	–
SV-13	Valley Street ROW	10.5	–	X	–	–	–	–	–	–	–	–
SV-14	Roy St ROW	5.5	–	X	–	–	–	–	–	–	–	–
SV-15	Roy St ROW	13	–	X	–	–	–	–	–	–	–	–
SV-16	8th Ave N ROW	5	–	X	–	–	–	–	–	–	–	–
SV-17	8th Ave N ROW	4.5	–	X	–	–	–	–	–	–	–	–
SV-18	8th Ave N ROW	5.5	–	X	–	–	–	–	–	–	–	–
SV-19	9th Ave N ROW	5	–	X	–	–	–	–	–	–	–	–
SV-20	9th Ave N ROW	9	–	X	–	–	–	–	–	–	–	–

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		Sample Depth (ft bgs)	GRO	VOCs	Sample Depth (ft bgs)	Grain Size	Bulk Density	f_{oc}	Vertical K	Sample Depth (ft bgs)	GRO	VOCs
SV-21	Alley Between 8th & 9th Ave	6	–	X	–	–	–	–	–	–	–	–
SV-22	Alley Between 8th & 9th Ave	8.5	–	X	–	–	–	–	–	–	–	–
SV-23	Alley Between 8th & 9th Ave	4.5	–	X	–	–	–	–	–	–	–	–
SV-24	Alley Between 8th & 9th Ave	8	–	X	–	–	–	–	–	–	–	–
SV-25	Dexter Ave N ROW	4	–	X	–	–	–	–	–	–	–	–
SV-26	Dexter Ave N ROW	12	–	X	–	–	–	–	–	–	–	–
SV-27	Dexter Ave N ROW	5.5, 13.5	–	X	–	–	–	–	–	–	–	–
SV-28	Dexter Ave N ROW	–	–	X	–	–	–	–	–	–	–	–
Temporary Borings												
B-201	Property	10, 30, 35	–	X	30	X	–	–	–	–	–	–
B-202	Property	5, 20, 50	X	X	10, 45	X	–	–	–	–	–	–
B-203	Property	5, 25, 40, 50, 80	X	X	30, 75	X	–	–	–	–	–	–
B-204	Property	20, 40, 45	–	X	40	X	–	–	–	–	–	–
B-205	Property	10, 55, 65, 75	X	X	63, 79	X	–	X	–	40 - 42	X	X
B-206	Property	15, 30, 40, 49, 52, 56, 59, 70, 80	X	X	47, 50	X	X	–	X	–	–	–
B-207	Property	30, 41, 49, 55, 60, 70, 80, 90	X	X	50, 52	X	–	X	–	–	–	–
B-208	Property	20, 35, 50, 60, 70, 80	–	X	56	X	–	–	–	–	–	–
B-209	Property	20, 35, 50, 60, 70, 75, 80	–	X	57, 73	X	–	X	–	–	–	–
B-210	Property	6, 15, 20, 35, 46, 60, 70, 80	X	X	60	X	–	–	–	–	–	–
B-211	Property	20, 35, 50, 57, 60, 65, 70, 80, 90, 100, 110, 120	–	X	83	X	–	–	–	120 - 122	X	X
B-212	Dexter Ave N ROW	15, 21, 35, 45, 55, 65, 75, 85, 95, 100	X	X	54	X	–	–	–	–	–	–
B-213	Dexter Ave N ROW	15, 22, 35, 45, 55, 65, 75, 85, 95, 105, 115, 125	–	X	99, 125	X	–	X	–	90 - 92	X	X
B-214	Dexter Ave N ROW	15, 25, 35, 45, 55, 65, 75, 85, 95, 105, 115, 120	–	X	–	–	–	–	–	–	–	–
B-215	Roy Street ROW	15, 25, 35, 45, 55, 65, 75, 85, 95	–	X	–	–	–	–	–	–	–	–
B-216	Property	20, 40, 55, 65, 85, 95	–	X	76	X	–	–	–	–	–	–
B-217	Property	15, 25, 35, 42, 55, 65, 75, 85, 95, 106, 115	–	X	97	X	–	–	–	–	–	–
B-218	Property	12.5, 19, 25, 40, 50	–	X	–	–	–	–	–	–	–	–
B-219	Property	42, 50, 60, 70, 80	–	X	73	X	–	–	–	–	–	–
B-220	Property	15, 29, 32, 40, 50	–	X	–	–	–	–	–	–	–	–
B-221	Property	16, 22, 33, 37, 45, 50, 60, 70	–	X	–	–	–	–	–	–	–	–
B-222	Property	17, 25, 34, 42, 50	–	X	–	–	–	–	–	–	–	–
B-223	Property	16, 22, 30, 39, 47	–	X	–	–	–	–	–	–	–	–
B-224	Property	6, 11, 16, 21.5, 26, 31, 36, 60.5	–	X	–	–	–	–	–	–	–	–
B-225	Property	5, 11, 16, 21, 26, 31, 36	–	X	–	–	–	–	–	–	–	–
B-226	Property	6, 11, 16, 21, 31.5, 40	–	X	–	–	–	–	–	–	–	–
B-227	Property	6, 11, 16, 21, 26, 31, 36	–	X	–	–	–	–	–	–	–	–
B-228	Property	6, 11, 16, 21, 26, 31, 36	–	X	–	–	–	–	–	–	–	–
B-229	Property	6, 11, 16, 25, 31, 36, 41, 45	–	X	–	–	–	–	–	–	–	–
B-230	Property	6, 11, 16, 21, 26, 31, 35, 55	–	X	–	–	–	–	–	–	–	–
B-231	Property	6, 11, 16, 21, 26, 30, 36	–	X	–	–	–	–	–	–	–	–
B-232	Property	6, 11, 16, 21, 26, 31, 36	–	X	–	–	–	–	–	–	–	–
B-233	Property	6, 11, 16, 21, 26, 31, 36	–	X	–	–	–	–	–	–	–	–
B-234	Property	11, 30	–	X	–	–	–	–	–	–	–	–
B-234A	Property	35, 40, 42, 45	–	X	–	–	–	–	–	–	–	–
B-235	Property	15, 35, 40, 42.5, 45	–	X	–	–	–	–	–	–	–	–

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B-236	Property	20, 35, 40, 42.5, 45	–	X	–	–	–	–	–	–	–	–
B-237	Property	5, 35, 40, 42, 45	–	X	–	–	–	–	–	–	–	–
B-238	Property	6, 11, 16, 21, 26, 31, 36	–	X	–	–	–	–	–	–	–	–
B-239	Property	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80	–	X	–	–	–	–	–	–	–	–
B-240	Property	5, 10, 15, 20, 25, 30, 35, 42, 45, 50, 55, 60, 65, 70, 75, 80	X	X	–	–	–	–	–	–	–	–
B-241	Property	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80	–	X	–	–	–	–	–	–	–	–
B-242	Property	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80	–	X	–	–	–	–	–	–	–	–
B-243	Property	5, 10, 15, 20, 25, 30, 35, 42, 45, 50, 55, 60, 65, 70, 75, 80	X	X	–	–	–	–	–	–	–	–
B-244	Property	5, 10, 15, 20, 25, 30, 35, 42, 45, 50, 55, 60, 65, 70, 75, 80	–	X	–	–	–	–	–	–	–	–
B-245	Property	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80	–	X	–	–	–	–	–	–	–	–
B-246	Property	6, 11, 15, 25, 30, 35, 40, 43, 45, 50, 55, 60, 65, 70, 75, 80	–	X	–	–	–	–	–	–	–	–
B-247	Property	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80	–	X	–	–	–	–	–	–	–	–
B-248	Property	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80. 85, 90, 95, 100, 105, 110, 115	–	X	–	–	–	–	–	–	–	–
B-249	Property	5, 8, 15, 17, 20	–	X	–	–	–	–	–	–	–	–
B-250	Property	2.5, 8, 10, 13, 20, 24, 30	–	X	–	–	–	–	–	–	–	–
B-251	Property	5, 8, 10, 15, 20, 25	–	X	–	–	–	–	–	–	–	–
B-252	Property	2.5, 8, 10, 15, 19, 25, 29	–	X	–	–	–	–	–	–	–	–
B-253A	Property	5, 8, 10, 15, 20	–	X	–	–	–	–	–	–	–	–
B-254	Property	5, 10, 13.5, 20, 25	–	X	–	–	–	–	–	–	–	–
B-254A	Property	27, 30, 35	–	X	–	–	–	–	–	–	–	–
B-255	Property	3.5, 8, 15	–	X	–	–	–	–	–	–	–	–
B-255A	Property	21	–	X	–	–	–	–	–	–	–	–
B-256	Property	2.5, 5, 10, 15, 18	–	X	–	–	–	–	–	–	–	–
B-257	Property	5, 10, 15, 20	–	X	–	–	–	–	–	–	–	–
B-258	Property	3, 8, 10, 15, 20	–	X	–	–	–	–	–	–	–	–
B-259	Property	2.5, 5, 10, 15, 20	–	X	–	–	–	–	–	–	–	–
B-260	Property	5, 8, 10, 15, 20	–	X	–	–	–	–	–	–	–	–
B-261	Property	3, 5, 8, 10, 15, 20	–	X	–	–	–	–	–	–	–	–
B-262	Property	5, 8, 10, 15, 20	–	X	–	–	–	–	–	–	–	–
B-263	Property	3, 5, 8, 10, 15, 18	–	X	–	–	–	–	–	–	–	–
B-264	Property	3, 5, 8, 10, 15, 16	–	X	–	–	–	–	–	–	–	–
B-265	Property	3, 5, 8, 10, 18	–	X	–	–	–	–	–	–	–	–
B-266	Property	5, 8, 10, 15, 20	–	X	–	–	–	–	–	–	–	–
B-267	Property	2.5, 5, 8, 10, 15, 20	–	X	–	–	–	–	–	–	–	–
B-283	Off Property	0.5	–	X	–	–	–	–	–	–	–	–
B-284	Off Property	1	–	X	–	–	–	–	–	–	–	–
B-285	Off Property	1	–	X	–	–	–	–	–	–	–	–
B-286	Off Property	0.5	–	X	–	–	–	–	–	–	–	–
B-287	Off Property	1	–	X	–	–	–	–	–	–	–	–
B-288	Off Property	1	–	X	–	–	–	–	–	–	–	–
B-289	Off Property	0.5	–	X	–	–	–	–	–	–	–	–
B-290	Off Property	1	–	X	–	–	–	–	–	–	–	–
B-291	Off Property	1	–	X	–	–	–	–	–	–	–	–
B-292	Off Property	3, 6, 9, 12	–	X	–	–	–	–	–	–	–	–
B-293	Off Property	1	–	X	–	–	–	–	–	–	–	–

Table 4

Summary of IA and RI Soil and Grab Groundwater Sampling and Analysis
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Monitoring Well or Boring	Area Location	Soil Sample Chemical Analysis			Soil Sample Physical Analysis					Reconnaissance Groundwater Samples		
		Sample Depth (ft bgs)	GRO	VOCs	Sample Depth (ft bgs)	Grain Size	Bulk Density	f_{oc}	Vertical K	Sample Depth (ft bgs)	GRO	VOCs
B-294	Off Property	1, 2, 6, 10	–	X	–	–	–	–	–	–	–	–
B-295	Off Property	1, 2, 3, 7, 10	–	X	–	–	–	–	–	–	–	–
B-296	Off Property	1	–	X	–	–	–	–	–	–	–	–
B-297	Off Property	1, 3, 5	–	X	–	–	–	–	–	–	–	–
B-298	Off Property	5, 6	–	X	–	–	–	–	–	–	–	–

Notes:

1. Property = 700 Dexter Avenue North.
2. GRO = Gasoline-range organics using NWTPH-Gx.
3. VOCs = Volatile organic compounds using EPA Method 8260C.
4. ft bgs = Feet below ground surface.
5. Grain size = Full grain size distribution using ASTM D422/D4464.
6. Bulk density = Dry bulk density using ASTM D2937.
7. f_{oc} = Fraction organic carbon using the Walkley-Black method.
9. Vertical K = Vertical hydraulic conductivity using ASTM Method D5084.
10. Q = Quarter of the year.
11. X = Sampled or analyzed.
12. – = Not sampled or analyzed.

Table 5

Summary of IA and RI Groundwater Investigations
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Monitoring Well or Boring	Area Location	Groundwater Level Monitoring		Groundwater Sampling																			
		Periodic Events	Continuous Monitoring	2017			2018			2019				2020				2021		Laboratory Analyses			
				Q1	Q2	Q3	Mar-June	Oct	Dec	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	GRO	VOCs	MNA	Field
Shallow Zone Wells																							
F9	Property	X	–	X	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	X	–	X
F9	Property	X	–	X	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	X	–	X
F13	Property	X	–	X	X	–	X	–	–	–	–	–	–	–	–	–	–	–	–	X	X	X	X
G12	Property	X	–	X	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
J5	Property	X	–	X	X	–	X	–	–	–	–	–	–	–	–	–	–	–	–	X	X	X	X
J15	Property	X	–	X	X	–	X	–	–	–	–	–	–	–	–	–	–	–	–	X	X	X	X
K8	Property	X	–	X	X	–	X	–	–	–	–	–	–	–	–	–	–	–	–	X	X	X	X
M15	Property	X	–	X	X	–	X	–	–	–	–	–	–	–	–	–	–	–	–	X	X	X	X
MW121	8th Ave N ROW	X	X	X	X	–	X	–	–	X	X	X	–	–	–	–	X	X	X	X	X	X	X
MW125	Valley Street ROW	X	–	X	X	–	X	–	–	X	X	X	X	X	–	–	X	X	X	X	X	X	X
MW-8	800 Roy St Parcel	X	–	X	X	–	X	–	–	–	–	X	X	X	X	X	–	–	–	X	X	–	X
MW-9	8th Ave N ROW	X	–	X	X	–	X	–	–	X	X	X	X	–	–	–	X	X	X	X	X	X	X
MW-154	Roy St ROW, near MW106	X	X	–	–	–	X	–	–	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW-155	Roy St ROW, near MW105	X	X	–	–	–	X	–	–	X	X	X	X	X	X	X	X	–	–	X	X	X	X
MW-159	8th Ave N ROW, near SV02	X	–	–	–	–	X	–	–	X	X	X	–	X	–	–	X	X	X	X	X	X	X
MW-210	Valley Street ROW	X	–	X	X	–	X	–	–	–	–	–	X	X	X	X	–	–	–	–	X	–	X
MW-214	Valley Street ROW	X	–	X	X	–	X	–	–	–	–	–	X	X	X	X	–	–	–	–	X	–	X
MW-301	Alley Between 8th & 9th Ave	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	X	X
MW-305	Dexter Ave N ROW	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	–	X	X	X	X	X
MW-310	Alley Between 8th & 9th Ave	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	–	X	–	X	X	X
MW-312	Alley Between 8th & 9th Ave	X	X	–	–	–	–	–	–	–	–	–	X	X	X	X	X	–	X	–	X	X	X
MW-313	Alley Between 8th & 9th Ave	X	–	–	–	–	–	–	–	–	–	–	X	X	–	–	–	–	X	–	X	X	X
MW-320	9th Ave N ROW	X	X	–	–	–	–	–	–	–	–	–	X	X	X	X	X	–	X	–	X	X	X
MW-332	Roy St ROW	X	–	–	–	–	–	–	–	–	–	–	–	–	X	X	X	–	X	–	X	X	X
MW-337	Lake Union Park	X	–	–	–	–	–	–	–	–	–	–	–	–	X	X	X	–	X	–	X	X	X
MW-339	Lake Union Park	X	–	–	–	–	–	–	–	–	–	–	–	–	X	X	X	–	X	–	X	X	X
N7	Property	X	–	X	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	X	X
R-MW2	Property	X	–	X	X	–	X	–	–	–	–	–	–	–	–	–	–	–	–	X	X	–	X
R-MW3	Property	X	X	X	X	–	X	–	–	–	–	–	–	–	–	–	–	–	–	X	X	–	X
R-MW5	Dexter Ave N ROW	X	–	X	X	–	X	–	–	X	X	X	X	X	–	–	X	X	X	X	X	X	X
R-MW6	Property	X	–	X	X	–	X	–	–	X	X	–	–	–	–	–	X	X	X	X	X	X	X
SCL-MW101	Alley Between 8th & 9th Ave	X	–	X	X	–	X	–	–	–	–	–	X	X	X	–	X	–	X	–	X	–	X
SCL-MW105	Alley Between 8th & 9th Ave	X	–	X	X	–	X	–	–	–	–	–	X	X	X	X	–	–	–	–	X	–	X
SCS-2	Seattle City Light Parking Lot	X	–	X	X	–	X	–	–	–	–	X	X	X	–	–	–	–	–	X	X	–	X
Intermediate A Zone Wells																							
BB-8	Roy Street ROW	X	–	X	X	–	X	–	–	X	X	X	X	X	X	X	X	X	X	X	X	X	X
FMW-142	9th Ave N ROW	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	–	X	–	X	X	X
GEI-1	Block 37, SW quadrant	X	–	X	X	–	–	–	–	–	X	X	X	X	X	–	–	–	–	–	X	X	X
GEI-MW-1	Block 79 East, N end	X	–	–	–	–	–	–	–	–	–	–	–	X	X	X	X	–	X	–	X	X	X
MW107	8th Ave N ROW	X	X	X	X	–	X	–	–	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW108	Alley Between 8th & 9th Ave	X	X	X	X	–	X	–	–	X	X	X	X	X	X	X	X	X	X	–	X	X	X
MW109	Alley Between 8th & 9th Ave	X	X	X	X	–	X	–	–	X	X	X	X	X	X	X	X	X	X	–	X	X	X
MW110	Alley Between 8th & 9th Ave	X	X	X	X	–	X	–	–	X	X	X	X	X	X	X	X	X	X	–	X	X	X
MW115	9th Ave N ROW	X	–	X	X	–	X	–	–	X	–	X	X	X	X	X	X	X	X	–	X	X	X

Table 5

Summary of IA and RI Groundwater Investigations
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Monitoring Well or Boring	Area Location	Groundwater Level Monitoring		Groundwater Sampling																			
		Periodic Events	Continuous Monitoring	2017			2018			2019				2020				2021		Laboratory Analyses			
				Q1	Q2	Q3	Mar-June	Oct	Dec	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	GRO	VOCs	MNA	Field
MW116	9th Ave N ROW	X	X	X	X	–	X	–	–	X	–	X	X	X	X	X	X	X	X	–	X	X	X
MW119	South Adjoining Property	X	X	X	X	–	X	–	–	X	X	X	X	X	X	X	X	X	X	–	X	X	X
MW120	8th Ave N ROW	X	–	X	X	–	X	–	–	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW127	8th Ave N ROW	X	–	–	–	–	–	–	–	–	–	X	X	X	X	X	X	–	X	X	X	X	X
MW131	South part of the Property	X	–	–	–	–	X	X	X	X	–	–	–	–	–	–	–	–	–	X	X	X	X
MW-142	8th Ave N ROW, near MW121	X	X	–	–	–	X	–	–	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW-144	8th Ave N ROW, SE of MW107	X	–	–	–	–	X	–	–	X	X	–	–	–	–	–	–	–	–	X	X	X	X
MW-144R	8th Ave N ROW, SE of MW107	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	X	X	X	X	X	X
MW-146	Roy Street ROW, near MW106	X	X	–	–	–	X	–	–	X	X	X	X	X	X	X	X	X	–	X	X	X	X
MW-149	Northeast part of the Property	X	–	–	–	–	X	X	X	X	–	–	–	–	–	–	–	–	–	X	X	X	X
MW-151	West part of the Property	X	–	–	–	–	X	X	X	X	–	–	–	–	–	–	–	–		X	X	X	X
MW-156	8th Ave N, near MW-9	X	X	–	–	–	X	–	–	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW-189	Valley Street ROW	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	X	X	X	X	X	X
MW-302	Dexter Ave N ROW	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	–	X	X	X	X	X
MW-306	Dexter Ave N ROW	X	X	–	–	–	–	–	–	–	–	–	X	X	X	X	X	–	X	X	X	X	X
MW-308	Alley Between 8th & 9th Ave	X	X	–	–	–	–	–	–	–	–	–	X	X	X	X	X	–	X	–	X	X	X
MW-315	Mercer St ROW	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	–	X	–	X	X	X
MW-317	9th Ave N ROW	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	–	X	–	X	X	X
MW-325	Mercer St ROW	X	X	–	–	–	–	–	–	–	–	–	X	X	X	X	X	X	X	–	X	X	X
MW-327	Westlake Ave N ROW	X	X	–	–	–	–	–	–	–	–	–	X	X	X	X	X	–	X	–	X	X	X
MW-330	Valley Street N ROW	X	–	–	–	–	–	–	–	–	–	–	–	–	X	X	X	–	X	X	X	X	X
MW-331	Alley Between 8th & 9th Ave	X	–	–	–	–	–	–	–	–	–	–	–	–	X	X	X	–	X	–	X	X	X
MW-333	Westlake Ave N and Broad St	X	–	–	–	–	–	–	–	–	–	–	–	–	X	X	X	–	X	–	X	X	X
Intermediate B Zone Wells																							
FMW-141	Alley Between 8th & 9th Ave	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	–	–	–	–	X	X	X
MW111	Alley Between 8th & 9th Ave	X	X	X	X	–	X	–	–	X	X	X	X	X	X	X	X	X	X	–	X	X	X
MW112	Dexter Ave N ROW	X	–	X	X	–	X	–	X	–	X	X	X	X	X	X	X	X	X	X	X	X	X
MW126	Alley Between 8th & 9th Ave	X	X	X	X	–	X	–	–	X	X	X	X	X	X	X	X	X	X	–	X	X	X
MW130	West part of the Property	X	X	X	X	–	X	–	X	X	–	–	–	–	–	–	–	–	–	X	X	X	X
MW-132	Center of the Property	X	–	–	–	X	X	X	X	X	–	–	–	–	–	–	–	–	–	X	X	X	X
MW-134	Northeast part of the Property	X	–	–	–	X	X	X	X	X	–	–	–	–	–	–	–	–	–	X	X	X	X
MW-135	North-central part of the Property	X	–	–	–	X	X	X	X	X	–	–	–	–	–	–	–	–	–	X	X	X	X
MW-136	Southwest corner of the Property	X	–	–	–	X	X	X	X	X	–	–	–	–	–	–	–	–	–	X	X	X	X
MW-139	South-central part of the Property	X	–	–	–	X	X	X	X	X	–	–	–	–	–	–	–	–	–	X	X	X	X
MW-143	8th Ave N ROW, near MW121	X	X	–	–	–	X	–	–	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW-145	8th Ave N ROW, SE of MW107	X	–	–	–	–	X	–	–	X	X	–	–	–	–	–	–	–	–	X	X	X	X
MW-145R	8th Ave N ROW, SE of MW107	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	X	X	X	X	X	X
MW-147	Roy Street ROW, near MW106	X	X	–	–	–	X	–	–	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW-148	Roy Street ROW, near BB-8	X	–	–	–	–	X	–	–	X	X	X	X	X	X	X	X	–	–	X	X	X	X
MW-150	Northeast part of the Property	X	–	–	–	–	X	X	X	X	–	–	–	–	–	–	–	–	–	X	X	–	X
MW-152	West part of the Property	X	–	–	–	–	X	X	X	X	–	–	–	–	–	–	–	–	–	X	X	X	X
MW-157	8th Ave N, near MW-9	X	–	–	–	–	X	–	–	X	X	X	X	X	X	X	X	–	–	X	X	X	X
MW-190	Valley St ROW	X	X	–	–	–	X	–	–	–	–	–	X	X	X	X	X	X	X	X	X	X	X
MW-303	Dexter Ave N ROW	X	–	–	–	–	X	–	–	–	–	–	X	X	X	X	X	–	X	X	X	X	X
MW-307	Dexter Ave N ROW	X	X	–	–	–	X	–	–	–	–	–	X	X	X	X	X	–	X	X	X	X	X

Table 5

Summary of IA and RI Groundwater Investigations
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Monitoring Well or Boring	Area Location	Groundwater Level Monitoring		Groundwater Sampling																			
		Periodic Events	Continuous Monitoring	2017			2018			2019				2020				2021		Laboratory Analyses			
				Q1	Q2	Q3	Mar-June	Oct	Dec	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	GRO	VOCs	MNA	Field
MW-309	Alley Between 8th & 9th Ave	X	X	–	–	–	X	–	–	–	–	–	X	X	X	X	X	–	X	–	X	X	X
MW-311	Alley Between 8th & 9th Ave	X	–	–	–	–	X	–	–	–	–	–	X	X	X	X	X	–	X	–	X	X	X
MW-314	Alley Between 8th & 9th Ave	X	–	–	–	–	X	–	–	–	–	–	X	X	X	X	X	–	X	–	X	X	X
MW-316	Mercer St ROW	X	X	–	–	–	X	–	–	–	–	–	X	X	X	X	X	–	X	–	X	X	X
MW-318	9th Ave N ROW	X	–	–	–	–	X	–	–	–	–	–	X	X	X	X	X	–	X	–	X	X	X
MW-322	9th Ave N ROW	X	X	–	–	–	X	–	–	–	–	–	X	X	X	X	X	–	X	–	X	X	X
MW-334	Broad St and Westlake Ave	X	–	–	–	–	X	–	–	–	–	–	–	–	X	X	X	–	X	–	X	X	X
MW-335	Mercer St ROW	X	–	–	–	–	X	–	–	–	–	–	–	–	X	X	X	X	X	–	X	X	X
MW-338	Lake Union Park	X	–	–	–	–	X	–	–	–	–	–	–	–	X	X	X	–	X	–	X	X	X
MW-340	Lake Union Park	X	–	–	–	–	X	–	–	–	–	–	–	–	X	X	X	–	X	–	X	X	X
W-MW-01	8th Ave N ROW	X	–	X	X	–	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
W-MW-02	8th Ave N ROW	X	X	X	X	–	X	X	X	X	X	X	X	X	X	X	–	–	–	X	X	X	X
Deep Zone Wells																							
FMW-129	SDOT Property S of Roy St	X	–	X	X	–	–	–	–	–	X	–	X	X	X	X	X	X	X	–	X	X	X
FMW-131	Block 37, SE quadrant	X	–	X	X	–	–	–	–	–	X	–	X	X	X	X	X	X	X	–	X	X	X
FMW-137	Alley E of Block 38W	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	X	X	–	X	X	X
FMW-140	900 Roy St, S end	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	–	X	–	X	X	X
FMW-3D	Terry Ave N ROW, east side	X	–	X	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
GEI-2	Block 37, NW quadrant	X	–	X	X	–	X	X	X	X	X	X	X	X	X	X	X	X	X	–	X	X	X
MW102	Valley Street ROW	X	X	X	X	–	X	–	–	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW103	Alley Between 8th & 9th Ave	X	–	X	X	–	X	–	–	X	X	X	X	X	X	X	X	X	X	–	X	X	X
MW104	8th Ave N ROW	X	–	X	X	–	X	X	X	X	X	X	X	X	X	X	X	X	–	X	X	X	X
MW105	Roy Street ROW	X	X	X	X	–	X	–	–	X	X	X	X	X	X	X	X	X	–	X	X	X	X
MW106	SDOT Property S of Roy St	X	–	X	X	–	X	–	–	–	X	X	X	X	X	X	X	X	X	X	X	X	X
MW113	9th Ave N ROW	X	X	X	X	–	X	–	–	X	–	X	X	X	X	X	X	X	X	X	X	X	X
MW122	Alley East of 800 Roy St	X	X	X	X	–	X	–	–	–	–	–	X	X	X	X	X	–	X	–	X	X	X
MW123	Westlake Ave N ROW	X	–	X	X	–	X	–	–	–	–	–	X	X	X	X	X	–	X	–	X	X	X
MW124	Valley Street ROW	X	X	X	X	–	X	–	–	–	–	–	X	X	X	X	X	–	–	X	X	X	X
MW128	Westlake Ave N ROW	X	–	X	X	–	X	–	–	–	–	X	X	X	X	X	X	–	X	–	X	X	X
MW-133	West part of the Property	X	–	–	–	X	X	X	X	X	–	–	–	–	–	–	–	–	–	X	X	X	X
MW-137	South-central part of the Property	X	–	–	–	X	X	X	X	X	–	–	–	–	–	–	–	–	–	X	X	X	X
MW-138	Dexter Ave N ROW	X	–	–	–	X	X	X	–	X	X	X	X	X	X	X	X	X	–	X	X	X	X
MW-140	Roy Street ROW	–	–	–	–	X	X	–	–	–	–	–	–	–	–	–	–	–	–	X	X	X	X
MW-141	Roy Street ROW	X	–	–	–	X	X	X	X	X	–	–	–	–	–	–	–	–	–	X	X	X	X
MW-153	Roy St ROW W of MW106	X	X	–	–	–	X	–	–	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW-158	8th Ave N, near MW-9	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
MW-158A	8th Ave N, near MW-9	X	–	–	–	–	X	–	–	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW-160	8th Ave N, N of MW104	X	X	–	–	–	X	–	–	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW-161	8th Ave N, S of MW107	X	–	–	–	–	X	–	–	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW-162	Northeast part of the Property	X	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	X	X	–	X
MW-163	Center of the Property	X	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	X	X	–	X
MW-164	Southwest part of the Property	X	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	X	X	–	X
MW-304	Dexter Ave N ROW	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	–	–	X	X	X	X	X
MW-319	9th Ave N ROW	X	X	–	–	–	–	–	–	–	–	–	X	X	X	X	X	–	X	–	X	X	X
MW-323	9th Ave N ROW	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	–	X	–	X	X	X

Table 5

Summary of IA and RI Groundwater Investigations
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Monitoring Well or Boring	Area Location	Groundwater Level Monitoring		Groundwater Sampling																			
		Periodic Events	Continuous Monitoring	2017			2018			2019				2020				2021		Laboratory Analyses			
				Q1	Q2	Q3	Mar-June	Oct	Dec	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	GRO	VOCs	MNA	Field
MW-324	9th Ave N ROW	X	X	–	–	–	–	–	–	–	–	–	X	X	X	X	X	–	X	–	X	X	X
MW-326	Mercer St ROW	X	X	–	–	–	–	–	–	–	–	–	X	X	X	X	X	X	X	–	X	X	X
MW-328	East of Westlake Ave N	X	X	–	–	–	–	–	–	–	–	–	X	X	X	X	X	–	X	–	X	X	X
MW-329	East of Westlake Ave N	X	X	–	–	–	–	–	–	–	–	–	X	X	X	X	X	–	X	–	X	X	X
MW-336	Mercer St ROW	X	–	–	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	–	X	X	X
MW-341	Lake Union Park	X	–	–	–	–	–	–	–	–	–	–	–	–	X	X	X	–	X	–	X	X	X
MW-342	Valley St ROW	X	–	–	–	–	–	–	–	–	–	–	–	–	X	X	X	–	X	–	X	X	X
MW-343	Valley St ROW	X	–	–	–	–	–	–	–	–	–	–	–	–	X	X	X	–	X	–	X	X	X
Treatment Zone A Monitoring Wells																							
MW-165	Property	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	X	X	X	X	X	X
MW-169	Property	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	X	X	X	X	X	X
MW-173	Property	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	X	X	X	X	X	X
MW-177	Property	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	X	X	X	X	X	X
MW-181	Property	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	X	X	X	X	X	X
MW-185	Property	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	X	X	X	X	X	X
Treatment Zone A Injection Wells																							
IW-4A	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-7A	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-9A	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-18A	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-22A	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-37A	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-41A	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-42A	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-45A	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-46A	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-48A	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-50A	Property	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IW-51A	Property	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IW-54A	Property	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IW-58A	Property	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Treatment Zone B Monitoring Wells																							
MW-166	Property	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	X	X	X	X	X	X
MW-170	Property	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	X	X	X	X	X	X
MW-174	Property	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	X	X	X	X	X	X
MW-178	Property	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	X	X	X	X	X	X
MW-182	Property	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	X	X	X	X	X	X
MW-186	Property	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	X	X	X	X	X	X
Treatment Zone B Injection Wells																							
IW-3B	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-6B	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-8B	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-17B	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-19B	Property	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IW-21B	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X

Table 5

Summary of IA and RI Groundwater Investigations
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700 Dexter Avenue North, Seattle, Washington

Monitoring Well or Boring	Area Location	Groundwater Level Monitoring		Groundwater Sampling																			
		Periodic Events	Continuous Monitoring	2017			2018			2019				2020				2021		Laboratory Analyses			
				Q1	Q2	Q3	Mar-June	Oct	Dec	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	GRO	VOCs	MNA	Field
IW-22B	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-24B	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-27B	Property	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IW-28B	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-33B	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-37B	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-39B	Property	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IW-45B	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-46B	Property	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IW-47B	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-48B	Property	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IW-49B	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-51B	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-53B	Property	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IW-54B	Property	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IW-55B	Property	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Treatment Zone C Monitoring Wells																							
MW-167	Property	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	X	X	X	X	X	X
MW-171	Property	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	X	X	X	X	X	X
MW-175	Property	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	X	X	X	X	X	X
MW-179	Property	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	X	X	X	X	X	X
MW-183	Property	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	X	X	X	X	X	X
MW-187	Property	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	X	X	X	X	X	X
Treatment Zone C Injection Wells																							
IW-1C	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-2C	Property	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IW-3C	Property	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IW-4C	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-8C	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-9C	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-13C	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-15C	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-19C	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-20C	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-22C	Property	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IW-23C	Property	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IW-24C	Property	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IW-27C	Property	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IW-28C	Property	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Treatment Zone D Monitoring Wells																							
MW-168	Property	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	X	X	X	X	X	X
MW-172	Property	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	X	X	X	X	X	X
MW-176	Property	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	X	X	X	X	X	X
MW-180	Property	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	X	X	X	X	X	X
MW-184	Property	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	X	X	X	X	X	X

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		Periodic Events	Continuous Monitoring	2017			2018			2019				2020				2021		Laboratory Analyses			
				Q1	Q2	Q3	Mar-June	Oct	Dec	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	GRO	VOCs	MNA	Field
MW-188	Property	X	–	–	–	–	–	–	–	–	–	–	X	X	X	X	X	X	X	X	X	X	X
Treatment Zone D Injection Wells																							
IW-1D	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-3D	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-4D	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-6D	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-8D	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-9D	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-11D	Property	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	X
IW-12D	Property	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IW-13D	Property	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IW-14D	Property	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IW-15D	Property	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IW-16D	Property	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Treatment Zone A Perimeter Wells																							
PRB-A1	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	X	X	X
PRB-A3	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
PRB-A5	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	X	X	X
PRB-A9	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
PRB-A11	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	X	X	X
PRB-A14	Roy St ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	X	X	X
PRB-A17	Roy St ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	X	X	X
PRB-A19	Roy St ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	X	X	X
PRB-A23	Roy St ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	X	X	X
Treatment Zone B Perimeter Wells																							
PRB-B1	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	X	X	X
PRB-B2	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
PRB-B4	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	X	X	X
PRB-B5	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
PRB-B6	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
PRB-B10	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
PRB-B11	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	X	X	X
PRB-B13	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
PRB-B14	Roy St ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	X	X	X
PRB-B16	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
PRB-B17	Roy St ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	X	X	X
PRB-B18	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
PRB-B19	Roy St ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	X	X	X
PRB-B21	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
PRB-B23	Roy St ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	X	X	X
Treatment Zone C Perimeter Wells																							
PRB-C1	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	X	X	X
PRB-C5	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	X	X	X
PRB-C11	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	X	X	X
PRB-C14	Roy St ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	X	X	X

Table 5

Summary of IA and RI Groundwater Investigations
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Monitoring Well or Boring	Area Location	Groundwater Level Monitoring		Groundwater Sampling																			
		Periodic Events	Continuous Monitoring	2017			2018			2019				2020				2021		Laboratory Analyses			
				Q1	Q2	Q3	Mar-June	Oct	Dec	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	GRO	VOCs	MNA	Field
PRB-C17	Roy St ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	X	X	X
PRB-C19	Roy St ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	X	X	X
PRB-C23	Roy St ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	X	X	X
Treatment Zone D Perimeter Wells																							
PRB-D1	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	X	X	X
PRB-D4	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	X	X	X
PRB-D11	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	X	X	X
PRB-D13	Roy St ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	X	X	X
PRB-D16	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
PRB-D17	Roy St ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	X	X	X
PRB-D19	8th Ave N ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
PRB-D20	Roy St ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	X	X	X
PRB-D23	Roy St ROW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	X	X	X

Notes:

1. Property = 700 Dexter Avenue North.
2. GRO = Gasoline-range organics using NWTPH-Gx.
3. VOCs = Volatile organic compounds using EPA Method 8260C.
4. MNAs = Monitored natural attenuation parameters: nitrate, sulfate, chloride using EPA 300.0; total iron and manganese using EPA 6020/200.8; total organic carbon using SM5310B; alkalinity using SM2320B; ferrous iron using Hach kit 8146; dissolved methane, ethane, and ethene using RSK-175.
5. Field parameters include pH, temperature, specific conductance, dissolved oxygen, and oxidation/reduction potential.
6. Q = Quarter of the year.
7. X = Sampled or analyzed.
8. – = Not sampled or analyzed.

Table 6

Summary of IA and RI Soil Vapor Sampling and Analysis
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Soil Vapor Probe	Area Location	Soil Vapor Sampling										
		2018	2019				2020				2021	
		Sept	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
SV01	8th Ave N ROW	X	X	X	X	X	X	X	X	X	X	
SV02	8th Ave N ROW	X	X	X	X	X	–	–	X	–	–	–
SV03	8th Ave N ROW	X	X	X	–	–	–	–	–	–	–	–
SV-04	Roy St ROW	–	–	–	–	–	–	X	X	X	–	X
SV-05	Roy St ROW	–	–	–	–	–	–	X	X	X	–	–
SV-06	Roy St ROW	–	–	–	–	–	–	X	X	X	X	X
SV-07	Roy St ROW	–	–	–	–	–	–	X	X	X	X	X
SV-08	8th Ave N ROW	–	–	–	–	–	–	X	X	X	X	X
SV-09	8th Ave N ROW	–	–	–	–	–	–	X	X	X	X	X
SV-10	Valley Street ROW	–	–	–	–	–	–	X	X	X	X	X
SV-11	Valley Street ROW	–	–	–	–	–	–	X	X	X	X	X
SV-12	Valley Street ROW	–	–	–	–	–	–	X	X	X	X	X
SV-13	Valley Street ROW	–	–	–	–	–	–	X	X	X	X	–
SV-14	Roy St ROW	–	–	–	–	–	–	X	X	X	X	X
SV-15	Roy St ROW	–	–	–	–	–	–	X	X	X	X	X
SV-16	8th Ave N ROW	–	–	–	–	–	–	X	X	X	X	X
SV-17	8th Ave N ROW	–	–	–	–	–	–	X	X	X	X	X
SV-18	8th Ave N ROW	–	–	–	–	–	–	X	X	X	X	X
SV-19	9th Ave N ROW	–	–	–	–	–	–	X	X	X	X	X
SV-20	9th Ave N ROW	–	–	–	–	–	–	X	X	X	X	X
SV-21	Alley Between 8th & 9th Ave	–	–	–	–	–	–	X	X	X	X	X
SV-22	Alley Between 8th & 9th Ave	–	–	–	–	–	–	X	X	X	X	X
SV-23	Alley Between 8th & 9th Ave	–	–	–	–	–	–	X	X	X	X	X
SV-24	Alley Between 8th & 9th Ave	–	–	–	–	–	–	X	X	X	X	X
SV-25	Dexter Ave N ROW	–	–	–	–	–	–	X	X	X	X	X
SV-26	Dexter Ave N ROW	–	–	–	–	–	–	X	X	X	X	X
SV-27	Dexter Ave N ROW	–	–	–	–	–	–	X	X	X	X	X
SV-28	Dexter Ave N ROW	–	–	–	–	–	–	X	X	X	X	X

Notes:

1. All samples analyzed for VOCs by EPA TO-15.
2. Q = Quarter of the year.
3. X = Sampled.
4. – = Not sampled.

Table 7

Summary of Soil Physical Properties
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Area Location	Sample Depth (feet)	Sample Elevation (feet NAVD 88)	Unit	Sample USCS	Component Percentage			Horizontal Hydraulic Conductivity (K) Calculated Based on Grain Size (cm/sec)					Lab Vertical K (cm/sec)	TOC (mg/kg)	f_{oc} (g/g)	Total Porosity	Dry Bulk Density (pcf)	Moisture Content (%)
									Kozeny-Carman Method			Hazen Method (modified)							
						Gravel	Sand	Silt/ Clay	Max	Median	Min	d_{10} (cm)	K						
American Linen Investigations																			
B-201	Property, SW quadrant	30	10.1	Int. A	SM	5.5	72.2	22.3	–	–	–	–	–	–	–	–	–	–	–
B-202	Property, NW quadrant	10	29.2	Shallow	SM	15.2	64.4	20.4	–	–	–	–	–	–	–	–	–	–	–
B-202	Property, NW quadrant	45	-5.8	Int. A	SM	18.1	63.0	18.9	–	–	–	–	–	–	–	–	–	–	–
B-203	Property, NE quadrant	30	9.2	Int. A	SP	0.9	89.1	10.0	–	–	–	–	–	–	–	–	–	–	–
B-203	Property, NE quadrant	75	-35.8	Int. B	ML	4.2	44.2	51.6	–	–	–	–	–	–	–	–	–	–	–
B-204	Property, SE quadrant	40	-0.2	Int. A	SM	11.6	46.1	42.3	–	–	–	–	–	–	–	–	–	–	–
B-205	Property, NE quadrant	63	-22.7	Int. B	SM	1.3	60.3	38.5	2.6E-03	1.1E-03	3.7E-04	< 3.0E-03	< 1.4E-03	–	–	–	–	–	–
B-205	Property, NE quadrant	79	-38.7	Int. B	ML	–	–	–	–	–	–	–	–	–	1,450	1.45E-03	–	–	–
B-206	Property, NW quadrant	47	-7.9	Int. A	SM	6.7	58.3	35.0	3.3E-03	1.4E-03	4.7E-04	< 3.0E-03	< 1.4E-03	–	–	–	–	–	–
B-206	Property, NW quadrant	48	-8.9	Int. A	SM	3.0	77.0	19.9	8.4E-04	3.6E-04	1.2E-04	1.2E-03	1.4E-04	–	–	–	–	–	–
B-206	Property, NW quadrant	50 - 51	-10.9 to -11.9	Int. A	SM	–	–	–	–	–	–	–	–	1.54E-06	–	–	0.33	114.8	10.2
B-207	Property, NE quadrant	50	-11.5	Int. A	SM	13.3	54.8	31.9	3.7E-03	1.6E-03	5.3E-04	< 3.0E-03	< 1.4E-03	–	–	–	–	–	–
B-207	Property, NE quadrant	52	-13.5	Int. B	ML	–	–	–	–	–	–	–	–	–	1,500	1.50E-03	–	–	–
B-208	Property, SE quadrant	56 - 57	-17.2 to -18.2	Int. B	SM	4.8	62.2	33.0	3.5E-03	1.5E-03	4.9E-04	< 3.0E-03	< 1.4E-03	–	–	–	–	–	–
B-209	Property, SE quadrant	57	-18.0	Int. B	SM	4.1	55.8	40.2	2.4E-03	1.0E-03	3.5E-04	< 3.0E-03	< 1.4E-03	–	–	–	–	–	–
B-209	Property, SE quadrant	73	-34.0	Int. B	SM	–	–	–	–	–	–	–	–	–	1,900	1.90E-03	–	–	–
B-210	Property, SE quadrant	59 - 60	-19.6 to -20.6	Int. B	SM	6.9	48.8	44.2	1.9E-03	8.0E-04	2.7E-04	< 3.0E-03	< 1.4E-03	–	–	–	–	–	–
B-211	Property, SW quadrant	83	-43.3	Deep	SP	5.4	90.3	4.3	7.6E-02	3.3E-02	1.1E-02	2.4E-02	5.5E-02	–	–	–	–	–	–
B-212	Dexter Ave N ROW, E side	54	3.6	Int. B	ML	0.0	1.6	98.4	8.6E-06	3.7E-06	1.2E-06	1.0E-04	1.0E-06	–	–	–	–	–	–
B-213	Dexter Ave N ROW, E side	99	-41.6	Deep	SM	3.1	81.9	15.1	1.1E-02	4.6E-03	1.5E-03	4.9E-03	2.4E-03	–	–	–	–	–	–
B-213	Dexter Ave N ROW, E side	125	-67.6	Deep	SM	–	–	–	–	–	–	–	–	–	390	3.90E-04	–	–	–
B-216	Property, SW quadrant	76	-24.1	Int. B	SM	2.9	65.0	32.1	3.7E-03	1.6E-03	5.2E-04	< 3.0E-03	< 1.4E-03	–	–	–	–	–	–
B-217	Property, SW quadrant	97 - 99	-46.2 to -47.2	Deep	SP	32.1	61.0	6.9	4.4E-02	1.9E-02	6.3E-03	1.4E-02	1.8E-02	–	–	–	–	–	–
B-219	Property, SE quadrant	73	-33.2	Int. B	SM	4.1	72.6	23.3	6.0E-03	2.6E-03	8.5E-04	3.7E-03	1.4E-03	–	–	–	–	–	–
MW-132	Property, SE quadrant	53	-12.9	Int. A	SM	4.4	69.8	25.8	4.4E-03	1.9E-03	6.3E-04	< 3.0E-03	< 1.4E-03	–	–	–	–	–	–
MW-132	Property, SE quadrant	82	-41.9	Int. B	ML	–	–	–	–	–	–	–	–	–	2,100	2.10E-03	–	–	–
MW-133	Property, SW quadrant	106	-65.9	Deep	GP	52.3	41.1	6.6	5.7E-02	2.4E-02	8.1E-03	1.4E-02	1.9E-02	–	–	–	–	–	–
MW-135	Property, NE quadrant	50	-10.9	Int. A	SM	6.0	75.0	19.0	7.9E-03	3.4E-03	1.1E-03	4.0E-03	1.6E-03	–			–		
MW-135	Property, NE quadrant	60 - 60.5	-20.9 to -21.4	Int. B	SM	–	–	–	–	–	–	–	–	9.32E-07	–	–	–	127.4	10.9
MW-136	Property, SW quadrant	77	-25.1	Int. B	CL	0.0	0.9	99.1	1.7E-06	7.1E-07	2.3E-07	5.0E-05	2.5E-07	–	–	–	–	–	–
MW-137	Property, SW quadrant	50	1.7	Int. A	ML	0.0	0.1	99.9	3.7E-06	1.6E-06	5.3E-07	7.5E-05	5.6E-07	–	–	–	–	–	–
MW-137	Property, SW quadrant	90	-38.3	Int. B	ML	–	–	–	–	–	–	–	–	–	2,450	2.45E-03	–	–	–
MW-137	Property, SW quadrant	115	-63.3	Deep	SP	11.2	81.6	7.3	3.0E-02	1.3E-02	4.2E-03	1.1E-02	1.3E-02	–	–	–	–	–	–
MW-138	Dexter Ave N ROW, E side	65	-7.6	Int. A	SM	9.6	73.5	16.9	1.2E-02	5.2E-03	1.7E-03	5.3E-03	2.8E-03	–	–	–	–	–	–
MW-138	Dexter Ave N ROW, E side	115	-57.6	Deep	SP	19.7	73.1	7.2	3.6E-02	1.5E-02	5.1E-03	1.2E-02	1.4E-02	–	–	–	–	–	–
MW-139	Property, SE quadrant	80	-40.2	Int. B	SM	0.3	82.7	17.0	8.9E-03	3.8E-03	1.3E-03	4.3E-03	1.8E-03	–	–	–	–	–	–
MW-140	Roy St ROW, N side	80 - 80.5	-29.4 to -30.4	Int. B	SM	6.7	54.5	38.7	2.4E-03	1.0E-03	3.4E-04	< 3.0E-03	< 1.4E-03	8.58E-07	–	–	–	112.4	12.6
MW-140	Roy St ROW, N side	100	-49.4	Deep	SP	18.5	78.7	2.9	9.4E-02	4.0E-02	1.3E-02	2.2E-02	4.9E-02	–	–	–	–	–	–
MW-143	8th Ave N ROW, E side	45	-2.6	Int. A	SM	–	–	–	–	–	–	–	–	–	–	–	–	160.4	10.3
MW-144	8th Ave N ROW, E side	50	-6.1	Int. A	ML	–	–	–	–	–	–	–	–	9.18E-06	–	–	–	150.5	24.0
MW-145	8th Ave N ROW, E side	80	-36.1	Int. B	ML	4.5	36.1	59.4	4.9E-06	2.1E-06	6.9E-07	7.2E-05	5.2E-07	–	–	–	–	–	–
MW-147	Roy St ROW, S side	81	-28.6	Int. B	GP	51.7	36.1	12.2	4.7E-05	2.0E-05	6.6E-06	5.0E-04	2.5E-05	–	690	6.9E-04	–	–	–
MW-148	Roy St ROW, S side	60	-15.7	Int. B	SP	0.0	91.6	8.4	1.5E-04	6.6E-05	2.2E-05	1.5E-02	2.3E-02	–	–	–	–	–	–
MW-153	Roy St ROW, S side	80	-25.3	Int. B	SM	4.4	47.5	48.1	5.3E-05	2.3E-05	7.5E-06	4.5E-04	2.0E-05	–	–	–	–	–	–
MW-153	Roy St ROW, S side	90 to 100	-4.3 to -5.3	Deep	SP	0.1	92.6	7.4	3.4E-04	1.5E-04	4.8E-05	1.7E-02	2.9E-02	–	–	–	–	–	–

Table 7

Summary of Soil Physical Properties
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Area Location	Sample Depth (feet)	Sample Elevation (feet NAVD 88)	Unit	Sample USCS	Component Percentage			Horizontal Hydraulic Conductivity (K) Calculated Based on Grain Size (cm/sec)					Lab Vertical K (cm/sec)	TOC (mg/kg)	f_{oc} (g/g)	Total Porosity	Dry Bulk Density (pcf)	Moisture Content (%)
									Kozeny-Carman Method			Hazen Method (modified)							
						Gravel	Sand	Silt/ Clay	Max	Median	Min	d_{10} (cm)	K						
MW-158A	8th Ave N ROW, E side	100	-58.5	Deep	SP	26.6	64.4	9.0	5.2E-04	2.2E-04	7.3E-05	3.1E-02	9.5E-02	–	–	–	–	–	–
MW-159	8th Ave N ROW, E side	25	18.3	Int. A	ML	0.0	39.3	60.7	2.6E-05	1.1E-05	3.7E-06	1.5E-04	2.3E-06	–	–	–	–	–	–
MW-160	8th Ave N ROW, W side	100	-57.4	Deep	SM	0.3	81.5	18.2	1.8E-04	7.8E-05	2.6E-05	1.40E-03	2.0E-04	–	–	–	–	–	–
MW-160	8th Ave N ROW, W side	127.5	-84.9	Deep	SM	18.9	46.2	34.9	4.0E-05	1.7E-05	5.7E-06	2.00E-04	4.0E-06	–	–	–	–	–	–
MW-161	8th Ave N ROW, W side	100	-55.6	Deep	SP	2.9	90.1	6.9	4.1E-04	1.8E-04	5.8E-05	1.82E-02	3.3E-02	–	–	–	–	–	–
MW-161	8th Ave N ROW, W side	140	-95.6	Basal	SM	15.4	51.9	32.7	5.4E-05	2.3E-05	7.6E-06	3.00E-04	9.0E-06	–	300	3.0E-04	–	–	–
MW-190	Valley St ROW, S side	48	0.6	Int. A	SM	6.7	49.1	44.2	3.6E-05	1.5E-05	5.1E-06	1.80E-04	3.2E-06	–	–	–	–	–	–
MW-302	Dexter Ave N ROW, E side	33	24.3	Shallow	SP	8.9	76.9	14.3	6.1E-04	2.6E-04	8.7E-05	3.13E-03	9.8E-04	–	–	–	–	–	–
MW-302	Dexter Ave N ROW, E side	60	-2.7	Int. A	SM	11.5	51.0	37.5	4.2E-05	1.8E-05	6.0E-06	1.82E-04	3.3E-06	–	–	–	–	–	–
MW-303	Dexter Ave N ROW, E side	65	-7.4	Int. A	ML	–	–	–	–	–	–	–	–	7.13E-07	2,650	2.7E-03	0.25	126.7	12.3
MW-303	Dexter Ave N ROW, E side	80	-22.4	Int. B	ML	–	–	–	–	–	–	–	–	1.89E-07	2,700	2.7E-03	0.24	128.6	11.1
MW-304	Dexter Ave N ROW, E side	81	-23.4	Int. B	CL	0.1	1.2	98.7	3.1E-06	1.3E-06	4.4E-07	5.44E-05	3.0E-07	–	–	–	–	–	–
MW-304	Dexter Ave N ROW, E side	108	-50.4	Deep	SP	8.9	89.1	2.0	8.9E-03	3.8E-03	1.3E-03	2.54E-02	6.5E-02	–	210	2.1E-04	–	–	–
MW-307	Roy St ROW, S side	44	16.5	Int. A	SM	3.4	80.8	15.8	2.8E-04	1.2E-04	4.0E-05	1.45E-03	2.1E-04	–	–	–	–	–	–
MW-308	Alley E of Seattle Roy Aloha Shops	33	-2.6	Int. A	ML	–	–	–	–	–	–	–	–	1.21E-04	300	3.0E-04	0.38	104.3	22.7
MW-308	Alley E of Seattle Roy Aloha Shops	40	-9.6	Int. A	SP	–	–	–	–	–	–	–	–	–	390	3.9E-04	0.33	112.4	17.5
MW-309	Alley E of Seattle Roy Aloha Shops	59	-28.6	Int. B	ML	7.0	23.6	69.4	1.1E-05	4.9E-06	1.6E-06	1.06E-04	1.1E-06	–	–	–	–	–	–
MW-311	Alley E of Seattle Roy Aloha Shops	40	-6.9	Int. A	SM	0.0	78.9	21.2	7.1E-04	3.1E-04	1.0E-04	4.63E-03	2.1E-03	–	200	2.0E-04	–	–	–
MW-311	Alley E of Seattle Roy Aloha Shops	48	-14.9	Int. A	SP	0.0	94.2	5.8	2.6E-03	1.1E-03	3.7E-04	7.85E-02	6.2E-01	–	–	–	–	–	–
MW-314	Alley E of Seattle Roy Aloha Shops	43	-3.2	Int. A	SM	1.7	51.3	47.0	4.0E-05	1.7E-05	5.7E-06	1.79E-04	3.2E-06	–	–	–	–	–	–
MW-316	Mercer St ROW, N side	37	12.8	Int. A	SM	5.9	71.3	22.8	1.2E-04	5.2E-05	1.7E-05	7.23E-04	5.2E-05	–	–	–	–	–	–
MW-316	Mercer St ROW, N side	58	-8.2	Int. A	SM	16.8	58.8	24.4	8.5E-05	3.6E-05	1.2E-05	3.39E-04	1.2E-05	–	–	–	–	–	–
MW-319	9th Ave N ROW, W side	28	3.7	Int. A	SM	20.6	43.4	36.1	6.0E-05	2.6E-05	8.4E-06	2.15E-04	4.6E-06	–	–	–	–	–	–
MW-322	9th Ave N ROW, W side	32	1.5	Int. B	CL	6.9	35.3	57.7	4.5E-06	1.9E-06	6.4E-07	5.58E-05	3.1E-07	–	–	–	–	–	–
MW-323	9th Ave N ROW, W side	32.5	2.2	Int. B	CL	–	–	–	–	–	–	–	–	1.82E-07	6,850	6.9E-03	0.53	80.5	40.8
MW-323	9th Ave N ROW, W side	43.5	-8.9	Int. B	ML	–	–	–	–	–	–	–	–	1.23E-05	1,150	1.2E-03	0.39	103.0	22.7
MW-323	9th Ave N ROW, W side	100	-65.4	Deep	SM	–	–	–	–	–	–	–	–	1.19E-04	290	2.9E-04	0.21	133.6	8.9
MW-324	Roy St ROW, N side	30	4.3	Int. B	CL	0.0	15.1	85.0	2.0E-06	8.5E-07	2.8E-07	5.20E-05	2.7E-07	–	–	–	–	–	–
MW-324	Roy St ROW, N side	38	-3.7	Int. B	ML	3.5	27.0	69.5	1.2E-05	5.3E-06	1.8E-06	1.04E-04	1.1E-06	–	–	–	–	–	–
MW-326	Mercer St ROW, N side	39	2.3	Int. A	SP	0.1	93.7	6.2	1.8E-03	7.6E-04	2.5E-04	7.00E-03	4.9E-03	–	–	–	–	–	–
MW-328	Lake Union Park, S end	45	-16.6	Int. B	SM	0.2	62.9	36.9	4.2E-05	1.8E-05	5.9E-06	1.83E-04	3.3E-06	–	–	–	–	–	–
MW-328	Lake Union Park, S end	70	-41.6	Deep	SP	0.0	96.6	3.4	3.5E-03	1.5E-03	5.0E-04	1.20E-02	1.4E-02	–	290	2.9E-04	–	–	–
MW-329	Westlake Ave N ROW, E side	70	-40.7	Deep	SP	0.0	98.7	1.3	1.6E-02	6.7E-03	2.2E-03	1.90E-02	3.6E-02	–	–	–	–	–	–
MW-329	Westlake Ave N ROW, E side	105	-75.7	Deep	SM	23.4	50.1	26.4	6.3E-05	2.7E-05	8.9E-06	2.15E-04	4.6E-06	–	–	–	–	–	–
MW-331	Alley E of Seattle Roy Aloha Shops	44	-12.8	Int. A	SM	0.0	59.5	40.6	4.6E-03	2.0E-03	6.5E-04	4.90E-03	2.4E-03	–	670	6.7E-04	–	–	–
MW-334	900 Roy St, S end	26	5.4	Int. A	SM	0.8	80.9	18.4	1.8E-02	7.9E-03	2.6E-03	5.37E-03	2.9E-03	–	–	–	–	–	–
MW-335	Mercer St ROW, N side	19	16.2	Int. A	SM	16.8	62.4	20.8	1.3E-02	5.8E-03	1.9E-03	4.18E-03	1.7E-03	–	–	–	–	–	–
MW-335	Mercer St ROW, N side	39	-3.8	Int. A	ML	0.0	28.0	72.0	3.1E-03	1.3E-03	4.4E-04	3.50E-03	1.2E-03	–	–	–	–	–	–
MW-335	Mercer St ROW, N side	68	-32.8	Int. B	SP	0.0	88.3	11.7	2.3E-02	1.0E-02	3.3E-03	5.85E-03	3.4E-03	–	–	–	–	–	–
MW-336	Mercer St ROW, N side	24	9.7	Int. A	SM	0.0	71.7	28.3	6.5E-03	2.8E-03	9.2E-04	3.00E-03	9.0E-04	–	–	–	–	–	–
MW-336	Mercer St ROW, N side	94	-60.3	Deep	SP	0.0	94.6	5.4	5.2E-02	2.2E-02	7.4E-03	1.24E-02	1.5E-02	–	–	–	–	–	–
MW-337	Lake Union Park, N end	15	12.8	Shallow	ML	10.2	39.2	50.7	3.3E-03	1.4E-03	4.7E-04	2.70E-03	7.3E-04	–	–	–	0.43	96.1	27.6
MW-337	Lake Union Park, N end	15.5	12.3	Shallow	ML	–	–	–	–	–	–	–	–	2.89E-06	–	–	–	–	–
MW-338	Lake Union Park, N end	47	-19.2	Int. B	ML	0.0	14.5	85.5	1.3E-03	5.8E-04	1.9E-04	2.50E-03	6.3E-04	–	–	–	–	–	–
MW-338	Lake Union Park, N end	54	-26.2	Int. B	SM	0.0	56.1	43.9	4.8E-03	2.1E-03	6.8E-04	4.16E-03	1.7E-03	–	570	5.7E-04	–	–	–
MW-340	Lake Union Park, S end	47	-18.7	Int. B	ML	0.0	30.9	69.1	1.8E-03	7.9E-04	2.6E-04	2.50E-03	6.3E-04	1.28E-06	–	–	–	–	–
MW-341	Lake Union Park, S end	90	-61.6	Deep	SP	10.6	88.8	0.6	1.8E-01	7.6E-02	2.5E-02	2.16E-02	4.7E-02	–	100	1.0E-04	–	–	–
MW-341	Lake Union Park, S end	102	-73.6	Deep	SP	0.6	87.6	11.8	1.8E-02	7.6E-03	2.5E-03	6.69E-03	4.5E-03	–	390	3.9E-04	–	–	–
MW-343	Valley St ROW, S side	77	-49.4	Deep	GP	65.0	31.8	3.3	3.1E-01	1.4E-01	4.5E-02	2.87E-02	8.2E-02	–	–	–	–	–	–
MW-343	Valley St ROW, S side	103	-75.4	Deep	SP	28.9	66.7	4.4	1.2E-01	5.1E-02	1.7E-02	1.80E-02	3.2E-02	–	290	2.9E-04	–	–	–

Table 7

Summary of Soil Physical Properties
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Area Location	Sample Depth (feet)	Sample Elevation (feet NAVD 88)	Unit	Sample USCS	Component Percentage			Horizontal Hydraulic Conductivity (K) Calculated Based on Grain Size (cm/sec)					Lab Vertical K (cm/sec)	TOC (mg/kg)	f_{oc} (g/g)	Total Porosity	Dry Bulk Density (pcf)	Moisture Content (%)
									Kozeny-Carman Method			Hazen Method (modified)							
						Gravel	Sand	Silt/ Clay	Max	Median	Min	d_{10} (cm)	K						
SDOT Mercer Parcels Investigations																			
HMW-1IB	SDOT Mercer Parcels, NE quadrant	15	23.3	Shallow	GP	48.5	43.4	8.1	–	–	–	–	–	–	–	–	–	–	8.8
HMW-1IB	SDOT Mercer Parcels, NE quadrant	20.5	17.8	Shallow	CL	6.1	43.8	50.1	–	–	–	–	–	–	–	–	–	–	21.9
HMW-1IB	SDOT Mercer Parcels, NE quadrant	35	3.3	Int. A	SM	0	82.6	17.4	–	–	–	–	–	–	–	–	–	–	19.8
HMW-1IB	SDOT Mercer Parcels, NE quadrant	40	-1.7	Int. A	SP	0.8	94	5.2	–	–	–	1.37E-02	1.88E-02	–	–	–	–	–	20.5
HMW-1IB	SDOT Mercer Parcels, NE quadrant	45	-6.7	Int. A	SP	0.3	89.7	10	–	–	–	7.43E-03	5.52E-03	–	–	–	–	–	18.8
HMW-1IB	SDOT Mercer Parcels, NE quadrant	50	-11.7	Int. A	SM	39.5	44.5	16.1	–	–	–	–	–	–	–	–	–	–	10.3
HMW-1IB	SDOT Mercer Parcels, NE quadrant	60	-21.7	Int. B	SC	41.4	46.4	12.2	–	–	–	–	–	–	–	–	–	–	8.2
HMW-1IB	SDOT Mercer Parcels, NE quadrant	65	-26.7	Int. B	GC	44.4	40.8	14.8	–	–	–	–	–	–	–	–	–	–	7.9
HMW-4IA	SDOT Mercer Parcels, SW quadrant	22.5	36.2	Shallow	SM	23.9	48.7	27.4	–	–	–	–	–	–	–	–	–	–	10.5
HMW-4IA	SDOT Mercer Parcels, SW quadrant	27.5	31.2	Shallow	ML	1.3	15.4	83.3	–	–	–	–	–	–	–	–	–	–	16.5
HMW-4IA	SDOT Mercer Parcels, SW quadrant	35	23.7	Shallow	SM	9.1	66.4	24.5	–	–	–	–	–	–	–	–	–	–	8.8
HMW-4IA	SDOT Mercer Parcels, SW quadrant	50	8.7	Int. A	ML	0.9	29.6	69.5	–	–	–	–	–	–	–	–	–	–	17.4
HMW-4IA	SDOT Mercer Parcels, SW quadrant	75	-16.3	Int. B	SM	0.4	82.4	17.2	–	–	–	–	–	–	–	–	–	–	18.4
MBGW-2	SDOT Mercer Parcels, NE quadrant	17.5	28.6	Shallow	SM	30.5	52.7	16.8	–	–	–	–	–	–	–	–	–	–	7.4
MBGW-2	SDOT Mercer Parcels, NE quadrant	20	26.1	Shallow	SM	38.6	39.3	22.2	–	–	–	–	–	–	–	–	–	–	13.4
MBGW-2	SDOT Mercer Parcels, NE quadrant	25	21.1	Shallow	SM	18.1	65.1	16.8	–	–	–	–	–	–	–	–	–	–	36
MBGW-2	SDOT Mercer Parcels, NE quadrant	30	16.1	Shallow	SP	0	89.7	10.3	–	–	–	7.00E-03	4.90E-03	–	–	–	–	–	17.5
MBGW-2	SDOT Mercer Parcels, NE quadrant	35	11.1	Int. A	SP	5.9	87.9	6.2	–	–	–	1.22E-02	1.49E-02	–	–	–	–	–	18.2
MBGW-2	SDOT Mercer Parcels, NE quadrant	40	6.1	Int. A	SP	0.5	94	5.4	–	–	–	1.01E-02	1.02E-02	–	–	–	–	–	22.2
MBGW-2	SDOT Mercer Parcels, NE quadrant	50	-3.9	Int. A	SP	23.1	69.9	7	–	–	–	1.11E-02	1.23E-02	–	–	–	–	–	10.5
MBGW-2	SDOT Mercer Parcels, NE quadrant	55	-8.9	Int. A	SP	32.2	56.1	11.7	–	–	–	–	–	–	–	–	–	–	12.7
MBGW-2	SDOT Mercer Parcels, NE quadrant	70	-23.9	Int. B	SW	21.5	67.2	11.3	–	–	–	–	–	–	–	–	–	–	11.1
MBGW-2	SDOT Mercer Parcels, NE quadrant	75	-28.9	Int. B	SW	18.8	69.3	11.8	–	–	–	–	–	–	–	–	–	–	13.3
MBGW-7	SDOT Mercer Parcels, SW quadrant	25	28.8	Shallow	SM	6.3	74	19.8	–	–	–	–	–	–	–	–	–	–	12
MBGW-7	SDOT Mercer Parcels, SW quadrant	45	8.8	Int. A	ML	0	15.7	84.3	–	–	–	–	–	–	–	–	–	–	22.1
MBGW-7	SDOT Mercer Parcels, SW quadrant	70	-16.2	Int. B	ML	1.5	27.2	71.3	–	–	–	–	–	–	–	–	–	–	15.8
MBGW-8	SDOT Mercer Parcels, SE quadrant	12.5	34.6	Shallow	SM	4.9	68	27.1	–	–	–	–	–	–	–	–	–	–	15.9
MBGW-8	SDOT Mercer Parcels, SE quadrant	15	32.1	Shallow	SM	3.7	75.3	21	–	–	–	–	–	–	–	–	–	–	16.8
MBGW-8	SDOT Mercer Parcels, SE quadrant	20	27.1	Shallow	SM	11.5	58.1	30.4	–	–	–	–	–	–	–	–	–	–	9.3
MBGW-8	SDOT Mercer Parcels, SE quadrant	30	17.1	Shallow	SM	4.8	55.8	39.4	–	–	–	–	–	–	–	–	–	–	10.9
MBGW-8	SDOT Mercer Parcels, SE quadrant	50	-2.9	Int. A	ML	0.3	17.6	82.1	–	–	–	–	–	–	–	–	–	–	23.9
MBGW-8	SDOT Mercer Parcels, SE quadrant	60	-12.9	Int. A	SP	10.4	86.4	3.1	–	–	–	1.97E-02	3.88E-02	–	–	–	–	–	20.2
MBGW-8	SDOT Mercer Parcels, SE quadrant	75	-27.9	Int. B	SM	17.8	67.6	14.6	–	–	–	–	–	–	–	–	–	–	15.6

Table 7

Summary of Soil Physical Properties
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Area Location	Sample Depth (feet)	Sample Elevation (feet NAVD 88)	Unit	Sample USCS	Component Percentage			Horizontal Hydraulic Conductivity (K) Calculated Based on Grain Size (cm/sec)					Lab Vertical K (cm/sec)	TOC (mg/kg)	f_{oc} (g/g)	Total Porosity	Dry Bulk Density (pcf)	Moisture Content (%)
									Kozeny-Carman Method			Hazen Method (modified)							
						Gravel	Sand	Silt/ Clay	Max	Median	Min	d_{10} (cm)	K						
MBGW-16	SDOT Mercer Parcels, SW quadrant	17.5	34.6	Shallow	CL	2.7	24.4	72.9	–	–	–	–	–	–	–	–	–	–	16.6
MBGW-16	SDOT Mercer Parcels, SW quadrant	22.5	29.6	Shallow	SM	6.5	67.3	26.3	–	–	–	–	–	–	–	–	–	–	7.9
MBGW-16	SDOT Mercer Parcels, SW quadrant	30	22.1	Shallow	SM	0.6	64.5	34.9	–	–	–	–	–	–	–	–	–	–	13
MBGW-16	SDOT Mercer Parcels, SW quadrant	50	2.1	Int. A	SM	17.5	49.5	33	–	–	–	–	–	–	–	–	–	–	11.1

Notes:

1. Depths in feet below ground surface.
2. cm/sec = Centimeters per second.
3. – = Not determined.
3. Shallow = Shallow Zone, Int. A = Intermediate A Zone, Int. B = Intermediate B Zone, Deep = Deep Zone, Basal = aquitard at the base of the Deep Zone.
4. UCSC = Unified Soil Classification System symbol; GP = poorly graded gravel, GC = clayey gravel, SW = well-graded sand, SP = poorly graded sand, SM = silty sand, ML = sandy silt, silt with sand, or silt, Cl = clay.
5. Grain size determined using ASTM D422/D4464M (sieve/laser or hydrometer).
6. Lab did not run hydrometer below No. 400 (except on samples B-212 at 54 ft, MW-136 at 77 ft, MW-137 at 50 ft, and B-206 at 48 ft, MW-145 at 80 ft, MW-147 at 81 ft, MW148 at 60 ft, MW-153 at 80 and 90 to 100 ft, MW-158A at 100 ft, MW-159 at 25 ft, MW-160 at 100 and 127.5 ft, and MW-161 at 100 and 140 ft). Remaining pan weights distributed evenly across 25, 15.6, and 5 microns for hydraulic conductivity based on grain size analysis calculations.
7. Kozeny-Carman calculations provided in Appendix F. The modified Hazen method estimates hydraulic conductivity by multiplying the square of d_{10} (10 percent passing diameter) by 100.
8. Laboratory hydraulic conductivity (K) determined using ASTM D-5084.
9. f_{oc} determined using the Walkley-Black method.
10. Dry bulk density and moisture content determined using ASTM D2937.
11. The chain of custody forms mistakenly listed the depths for B-206 (48 feet), MW-135 (50 feet), and MW-140 (100 feet) as 50 feet, 60 feet, and 90 feet, respectively.

Table 8

Hydraulic Conductivity Estimates from Aquifer Tests
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Well ID	Well Location	Well Screen Elevation (feet NAVD88)	Well Screen Depth (feet bgs)	Lithologic Unit in Screen Zone	Performing Consultant	Test Type[a]	Test ID	Assumed Aquifer Thickness (feet)	Transmissivity (feet^2/day)	Storage Coefficient (Unitless)	Hydraulic Conductivity (feet/day)	Geometric Average Hydraulic Conductivity (feet/day)	Geometric Average Hydraulic Conductivity (cm/sec)	Analytical Method
Shallow Zone														
DMW-1S	615 Dexter, SE quadrant	36 to 26	20 to 30	SM	Hart Crowser	Slug	Falling Head 1	–	–	–	0.108	0.282	9.8E-05	Bouwer and Rice
							Falling Head 2	–	–	–	0.155			
							Rising Head 1	–	–	–	0.574			
							Rising Head 2	–	–	–	0.659			
DMW-4S	Alley S of SE quadrant of 615 Dexter	38.76 to 28.76	23.0 to 33.0	SM	Hart Crowser	Slug	Falling Head 1	–	–	–	0.067	0.065	2.3E-05	Bouwer and Rice
							Rising Head 1	–	–	–	0.064			
HMW-1S	SDOT Mercer Parcels, NE quadrant	16.01 to 6.01	20 to 30	SM	Hart Crowser	Slug	Falling Head 1	–	–	–	0.4	0.35	1.2E-04	Bouwer and Rice
							Rising Head 1	–	–	–	0.3			
HMW-2S	SDOT Mercer Parcels, NE quadrant	29.80 to 19.80	19.8 to 29.8	SM, ML	Hart Crowser	Slug	Falling Head 1	–	–	–	0.5	2.38	8.3E-04	Bouwer and Rice
							Rising Head 1	–	–	–	11.3			
HMW-9S	SDOT Mercer Parcels, SW quadrant	30.39 to 20.39	25 to 35	SM, SP	Hart Crowser	Slug	Falling Head 1	–	–	–	22.1	3.29	1.1E-03	Bouwer and Rice
							Falling Head 2	–	–	–	0.755			
							Rising Head 1	–	–	–	2.65			
							Rising Head 2	–	–	–	2.65			
HMW-10S	SDOT Mercer Parcels, SE quadrant	23.51 to 13.51	24.7 to 34.7	SM	Hart Crowser	Slug	Falling Head 1	–	–	–	1.06	0.983	3.4E-04	Bouwer and Rice
							Falling Head 2	–	–	–	0.932			
							Falling Head 3	–	–	–	0.948			
							Rising Head 1	–	–	–	0.984			
							Rising Head 2	–	–	–	0.894			
							Rising Head 3	–	–	–	1.10			
MW-337	Lake Union Park, N end	17.81 to 7.81	9.7 to 19.7	ML	PES	Slug	Falling Head_2	–	–	–	4.7	4.63	1.6E-03	Bouwer and Rice
							Falling Head_3	–	–	–	4.1			
							Falling Head_4	–	–	–	4.6			
							Rising Head_2	–	–	–	5.8			
							Rising Head_3	–	–	–	4.5			
							Rising Head_4	–	–	–	4.1			
Intermediate A Zone														
MW107	8th Ave N RO, W side	9.2 to 0.2	35 to 45	SM	SES	Slug	MW107_Fall1	10	4.75	–	0.475	0.47	1.6E-04	Cooper, Bredehoeft, and Papadopulos
							MW107_Rise1	10	4.58	–	0.458			
MW108	Alley E of Seattle Roy Aloha Shops	-6.9 to -16.9	40 to 50	SP, SM	SES	Slug	MW108_Fall1	10	109	–	10.9	12.6	4.4E-03	Cooper, Bredehoeft, and Papadopulos
							MW108_Fall2	10	103	–	10.3			
							MW108_Rise1	10	154	–	15.4			
							MW108_Rise2	10	145	–	14.5			
MW109	Alley E of Seattle Roy Aloha Shops	0.7 to -9.3	35 to 45	SP	SES	Slug	MW109_Fall2	10	74.0	–	7.40	7.61	2.7E-03	Cooper, Bredehoeft, and Papadopulos
							MW109_Fall3	10	79.5	–	7.95			
							MW109_Rise2	10	71.1	–	7.11			
							MW109_Rise3	10	80.2	–	8.02			
MW110	Alley E of Seattle Roy Aloha Shops	5.0 to -5.0	35 to 45	SM, ML	SES	Slug	MW110_Fall1	10	11.5	–	1.15	1.21	4.3E-04	Cooper, Bredehoeft, and Papadopulos
							MW110_Rise1	10	12.7	–	1.27			
MW114	SDOT Mercer Parcels, NW quadrant	11.4 to 1.4	35 to 45	SM, SP	SES	Slug	MW114_Fall1	10	5.73	–	0.573	0.95	3.3E-04	Cooper, Bredehoeft, and Papadopulos
							MW114_Rise1	10	9.66	–	0.966			
							MW114_Rise2	10	15.29	–	1.53			

Table 8

Hydraulic Conductivity Estimates from Aquifer Tests
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Well ID	Well Location	Well Screen Elevation (feet NAVD88)	Well Screen Depth (feet bgs)	Lithologic Unit in Screen Zone	Performing Consultant	Test Type[a]	Test ID	Assumed Aquifer Thickness (feet)	Transmissivity (feet^2/day)	Storage Coefficient (Unitless)	Hydraulic Conductivity (feet/day)	Geometric Average Hydraulic Conductivity (feet/day)	Geometric Average Hydraulic Conductivity (cm/sec)	Analytical Method
MW115	9th Ave N ROW, W side	-0.5 to -10.5	35 to 45	MH, SM, SP	SES	Slug	MW115_Fall1	10	647	–	64.7	62.2	2.2E-02	Cooper, Bredehoeft, and Papadopulos
							MW115_Fall2	10	591	–	59.1			
							MW115_Rise1	10	734	–	73.4			
							MW115_Rise2	10	533	–	53.3			
MW116	9th Ave N ROW, W side	-3.0 to -13.0	35 to 45	ML	SES	Slug	MW116_Fall1	10	9.82	–	0.983	0.812	2.9E-04	Cooper, Bredehoeft, and Papadopulos
							MW116_Fall2	10	8.45	–	0.845			
							MW116_Rise1	10	7.18	–	0.718			
							MW116_Rise2	10	7.29	–	0.730			
					PES	Pump	MW116_Cooper-Jacob	35	4932	1.03E-03	140.9	–	5.0E-02	Cooper-Jacob
							MW116 Theis	35	1987	2.09E-03	56.8	–	2.0E-02	Theis
							MW116 Leaky Solution	35	2592	1.90E-03	74.1	–	2.6E-02	Hantush-Jacob
MW119	9th Ave N ROW, W side	2.7 to -7.3	35 to 45	SP	PES	Slug	Falling Head 1	–	–	–	7.03	16.52	5.8E-03	Bouwer and Rice
							Falling Head 2	–	–	–	7.68			
							Falling Head 3	–	–	–	7.73			
							Rising Head 1	–	–	–	8.18			
							Rising Head 2	–	–	–	7.24			
							Rising Head 3	–	–	–	8.30			
					PES	Pump	MW119_Cooper-Jacob	35	3681	4.31E-03	105.2	–	3.7E-02	Cooper-Jacob
							MW119 Theis	35	2267	5.95E-03	64.8	–	2.3E-02	Theis
							MW119 Leaky Solution	35	2300	5.67E-03	65.7	–	2.3E-02	Hantush-Jacob
MW-333	900 Roy St, S end	-1.5 to -11.5	23 to 35	SM, ML	PES	Slug	Falling Head 3	–	–	–	0.158	0.1052	3.7E-05	Bouwer and Rice
							Falling Head 4	–	–	–	0.085			
							Rising Head 2	–	–	–	0.110			
							Rising Head 3	–	–	–	0.087			
							Rising Head 4	–	–	–	0.101			
DMW-3IA	615 Dexter, NE quadrant	17.09 to 7.09	39.0 to 49.0	SM, ML	Hart Crowser	Slug	Falling Head 1	–	–	–	0.642	0.622	2.2E-04	Bouwer and Rice
							Falling Head 2	–	–	–	0.707			
							Rising Head 1	–	–	–	0.585			
							Rising Head 2	–	–	–	0.562			
DMW-5IA	Alley S of 615 Dexter	29.68 to 19.68	39.8 to 49.8	SM, SP	Hart Crowser	Slug	Falling Head 1	–	–	–	0.842	0.513	1.8E-04	Bouwer and Rice
							Rising Head 1	–	–	–	0.312			
HMW-2IA	SDOT Mercer Parcels, NE quadrant	10.75 to 0.75	34.8 to 44.8	SM	Hart Crowser	Slug	Falling Head 1	–	–	–	2.26	2.19	7.6E-04	Bouwer and Rice
							Falling Head 2	–	–	–	2.32			
							Falling Head 3	–	–	–	2.22			
							Falling Head 4	–	–	–	2.19			
							Rising Head 1	–	–	–	2.19			
							Rising Head 2	–	–	–	2.06			
							Rising Head 3	–	–	–	2.00			
							Rising Head 4	–	–	–	2.31			
HMW-3IA	SDOT Mercer Parcels, NW quadrant	20 to 10	34.8 to 44.8	SM	Hart Crowser	Slug	Falling Head 1	–	–	–	0.289	0.299	1.0E-04	Bouwer and Rice
							Falling Head 2	–	–	–	0.227			
							Rising Head 1	–	–	–	0.298			
							Rising Head 2	–	–	–	0.408			

Table 8

Hydraulic Conductivity Estimates from Aquifer Tests
American Linen Supply Co Dexter Ave Site
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Well ID	Well Location	Well Screen Elevation (feet NAVD88)	Well Screen Depth (feet bgs)	Lithologic Unit in Screen Zone	Performing Consultant	Test Type[a]	Test ID	Assumed Aquifer Thickness (feet)	Transmissivity (feet^2/day)	Storage Coefficient (Unitless)	Hydraulic Conductivity (feet/day)	Geometric Average Hydraulic Conductivity (feet/day)	Geometric Average Hydraulic Conductivity (cm/sec)	Analytical Method
HMW-6IA	SDOT Mercer Parcels, SW quadrant	21.15 to 11.15	37.5 to 47.5	SM, ML	Hart Crowser	Slug	Falling Head 1	–	–	–	20.1	8.09	2.8E-03	Bouwer and Rice
							Falling Head 2	–	–	–	11.1			
							Falling Head 3	–	–	–	13.0			
							Rising Head 1	–	–	–	3.76			
							Rising Head 2	–	–	–	5.15			
							Rising Head 3	–	–	–	5.01			
HMW-9IA	SDOT Mercer Parcels, SW quadrant	18.56 to 8.56	36.7 to 46.7	SM	Hart Crowser	Slug	Falling Head 1	–	–	–	1.52	1.67	5.8E-04	Bouwer and Rice
							Falling Head 2	–	–	–	1.53			
							Falling Head 3	–	–	–	1.63			
							Rising Head 1	–	–	–	1.81			
							Rising Head 2	–	–	–	1.75			
							Rising Head 3	–	–	–	1.82			
Intermediate B Zone														
MW111	Alley E of Seattle Roy Aloha Shops	-33.2 to -43.2	70 to 80	GM	SES	Slug	MW111_Fall1	10	5.06	–	0.506	0.506	1.8E-04	Cooper, Bredehoeft, and Papadopulos
MW-311	Alley E of Seattle Roy Aloha Shops	-29.0 to -39.0	62.2 to 72.2	SM, ML	PES	Slug	Falling Head 1	–	–	–	0.066	0.043	1.5E-05	Bouwer and Rice
							Falling Head 2	–	–	–	0.078			
							Falling Head 3	–	–	–	0.062			
							Rising Head 1	–	–	–	0.018			
							Rising Head 2	–	–	–	0.043			
							Rising Head 3	–	–	–	0.024			
MW-335	Mercer St ROW, N side	-25.6 to -35.6	60.8 to 70.8	SM	PES	Slug	Falling Head 1	–	–	–	8.38	8.26	2.9E-03	Bouwer and Rice
							Falling Head 2	–	–	–	8.07			
							Falling Head 3	–	–	–	8.23			
							Rising Head 1	–	–	–	8.17			
							Rising Head 2	–	–	–	8.34			
							Rising Head 3	–	–	–	8.41			
MW-338	Lake Union Park, N end	-16.6 to -26.6	44.4 o 54.4	ML	PES	Slug	Falling Head 2	–	–	–	0.034	0.028	9.7E-06	Bouwer and Rice
							Falling Head 3	–	–	–	0.027			
							Falling Head 4	–	–	–	0.025			
							Rising Head 2	–	–	–	0.027			
							Rising Head 3	–	–	–	0.026			
							Rising Head 4	–	–	–	0.029			
W-MW-01	8th Ave N ROW, W side	-24.6 to -34.6	70 to 80	ML/SM	SES	Slug	WMW01_Fall1	10	0.1568	–	0.016	0.020	7.1E-06	Cooper, Bredehoeft, and Papadopulos
							WMW01_Rise1	10	0.2670	–	0.027			
W-MW-02	8th Ave N ROW, W side	-26.3 to -36.3	70 to 80	ML	SES	Slug	WMW02_Fall2	10	6.25	–	0.625	0.580	2.0E-04	Cooper, Bredehoeft, and Papadopulos
							WMW02_Rise2	10	5.37	–	0.537			
HMW-1IB	SDOT Mercer Parcels, NE quadrant	-15.9 to -25.9	54.3 to 64.3	SP	Hart Crowser	Slug	Falling Head 1	–	–	–	2.0	1.95	6.9E-04	Bouwer and Rice
							Rising Head 1	–	–	–	1.9			
HMW-2IB	SDOT Mercer Parcels, NE quadrant	-5.57 to -15.57	52.8 to 62.8	ML	Hart Crowser	Slug	Falling Head 1	–	–	–	1.4	1.40	4.9E-04	Bouwer and Rice
							Rising Head 1	–	–	–	1.4			
HMW-4IA	SDOT Mercer Parcels, SW quadrant	8.70 to -1.30	50 to 60	SM	Hart Crowser	Slug	Falling Head 1	–	–	–	0.6	0.600	2.1E-04	Bouwer and Rice
							Falling Head 2	–	–	–	0.9			
							Rising Head 1	–	–	–	0.4			

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Well ID	Well Location	Well Screen Elevation (feet NAVD88)	Well Screen Depth (feet bgs)	Lithologic Unit in Screen Zone	Performing Consultant	Test Type[a]	Test ID	Assumed Aquifer Thickness (feet)	Transmissivity (feet^2/day)	Storage Coefficient (Unitless)	Hydraulic Conductivity (feet/day)	Geometric Average Hydraulic Conductivity (feet/day)	Geometric Average Hydraulic Conductivity (cm/sec)	Analytical Method
HMW-5IB	SDOT Mercer Parcels, SW quadrant	20 to 10	8.74 to -1.26	SM	Hart Crowser	Slug	Falling Head 1	–	–	–	0.244	0.258	9.0E-05	Bouwer and Rice
							Falling Head 2	–	–	–	0.277			
							Rising Head 1	–	–	–	0.306			
							Rising Head 2	–	–	–	0.215			
							Falling Head 1	10	5.2	1.00E-10	0.5	0.266	9.3E-05	Cooper, Bredehoeft, and Papadopulos
							Falling Head 2	10	4.6	4.50E-09	0.5			
							Rising Head 1	10	1.1	1.00E-10	0.1			
							Rising Head 2	10	2.3	1.00E-04	0.2			
HMW-6IB	SDOT Mercer Parcels, SW quadrant	50 to 60	8.67 to -1.33	SM	Hart Crowser	Slug	Falling Head 1	–	–	–	1.06	1.03	3.6E-04	Bouwer and Rice
							Falling Head 2	–	–	–	1.39			
							Falling Head 3	–	–	–	1.00			
							Rising Head 1	–	–	–	1.13			
							Rising Head 2	–	–	–	0.883			
							Rising Head 3	–	–	–	0.809			
							Falling Head 1	10	11.7	3.3E-03	1.2	0.85	3.0E-04	Cooper, Bredehoeft, and Papadopulos
							Falling Head 2	10	5.8	1.0E-01	0.6			
							Falling Head 3	10	9.4	3.6E-02	0.9			
							Rising Head 1	10	8.1	3.6E-02	0.8			
							Rising Head 2	10	9.1	1.0E-02	0.9			
							Rising Head 3	10	8.2	4.6E-02	0.8			
HMW-7IB	SDOT Mercer Parcels, SW quadrant	49.7 to 59.7	8.98 to -1.01	SM	Hart Crowser	Slug	Falling Head 1	–	–	–	2.38	1.05	3.7E-04	Bouwer and Rice
							Falling Head 2	–	–	–	0.912			
							Falling Head 3	–	–	–	0.775			
							Rising Head 1	–	–	–	0.788			
							Rising Head 2	–	–	–	0.967			
							Falling Head 1	10	14.7	2.7E-03	1.5	0.46	1.6E-04	Cooper, Bredehoeft, and Papadopulos
							Falling Head 2	10	2.6	1.0E-02	0.3			
							Falling Head 3	10	3.2	2.7E-02	0.3			
							Rising Head 1	10	5.3	2.5E-03	0.5			
							Rising Head 2	10	2.9	5.4E-02	0.3			
HMW-8IB	SDOT Mercer Parcels, SW quadrant	50.5 to 60.5	7.47 to -2.53	ML, SM	Hart Crowser	Slug	Falling Head 1	–	–	–	0.446	0.502	1.8E-04	Bouwer and Rice
							Falling Head 2	–	–	–	0.450			
							Rising Head 1	–	–	–	0.514			
							Rising Head 2	–	–	–	0.618			
							Falling Head 1	10	4.1	2.7E-04	0.4	0.346	1.2E-04	Cooper, Bredehoeft, and Papadopulos
							Falling Head 2	10	3.3	3.4E-04	0.3			
							Rising Head 1	10	1.8	1.0E-02	0.2			
							Rising Head 2	10	5.5	7.2E-05	0.6			
HMW-9IB	SDOT Mercer Parcels, SW quadrant	57 to 67	-1.64 to -11.64	SM, ML	Hart Crowser	Slug	Falling Head 1	–	–	–	0.112	0.115	4.0E-05	Bouwer and Rice
							Falling Head 2	–	–	–	0.116			
							Rising Head 1	–	–	–	0.117			
							Rising Head 2	–	–	–	0.117			
							Falling Head 1	10	4.6	1.0E-12	0.5	0.211	7.4E-05	Cooper, Bredehoeft, and Papadopulos
							Falling Head 2	10	3.8	1.3E-11	0.4			
							Rising Head 1	10	1.1	1.0E-04	0.1			
							Rising Head 2	10	0.9	1.0E-03	0.1			

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Well ID	Well Location	Well Screen Elevation (feet NAVD88)	Well Screen Depth (feet bgs)	Lithologic Unit in Screen Zone	Performing Consultant	Test Type[a]	Test ID	Assumed Aquifer Thickness (feet)	Transmissivity (feet^2/day)	Storage Coefficient (Unitless)	Hydraulic Conductivity (feet/day)	Geometric Average Hydraulic Conductivity (feet/day)	Geometric Average Hydraulic Conductivity (cm/sec)	Analytical Method
HMW-11IB	SDOT Mercer Parcels, SE quadrant	44.9 to 54.9	-5.17 to -15.17	SP, GM	Hart Crowser	Slug	Falling Head 1	–	–	–	1.77	1.68	5.8E-04	Bouwer and Rice
							Falling Head 2	–	–	–	1.59			
							Rising Head 1	–	–	–	1.67			
							Rising Head 2	–	–	–	1.68			
							Falling Head 1	10	44.7	1.0E-08	4.5	4.44	1.5E-03	Cooper, Bredehoeft, and Papadopulos
							Falling Head 2	10	42.3	1.0E-08	4.2			
							Rising Head 1	10	41.5	1.6E-07	4.1			
							Rising Head 2	10	50.1	1.7E-09	5.0			
Deep Zone														
MW104	8th Ave N ROW, W side	-76 to -86	119 to 129	SP	SES	Slug	MW104_Fall1	10	459	–	46.0	45.5	1.6E-02	Cooper, Bredehoeft, and Papadopulos
							MW104_Fall2	10	421	–	42.1			
							MW104_Rise1	10	479	–	47.9			
							MW104_Rise2	10	464	–	46.4			
MW105	ROY St ROW, S side	-85.0 to -95.0	130 to 140	SP	SES	Slug	MW105_Fall3	10	41.2	–	4.12	4.34	1.5E-03	Cooper, Bredehoeft, and Papadopulos
							MW105_Rise3	10	45.7	–	4.57			
					PES	Pump	MW105	54	4997	7.2E-04	92.53	–	3.3E-02	Cooper-Jacob
							MW105 Theis	54	2546	1.4E-03	47.15	–	1.7E-02	Theis
							MW105 Leaky Solution	54	2261	1.3E-03	41.87	–	1.5E-02	Hantush-Jacob
MW113	9th Ave N ROW, W side	-36.8 to -46.8	70 to 80	Unknown	SES	Slug	MW113_Fall1	10	505	–	50.5	49.0	1.7E-02	Cooper, Bredehoeft, and Papadopulos
							MW113_Fall2	10	221	–	22.1			
							MW113_Rise1	10	749	–	74.9			
							MW113_Rise2	10	691	–	69.1			
					PES	Pump	MW113	54	4536	6.6.E-04	84.0	–	3.0E-02	Cooper-Jacob
							MW113 Theis	54	2527	1.6.E-03	46.8	–	1.7E-02	Theis
							MW113 Leaky Solution	54	1526	1.6.E-03	28.3	–	1.0E-02	Hantush-Jacob
MW122	Alley E of Seattle Roy Aloha Shops	-75 to -85	105 to 115	Unknown	PES	Pump	MW122	54	5047	4.1.E-04	93.5	–	3.3E-02	Cooper-Jacob
							MW122 Theis	54	2200	9.4.E-04	40.8	–	1.4E-02	Theis
							MW122 Leaky Solution	54	2123	9.1.E-04	39.3	–	1.4E-02	Hantush-Jacob
MW-323	9th Ave N ROW, W side	-65.4 to -75.4	100 to 110	SM, GM, GP	PES	Slug	Falling Head 1	–	–	–	15.5	17.5	6.1E-03	Bouwer and Rice
							Falling Head 2	–	–	–	16.3			
							Rising Head 1	–	–	–	18.6			
							Rising Head 3	–	–	–	17.6			
							Rising Head 4	–	–	–	20.2			
MW-328	Lake Union Park, S end	-36.1 to -46.1	64.5 to 74.5	SP	PES	Slug	Falling Head 4	–	–	–	44.2	36.9	1.3E-02	Bouwer and Rice
							Rising Head 1	–	–	–	35.3			
							Rising Head 3	–	–	–	37.0			
							Rising Head 4	–	–	–	34.0			
							Rising Head 5	–	–	–	34.9			
MW-319	9th Ave N ROW, W side	-42.8 to -52.8	74.5 to 84.5	SM	PES	Slug	Falling Head 1	–	–	–	4.90	4.9	1.7E-03	Bouwer and Rice
							Falling Head 3	–	–	–	5.10			
							Falling Head 4	–	–	–	5.07			
							Falling Head 5	–	–	–	4.86			
							Rising Head 3	–	–	–	4.62			
							Rising Head 4	–	–	–	4.85			
							Rising Head 5	–	–	–	4.73			

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MW-336	Mercer St ROW, N side	-51.6 to -61.6	85.3 to 95.3	SP, SM	PES	Slug	Falling Head 2	–	–	–	2.41	2.3	7.8E-04	Bouwer and Rice
							Falling Head 3	–	–	–	2.24			
							Falling Head 4	–	–	–	2.36			
							Rising Head 2	–	–	–	2.21			
							Rising Head 3	–	–	–	2.17			
							Rising Head 4	–	–	–	2.14			
MW-343	Valley St ROW, S side	-71.5 to -81.5	99 to 109	SP	PES	Slug	Falling Head 1	–	–	–	11.0	10.6	3.7E-03	Bouwer and Rice
							Falling Head 2	–	–	–	9.89			
							Falling Head 4	–	–	–	10.8			
							Rising Head 2	–	–	–	10.5			
							Rising Head 3	–	–	–	10.8			
							Rising Head 4	–	–	–	10.9			
HMW-1D	SDOT Mercer Parcels, NE quadrant	-42 to -52	80 to 90	SP	Hart Crowser	Slug	Falling Head 1	–	–	–	4.0	4.24	1.5E-03	Bouwer and Rice
							Rising Head 1	–	–	–	4.5			
HMW-2D	SDOT Mercer Parcels, NE quadrant	-32.66 to -42.66	80 to 90	SP	Hart Crowser	Slug	Falling Head 1	–	–	–	0.176	0.182	6.4E-05	Bouwer and Rice
							Rising Head 1	–	–	–	0.189			
							Falling Head 1	10	2.7	6.8E-07	0.3	0.077	2.7E-05	Cooper, Bredehoeft, and Papadopulos
							Rising Head 1	10	0.2	4.4E-02	0.02			
HMW-3D	SDOT Mercer Parcels, NW quadrant	-23.44 to -33.44	80 to 90	SP	Hart Crowser	Slug	Falling Head 1	–	–	–	0.101	0.126	4.4E-05	Bouwer and Rice
							Rising Head 1	–	–	–	0.157			
							Falling Head 1	10	2.2	1.0E-12	0.2	0.045	1.6E-05	Cooper, Bredehoeft, and Papadopulos
							Rising Head 1	10	0.1	1.0E-05	0.01			
HMW-6D	SDOT Mercer Parcels, SW quadrant	-21.12 to -31.12	79.7 to 89.7	SM	Hart Crowser	Slug	Falling Head 1	–	–	–	0.792	0.831	2.9E-04	Bouwer and Rice
							Falling Head 2	–	–	–	0.814			
							Falling Head 3	–	–	–	0.873			
							Falling Head 4	–	–	–	0.792			
							Rising Head 1	–	–	–	0.857			
							Rising Head 2	–	–	–	0.931			
							Rising Head 3	–	–	–	0.822			
							Rising Head 4	–	–	–	0.777			
							Falling Head 1	10	9.9	6.5E-04	1.0	0.695	2.4E-04	Cooper, Bredehoeft, and Papadopulos
							Falling Head 2	10	9.2	4.0E-04	0.9			
							Falling Head 3	10	7	3.8E-03	0.7			
							Falling Head 4	10	5.5	1.0E-02	0.5			
							Rising Head 1	10	7.7	3.5E-03	0.8			
							Rising Head 2	10	6.3	8.5E-04	0.6			
							Rising Head 3	10	6.5	6.6E-03	0.6			
							Rising Head 4	10	5.9	1.0E-02	0.6			
HMW-9D	SDOT Mercer Parcels, SW quadrant	-24.38 to -34.38	79.7 to 89.7	SM	Hart Crowser	Slug	Falling Head 1	–	–	–	0.550	0.574	2.0E-04	Bouwer and Rice
							Falling Head 2	–	–	–	0.556			
							Rising Head 1	–	–	–	0.611			
							Rising Head 2	–	–	–	0.583			
							Falling Head 1	10	3.2	5.6E-03	0.3	0.206	7.2E-05	Cooper, Bredehoeft, and Papadopulos
							Falling Head 2	10	3	6.0E-03	0.3			
							Rising Head 1	10	1.4	4.3E-02	0.1			
							Rising Head 2	10	2.4	7.4E-03	0.2			

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HMW-10D	SDOT Mercer Parcels, SE quadrant	-30.84 to -40.84	79.0 to 89.0	GM, CH	Hart Crowser	Slug	Falling Head 1	–	–	–	1.01	1.07	3.7E-04	Bouwer and Rice
							Falling Head 2	–	–	–	1.13			
							Falling Head 3	–	–	–	0.96			
							Rising Head 1	–	–	–	1.11			
							Rising Head 2	–	–	–	1.27			
							Rising Head 3	–	–	–	0.99			
							Falling Head 1	10	6.5	5.0E-03	0.6	0.45	1.6E-04	Cooper, Bredehoeft, and Papadopulos
							Falling Head 2	10	5.8	6.4E-03	0.6			
							Falling Head 3	10	5.6	7.5E-03	0.6			
							Rising Head 1	10	3.8	4.4E-02	0.4			
							Rising Head 2	10	2.7	1.3E-01	0.3			
							Rising Head 3	10	3.1	9.3E-02	0.3			

Notes:

Elevations in feet relative to the North American Vertical Datum of 1988 (NAVD 88).

Cooper, Bredehoeft, and Papadopulos (1967) method calculates hydraulic conductivity using the well screen length (10 feet) for aquifer thickness.

PES slug tests analyzed via Bouwer and Rice (1976), Hyder et al. (1994), and Hvorslev (1951) methods; Only Bouwer and Rice solutions shown.

bgs = below ground surface; feet^2/day = square feet per day; cm/sec = centimeters per second.

Hydraulic conductivity = transmissivity/aquifer thickness.

GP= gravel, GM = silty gravel, MH = plastic silt, ML = silt or sandy silt, SP = sand, and SM = silty sand, CH= Fat Clay; unknown where lack of recovery or no boring log available.

[a] "Pump test" conducted via drawdown analysis on transducer data coincident with start up of Block 37 dewatering system.

Pump Test Analytical Methods: Cooper-Jacob (1946), Theis (1935), and Hantush and Jacob (1955).

Table 9

Summary of Groundwater and Surface Water Elevations: 2017 to 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Well	Location	Screen Elevation	Unpumped Conditions					Pumped Conditions				
			Depth to Water		Elevation			Depth to Water		Elevation		
			Max	Min	Max	Min	Range	Max	Min	Max	Min	Range
Shallow Zone												
DMW-1S	615 Dexter, SE quadrant	36.0 to 26.0	22.27	20.88	34.88	33.49	1.39	25.40	21.41	34.35	30.36	3.99
DMW-2S	615 Dexter, SE quadrant	30.7 to 20.7	–	–	–	–	–	25.69	21.53	34.21	30.05	4.16
DMW-4S	Alley S of 615 Dexter	38.5 to 28.5	–	–	–	–	–	23.28	22.28	40.06	38.26	1.80
DMW-5IA	Alley S of 615 Dexter	29.4 to 19.4	–	–	–	–	–	41.95	38.25	30.90	27.20	3.70
DMW-6	615 Dexter, NE quadrant	32.1 to 22.1	–	–	–	–	–	30.84	28.30	37.78	35.24	2.54
FMW-132	Block 38 West, N end	20.7 to 15.7	7.44	6.80	18.68	18.04	0.64	–	–	–	–	–
FMW-133	Block 38 West, N end	18.8 to 13.8	6.86	6.21	18.66	18.01	0.65	–	–	–	–	–
FMW-134	Block 38 West, S end	13.4 to 8.4	8.66	7.51	17.47	16.32	1.15	–	–	–	–	–
FMW-135	Block 38 West, N end	18.6 to 13.6	7.14	6.78	18.51	18.15	0.36	–	–	–	–	–
FMW-143	9th Ave N ROW, E side	10 to 5	–	–	–	–	–	21.19	14.88	17.81	11.50	6.31
HMW-1S	SDOT Mercer Parcels, NE quadrant	15.8 to 5.8	19.43	16.11	19.66	16.34	3.32	26.44	18.89	16.88	9.33	7.55
HMW-2S	SDOT Mercer Parcels, NE quadrant	27.5 to 17.5	24.21	21.68	25.64	23.11	2.53	26.61	21.95	25.37	20.71	4.66
HMW-9S	SDOT Mercer Parcels, SW quadrant	30.4 to 20.4	–	–	–	–	–	33.94	31.78	26.76	24.60	2.16
HMW-10S	SDOT Mercer Parcels, SE quadrant	23.5 to 13.5	–	–	–	–	–	28.12	23.91	27.18	22.97	4.21
HMW-11S	SDOT Mercer Parcels, SE quadrant	16.5 to 6.5	–	–	–	–	–	37.80	32.53	12.24	6.97	5.27
MW121	8th Ave N ROW, E side	26.7 to 16.7	17.95	10.86	30.86	23.77	7.09	24.40	11.61	30.11	17.32	12.79
MW125	Valley St ROW, N side	28.6 to 13.6	18.30	14.40	29.15	25.25	3.90	27.85	18.07	25.48	15.70	9.78
MW-154	Roy St ROW, S side	28.1 to 18.1	27.03	20.81	31.76	25.54	6.22	30.16	22.04	30.53	22.41	8.12
MW-155	Roy St ROW, S side	24.4 to 14.4	20.94	16.80	27.25	23.11	4.14	25.17	20.38	23.67	18.88	4.79
MW-159	8th Ave N ROW, E side	22.9 to 12.9	20.55	14.70	28.09	22.24	5.85	29.35	18.91	23.88	13.44	10.44
MW-210	Valley St ROW, N side	17.1 to 7.1	17.75	8.22	18.35	8.82	9.53	12.71	8.62	17.95	13.86	4.09
MW-214	Valley St ROW, S side	20.8 to 10.8	9.35	6.84	20.48	17.97	2.51	16.45	9.54	17.78	10.87	6.91
MW-301	Valley St ROW, S side	35.6 to 25.6	–	–	–	–	–	22.26	19.90	33.64	31.28	2.36
MW-305	Roy St ROW, S side	37.4 to 27.4	–	–	–	–	–	28.23	21.23	38.63	31.63	7.00
MW-310	Alley E of Seattle Roy Aloha Shops	19.2 to 9.2	–	–	–	–	–	20.56	13.67	18.81	11.92	6.89
MW-312	Alley E of Seattle Roy Aloha Shops	19.9 to 9.9	–	–	–	–	–	23.94	14.94	20.05	11.05	9.00
MW-313	Alley E of Seattle Roy Aloha Shops	20.4 to 10.4	–	–	–	–	–	25.13	22.34	17.19	14.40	2.79
MW-320	9th Ave N ROW, W side	18.6 to 8.6	–	–	–	–	–	22.20	15.45	18.12	11.37	6.75
MW-332	Roy St ROW, N side	15.4 to 5.4	–	–	–	–	–	26.07	21.05	14.67	9.65	5.02

Table 9

Summary of Groundwater and Surface Water Elevations: 2017 to 2021
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700 Dexter Avenue North, Seattle, Washington

Well	Location	Screen Elevation	Unpumped Conditions					Pumped Conditions				
			Depth to Water		Elevation			Depth to Water		Elevation		
			Max	Min	Max	Min	Range	Max	Min	Max	Min	Range
MW-337	Lake Union Park, N end	17.8 to 7.8	–	–	–	–	–	10.30	9.12	18.39	17.21	1.18
MW-339	Lake Union Park, S end	18.0 to 8.0	–	–	–	–	–	10.74	9.95	18.11	17.32	0.79
MW-8	Seattle Roy Aloha Shops, N end	28.7 to 14.2	13.66	10.42	22.77	19.53	3.24	18.95	12.15	21.04	14.24	6.80
MW-9	8th Ave N ROW, E side	34.1 to 19.1	15.80	13.32	27.49	24.94	2.55	21.80	15.60	25.21	19.01	6.20
R-MW5	Dexter Ave N ROW, E side	42.4 to 27.4	25.25	17.92	39.11	31.78	7.33	27.46	19.54	37.47	29.55	7.92
R-MW6	8th Ave N ROW, W side	33.3 to 23.3	16.41	11.49	33.79	28.87	4.92	21.31	12.30	32.98	23.97	9.01
SCL-MW101	Alley E of Seattle Roy Aloha Shops	25.5 to 15.5	9.60	7.00	23.46	20.42	3.04	13.95	7.87	22.15	16.07	6.08
SCL-MW105	Alley E of Seattle Roy Aloha Shops	11.1 to 1.1	11.95	7.97	23.29	18.82	4.47	23.47	10.42	20.35	7.79	12.56
SCS-2	Seattle Roy Aloha Shops, N end	28.2 to 18.2	18.68	15.65	23.51	20.48	3.03	20.18	18.28	20.88	18.98	1.90
Intermediate A Zone												
BB-8	Roy St ROW, S side	14.0 to 4.0	20.41	13.21	30.48	23.28	7.20	27.60	15.33	28.31	16.04	12.27
DMW-3IA	615 Dexter, NE quadrant	16.8 to 6.8	–	–	–	–	–	26.68	22.90	32.94	29.16	3.78
HC-4								32.21	31.50	28.50	27.79	0.71
FMW-136	Block 38 West, S end	-4.9 to -14.9	8.10	7.41	17.38	16.69	0.69	–	–	–	–	–
FMW-142	9th Ave N ROW, E side	-4.6 to -9.6	–	–	–	–	–	22.86	15.50	17.02	9.66	7.36
GEI-1	Block 37, SW quadrant	1.2 to -8.9	10.98	8.63	19.32	16.97	2.35	21.91	10.62	17.33	6.04	11.29
GEI-MW-1	Block 79 East, N end	-9.7 to -29.7	–	–	–	–	–	18.97	15.82	14.48	11.33	3.15
HMW-2IA	SDOT Mercer Parcels, NE quadrant	12.8 to 2.8	24.28	18.61	28.95	23.28	5.67	28.86	19.55	28.01	18.70	9.31
HMW-3IA	SDOT Mercer Parcels, NW quadrant	20.0 to 10.0	28.11	23.71	31.07	26.67	4.40	30.82	24.59	30.19	23.96	6.23
HMW-6IA	SDOT Mercer Parcels, SW quadrant	21.2 to 11.2	–	–	–	–	–	36.05	33.25	28.02	25.22	2.80
HMW-9IA	SDOT Mercer Parcels, SW quadrant	18.6 to 8.6	–	–	–	–	–	34.95	30.89	27.32	23.26	4.06
MW107	8th Ave N ROW, W side	8.8 to -1.2	21.75	11.80	32.02	22.07	9.95	35.69	14.12	29.70	8.13	21.57
MW108	Alley E of Seattle Roy Aloha Shops	-7.2 to -17.2	15.50	12.53	20.25	17.28	2.97	29.02	15.92	16.86	3.76	13.10
MW109	Alley E of Seattle Roy Aloha Shops	-0.0 to -10.0	18.14	15.00	19.97	16.73	3.24	32.17	18.14	16.83	2.80	14.03
MW110	Alley E of Seattle Roy Aloha Shops	4.7 to -5.3	23.00	18.95	20.72	16.67	4.05	36.46	22.65	17.02	3.21	13.81
MW115	9th Ave N ROW, W side	-0.6 to -10.6	18.00	14.70	19.40	16.10	3.30	32.58	17.34	16.76	1.52	15.24
MW116	9th Ave N ROW, W side	-3.1 to -13.1	14.66	11.95	19.39	16.68	2.71	28.26	13.30	18.04	3.08	14.96
MW119	9th Ave N ROW, W side	2.7 to -7.3	21.75	17.40	20.02	15.67	4.35	39.94	20.44	16.98	-2.52	19.50
MW120	8th Ave N ROW, E side	0.0 to -10.0	18.34	15.24	24.76	21.60	3.16	26.99	19.30	20.64	13.01	7.63
MW127	8th Ave N ROW, E side	-1 to -11	18.10	17.76	21.28	20.94	0.34	24.08	19.31	19.73	14.96	4.77

Table 9

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700 Dexter Avenue North, Seattle, Washington

Well	Location	Screen Elevation	Unpumped Conditions					Pumped Conditions				
			Depth to Water		Elevation			Depth to Water		Elevation		
			Max	Min	Max	Min	Range	Max	Min	Max	Min	Range
MW-142	8th Ave N ROW, E side	2.4 to -7.6	20.13	15.42	26.70	21.99	4.71	32.26	19.42	22.70	9.86	12.84
MW-144	8th Ave N ROW, E side	3.9 to -6.1	15.73	14.07	29.43	27.77	1.66	–	–	–	–	–
MW-144R	8th Ave N ROW, E side	2.8 to -7.3	–	–	–	–	–	31.36	18.53	23.93	11.10	12.83
MW-146	Roy St ROW, S side	12.9 to 2.9	30.16	19.89	32.45	22.18	10.27	34.35	22.24	30.10	17.99	12.11
MW-156	8th Ave N ROW, E side	2.0 to -8.0	19.32	15.06	26.18	21.92	4.26	30.58	19.25	21.99	10.66	11.33
MW-189	Valley St ROW, S side	-1.2 to -11.2	–	–	–	–	–	35.56	20.61	26.72	11.77	14.95
MW-302	Dexter Ave N ROW, E side	3.0 to -7.0	–	–	–	–	–	46.52	24.61	32.42	10.51	21.91
MW-306	Roy St ROW, S side	17.2 to 7.2	–	–	–	–	–	30.42	26.39	33.09	29.06	4.03
MW-308	Alley E of Seattle Roy Aloha Shops	-4.7 to -14.7	–	–	–	–	–	19.06	13.07	17.08	11.09	5.99
MW-315	Mercer St ROW, N side	12.2 to 2.2	–	–	–	–	–	28.65	22.31	26.87	20.53	6.34
MW-317	9th Ave N ROW, W side	3.4 to -6.6	–	–	–	–	–	19.65	13.86	17.49	11.70	5.79
MW-325	Mercer St ROW, N side	7.0 to -3.0	–	–	–	–	–	34.33	23.69	17.21	6.57	10.64
MW-327	Lake Union Park, S end	3.6 to -6.3	–	–	–	–	–	13.83	10.06	18.09	14.32	3.77
MW-330	Valley St ROW, N side	-0.4 to -10.4	–	–	–	–	–	34.98	22.27	29.40	16.69	12.71
MW-331	Alley E of Seattle Roy Aloha Shops	-5.2 to -15.2	–	–	–	–	–	17.32	14.07	18.34	13.11	5.23
MW-333	900 Roy St, S end	-2.1 to -12.1	–	–	–	–	–	20.65	17.12	13.98	10.45	3.53
Intermediate B Zone												
FMW-130	Block 38 West, S end	-22.8 to -32.8	5.14	4.42	17.44	16.72	0.72	–	–	–	–	–
FMW-141	Alley E of Seattle Roy Aloha Shops	-12.1 to -22.1	–	–	–	–	–	26.65	18.31	16.84	8.50	8.34
HMW-1IB	SDOT Mercer Parcels, NE quadrant	-15.9 to -25.9	22.60	19.22	19.20	15.82	3.38	30.57	20.25	18.17	7.85	10.32
HMW-2IB	SDOT Mercer Parcels, NE quadrant	-5.6 to -15.6	31.03	27.32	19.91	16.20	3.71	38.41	30.51	16.72	8.82	7.90
HMW-4IA	SDOT Mercer Parcels, SW quadrant	8.8 to -1.2	33.10	29.50	29.03	25.43	3.60	35.08	30.68	27.85	23.45	4.40
HMW-5IB	SDOT Mercer Parcels, SW quadrant	8.7 to - 1.3	–	–	–	–	–	35.72	31.47	29.52	25.27	4.25
HMW-6IB	SDOT Mercer Parcels, SW quadrant	8.7 to -1.3	–	–	–	–	–	36.06	33.86	27.75	25.55	2.20
HMW-7IB	SDOT Mercer Parcels, SW quadrant	9.0 to -1	–	–	–	–	–	36.87	34.54	26.84	24.51	2.33
HMW-8IB	SDOT Mercer Parcels, SW quadrant	7.5 to -2.5	–	–	–	–	–	37.62	33.26	27.52	23.16	4.36
HMW-9IB	SDOT Mercer Parcels, SW quadrant	-1.6 to -11.6	–	–	–	–	–	37.60	29.99	27.90	20.29	7.61
HMW-11IB	SDOT Mercer Parcels, SE quadrant	-5.2 to -15.2	–	–	–	–	–	35.81	30.61	12.30	7.10	5.20
HMW-15IB	SDOT Mercer Parcels, SW quadrant	-5.1 to -14.1	–	–	–	–	–	41.03	39.61	18.72	17.30	1.42
HMW-16IB	SDOT Mercer Parcels, NW quadrant	2.0 to -8.0	–	–	–	–	–	34.59	33.08	23.72	22.21	1.51

Table 9

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700 Dexter Avenue North, Seattle, Washington

Well	Location	Screen Elevation	Unpumped Conditions					Pumped Conditions				
			Depth to Water		Elevation			Depth to Water		Elevation		
			Max	Min	Max	Min	Range	Max	Min	Max	Min	Range
MW111	Alley E of Seattle Roy Aloha Shops	-33.5 to -43.5	19.96	16.82	19.66	16.42	3.24	33.74	19.57	16.91	2.74	14.17
MW112	Dexter Ave N ROW, W side	-17.2 to -27.2	37.61	34.71	22.74	19.86	2.88	42.60	38.03	19.44	14.87	4.57
MW126	Alley E of Seattle Roy Aloha Shops	-54.1 to -64.1	14.75	12.62	18.32	16.19	2.13	24.98	14.09	16.85	5.96	10.89
MW-143	8th Ave N ROW, E side	-27.7 to -36.6	21.82	18.29	23.75	20.22	3.53	31.36	22.75	19.29	10.68	8.61
MW-145	8th Ave N ROW, E side	-26.1 to -36.1	26.55	20.62	22.84	16.91	5.93	–	–	–	–	–
MW-145R	8th Ave N ROW, E side	-27.5 to -37.5	–	–	–	–	–	30.59	23.83	18.17	11.41	6.76
MW-147	Roy St ROW, S side	-17.6 to -27.6	31.53	25.65	26.20	20.32	5.88	38.56	27.75	24.10	13.29	10.81
MW-148	Roy St ROW, S side	-25.7 to -35.7	25.21	24.21	19.70	18.70	1.00	34.50	26.92	16.99	9.41	7.58
MW-157	8th Ave N ROW, E side	-28.3 to -38.2	18.86	14.00	27.22	22.36	4.86	31.11	22.43	18.79	10.11	8.68
MW-190	Valley St ROW, S side	-30.2 to -40.2	–	–	–	–	–	35.32	24.36	24.03	13.07	10.96
MW-303	Dexter Ave N ROW, E side	-13.8 to -23.8	–	–	–	–	–	44.60	36.39	20.89	12.68	8.21
MW-307	Roy St ROW, S side	-12.4 to -22.4	–	–	–	–	–	44.69	41.55	18.66	15.52	3.14
MW-309	Alley E of Seattle Roy Aloha Shops	-32.0 to -42.0	–	–	–	–	–	18.81	12.91	17.06	11.16	5.90
MW-311	Alley E of Seattle Roy Aloha Shops	-29.0 to -39.0	–	–	–	–	–	22.76	16.45	16.53	10.22	6.31
MW-314	Alley E of Seattle Roy Aloha Shops	-28.0 to -38.0	–	–	–	–	–	30.49	22.34	16.85	8.70	8.15
MW-316	Mercer St ROW, N side	-10.0 to -20.0	–	–	–	–	–	39.78	31.72	17.72	9.66	8.06
MW-318	9th Ave N ROW, W side	-23.1 to -33.1	–	–	–	–	–	21.27	14.56	16.80	10.09	6.71
MW-322	9th Ave N ROW, W side	-21.2 to -31.2	–	–	–	–	–	23.70	16.41	16.72	9.43	7.29
MW-334	900 Roy St, S end	-21.9 to -31.9	–	–	–	–	–	22.41	18.38	12.84	8.81	4.03
MW-335	Mercer St ROW, N side	-26.5 to -36.5	–	–	–	–	–	29.85	23.75	10.51	4.41	6.10
MW-338	Lake Union Park, N end	-17.0 to -27.0	–	–	–	–	–	15.92	13.24	14.14	11.46	2.68
MW-340	Lake Union Park, S end	-16.4 to 26.4	–	–	–	–	–	17.65	14.54	13.48	10.37	3.11
W-MW-01	8th Ave N ROW, W side	-25.1 to -35.1	25.65	21.02	23.86	19.23	4.63	31.50	24.80	20.08	13.38	6.70
W-MW-02	8th Ave N ROW, W side	-26.3 to -36.5	21.71	14.97	28.49	21.75	6.74	34.15	18.18	25.28	9.31	15.97
Deep Zone												
FMW-129	SDOT Mercer Parcels, NE quadrant	-45.6 to -50.6	20.34	19.56	18.75	17.97	0.78	34.90	21.54	16.77	3.41	13.36
FMW-131	Block 37, SE quadrant	-34.7 to -44.7	13.98	9.56	18.29	13.87	4.42	32.94	12.21	15.64	-5.09	20.73
FMW-137	Alley E of Block 38 West	-41.9 to -54.9	15.74	12.08	18.01	14.35	3.66	33.37	14.11	15.98	-3.28	19.26
FMW-138	Alley E of Block 38 West	-50.0 to -60.0	24.50	23.80	16.64	15.94	0.70	–	–	–	–	–
FMW-140	900 Roy St, S end	-38.0 to -48.0	–	–	–	–	–	22.91	15.03	16.68	8.80	7.88

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Well	Location	Screen Elevation	Unpumped Conditions					Pumped Conditions				
			Depth to Water		Elevation			Depth to Water		Elevation		
			Max	Min	Max	Min	Range	Max	Min	Max	Min	Range
GEI-2	Block 37, NW quadrant	-21.1 to -31.1	14.00	10.96	18.42	15.38	3.04	37.60	9.93	19.45	-8.22	27.67
HMW-1D	SDOT Mercer Parcels, NE quadrant	-42.0 to -52.0	23.97	19.90	18.15	14.08	4.07	30.39	20.60	17.45	7.66	9.79
HMW-2D	SDOT Mercer Parcels, NE quadrant	-32.8 to -42.8	31.36	27.26	19.97	15.87	4.10	37.84	29.17	18.06	9.39	8.67
HMW-3D	SDOT Mercer Parcels, NW quadrant	-23.6 to -33.6	41.30	38.77	17.63	15.10	2.53	43.31	39.60	16.80	13.09	3.71
HMW-6D	SDOT Mercer Parcels, SW quadrant	-21.1 to -31.1	–	–	–	–	–	48.39	46.89	14.60	13.10	1.50
HMW-9D	SDOT Mercer Parcels, SW quadrant	-24.4 to -34.4	–	–	–	–	–	45.17	42.95	15.19	12.97	2.22
HMW-10D	SDOT Mercer Parcels, SE quadrant	-30.8 to -40.8	–	–	–	–	–	42.14	37.53	13.50	8.89	4.61
HMW-12D	SDOT Mercer Parcels, NE quadrant	-48.5 to -58.5	–	–	–	–	–	27.09	23.35	12.51	8.77	3.74
HMW-13D	SDOT Mercer Parcels, SE quadrant	-44.2 to -54.2	–	–	–	–	–	36.83	33.40	11.68	8.25	3.43
HMW-14D	SDOT Mercer Parcels, SE quadrant	-23.7 to -33.7	–	–	–	–	–	38.63	33.12	12.99	7.48	5.51
MW102	Valley St ROW, S side	-65.8 to -75.8	34.38	31.78	17.41	14.81	2.60	37.59	32.20	16.91	11.60	5.31
MW103	Alley E of Seattle Roy Aloha Shops	-67.6 to -77.6	20.18	16.85	19.07	15.68	3.39	30.85	19.17	16.75	5.07	11.68
MW104	8th Ave N ROW, W side	-76.3 to -86.3	26.58	24.86	17.82	16.10	1.72	33.10	25.62	17.06	9.58	7.48
MW105	Roy St ROW, S side	-85.3 to -95.3	28.53	25.86	18.31	15.59	2.72	38.85	27.47	16.65	5.32	11.33
MW106	SDOT Mercer Parcels, NW quadrant	-78.0 to -88.0	36.78	34.43	17.56	15.21	2.35	40.60	35.25	16.74	11.39	5.35
MW113	9th Ave N ROW, W side	-36.8 to -46.8	16.66	13.60	19.30	16.25	3.05	31.15	16.19	16.72	1.75	14.97
MW122	Alley E of Seattle Roy Aloha Shops	-74.9 to -84.9	13.60	11.57	18.46	16.43	2.03	25.23	13.23	16.80	4.80	12.00
MW123	Westlake Ave N ROW, W side	-42.5 to -52.5	10.92	8.50	19.01	16.58	2.43	24.68	10.64	16.86	2.83	14.03
MW124	Valley St ROW, S side	-53.8 to -63.8	41.54	38.81	17.43	14.70	2.73	43.95	39.28	16.96	12.29	4.67
MW128	Westlake Ave N ROW, E side	-30.8 to -40.8	12.81	10.00	18.59	15.78	2.81	33.41	11.12	17.47	-4.82	22.29
MW-138	Dexter Ave N ROW, E side	-47.6 to -57.6	41.90	39.64	17.42	15.13	2.29	44.78	40.19	16.84	12.28	4.56
MW-153	Roy St ROW, S side	-65.3 to -75.3	39.39	36.85	17.50	14.96	2.54	41.55	37.60	16.75	12.80	3.95
MW-158A	8th Ave N ROW, E side	-48.2 to -58.5	25.63	23.15	17.94	15.46	2.48	28.73	24.31	16.78	12.36	4.42
MW-160	8th Ave N ROW, W side	-75.4 to -85.4	26.92	24.56	17.68	15.32	2.36	29.79	25.28	16.96	12.45	4.51
MW-161	8th Ave N ROW, W side	-85.6 to -95.6	28.75	26.33	17.66	15.24	2.42	31.90	27.03	16.96	12.09	4.87
MW-304	Dexter Ave N ROW, E side	-47.6 to -57.6	–	–	–	–	–	43.97	40.38	16.85	13.26	3.59
MW-319	9th Ave N ROW, W side	-42.8 to -52.8	–	–	–	–	–	21.21	14.52	16.79	10.10	6.69
MW-323	9th Ave N ROW, W side	-65.4 to -75.4	–	–	–	–	–	24.66	17.71	16.67	9.72	6.95
MW-324	Roy St ROW, N side	-32.1 to -42.1	–	–	–	–	–	25.24	17.09	16.62	8.47	8.15
MW-326	Mercer St ROW, N side	-48.7 to -58.7	–	–	–	–	–	33.37	24.22	16.75	7.60	9.15

Table 9

Summary of Groundwater and Surface Water Elevations: 2017 to 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Well	Location	Screen Elevation	Unpumped Conditions					Pumped Conditions				
			Depth to Water		Elevation			Depth to Water		Elevation		
			Max	Min	Max	Min	Range	Max	Min	Max	Min	Range
MW-328	Lake Union Park, S end	-36.1 to -46.1	–	–	–	–	–	19.61	11.54	16.55	8.48	8.07
MW-329	Westlake Ave N ROW, E side	-69.0 to -79.0	–	–	–	–	–	20.85	12.67	16.26	8.08	8.18
MW-336	Mercer St ROW, N side	-52.0 to -62.0	–	–	–	–	–	30.00	23.57	9.74	3.31	6.43
MW-341	Lake Union Park, S end	-67.1 to -77.1	–	–	–	–	–	18.43	15.05	13.06	9.68	3.38
MW-342	Valley St ROW, S side	-32.7 to -42.7	–	–	–	–	–	18.22	14.81	12.56	9.15	3.41
MW-343	Valley St ROW, S side	-71.9 to -81.9	–	–	–	–	–	17.96	17.63	9.53	9.20	0.33
Surface Water												
Lake Washington	USACE Kenmore Station	–	–	–	19.05	16.86	2.19	–	–	19.15	16.83	2.32

Notes:

All depths to groundwater measured in feet from the top of the PVC casing (surveyed measuring point), all elevations in feet relative to NAVD 88.

Range = Difference between the minimum and maximum measured groundwater elevations.

– = Not applicable or not enough data points to calculate minimum and maximum.

A groundwater capture system was operated at 630 Westlake Ave N (Block 37) between April 17 and December 18, 2017, averaging 194 gpm per day. The four pumping wells were screened between elevations -3 and -63 feet.

A dewatering system was operated at 600 Terry Ave N (Block 31) and 609 Fairview Ave N (Block 25) between May 18 and October 19, 2017, averaging 479 gpm per day. The dewatering wells were screened between elevations +15 and -25 feet.

A dewatering system was operated at the Property from August 6, 2019 to July 20, 2020 from well points screened between approximately +20 and 0 feet.

A dewatering system was operated at 520 Westlake Ave N (Block 38W) between January 3, 2020, and March 24, 2021. The 18 dewatering wells were screened between elevations -10 and -30 feet.

A dewatering system was operated at 400 Westlake Ave N (Block 39W) between February 2020 and at least May 2021, likely screened to +10 feet elevation.

The US Army Corps of Engineers maintains Lake Washington, Lake Union, and the Ship Canal at equivalent elevations.

Table 10

Summary of Groundwater Elevations in Co-Located Monitoring Wells
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Well	Well Screen Elevation (feet)	Water Bearing Zone	PVC Casing Elevation (feet)	March 14, 2019 No Dewatering Occurring			July 16, 2019 No Dewatering Occurring			October 21, 2019 Dewatering at Property			January 13, 2020 Dewatering at Property & Block 38 West			May 11, 2020 Dewatering at Property, Block 38W & Block 39W			July 13, 2020 Dewatering at Property, Block 38W & Block 39W			November 16, 2020 Dewatering at Block 38W & Block 39W			February 1, 2021 Dewatering at Block 38W & Block 39W			June 7, 2021 Dewatering at Block 39 West		
				Depth to GW (feet)	GW Elevation (feet)	Vertical Gradient (ft/ft)	Depth to GW (feet)	GW Elevation (feet)	Vertical Gradient (ft/ft)	Depth to GW (feet)	GW Elevation (feet)	Vertical Gradient (ft/ft)	Depth to GW (feet)	GW Elevation (feet)	Vertical Gradient (ft/ft)	Depth to GW (feet)	GW Elevation (feet)	Vertical Gradient (ft/ft)	Depth to GW (feet)	GW Elevation (feet)	Vertical Gradient (ft/ft)	Depth to GW (feet)	GW Elevation (feet)	Vertical Gradient (ft/ft)	Depth to GW (feet)	GW Elevation (feet)	Vertical Gradient (ft/ft)	Depth to GW (feet)	GW Elevation (feet)	Vertical Gradient (ft/ft)
Dexter Avenue North Wells West of the Property																													
R-MW-5	42.4 to 27.4	Shallow	57.01	18.18	38.83	–	25.25	31.76	–	25.95	31.06	–	25.17	31.84	–	26.49	30.52	–	27.46	29.55	–	22.01	35.00	–	19.54	37.47	–	20.56	36.45	–
MW-302	3.0 to -7.0	Int. A	57.03	–	–	–	–	–	–	46.52	10.51	-0.571	40.09	16.94	-0.414	45.70	11.33	-0.533	41.51	15.52	-0.390	28.90	28.13	-0.191	24.61	32.42	-0.140	25.23	31.80	-0.129
MW-303	-13.8 to -23.8	Int. B	57.28	–	–	–	–	–	–	44.60	12.68	0.128	40.00	17.28	0.020	42.21	15.07	0.220	42.42	14.86	-0.039	38.75	18.53	-0.565	36.39	20.89	-0.678	37.20	20.08	-0.689
MW-304	-47.6 to -57.6	Deep	57.23	–	–	–	–	–	–	40.38	16.85	0.174	40.48	16.75	-0.022	43.11	14.12	-0.040	43.97	13.26	-0.067	–	–	–	42.76	14.47	-0.268	42.04	15.19	-0.204
Valley Street Wells North of the Property																													
MW-301	35.6 to 25.6	Shallow	53.54	–	–	–	–	–	–	dry	–	–	dry	–	–	dry	–	–	–	–	–	22.26	31.28		19.90	33.64	–	21.51	32.03	–
MW-189	-1.2 to -11.2	Int. A	47.33	–	–	–	–	–	–	34.50	12.83	–	34.96	12.37	–	35.56	11.77	–	35.10	12.23	–	23.37	23.96	–	20.61	26.72	-0.187	21.78	25.55	-0.175
MW-190	-30.2 to -40.2	Int. B	48.39	–	–	–	–	–	–	34.03	14.36	0.053	33.33	15.06	0.093	35.32	13.07	0.045	35.30	13.09	0.030	27.40	20.99	-0.102	24.36	24.03	-0.093	25.40	22.99	-0.088
MW102	-65.8 to -75.8	Deep	49.11	31.94	17.17	–	31.80	17.31	–	32.20	16.91	0.072	32.46	16.65	0.045	35.36	13.75	0.019	36.04	13.07	-0.001	35.93	13.18	-0.219	34.74	14.37	-0.271	33.95	15.16	-0.220
Roy Street Wells South of the Property																													
MW-154	28.1 to 18.1	Shallow	52.57	20.81	31.76	–	27.03	25.54	–	30.16	22.41	–	29.30	23.27	–	29.44	23.13	–	30.05	22.52	–	25.44	27.13	–	22.04	30.53	–	24.55	28.02	–
MW-146	12.9 to 2.9	Int. A	52.34	19.89	32.45	0.045	30.04	22.30	-0.213	33.98	18.36	-0.266	32.90	19.44	-0.252	33.90	18.44	-0.309	34.35	17.99	-0.298	25.89	26.45	-0.045	22.24	30.10	-0.028	25.91	26.43	-0.105
MW-147	-17.6 to -27.6	Int. B	51.85	25.65	26.20	-0.205	31.10	20.75	-0.051	36.23	15.62	-0.090	34.45	17.40	-0.067	38.56	13.29	-0.169	38.50	13.35	-0.152	30.25	21.60	-0.159	27.75	24.10	-0.197	29.32	22.53	-0.128
MW-153	-65.3 to -75.3	Deep	54.35	32.27	22.08	-0.086	37.27	17.08	-0.077	37.60	16.75	0.024	38.80	15.55	-0.039	40.67	13.68	0.008	41.55	12.80	-0.012	41.39	12.96	-0.181	40.15	14.20	-0.208	39.39	14.96	-0.159
MW106	-78.0 to -88.0	Deep	51.99	34.64	17.35	-0.372	34.62	17.37	0.023	35.25	16.74	-0.001	35.56	16.43	0.069	38.87	13.12	-0.044	39.58	12.41	-0.031	39.31	12.68	-0.022	37.82	14.17	-0.002	36.74	15.25	0.023
8th Avenue North Wells East of the Property																													
MW-9	34.1 to 19.1	Shallow	40.74	13.81	26.93	–	15.27	25.47	–	20.77	19.97	–	21.58	19.16	–	–	–	–	–	–	–	19.78	20.96	–	17.54	23.20	–	15.80	24.94	–
MW-156	2.0 to -8.0	Int. A	41.24	15.72	25.52	-0.049	19.32	21.92	-0.122	27.26	13.98	-0.207	27.61	13.63	-0.191	30.58	10.66	–	30.44	10.80	–	22.24	19.00	-0.068	19.25	21.99	-0.042	19.20	22.04	-0.100
MW-157	-28.3 to -38.2	Int. B	41.22	14.94	26.28	0.025	18.86	22.36	0.015	28.18	13.04	-0.031	28.77	12.45	-0.039	31.11	10.11	-0.018	30.92	10.30	-0.017	23.56	17.66	-0.045	22.43	18.79	-0.107	–	–	–
MW-158A	-48.2 to -58.5	Deep	41.09	23.15	17.94	-0.278	23.54	17.55	-0.160	24.31	16.78	0.125	24.91	16.18	0.124	28.27	12.82	0.090	28.73	12.36	0.069	28.37	12.72	-0.165	26.80	14.29	-0.150	25.63	15.46	-0.130
Roy Street Wells Southeast of the Property																													
MW-155	24.4 to 14.4	Shallow	44.05	16.80	27.25	–	20.94	23.11	–	24.54	19.51	–	22.55	21.50	–	24.31	19.74	–	25.17	18.88	–	22.55	21.50	–	–	–	–	–	–	–
BB-8	14.0 to 4.0	Int. A	43.64	13.73	29.91	0.266	20.41	23.23	0.012	26.19	17.45	-0.206	24.10	19.54	-0.196	26.62	17.02	-0.272	27.60	16.04	-0.284	20.95	22.69	0.119	15.33	28.31	–	18.35	25.29	–
MW-148	-25.7 to -35.7	Int. B	43.91	24.31	19.60	-0.253	25.21	18.70	-0.111	26.92	16.99	-0.011	28.07	15.84	-0.091	33.80	10.11	-0.170	34.47	9.44	-0.162	33.50	10.41	-0.302	–	–	–	–	–	–
MW105	-85.3 to -95.3	Deep	44.12	26.33	17.79	-0.030	26.25	17.87	-0.014	27.47	16.65	-0.006	28.75	15.37	-0.008	33.01	11.11	0.017	33.82	10.30	0.014	33.91	10.21	-0.003	31.11	13.01	-0.15	28.53	15.59	-0.097
Alley Wells Northeast of the Property																													
SCL-MW101	25.5 to 15.5	Shallow	30.02	7.64	22.38	–	7.90	22.12	–	8.85	21.17	–	7.87	22.15	–	12.46	17.56	–	13.95	16.07	–	11.32	18.70	–	9.57	20.45	–	9.60	20.42	–
MW-308	-4.7 to -14.7	Int. A	30.15	–	–	–	–	–	–	13.07	17.08	-0.135	14.32	15.83	-0.209	18.70	11.45	-0.202	19.06	11.09	-0.165	18.25	11.90	-0.225	15.02	15.13	-0.176	12.65	17.50	-0.097
MW-309	-32.0 to -42.0	Int. B	29.97	–	–	–	–	–	–	12.91	17.06	-0.001	14.15	15.82	0.000	18.49	11.48	0.001	18.81	11.16	0.003	17.92	12.05	0.005	14.80	15.17	0.001	12.43	17.54	0.001
MW122	-74.9 to -84.9	Deep	30.03	11.99	18.04	-0.043	11.93	18.10	-0.040	13.23	16.80	-0.006	14.53	15.50	-0.007	18.57	11.46	0.000	19.02	11.01	-0.003	18.86	11.17	-0.020	16.27	13.76	-0.033	13.60	16.43	-0.026
Alley Wells East of the Property																													
MW-312	19.9 to 9.9	Shallow	34.99	–	–	–	–	–	–	15.66	19.33	–	15.97	19.02	–	22.37	12.62	–	23.34	11.65	–	22.85	12.14	–	14.94	20.05	–	15.74	19.25	–
MW109	-0.0 to -10.0	Int. A	34.87	15.87	19.00	–	16.23	18.64	–	18.14	16.73	-0.130	19.58	15.29	-0.187	24.80	10.07	-0.128	25.28	9.59	-0.103	24.59	10.28	-0.093	19.78	15.09	-0.248	18.14	16.73	-0.126
MW111	-33.5 to -43.5	Int. B	36.38	18.36	18.02	-0.029	17.96	18.42	-0.007	19.57	16.81	0.002	21.12	15.26	-0.001	26.42	9.96	-0.003	26.88	9.50	-0.003	26.40	9.98	-0.009	22.77	13.61	-0.044	19.96	16.42	-0.009
MW103	-67.6 to -77.6	Deep	35.86	17.75	18.11	0.003	16.85	19.01	0.017	19.17	16.69	-0.004	20.53	15.33	0.002	24.87	10.99	0.030	25.56	10.30	0.024	25.50	10.36	0.011	22.69	13.17	-0.013	20.18	15.68	-0.022
9th Avenue North Wells East of the Property																													
MW-320	18.6 to 8.6	Shallow	33.57	–	–	–	–	–	–	15.45	18.12	–	15.62	17.95	–	21.20	12.37	–	21.96	11.61	–	22.20	11.37	–	17.62	15.95	–	16.20	17.37	–
FMW-142	-4.6 to -9.6	Int. A	32.52	–	–	–	–	–	–	15.50	17.02	-0.053	17.13	15.39	-0.124	18.83	13.69	0.064	22.86	9.66	-0.094	22.57	9.95	-0.069	18.91	13.61	-0.113	16.13	16.39	-0.047
MW-322	-21.2 to -31.2	Int. B	33.13	–	–	–	–	–	–	16.41	16.72	-0.016	18.02	15.11	-0.015	23.22	9.91	-0.198	23.70	9.43	-0.012	23.41	9.72	-0.012	19.71	13.42	-0.010	16.76	16.37	-0.001
MW113	-36.8 to -46.8	Deep	32.91	14.52	18.39	–	14.57	18.34	–	16.19	16.72	0.000	17.91	15.00	-0.007	25.17	7.74	-0.139	23.67	9.24	-0.012	23.25	9.66	-0.004	19.60	13.31	-0.007	16.66	16.25	-0.008
MW-323	-65.4 to -75.4	Deep	34.38	–	–	–	–	–	–	17.71	16.67	-0.002	19.20	15.18	0.006	24.04	10.34	0.091	24.66	9.72	0.017	24.48	9.90	0.008	21.32	13.06	-0.009	18.53	15.85	-0.014
South End of Lake Union Wells East of Westlake Avenue North																													
MW-339	18.2 to 8.2	Shallow	28.06	–	–	–	–	–	–	–	–	–	–	–	–	9.95	18.11	–	10.26	17.80	–	10.74	17.32	–	10.20	17.86	–	9.15	18.91	–
MW-327	3.6 to -6.3	Int. A	28.15	–	–	–	–	–	–	10.06	18.09	–	10.48	17.67	–	12.52	15.63	-0.171	12.95	15.20	-0.179	12.38	15.77	-0.107	11.04	17.11	-0.052	9.75	18.40	-0.035
MW-340	-16.1 to -26.1	Int. B	28.02	–	–	–	–	–	–	–	–	–	–	–	–	17.35	10.67	-0.251	17.65	10.37	-0.244	17.53	10.49	-0.267	14.54	13.48	-0.183	11.63	16.39	-0.102
MW-328	-36.1 to -46.1	Deep	28.09	–	–	–	–	–	–	11.54	16.55	–	13.21	14.88	–	18.00	10.09	-0.029	18.35	9.74	-0.032	18.20	9.89	-0.030	15.00	13.09	-0.020	11.88	16.21	-0.009
MW-341	-66.8 to -76.8	Deep	28.11	–	–	–	–	–	–	–	–	–	–	–	–	18.08	10.03	-0.002	18.43	9.68	-0.002	18.30	9.81	-0.003	15.05	13.06	-0.001	11.95	16.16	-0.002

Table 10

Summary of Groundwater Elevations in Co-Located Monitoring Wells
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Well	Well Screen Elevation (feet)	Water Bearing Zone	PVC Casing Elevation (feet)	March 14, 2019 No Dewatering Occurring			July 16, 2019 No Dewatering Occurring			October 21, 2019 Dewatering at Property			January 13, 2020 Dewatering at Property & Block 38 West			May 11, 2020 Dewatering at Property, Block 38W & Block 39W			July 13, 2020 Dewatering at Property, Block 38W & Block 39W			November 16, 2020 Dewatering at Block 38W & Block 39W			February 1, 2021 Dewatering at Block 38W & Block 39W			June 7, 2021 Dewatering at Block 39 West		
				Depth to GW (feet)	GW Elevation (feet)	Vertical Gradient (ft/ft)	Depth to GW (feet)	GW Elevation (feet)	Vertical Gradient (ft/ft)	Depth to GW (feet)	GW Elevation (feet)	Vertical Gradient (ft/ft)	Depth to GW (feet)	GW Elevation (feet)	Vertical Gradient (ft/ft)	Depth to GW (feet)	GW Elevation (feet)	Vertical Gradient (ft/ft)	Depth to GW (feet)	GW Elevation (feet)	Vertical Gradient (ft/ft)	Depth to GW (feet)	GW Elevation (feet)	Vertical Gradient (ft/ft)	Depth to GW (feet)	GW Elevation (feet)	Vertical Gradient (ft/ft)	Depth to GW (feet)	GW Elevation (feet)	Vertical Gradient (ft/ft)
Westlake Avenue North Wells Southeast of the Property																													
MW-214	20.8 to 10.8	Shallow	27.32	8.92	18.40	–	8.97	18.35	–	9.54	17.78	–	9.74	17.58	–	13.40	13.92	–	13.70	13.62	–	13.75	13.57	–	11.56	15.76	–	9.35	17.97	–
GEI-1	1.2 to -8.9	Int. A	27.95	9.64	18.31	-0.005	9.59	18.36	0.001	10.62	17.33	-0.023	11.37	16.58	-0.051	15.74	12.21	-0.087	16.09	11.86	-0.089	15.75	12.20	-0.070	13.03	14.92	-0.043	10.98	16.97	-0.051
MW128	-30.8 to -40.8	Deep	28.59	10.79	17.80	-0.016	10.67	17.92	-0.014	12.36	16.23	-0.034	14.27	14.32	-0.071	20.10	8.49	-0.117	20.46	8.13	-0.117	20.01	8.58	-0.113	16.35	12.24	-0.084	12.81	15.78	-0.037
MW-329	-69.0 to -79.0	Deep	28.93	–	–	–	–	–	–	12.67	16.26	0.001	14.55	14.38	0.002	20.35	8.58	0.002	20.74	8.19	0.002	20.34	8.59	0.000	16.60	12.33	0.002	13.06	15.87	0.002
South End of Lake Union Surface Water Elevation																													
Lake	–	–	–	–	17.79	–	–	18.45	–	–	17.88	–	–	16.89	–	–	18.66	–	–	18.34	–	–	17.36	–	–	16.85	–	–	18.85	–

Notes:

All depths to water measured from the top of the PVC casing (surveyed measuring point).

All elevations in feet relative to the North American Vertical Datum (NAVD 88).

GW = Groundwater.

Vertical Gradients: positive = upward gradient, which is shaded in green, and negative = downward gradient, which is shaded in blue.

– = Not available or not applicable.

A dewatering system was operated at the Property between August 6, 2019, and July 20, 2020, from well points screened between approximately +20 and 0 feet that were operated at regular intervals, with pumping rates typically averaging less than 10 gpm.

A dewatering system was operated at the Property between August 6, 2019, and July 20, 2020, from well points screened between approximately elevations +20 and 0 feet that were operated at regular intervals, with pumping rates typically averaging less than 10 gpm.

A dewatering system was operated at 520 Westlake Avenue North (Block 38 West) between January 3, 2020, and March 24, 2021. The 18 dewatering wells were screened between elevations +10 and -30 feet.

A dewatering system was operated at 400 Westlake Avenue North (Block 39 West) between February 2020 and at least June 2021. Specifics about the Block 39W dewatering system are not known, but the bottom of the basement is approximately elevation 19 feet, so the dewatering system likely extended to at least elevation 10 feet.

The November 16, 2020, MW106 groundwater level appeared to be a recording error, so the November 10, 2020, pre-sampling groundwater level is used in this comparison.

[a] Groundwater elevation suspect based on change in groundwater elevation from previous month compared to other wells.

Table 11

Evaluation of COPCs in Groundwater Discharging to Lake Union
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Analyte Name	CAS Number	Number of Samples Analyzed[a]	Number of Detected Results	FOD	Max Detected Concentration (µg/L)		GW PCUL[b]	Number of Detections Above the GW PCUL	COPC Evaluation		Comments
									Max Detected/ PCUL[c]	COPC?	
1,2-Dichloroethane (EDC)	107-06-2	14	1	7%	0.0500	J	4.2	0	0.012	No	Max detected concentration < PCUL
Acetone	67-64-1	14	2	14%	2.75		7,200	0	0.00038	No	Max detected concentration < PCUL
Benzene	71-43-2	14	3	21%	0.0200	J	0.44	0	0.045	No	Max detected concentration < PCUL
cis-1,2-Dichloroethene (cDCE)	156-59-2	14	7	50%	0.238		16	0	0.015	No	Max detected concentration < PCUL
Ethyl Ether	60-29-7	9	2	22%	0.0940	J	1,600	0	0.000059	No	Max detected concentration < PCUL
Ethylbenzene	100-41-4	14	1	7%	0.0340	J	12	0	0.0028	No	Max detected concentration < PCUL
Tetrachloroethene (PCE)	127-18-4	14	1	7%	0.260		2.4	0	0.11	No	Max detected concentration < PCUL
Tetrahydrofuran	109-99-9	9	1	11%	0.360	J	7,200	0	0.000050	No	Max detected concentration < PCUL
Toluene	108-88-3	14	3	21%	0.351		53	0	0.0066	No	Max detected concentration < PCUL
Trans-1,4-Dichloro-2-butene	110-57-6	14	2	14%	0.122	J	na	0	–	No	No Ecology provided PCUL
Trichloroethene (TCE)	79-01-6	14	3	21%	0.267		0.30	0	0.89	No	Max detected concentration < PCUL
Vinyl Chloride (VC)	75-01-4	14	1	7%	0.0670	J	0.20	0	0.34	No	Max detected concentration < PCUL
Xylenes, Total	1330-20-7	14	1	7%	0.219	J	57	0	0.0038	No	Max detected concentration < PCUL

Abbreviations

PCUL = Preliminary cleanup level.
FOD = Frequency of detection.
Max = Maximum.
COPC = Chemical of potential concern.
na = Not available.
– = Not applicable.

Data Notes

Preliminary Cleanup Levels (PCULs) from Washington State Department of Ecology, Memorandum from P. Tomlinson to TCP File for American Linen Supply Co. Dexter Ave. (FSID 3573, CSID 12004) re: Development of site-specific preliminary cleanup levels, December 14, 2021.

PCUL for tetrahydrofuran is the Method B Cleanup Level for noncancer from Ecology Cleanup Levels and Risk Calculation (CLARC) tables, July 2021. No PCUL provided in 2021 memo from Ecology.

µg/L = micrograms per liter.

J = The identification of the analyte is acceptable; the reported value is an estimate.

Evaluation of surface water as a receptor was performed using data from Shallow Zone wells MW-337 and MW-339 and Intermediate A Zone well MW-327.

COPC Evaluation:

a = Number of Samples Analyzed includes samples collected from MW-327, MW-337, and MW-339, Quarter 1 2017 through Quarter 2 2021, excluding duplicates and other QC samples. Only detected chemicals shown.

b = Most stringent PCUL including surface water and vapor intrusion, GW#s 1-5 from Ecology table, 29Dec2021, in micrograms per liter (µg/L). PCUL for tetrahydrofuran is the MTCA Method B Cleanup Level for noncancer from Ecology Cleanup Levels and Risk Calculation (CLARC) tables, July 2021. PCUL for vinyl chloride is adjusted to 0.2 µg/L per Ecology.

c = If Max Detected/PCUL ≤ 1 then analyte is not a COPC.

Table 12

Summary of Site Detections, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Analyte Name	CAS Number	Soil																		Soil Vapor				
		Vadose Zone									Saturated Zone													
			On Property				Off Property					On Property					Off Property							
		PCUL	n	n Det.	FOD	Max Det.	n	n Det.	FOD	Max Det.	PCUL	n	n Det.	FOD	Max Det.	n	n Det.	FOD	Max Det.	Screening Level	n	n Det.	FOD	Max Det.
1,1,1,2-Tetrachloroethane	630-20-6	0.0098	31	0	–	–	475	0	–	–	0.0040	774	5	1%	0.000757 J	693	0	–	–	11	–	–	–	–
1,1,1-Trichloroethane (TCA)	71-55-6	1.5	31	0	–	–	475	2	0.4%	0.00172 J	0.084	774	0	–	–	693	0	–	–	76,000	113	34	30%	115
1,1,2,2-Tetrachloroethane	79-34-5	*0.0040*	31	0	–	–	466	0	–	–	0.0040	774	3	0.4%	0.000889 J	690	1	0.1%	0.000783 J	1.4	113	0	–	–
1,1,2-Trichloroethane	79-00-5	0.017	31	1	3%	0.00199 J	475	0	–	–	0.0040	774	2	0.3%	0.00189 J	692	0	–	–	3.0	113	0	–	–
1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1	7,600	31	0	–	–	167	0	–	–	120	774	0	–	–	592	0	–	–	76,000	113	2	2%	1.60
1,1-Dichloroethane	75-34-3	0.041	31	0	–	–	475	1	0.2%	0.000609 J	0.0040	774	1	0.1%	0.00197 J	694	2	0.3%	0.00317	52	113	11	10%	14.1
1,1-Dichloroethene	75-35-4	0.046	31	0	–	–	475	0	–	–	0.0040	774	244	32%	**1.04**	694	46	7%	**0.0242 J**	3,000	113	1	1%	0.923
1,1-Dichloropropene	563-58-6	na	31	0	–	–	475	0	–	–	na	774	0	–	–	694	0	–	–	na	–	–	–	–
1,2,3-Trichlorobenzene	87-61-6	0.20	31	0	–	–	475	1	0.2%	0.00121 J	0.030	774	1	0.1%	0.00174 J	694	1	0%	0.00136 J	na	–	–	–	–
1,2,3-Trichloropropane	96-18-4	2.4	31	0	–	–	475	0	–	–	1.5	774	0	–	–	694	0	–	–	na	–	–	–	–
1,2,3-Trimethylbenzene	526-73-8	1.3	31	0	–	–	167	50	30%	0.166	0.073	774	47	6%	**5.03**	591	28	5%	**1.05**	910	–	–	–	–
1,2,4-Trichlorobenzene	120-82-1	0.56	31	0	–	–	360	1	0.3%	0.0199	0.030	774	0	–	–	668	3	0.4%	0.0271	30	113	0	–	–
1,2,4-Trimethylbenzene	95-63-6	1.3	31	0	–	–	475	71	15%	**15.0**	0.072	774	94	12%	**17.0**	693	59	9%	**13.0**	910	113	64	57%	448 J
1,2-Dibromo-3-Chloropropane	96-12-8	0.0013	31	0	–	–	475	0	–	–	0.000081	774	0	–	–	694	0	–	–	0.014	–	–	–	–
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.00027	31	0	–	–	461	0	–	–	0.000018	774	0	–	–	688	0	–	–	0.14	113	0	–	–
1,2-Dichlorobenzene	95-50-1	7.0	31	0	–	–	277	3	1%	0.0345	0.40	774	0	–	–	617	2	0.3%	0.196	3,000	113	0	–	–
1,2-Dichloroethane (EDC)	107-06-2	0.023	31	0	–	–	360	0	–	–	0.0040	774	0	–	–	668	2	0.3%	**0.0128**	3.2	113	0	–	–
1,2-Dichloropropane	78-87-5	0.025	31	0	–	–	475	0	–	–	0.0090	774	2	0.3%	**1.13**	693	2	0.3%	**0.0341**	23	113	0	–	–
1,2-Dichlorotetrafluoroethane	766-14-2	na	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	na	113	0	–	–
1,3,5-Trimethylbenzene	108-67-8	1.3	31	0	–	–	360	40	11%	**5.70**	0.071	774	44	6%	**3.37**	666	22	3%	**6.20**	910	113	18	16%	127 J
1,3-Butadiene	106-99-0	na	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2.8	113	0	–	–
1,3-Dichlorobenzene	541-73-1	na	31	0	–	–	475	2	0.4%	0.00129 J	na	774	0	–	–	693	1	0.1%	**0.0133 J**	na	113	0	–	–
1,3-Dichloropropane	142-28-9	0.88	31	0	–	–	475	0	–	–	0.057	774	0	–	–	693	0	–	–	na	–	–	–	–
1,4-Dichlorobenzene	106-46-7	1.2	31	0	–	–	475	2	0.4%	0.00813	0.068	774	0	–	–	694	2	0.3%	0.0559	7.6	113	2	2%	1.90
1,4-Dioxane	123-91-1	0.0018	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	17	113	18	16%	14.9
2,2,4-Trimethylpentane	540-84-1	na	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	na	113	28	25%	7,990
2,2-Dichloropropane	594-20-7	na	31	0	–	–	475	0	–	–	na	774	5	1%	0.00316 J	694	0	–	–	na	–	–	–	–
2-Butanone (Methyl Ethyl Ketone)	78-93-3	20	31	8	26%	0.225	232	49	21%	0.254 J	1.4	774	146	19%	0.179 J	604	113	19%	0.213	76,000	113	29	26%	277
2-Chlorotoluene	95-49-8	1.9	31	0	–	–	475	0	–	–	0.11	774	0	–	–	692	0	–	–	na	113	3	3%	4.19
2-Hexanone (Methyl butyl ketone)	591-78-6	17	31	0	–	–	216	1	0.5%	0.0122	0.012	774	9	1%	**0.0928**	593	1	0.2%	**0.0243 J**	460	113	0	–	–
2-Propanol (isopropanol)	67-63-0	na	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	na	113	45	40%	50.8
4-Chlorotoluene	106-43-4	na	31	0	–	–	475	0	–	–	na	774	1	0.1%	0.00193 J	692	0	–	–	na	–	–	–	–
4-Ethyltoluene	622-96-8	na	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	na	113	24	21%	108 J
4-Isopropyltoluene (p-Isopropyltoluene)	99-87-6	na	31	0	–	–	360	32	9%	2.51	na	774	27	3%	0.681	667	30	4%	3.20	na	–	–	–	–
Acetone	67-64-1	29	31	12	39%	0.667 J	216	42	19%	0.246	2.1	774	197	25%	**11.3**	606	214	35%	**3.86 J**	470,000	113	106	94%	114
Acrylonitrile	107-13-1	*0.030*	31	0	–	–	167	0	–	–	0.030	774	0	–	–	592	4	1%	0.0289	1.2	–	–	–	–
Allyl chloride	107-05-1	na	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	14	113	0	–	–
Benzene	71-43-2	0.027	31	4	13%	0.00101 J	475	74	16%	**3.50**	0.0020	788	83	11%	**0.304**	694	145	21%	**0.274**	11	113	29	26%	**273 J**
Benzyl chloride	100-44-7	na	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1.7	113	0	–	–
Bromobenzene	108-86-1	0.56	31	0	–	–	360	0	–	–	0.033	774	0	–	–	667	0	–	–	910	–	–	–	–
Bromochloromethane	74-97-5	na	31	0	–	–	167	0	–	–	na	774	0	–	–	577	0	–	–	na	–	–	–	–
Bromodichloromethane	75-27-4	0.036	31	0	–	–	475	0	–	–	0.0024	774	0	–	–	694	0	–	–	2.3	113	3	3%	**2.75**
Bromoform	75-25-2	0.36	31	0	–	–	360	0	–	–	0.023	774	0	–	–	668	0	–	–	76	113	0	–	–
Bromomethane	74-83-9	0.050	31	0	–	–	360	0	–	–	0.0033	774	0	–	–	668	0	–	–	76	113	1	1%	1.45

Table 12

Summary of Site Detections, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Analyte Name	CAS Number	Soil																	Soil Vapor				
		Vadose Zone									Saturated Zone												
			On Property				Off Property					On Property				Off Property							
		PCUL	n	n Det.	FOD	Max Det.	n	n Det.	FOD	Max Det.	PCUL	n	n Det.	FOD	Max Det.	n	n Det.	FOD	Max Det.	Screening Level	n	n Det.	FOD	Max Det.
Carbon Disulfide	75-15-0	5.0	31	10	32%	0.00335	167	12	7%	0.0239	0.27	774	339	44%	0.0240	579	91	16%	0.0228 J	11,000	113	84	74%	140
Carbon Tetrachloride	56-23-5	0.042	31	0	–	–	475	0	–	–	0.0022	774	0	–	–	692	0	–	–	14	113	9	8%	7.43
Chlorobenzene	108-90-7	0.86	31	0	–	–	475	1	0.2%	0.00224 J	0.051	774	0	–	–	694	5	1%	**0.0633**	760	113	0	–	–
Chlorodibromomethane	124-48-1	0.028	31	0	–	–	410	0	–	–	0.0040	774	3	0.4%	0.000852 J	668	0	–	–	na	113	0	–	–
Chloroethane (Ethyl chloride)	75-00-3	na	31	0	–	–	475	0	–	–	na	774	28	4%	0.0282	691	0	–	–	150,000	113	0	–	–
Chloroform	67-66-3	0.074	31	5	16%	0.00211	475	19	4%	0.0159	0.0070	774	88	11%	0.00244	694	43	6%	0.00226 J	3.6	113	18	16%	**84.2**
Chloromethane	74-87-3	na	31	0	–	–	475	0	–	–	na	774	17	2%	0.0575	692	1	0.1%	0.00179 J	1,400	113	43	38%	24.2
cis-1,2-Dichloroethene (cDCE)	156-59-2	0.078	31	20	65%	0.0413 J	475	14	3%	**0.192**	0.0052	830	681	82%	**329**	694	273	39%	**6.55**	na	116	5	4%	9.99
cis-1,3-Dichloropropene	10061-01-5	0.0023	31	0	–	–	360	0	–	–	0.00014	774	1	0.1%	**0.000791 J**	668	0	–	–	na	113	0	–	–
Cyclohexane	110-82-7	na	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	91,000	113	34	30%	78.9
Dibromomethane	74-95-3	0.42	31	0	–	–	360	0	–	–	0.028	774	0	–	–	666	0	–	–	61	–	–	–	–
Dichlorodifluoromethane (CFC-12)	75-71-8	38	31	0	–	–	360	0	–	–	0.53	774	0	–	–	668	0	–	–	1,500	113	94	83%	53.9
di-Isopropyl ether	108-20-3	na	31	0	–	–	167	0	–	–	na	774	0	–	–	591	1	0.2%	0.000791 J	na	–	–	–	–
Ethanol	64-17-5	na	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	na	113	113	100%	447 J
Ethyl ether	60-29-7	6.8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	na	–	–	–	–
Ethylbenzene	100-41-4	5.9	31	0	–	–	475	67	14%	3.90	0.34	788	38	5%	**4.74**	694	68	10%	**3.01**	15,000	113	32	28%	166 J
Gasoline Range Organics (GRO) w/ benzene	na	30	0	0	–	–	315	23	7%	**1,200**	30	100	63	63%	**641**	151	54	36%	**1,200**	na	–	–	–	–
Heptane	142-82-5	na	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	6,100	113	22	19%	67.1 J
Hexachlorobutadiene	87-68-3	0.60	31	0	–	–	475	0	–	–	0.030	774	0	–	–	692	0	–	–	3.8	113	0	–	–
Hexane (n-Hexane)	110-54-3	72	31	10	32%	0.00671 J	216	60	28%	0.967	1.8	774	210	27%	0.110	593	208	35%	**3.06**	11,000	113	35	31%	127 J
Iodomethane (Methyl Iodide)	74-88-4	na	31	0	–	–	167	0	–	–	na	774	0	–	–	579	0	–	–	na	–	–	–	–
Isopropylbenzene (Cumene)	98-82-8	15	31	0	–	–	360	23	6%	0.970	0.79	774	15	2%	**0.851**	667	32	5%	**4.94**	6,100	113	1	1%	10.6 J
Methyl isobutyl ketone (4-Methyl-2-pentanone)	108-10-1	2.7	31	1	3%	0.00621 J	216	0	–	–	0.19	774	1	0.1%	0.00267	605	0	–	–	46,000	113	0	–	–
Methyl methacrylate	80-62-6	na	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	11,000	113	2	2%	23.9
Methyl tert-butyl ether (MTBE)	1634-04-4	0.10	31	0	–	–	360	3	1%	0.000635 J	0.0072	774	30	4%	**0.554 J**	667	7	1%	0.00683 J	320	113	0	–	–
Methylene Chloride	75-09-2	*0.040*	31	1	3%	0.00853	475	58	12%	**0.210 J**	0.040	774	12	2%	0.0112	694	92	13%	**1.15**	2,200	113	51	45%	24.9
Naphthalene	91-20-3	4.5	31	0	–	–	415	42	10%	1.90	0.24	774	17	2%	**5.21**	677	37	5%	**0.963**	2.5	113	3	3%	**44.8 J**
n-Butylbenzene	104-51-8	14	31	0	–	–	311	6	2%	2.20	0.71	774	18	2%	**0.973**	653	18	3%	**5.35**	na	–	–	–	–
Propene	115-07-1	na	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	na	113	19	17%	480
n-Propylbenzene	103-65-1	16	31	0	–	–	360	26	7%	3.00	0.88	774	28	4%	**2.84**	666	29	4%	**21.2**	15,000	–	–	–	–
sec-Butylbenzene	135-98-8	25	31	0	–	–	360	8	2%	0.420	1.3	774	16	2%	0.642	666	19	3%	**1.93**	na	–	–	–	–
Styrene	100-42-5	2.2	31	0	–	–	360	5	1%	0.00169 J	0.12	774	2	0.3%	0.000676 J	667	4	1%	0.00349	15,000	113	2	2%	1.42
Tert-Butylbenzene	98-06-6	19	31	0	–	–	360	1	0.3%	0.0180	1.0	774	7	1%	0.0271 J	667	4	1%	0.105	na	–	–	–	–
Tetrachloroethene (PCE)	127-18-4	0.050	31	31	100%	**0.701 J**	475	105	22%	**2.44**	0.0050	830	706	85%	**16,400**	694	215	31%	**15.1**	320	116	85	73%	215
Tetrahydrofuran	109-99-9	na	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	30,000	113	25	22%	120
Toluene	108-88-3	4.5	31	2	6%	0.00195 J	475	84	18%	0.382	0.27	788	128	16%	**0.580**	694	311	45%	**0.852**	76,000	113	67	59%	535
Diesel Range Organics (DRO)	na	2,000	0	0	–	–	283	14	5%	906	2,000	0	0	–	–	88	3	3%	99.0	na	–	–	–	–
Oil Range Organics/Lube Oil (ORO)	na	2,000	0	0	–	–	283	29	10%	1,500	2,000	0	0	–	–	91	2	2%	162	na	–	–	–	–
Total DRO + ORO	na	2,000	0	0	–	–	285	31	11%	1,860	2,000	0	0	–	–	91	3	3%	261	na	–	–	–	–
trans-1,2-Dichloroethene (tDCE)	156-60-5	0.52	31	1	3%	0.000423 J	475	3	1%	0.0162	0.032	788	273	35%	**0.700**	694	65	9%	**0.0482**	610	116	1	1%	1.29
Trans-1,3-Dichloropropene	10061-02-6	0.0023	31	0	–	–	360	0	–	–	0.00014	774	2	0.3%	**0.00731 J**	666	0	–	–	na	113	0	–	–
trans-1,4-Dichloro-2-butene	110-57-6	na	31	0	–	–	167	2	1%	0.0202	na	774	3	0.4%	0.254	577	5	1%	0.456	na	–	–	–	–
Trichloroethene (TCE)	79-01-6	0.025	31	16	52%	**0.0285**	475	15	3%	**0.969**	0.0020	829	619	75%	**113**	694	181	26%	**3.57**	11	116	9	8%	**17.4**
Trichlorofluoromethane (CFC-11)	75-69-4	23	31	0	–	–	475	5	1%	0.00358	0.79	774	0	–	–	693	35	5%	0.0638 J	11,000	113	77	68%	80.9

Table 12

Summary of Site Detections, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Analyte Name	CAS Number	Soil																	Soil Vapor				
		Vadose Zone									Saturated Zone												
			On Property				Off Property					On Property					Off Property							
		PCUL	n	n Det.	FOD	Max Det.	n	n Det.	FOD	Max Det.	PCUL	n	n Det.	FOD	Max Det.	n	n Det.	FOD	Max Det.	Screening Level	n	n Det.	FOD	Max Det.
Vinyl Acetate	108-05-4	33	31	0	–	–	365	1	0.3%	0.0588 J	2.3	774	0	–	–	654	6	1%	0.0194 J	3,000	113	0	–	–
Vinyl bromide (bromoethene)	593-60-2	na	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	5.6	113	0	–	–
Vinyl Chloride	75-01-4	*0.0040*	31	1	3%	0.00142	475	1	0.2%	0.00371 J	0.0040	830	415	50%	**17.0**	694	107	15%	**0.789**	9.5	116	4	3%	**473**
Xylenes, Total	1330-20-7	14	31	0	–	–	474	60	13%	7.00	0.83	788	29	4%	**6.02**	694	56	8%	**4.90**	1,500	113	49	43%	770 J

Notes:

PCUL = Preliminary cleanup level from Washington State Department of Ecology, Memorandum from P. Tomlinson to TCP File for American Linen Supply Co. Dexter Ave. (FSID 3573, CSID 12004) re: Development of site-specific preliminary cleanup levels, December 14, 2021. PCULs based on the practical quantitation limits (PQLs) italicized.

n = Number of samples analyzed from Quarter 1 2017 through Quarter 2 2021, including sample data from other consultants, excluding duplicates and other QC samples.

n Det. = Number of analyzed samples detected above the laboratory method detection limit (MDL).

FOD = Frequency of Detection.

Max. Det. = Maximum detection.

na = Not available.

– = Not applicable.

Maximum detections greater the applicable PCUL are shown in **bold.**

J = The reported concentration is an estimate based on detectable results between the method detection limit and reporting limit, laboratory QA/QC, or data validation review.

J+ = the result is an estimated quantity, but the result may be biased high.

J- = the result is an estimated quantity, but the result may be biased low.

Table shows complete list of volatile organic compounds (VOCs) and petroleum hydrocarbons analyzed for at the Site. Standard VOC analyte lists vary by medium and laboratory.

Table 12

Summary of Site Detections, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Analyte Name	CAS Number	PCUL	Groundwater																											
			Shallow Zone								Intermediate A Zone								Intermediate B Zone								Deep Zone			
			On Property				Off Property				On Property				Off Property				On Property				Off Property				On Property				Off Property			
			n	n Det.	FOD	Max Det.	n	n Det.	FOD	Max Det.	n	n Det.	FOD	Max Det.	n	n Det.	FOD	Max Det.	n	n Det.	FOD	Max Det.	n	n Det.	FOD	Max Det.	n	n Det.	FOD	Max Det.	n	n Det.	FOD	Max Det.
1,1,1,2-Tetrachloroethane	630-20-6	1.7	29	0	–	–	179	0	–	–	17	0	–	–	258	0	–	–	45	0	–	–	216	0	–	–	24	0	–	–	287	0	–	–
1,1,1-Trichloroethane (TCA)	71-55-6	200	29	0	–	–	179	2	1%	0.298 J	17	0	–	–	258	11	4%	0.302 J	45	0	–	–	216	0	–	–	24	0	–	–	292	0	–	–
1,1,2,2-Tetrachloroethane	79-34-5	0.22	29	0	–	–	179	0	–	–	17	0	–	–	258	0	–	–	45	0	–	–	216	0	–	–	24	0	–	–	292	0	–	–
1,1,2-Trichloroethane	79-00-5	3.0	29	0	–	–	179	0	–	–	17	0	–	–	258	0	–	–	45	0	–	–	216	0	–	–	24	0	–	–	292	0	–	–
1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1	240,000	29	0	–	–	164	1	1%	0.465 J	17	0	–	–	249	16	6%	0.631	45	0	–	–	204	0	–	–	21	0	–	–	283	0	–	–
1,1-Dichloroethane	75-34-3	7.7	29	0	–	–	179	6	3%	1.57	17	0	–	–	258	30	12%	2.60	45	3	7%	0.512	216	12	6%	0.700 J	24	0	–	–	292	26	9%	0.999
1,1-Dichloroethene	75-35-4	7.0	29	16	55%	2.31	179	8	4%	0.893	17	6	35%	**35.5**	258	86	33%	**22.1**	45	25	56%	**240**	216	53	25%	**17.5**	24	13	54%	**14.1**	292	92	32%	**15.0**
1,1-Dichloropropene	563-58-6	na	29	0	–	–	179	0	–	–	17	0	–	–	258	0	–	–	45	0	–	–	216	0	–	–	24	0	–	–	292	0	–	–
1,2,3-Trichlorobenzene	87-61-6	6.4	29	0	–	–	179	0	–	–	17	0	–	–	258	2	1%	0.456	45	0	–	–	216	0	–	–	24	0	–	–	292	0	–	–
1,2,3-Trichloropropane	96-18-4	0.00038	29	0	–	–	179	0	–	–	17	0	–	–	258	0	–	–	45	0	–	–	216	0	–	–	24	0	–	–	292	0	–	–
1,2,3-Trimethylbenzene	526-73-8	80	29	0	–	–	164	23	14%	**119**	17	3	18%	0.465 J	249	6	2%	0.556	45	9	20%	4.40	204	3	1%	20.9 J	24	0	–	–	283	1	0.4%	0.139 J
1,2,4-Trichlorobenzene	120-82-1	15	29	0	–	–	169	0	–	–	17	0	–	–	253	0	–	–	45	0	–	–	207	0	–	–	24	0	–	–	286	0	–	–
1,2,4-Trimethylbenzene	95-63-6	80	29	0	–	–	179	29	16%	**157**	17	4	24%	1.37 J	258	18	7%	1.36 J	45	10	22%	17.4	216	7	3%	34.8	24	0	–	–	292	13	4%	0.225 J
1,2-Dibromo-3-Chloropropane	96-12-8	0.20	29	0	–	–	179	0	–	–	17	0	–	–	258	0	–	–	45	0	–	–	216	0	–	–	24	0	–	–	292	0	–	–
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.050	29	0	–	–	169	0	–	–	17	0	–	–	253	0	–	–	45	0	–	–	207	0	–	–	24	0	–	–	287	0	–	–
1,2-Dichlorobenzene	95-50-1	600	29	0	–	–	179	0	–	–	17	0	–	–	258	0	–	–	45	2	4%	0.147 J	216	0	–	–	24	0	–	–	292	0	–	–
1,2-Dichloroethane (EDC)	107-06-2	4.8	29	2	7%	0.199 J	169	4	2%	0.229 J	17	0	–	–	253	18	7%	0.895	45	0	–	–	207	10	5%	2.60 J	24	0	–	–	286	10	3%	0.478
1,2-Dichloropropane	78-87-5	5.0	29	0	–	–	179	2	1%	0.878	17	0	–	–	258	16	6%	1.20	45	0	–	–	216	3	1%	0.710 J	24	0	–	–	292	3	1%	0.376
1,2-Dichlorotetrafluoroethane	766-14-2	na	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
1,3,5-Trimethylbenzene	108-67-8	80	29	0	–	–	169	18	11%	12.8	17	2	12%	0.159 J	253	2	1%	0.184 J	45	8	18%	5.31	207	2	1%	13.2	24	0	–	–	286	1	0.3%	0.141 J
1,3-Butadiene	106-99-0	na	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
1,3-Dichlorobenzene	541-73-1	na	29	0	–	–	179	1	1%	0.133 J	17	0	–	–	258	0	–	–	45	0	–	–	216	0	–	–	24	0	–	–	292	0	–	–
1,3-Dichloropropane	142-28-9	160	29	0	–	–	179	0	–	–	17	0	–	–	258	0	–	–	45	0	–	–	216	0	–	–	24	0	–	–	292	0	–	–
1,4-Dichlorobenzene	106-46-7	75	29	1	3%	0.144 J	179	0	–	–	17	0	–	–	258	0	–	–	45	0	–	–	216	0	–	–	24	0	–	–	292	0	–	–
1,4-Dioxane	123-91-1	0.44	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
2,2,4-Trimethylpentane	540-84-1	na	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
2,2-Dichloropropane	594-20-7	na	29	0	–	–	179	0	–	–	17	0	–	–	258	0	–	–	45	1	2%	0.128 J	216	0	–	–	24	0	–	–	292	0	–	–
2-Butanone (Methyl Ethyl Ketone)	78-93-3	4,800	29	2	7%	93.1 J	165	3	2%	1.30 J	17	11	65%	44.9	250	6	2%	32.9	45	11	24%	213 J	204	10	5%	456	21	0	–	–	283	5	2%	68.5
2-Chlorotoluene	95-49-8	160	29	0	–	–	179	0	–	–	17	0	–	–	258	0	–	–	45	0	–	–	216	0	–	–	24	0	–	–	292	0	–	–
2-Hexanone (Methyl butyl ketone)	591-78-6	40	29	0	–	–	110	0	–	–	17	1	6%	1.26 J	151	0	–	–	45	0	–	–	120	0	–	–	18	0	–	–	173	0	–	–
2-Propanol (isopropanol)	67-63-0	na	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
4-Chlorotoluene	106-43-4	na	29	0	–	–	179	0	–	–	17	0	–	–	257	0	–	–	45	0	–	–	216	0	–	–	24	0	–	–	292	0	–	–
4-Ethyltoluene	622-96-8	na	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
4-Isopropyltoluene (p-Isopropyltoluene)	99-87-6	na	29	0	–	–	169	15	9%	2.50	17	0	–	–	253	0	–	–	45	3	7%	0.573	207	1	0.5%	1.13	24	0	–	–	286	0	–	–
Acetone	67-64-1	7,200	29	17	59%	38.3	165	37	22%	78.8	17	12	71%	107 J	249	80	32%	179 J-	45	22	49%	65.4 J	204	57	28%	364 J-	21	7	33%	3.72 J	283	89	31%	114 J
Acrylonitrile	107-13-1	0.081	29	0	–	–	164	0	–	–	17	0	–	–	249	0	–	–	45	0	–	–	204	0	–	–	21	0	–	–	283	0	–	–
Allyl chloride	107-05-1	2.1	0	0	–	–	55	0	–	–	0	0	–	–	100	3	3%	–	0	0	–	–	85	0	–	–	0	0	–	–	107	0	–	–
Benzene	71-43-2	5.0	29	18	62%	0.694	179	53	30%	**257**	17	9	53%	0.342 J	257	96	37%	**46.6**	45	12	27%	0.695 J	216	62	29%	**28.8**	24	0	–	–	292	87	30%	**44.1**
Benzyl chloride	100-44-7	na	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Bromobenzene	108-86-1	64	29	0	–	–	169	0	–	–	17	0	–	–	253	0	–	–	45	0	–	–	207	0	–	–	24	0	–	–	286	0	–	–
Bromochloromethane	74-97-5	na	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Bromodichloromethane	75-27-4	7.1	29	0	–	–	179	0	–	–	17	0	–	–	257	0	–	–	45	0	–	–	216	1	0.5%	1.76	24	0	–	–	292	0	–	–
Bromoform	75-25-2	55	29	0	–	–	169	0	–	–	17	0	–	–	252	0	–	–	45	0	–	–	207	0	–	–	24	0	–	–	286	0	–	–
Bromomethane	74-83-9	11	29	0	–	–	169	0	–	–	17	0	–	–	252	0	–	–	45	0	–	–	207	0	–	–	24	0	–	–	286	0	–	–

Table 12

Summary of Site Detections, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Analyte Name	CAS Number	PCUL	Groundwater																											
			Shallow Zone								Intermediate A Zone								Intermediate B Zone								Deep Zone			
			On Property				Off Property				On Property				Off Property				On Property				Off Property				On Property			
			n	n Det.	FOD	Max Det.	n	n Det.	FOD	Max Det.	n	n Det.	FOD	Max Det.	n	n Det.	FOD	Max Det.	n	n Det.	FOD	Max Det.	n	n Det.	FOD	Max Det.	n	n Det.	FOD	Max Det.
Carbon Disulfide	75-15-0	800	29	1	3%	0.202 J	112	4	4%	0.147 J	17	8	47%	9.13	155	17	11%	3.85	45	16	36%	16.4	120	34	28%	6.95 J	21	10	48%	2.27
Carbon Tetrachloride	56-23-5	5.0	29	0	–	–	179	2	1%	0.273 J	17	0	–	–	257	1	0.4%	0.236	45	0	–	–	216	0	–	–	24	0	–	–
Chlorobenzene	108-90-7	100	29	0	–	–	179	0	–	–	17	0	–	–	257	0	–	–	45	0	–	–	216	0	–	–	24	0	–	–
Chlorodibromomethane	124-48-1	5.2	29	0	–	–	179	0	–	–	17	0	–	–	258	0	–	–	45	0	–	–	216	0	–	–	24	0	–	–
Chloroethane (Ethyl chloride)	75-00-3	na	29	7	24%	2.89	179	2	1%	0.977	17	10	59%	28.8	258	19	7%	4.31	45	7	16%	4.08	216	6	3%	2.01 J	24	0	–	–
Chloroform	67-66-3	14	29	0	–	–	179	13	7%	**20.9**	17	5	29%	1.02	258	7	3%	1.39 J	45	7	16%	4.46 J	216	6	3%	0.826	24	5	21%	3.83
Chloromethane	74-87-3	na	29	0	–	–	179	1	1%	0.161 J	17	1	6%	6.51	258	0	–	–	45	0	–	–	216	1	0.5%	2.80	24	2	8%	2.07
cis-1,2-Dichloroethene (cDCE)	156-59-2	16	29	29	100%	**516**	179	86	48%	**75.1**	17	17	100%	**30,800**	264	193	73%	**6,400**	45	42	93%	**127,000**	216	144	67%	**9,100**	24	24	100%	**1,070**
cis-1,3-Dichloropropene	10061-01-5	0.44	29	0	–	–	169	0	–	–	17	0	–	–	253	0	–	–	45	0	–	–	207	0	–	–	24	0	–	–
Cyclohexane	110-82-7	na	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Dibromomethane	74-95-3	80	29	0	–	–	169	0	–	–	17	0	–	–	253	0	–	–	45	0	–	–	207	0	–	–	24	0	–	–
Dichlorodifluoromethane (CFC-12)	75-71-8	1,600	29	0	–	–	165	0	–	–	17	0	–	–	250	0	–	–	45	0	–	–	204	0	–	–	24	0	–	–
di-Isopropyl ether	108-20-3	na	29	0	–	–	164	11	7%	1.41	17	0	–	–	249	21	8%	1.17	45	0	–	–	204	8	4%	1.45	21	0	–	–
Ethanol	64-17-5	na	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Ethyl ether	60-29-7	1,600	0	0	–	–	55	8	15%	0.199	0	0	–	–	97	17	18%	7.07	0	0	–	–	85	7	8%	16.1	0	0	–	–
Ethylbenzene	100-41-4	700	29	0	–	–	179	40	22%	307	17	3	18%	4.88	258	35	14%	0.327 J	45	10	22%	4.83	216	21	10%	11.5	24	0	–	–
Gasoline Range Organics (GRO) w/ benzene	na	800	15	5	33%	41.2 J	84	35	42%	**2190 J+**	17	10	59%	91.9 J	71	38	54%	160	44	24	55%	256	83	26	31%	580 J	20	5	25%	–
Heptane	142-82-5	na	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Hexachlorobutadiene	87-68-3	0.56	29	0	–	–	179	0	–	–	17	0	–	–	258	0	–	–	45	0	–	–	216	0	–	–	24	0	–	–
Hexane (n-Hexane)	110-54-3	480	29	0	–	–	112	18	16%	65.1	17	2	12%	0.589 J	156	4	3%	–	45	0	–	–	120	3	3%	0.466 J	21	0	–	–
Iodomethane (Methyl Iodide)	74-88-4	na	29	0	–	–	164	0	–	–	17	0	–	–	249	0	–	–	45	1	2%	0.461	204	1	0.5%	0.659	21	0	–	–
Isopropylbenzene (Cumene)	98-82-8	800	29	0	–	–	169	33	20%	149	17	0	–	–	253	8	3%	5.05	45	3	7%	0.582	207	5	2%	2.67	24	0	–	–
Methyl isobutyl ketone (4-Methyl-2-pentanone)	108-10-1	640	29	1	3%	0.888 J	165	0	–	–	17	0	–	–	249	2	1%	2.97	45	0	–	–	204	4	2%	8.50	21	0	–	–
Methyl methacrylate	80-62-6	na	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Methyl tert-butyl ether (MTBE)	1634-04-4	24	29	0	–	–	169	0	–	–	17	0	–	–	252	5	2%	0.0640	45	0	–	–	207	6	3%	1.18	24	0	–	–
Methylene Chloride	75-09-2	5.0	29	0	–	–	179	0	–	–	17	0	–	–	257	4	2%	**50.0**	45	2	4%	1.24 J	216	1	0%	**89.3 J**	24	0	–	–
Naphthalene	91-20-3	160	29	0	–	–	170	22	13%	115 J	17	0	–	–	254	9	4%	1.80	45	8	18%	1.18 J	212	5	2%	5.94 J	24	4	17%	1.07 J
n-Butylbenzene	104-51-8	400	29	0	–	–	168	17	10%	14.2	17	0	–	–	251	1	0.4%	0.255 J	45	0	–	–	207	1	0.5%	0.756	24	0	–	–
Propene	115-07-1	na	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
n-Propylbenzene	103-65-1	800	29	0	–	–	169	27	16%	359	17	1	6%	0.164 J	252	8	3%	1.64	45	5	11%	2.04	207	3	1%	5.12	24	0	–	–
sec-Butylbenzene	135-98-8	800	29	1	3%	0.180 J	169	25	15%	15.6	17	0	–	–	251	2	1%	0.159 J	45	1	2%	0.175 J	207	1	0.5%	0.730	24	0	–	–
Styrene	100-42-5	100	29	0	–	–	169	0	–	–	17	1	6%	0.145 J	252	1	0.4%	0.164 J	45	0	–	–	207	2	1%	0.242 J	24	0	–	–
Tert-Butylbenzene	98-06-6	800	29	0	–	–	169	12	7%	1.89	17	0	–	–	252	0	–	–	45	0	–	–	207	0	–	–	24	0	–	–
Tetrachloroethene (PCE)	127-18-4	5.0	29	15	52%	**285**	179	55	31%	**157**	17	12	71%	**23,700**	264	114	43%	**4,190**	45	30	67%	**97,200**	216	57	26%	**660**	24	18	75%	**2,800**
Tetrahydrofuran	109-99-9	7,200	0	0	–	–	55	6	11%	1.33	0	0	–	–	96	18	19%	124	0	0	–	–	85	7	8%	21.6 J	0	0	–	–
Toluene	108-88-3	640	29	6	21%	2.04	179	65	36%	16.3	17	5	29%	0.862	258	91	35%	4.45 J	45	11	24%	5.12 J+	216	78	36%	10.9	24	5	21%	3.90
Diesel Range Organics (DRO)	na	500	0	0	–	–	17	8	47%	**790 J**	0	0	–	–	9	1	11%	160 J	0	0	–	–	12	3	25%	83 J	0	0	–	–
Oil Range Organics/Lube Oil (ORO)	na	500	0	0	–	–	17	0	–	–	0	0	–	–	9	0	–	–	0	0	–	–	12	0	–	–	0	0	–	–
Total DRO + ORO	na	500	0	0	–	–	17	8	47%	**790 J**	0	0	–	–	9	1	11%	160 J	0	0	–	–	12	3	25%	83 J	0	0	–	–
trans-1,2-Dichloroethene (tDCE)	156-60-5	100	29	20	69%	4.31	179	9	5%	0.445 J	17	11	65%	**129**	264	111	42%	22.2	45	25	56%	**781**	216	66	31%	22.3	24	12	50%	9.58
Trans-1,3-Dichloropropene	10061-02-6	0.44	29	0	–	–	169	0	–	–	17	0	–	–	252	0	–	–	45	0	–	–	207	0	–	–	24	0	–	–
trans-1,4-Dichloro-2-butene	110-57-6	na	29	0	–	–	164	3	2%	0.122 J	17	0	–	–	251	0	–	–	45	0	–	–	205	1	0.5%	0.115 J	21	0	–	–
Trichloroethene (TCE)	79-01-6	4.0	29	20	69%	**85.1**	179	49	27%	**45.2**	17	13	76%	**8,050**	264	140	53%	**1,270**	45	31	69%	**18,700**	216	90	42%	**807**	24	14	58%	**613**
Trichlorofluoromethane (CFC-11)	75-69-4	2,400	29	0	–	–	179	0	–	–	17	0	–	–	258	0	–	–	45	0	–	–	216	0	–	–	24	0	–	–

Table 12

Summary of Site Detections, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Analyte Name	CAS Number	PCUL	Groundwater																													
			Shallow Zone								Intermediate A Zone								Intermediate B Zone								Deep Zone							
			On Property				Off Property				On Property				Off Property				On Property				Off Property				On Property				Off Property			
			n	n Det.	FOD	Max Det.	n	n Det.	FOD	Max Det.	n	n Det.	FOD	Max Det.	n	n Det.	FOD	Max Det.	n	n Det.	FOD	Max Det.	n	n Det.	FOD	Max Det.	n	n Det.	FOD	Max Det.	n	n Det.	FOD	Max Det.
Vinyl Acetate	108-05-4	8,000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Vinyl bromide (bromoethene)	593-60-2	na	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Vinyl Chloride	75-01-4	0.29	29	27	93%	**90.6**	179	45	25%	**43.9**	17	16	94%	**863**	264	147	56%	**8,610**	45	38	84%	**11,000**	216	129	60%	**7,290**	24	20	83%	**128**	301	187	62%	**1,800**
Xylenes, Total	1330-20-7	1,600	29	0	–	–	179	42	23%	181	17	3	18%	1.64 J	258	42	16%	6.15 J	45	8	18%	25.9	216	18	8%	56.7	24	0	–	–	292	35	12%	1.18

Notes:

PCUL = Preliminary cleanup level from Washington State Department of Ecology, Memorandum from P. Tomlinson to TCP File for American Linen Supply Co. Dexter Ave. (FSID 3573, CSID 12004) re: Development of site-specific preliminary cleanup levels, December 14, 2021. PCULs based on the practical quantitation limits (PQLs) italicized.

n = Number of samples analyzed from Quarter 1 2017 through Quarter 2 2021, including sample data from other consultants, excluding duplicates and other QC samples.

n Det. = Number of analyzed samples detected above the laboratory method detection limit (MDL).

FOD = Frequency of Detection.

Max. Det. = Maximum detection.

na = Not available.

– = Not applicable.

Maximum detections greater the applicable PCUL are shown in bold.

J = The reported concentration is an estimate based on detectable results between the method detection limit and reporting limit, laboratory QA/QC, or data validation review.

J+ = the result is an estimated quantity, but the result may be biased high.

J- = the result is an estimated quantity, but the result may be biased low.

Table shows complete list of volatile organic compounds (VOCs) and petroleum hydrocarbons analyzed for at the Site. Standard VOC analyte lists vary by medium and laboratory.

Table 13

Summary of PCE, TCE, cDCE, and VC in Soil
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Zone	Maximum Concentration (mg/kg)							
			PCE	Depth	TCE	Depth	cDCE	Depth	VC	Depth
	Vadose Zone PCUL (V)		**0.050**		**0.025**		**0.078**		***0.0040***	
	Saturated Zone PCUL (S)		***0.0050***		***0.0020***		**0.0052**		***0.0040***	
On Property										
B-1	Property, SE quadrant	V	–		–		–		–	
		S	0.0012 U	13	0.0012 U	13	**0.0021**	13	0.0012 U	13
B-2	Property, SE quadrant	V	–		–		–		–	
		S	**0.92**	11	**0.085**	11	**0.64**	11	0.0012 U	11
B-3	Property, SE quadrant	V	–		–		–		–	
		S	0.0013 U	12	0.0013 U	12	**0.0016**	12	0.0013 U	12
B-5	Property, SE quadrant	V	–		–		–		–	
		S	**0.12**	11.5	**0.0088**	11.5	**0.013**	11.5	0.0012 U	11.5
B-6	Property, NW quadrant	V	–		–		–		–	
		S	**2.3**	18	**0.0078**	18	**0.0047**	12	0.0013 U	18
B-7	Property, NW quadrant	V	–		–		–		–	
		S	**0.031**	6	**0.0029**	6	**0.0052**	6	0.0012 U	6
B-8	Property, SW quadrant	V	–		–		–		–	
		S	**1.4**	8	**0.017**	8	**0.021**	8	0.0011 U	4
B-9	Property, SW quadrant	V	–		–		–		–	
		S	**170**	4	**0.13**	8	**0.21**	8	**0.21**	8
B-10	Property, SE quadrant	V	–		–		–		–	
		S	**0.017**	12	**0.0014**	12	**0.0061**	12	0.0011 U	12
B-201	Property, SW quadrant	V	–		–		–		–	
		S	**0.0679**	10	**0.00638**	10	**0.0784**	30	0.0012 U	10
B-202	Property, NW quadrant	V	–		–		–		–	
		S	**0.108**	5	**0.00580**	5	0.00132 U	50	0.00132 U	50
B-203	Property, NE quadrant	V	–		–		–		–	
		S	**0.910**	40	**0.0674**	40	**0.168**	40	**0.0438**	40
B-204	Property, SE quadrant	V	–		–		–		–	
		S	**0.0318**	40	**0.0101**	45	**16.7**	45	**2.94**	45
B-205	Property, NE quadrant	V	–		–		–		–	
		S	**0.0625**	55	**0.00923**	55	**0.0155**	55	**0.00562**	55

Table 13

Summary of PCE, TCE, cDCE, and VC in Soil
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Zone	Maximum Concentration (mg/kg)							
			PCE	Depth	TCE	Depth	cDCE	Depth	VC	Depth
	Vadose Zone PCUL (V)		**0.050**		**0.025**		**0.078**		***0.0040***	
	Saturated Zone PCUL (S)		***0.0050***		***0.0020***		**0.0052**		***0.0040***	
B-206	Property, NW quadrant	V	–		–		–		–	
		S	**17.2**	49	**2.28**	49	**12.6**	30	**0.154**	49
B-207	Property, NE quadrant	V	–		–		–		–	
		S	**173**	80	**1.23**	80	**6.93**	41	**0.428**	41
B-208	Property, SE quadrant	V	–		–		–		–	
		S	**0.0109 J**	35	**0.00162**	35	**0.160**	35	**0.00719**	35
B-209	Property, SE quadrant	V	–		–		–		–	
		S	**0.00682**	35	**0.00119**	35	**0.0508**	35	**0.00915**	35
B-210	Property, SE quadrant	V	–		–		–		–	
		S	**0.0730**	15	**0.0647**	15	**3.27**	46	**0.00182 J**	46
B-211	Property, SW quadrant	V	–		–		–		–	
		S	**46.1**	70	**2.88**	70	**5.58**	65	**1.15**	60
B-216	Property, SW quadrant	V	–		–		–		–	
		S	**0.0139**	55	**0.00182**	55	**0.182**	55	**0.00113**	55
B-217	Property, SW quadrant	V	**0.0221**	15	0.000317 U	15	0.000267 U	15	0.00033 U	15
		S	**152**	42	**0.704**	106	**5.73**	42	**0.464 J**	42
B-218	Property, NE quadrant	V	–		–		–		–	
		S	**2.01 J**	50	**0.953 J**	50	**5.25**	40	**0.271**	40
B-219	Property, SE quadrant	V	–		–		–		–	
		S	**0.0534 J**	50	**0.00555**	50	**0.139**	50	**0.156**	50
B-220	Property, NE quadrant	V	–		–		–		–	
		S	**38.9**	40	**5.82**	40	**2.73**	40	**0.143**	32
B-221	Property, NE quadrant	V	–		–		–		–	
		S	**8,270**	45	**4.43 J**	45	**2.56**	22	**0.00153**	70
B-222	Property, NW quadrant	V	–		–		–		–	
		S	**4.09**	50	**1.4 J**	50	**7.34**	42	**0.127**	42
B-223	Property, NW quadrant	V	–		–		–		–	
		S	**5,560**	30	**1.08**	16	**1.71**	16	**0.00775**	39
B-224	Property, NE quadrant	V	–		–		–		–	
		S	**6.55**	36	**0.269**	36	**0.326**	36	**0.0577**	11

Table 13

Summary of PCE, TCE, cDCE, and VC in Soil
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Zone	Maximum Concentration (mg/kg)							
			PCE	Depth	TCE	Depth	cDCE	Depth	VC	Depth
	Vadose Zone PCUL (V)		**0.050**		**0.025**		**0.078**		***0.0040***	
	Saturated Zone PCUL (S)		***0.0050***		***0.0020***		**0.0052**		***0.0040***	
B-225	Property, NW quadrant	V	–		–		–		–	
		S	**4.26**	16	**0.353**	16	**1.62**	16	**0.0460**	16
B-226	Property, NW quadrant	V	–		–		–		–	
		S	**21.7 J**	16	**0.917 J**	16	**1.84 J**	16	**0.0557 J**	16
B-227	Property, NE quadrant	V	–		–		–		–	
		S	**8.38**	31	**0.311**	21	**0.429**	16	**0.0186**	21
B-228	Property, NW quadrant	V	–		–		–		–	
		S	**203 J**	16	**0.68 J**	16	**0.811 J**	16	**0.0217**	36
B-229	Property, NE quadrant	V	–		–		–		–	
		S	**158 J+**	45	**1.53**	31	**2.35**	31	**0.126**	41
B-230	Property, NW quadrant	V	–		–		–		–	
		S	**2820 J**	21	**9.17**	16	**10.4**	16	**0.00225**	26
B-231	Property, NW quadrant	V	–		–		–		–	
		S	**0.728**	21	**0.180**	21	**2.18**	16	**0.118**	36
B-232	Property, NE quadrant	V	–		–		–		–	
		S	**11.1**	26	**0.763**	26	**0.474**	26	**0.0123**	36
B-233	Property, NE quadrant	V	–		–		–		–	
		S	**17.3**	31	**2.55**	26	**2.40**	26	**0.0584**	21
B-234	Property, SW quadrant	V	**0.00155**	11	0.000324 U	11	0.000273 U	11	0.000338 U	11
		S	0.000292 U	30	0.000295 U	30	0.000249 U	30	0.000308 U	30
B-234A	Property, SW quadrant	V	–		–		–		–	
		S	**0.0533**	45	**0.00364**	45	**3.65 J**	42	**0.343 J**	42
B-235	Property, SW quadrant	V	**0.0393**	15	**0.000776 J**	15	0.000261 U	15	0.000349 U	15
		S	**20.7**	45	**1.09**	45	**2.07**	42.5	**0.0885**	45
B-236	Property, SW quadrant	V	–		–		–		–	
		S	**16,400**	42.5	**72.5**	42.5	**2.87**	42.5	**0.407 J**	42.5
B-237	Property, SW quadrant	V	**0.00814**	5	0.000325 U	5	0.000274 U	5	0.000339 U	5
		S	**24.1 J**	42	**0.746 J**	42	**2.83**	45	**0.29 J**	42
B-238	Property, NW quadrant	V	–		–		–		–	
		S	**156**	21	**0.303**	26	**0.375**	26	**0.0375**	26

Table 13

Summary of PCE, TCE, cDCE, and VC in Soil
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Zone	Maximum Concentration (mg/kg)							
			PCE	Depth	TCE	Depth	cDCE	Depth	VC	Depth
	Vadose Zone PCUL (V)		**0.050**		**0.025**		**0.078**		***0.0040***	
	Saturated Zone PCUL (S)		***0.0050***		***0.0020***		**0.0052**		***0.0040***	
B-239	Property, NW quadrant	V	–		–		–		–	
		S	**0.509**	10	**0.104**	10	**0.0366**	10	**0.0159**	10
B-240	Property, NW quadrant	V	–		–		–		–	
		S	**53.7**	15	**0.352**	30	**0.578**	30	**0.0480**	30
B-241	Property, NW quadrant	V	–		–		–		–	
		S	**28.3**	50	**4.69**	50	**7.44**	50	**1.14**	45
B-242	Property, NW quadrant	V	–		–		–		–	
		S	**6.61**	20	**0.0335**	20	**0.00878**	20	**0.00828**	30
B-243	Property, SW quadrant	V	–		–		–		–	
		S	**29 J**	50	**7.72**	50	**16.0**	50	**0.307 J**	55
B-244	Property, SE quadrant	V	–		–		–		–	
		S	**5.05**	60	**0.127**	60	**6.54**	55	**1.35**	40
B-245	Property, SE quadrant	V	**0.00371**	5	0.000304 U	5	**0.00049 J**	5	**0.00142**	5
		S	**0.0737**	30	**0.145**	30	**4.73**	30	**0.224 J**	30
B-246	Property, SE quadrant	V	–		–		–		–	
		S	**12.7**	25	**0.448**	25	**3.36**	30	**0.0308**	30
B-247	Property, SW quadrant	V	–		–		–		–	
		S	**0.0594**	5	**0.00692**	5	**4.71**	50	**0.779**	50
B-248	Property, SW quadrant	V	**0.118**	15	**0.00378**	15	0.00113 U	15	0.000751 U	15
		S	**0.621**	25	**0.0667**	25	**0.553 J+**	60	**0.0124 J-**	75
B-249	Property, NW quadrant	V	–		–		–		–	
		S	**10.3**	20	**0.661**	20	**0.558**	20	0.000807 U	20
B-250	Property, NW quadrant	V	**0.701 J**	2.5	**0.00576**	2.5	**0.00164 J**	2.5	0.000754 U	2.5
		S	**21.7 J**	10	**0.553**	13	**0.833**	20	**0.358**	30
B-251	Property, NW quadrant	V	–		–		–		–	
		S	**12.0**	15	**0.512**	25	**0.191**	25	0.0008 U	20
B-252	Property, NW quadrant	V	**0.306**	2.5	**0.0201**	2.5	**0.0146**	2.5	0.000714 U	2.5
		S	**3.43**	15	**0.682**	15	**1.36**	19	**0.138 J**	19
B-253A	Property, NW quadrant	V	**0.0116 J**	5	**0.0285**	5	**0.0322**	5	0.000778 U	5
		S	**15.7 J**	15	**0.0186 J**	15	**0.00584**	8	0.000769 U	8

Table 13

Summary of PCE, TCE, cDCE, and VC in Soil
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Zone	Maximum Concentration (mg/kg)							
			PCE	Depth	TCE	Depth	cDCE	Depth	VC	Depth
	Vadose Zone PCUL (V)		**0.050**		**0.025**		**0.078**		***0.0040***	
	Saturated Zone PCUL (S)		***0.0050***		***0.0020***		**0.0052**		***0.0040***	
B-254	Property, SW quadrant	V	–		–		–		–	
		S	**46.7**	25	**0.681**	25	**1.20**	25	**0.0111 J**	10
B-254A	Property, SW quadrant	V	–		–		–		–	
		S	**6.24**	30	**0.143**	30	**0.165**	27	**0.0508**	27
B-255	Property, SW quadrant	V	–		–		–		–	
		S	**1.23**	15	**0.0362**	15	**0.0294**	15	**0.00247 J**	15
B-255A	Property, SW quadrant	V	–		–		–		–	
		S	**18.9**	21	**3.11**	21	**2.74**	21	**0.0532 J**	21
B-256	Property, SW quadrant	V	–		–		–		–	
		S	**0.589**	10	**0.182**	10	**0.768**	15	**0.0715**	15
B-257	Property, NW quadrant	V	–		–		–		–	
		S	**2.06**	20	**0.455**	20	**1.67**	20	**0.226**	20
B-258	Property, NW quadrant	V	**0.0198**	3	**0.00793**	3	**0.0116**	3	0.000748 U	3
		S	**16.2**	15	**0.0763**	15	**0.0135**	20	0.000817 U	10
B-259	Property, NW quadrant	V	**0.0784**	2.5	**0.00504**	2.5	**0.00815**	2.5	0.000769 U	2.5
		S	**0.697**	20	**0.253**	20	**0.718**	20	**0.166**	15
B-260	Property, NW quadrant	V	–		–		–		–	
		S	**9.92**	15	**1.98**	15	**0.588**	20	**0.0103**	10
B-261	Property, SW quadrant	V	–		–		–		–	
		S	**112 J+**	20	**0.908**	20	**0.105**	20	0.000818 U	8
B-262	Property, SW quadrant	V	–		–		–		–	
		S	**14.4 J**	5	**0.0634**	20	**0.0429**	20	0.000805 U	5
B-263	Property, SW quadrant	V	–		–		–		–	
		S	**0.416**	18	**0.0154**	18	**0.0894**	18	**0.00733**	18
B-264	Property, NW quadrant	V	–		–		–		–	
		S	**1.29**	10	**0.00852**	15	**0.0025 J**	16	**0.00303**	15
B-265	Property, NW quadrant	V	–		–		–		–	
		S	**2.37 J**	8	**0.00473**	8	**0.00391**	5	0.000815 U	3
B-266	Property, NW quadrant	V	–		–		–		–	
		S	**5.7 J**	20	**0.111**	20	**0.0195**	20	0.0011 U	10

Table 13

Summary of PCE, TCE, cDCE, and VC in Soil
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Zone	Maximum Concentration (mg/kg)							
			PCE	Depth	TCE	Depth	cDCE	Depth	VC	Depth
	Vadose Zone PCUL (V)		**0.050**		**0.025**		**0.078**		***0.0040***	
	Saturated Zone PCUL (S)		***0.0050***		***0.0020***		**0.0052**		***0.0040***	
B-267	Property, SW quadrant	V	–		–		–		–	
		S	**8.01**	20	**0.102**	20	0.0171 U	20	0.017 U	20
CA-A10	Property, NW quadrant	V	–		–		–		–	
		S	**4.68**	21	**0.427**	21	**0.427**	21	0.239 U	21
CA-A12	Property, NW quadrant	V	–		–		–		–	
		S	**35.0**	24	**2.41**	24	**2.41**	24	0.224 U	24
CA-C1	Property, NW quadrant	V	–		–		–		–	
		S	0.261 U	43	0.209 U	43	0.209 U	43	0.261 U	43
CA-C2	Property, NW quadrant	V	–		–		–		–	
		S	0.278 U	10	0.222 U	10	0.222 U	10	0.278 U	10
CA-B8	Property, SW quadrant	V	–		–		–		–	
		S	**2.98**	3	0.232 U	3	0.232 U	3	0.29 U	3
CA-B19	Property, SE quadrant	V	–		–		–		–	
		S	–		–		–		–	
CA-B10	Property, NW quadrant	V	–		–		–		–	
		S	**1,220**	20	**3.26**	20	**3.26**	20	**0.292**	20
CA-B11	Property, NW quadrant	V	–		–		–		–	
		S	**191**	27	**0.270**	27	**0.270**	27	0.225 U	27
CA-B18	Property, NE quadrant	V	–		–		–		–	
		S	**0.0961 J**	20	0.168 U	20	**2.41**	20	0.21 U	20
CA-B20	Property, SE quadrant	V	–		–		–		–	
		S	**0.141 J**	31	0.186 U	31	0.186 U	31	0.232 U	31
CA-C7	Property, SW quadrant	V	–		–		–		–	
		S	**0.167 J**	25	0.198 U	25	0.198 U	25	**0.172 J**	25
CA-C8	Property, NW quadrant	V	–		–		–		–	
		S	0.209 U	35	0.167 U	35	0.167 U	35	0.209 U	35
CA-C9	Property, NW quadrant	V	–		–		–		–	
		S	**15.0**	9	0.177 U	9	0.177 U	9	0.221 U	9
CA-C10	Property, NW quadrant	V	–		–		–		–	
		S	**713**	17	**2.86**	17	**2.86**	17	0.291 U	26

Table 13

Summary of PCE, TCE, cDCE, and VC in Soil
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Zone	Maximum Concentration (mg/kg)							
			PCE	Depth	TCE	Depth	cDCE	Depth	VC	Depth
	Vadose Zone PCUL (V)		**0.050**		**0.025**		**0.078**		***0.0040***	
	Saturated Zone PCUL (S)		***0.0050***		***0.0020***		**0.0052**		***0.0040***	
CA-C13	Property, SW quadrant	V	–		–		–		–	
		S	0.29 U	Comp	0.232 U	Comp	0.232 U	Comp	0.29 U	Comp
CA-D1	Property, SW quadrant	V	–		–		–		–	
		S	0.26 U	Comp	0.208 U	Comp	0.208 U	Comp	0.26 U	Comp
CA-D2	Property, SW quadrant	V	–		–		–		–	
		S	**26.0**	31	0.224 U	52	0.224 U	52	0.28 U	52
CA-D3	Property, SW quadrant	V	–		–		–		–	
		S	**4.58**	40	**0.240**	40	**0.240**	40	**0.472**	40
CA-D4	Property, SW quadrant	V	–		–		–		–	
		S	**1.84**	54	**0.121 J**	54	**0.121 J**	54	0.314 U	51
CA-D5	Property, NW quadrant	V	–		–		–		–	
		S	**904**	22	**1.49**	22	**1.49**	22	0.229 U	22
CA-D6	Property, NW quadrant	V	–		–		–		–	
		S	**22.3**	56	**1.32**	65	**1.32**	65	0.312 U	65
CA-D7	Property, NW quadrant	V	–		–		–		–	
		S	**64.1**	15	**0.744**	15	**0.744**	15	0.202 U	15
DB01	Property, NW quadrant	V	–		–		–		–	
		S	**0.042**	10	0.03 U	10	0.05 U	10	0.05 U	10
DB02	Property, NE quadrant	V	–		–		–		–	
		S	**2.0**	40	**0.060**	40	0.05 U	10	0.05 U	10
DB03	Property, NE quadrant	V	–		–		–		–	
		S	**3.6**	55	**0.23**	60	**0.15**	60	0.1 U	5
DB04	Property, NW quadrant	V	–		–		–		–	
		S	**8.0**	35	0.03 U	10	0.05 U	10	0.05 U	10
DB05	Property, SW quadrant	V	0.025 U	10	0.03 U	10	0.05 U	10	0.05 U	10
		S	**14**	40	**0.085**	40	0.05 U	20	0.05 U	20
DB06	Property, SW quadrant	V	0.025 U	10	0.03 U	10	0.05 U	10	0.05 U	10
		S	**30**	35	**0.26**	35	**0.096**	35	0.05 U	25
DB07	Property, SE quadrant	V	–		–		–		–	
		S	**16**	35	**0.96**	70	**0.53**	60	0.05 U	5

Table 13

Summary of PCE, TCE, cDCE, and VC in Soil
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Zone	Maximum Concentration (mg/kg)							
			PCE	Depth	TCE	Depth	cDCE	Depth	VC	Depth
	Vadose Zone PCUL (V)		**0.050**		**0.025**		**0.078**		***0.0040***	
	Saturated Zone PCUL (S)		***0.0050***		***0.0020***		**0.0052**		***0.0040***	
DB08	Property, SE quadrant	V	–		–		–		–	
		S	**4.5**	35	**0.25**	50	**0.94**	35	0.05 U	10
DB09	Property, SE quadrant	V	–		–		–		–	
		S	**6.1**	30	**0.28**	40	**0.25**	30	0.05 U	10
DB10	Property, SW quadrant	V	–		–		–		–	
		S	**57**	45	**0.40**	35	0.5 U	35	0.5 U	35
DB11	Property, SW quadrant	V	0.025 U	15	0.03 U	15	0.05 U	15	0.05 U	15
		S	**15**	45	**0.12**	45	0.05 U	25	0.05 U	25
DB12	Property, NW quadrant	V	–		–		–		–	
		S	**18**	20	**0.56**	20	**1.6**	20	0.05 U	10
DB13	Property, SW quadrant	V	–		–		–		–	
		S	**2.7**	35	**0.24**	35	**0.063**	35	0.05 U	10
DB14	Property, NE quadrant	V	–		–		–		–	
		S	**0.050**	40	0.03 U	10	**0.077**	40	0.05 U	10
G-MW1	Property, NW quadrant	V	–		–		–		–	
		S	**237**	20	**0.394**	32.5	0.052 U	32.5	0.026 U	32.5
G-MW3	Property, SE quadrant	V	–		–		–		–	
		S	**13.2**	17.5	**0.175**	32.5	0.026 U	10	0.013 U	10
IW06	Property, SW quadrant	V	–		–		–		–	
		S	**0.49 ve**	25	**0.010**	25	**0.0061**	60	0.005 U	25
IW-1C	Property, NE quadrant	V	–		–		–		–	
		S	**11.1**	25	**0.845**	25	**0.769**	25	**0.176**	55
IW-2C	Property, NE quadrant	V	–		–		–		–	
		S	**8.84**	45	**0.611**	45	**1.02**	45	**0.0551**	45
IW-3C	Property, NE quadrant	V	–		–		–		–	
		S	**19.0**	25	**0.774**	25	**0.968**	25	**0.0932 J**	35
IW-7A	Property, NE quadrant	V	–		–		–		–	
		S	**0.025 J**	15	**0.00761**	50	**0.117**	50	**0.00223**	50
IW-8B	Property, SW quadrant	V	–		–		–		–	
		S	**29.6**	15	**0.243 J**	15	**0.319**	25	**0.0350**	25

Table 13

Summary of PCE, TCE, cDCE, and VC in Soil
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Zone	Maximum Concentration (mg/kg)							
			PCE	Depth	TCE	Depth	cDCE	Depth	VC	Depth
	Vadose Zone PCUL (V)		**0.050**		**0.025**		**0.078**		***0.0040***	
	Saturated Zone PCUL (S)		***0.0050***		***0.0020***		**0.0052**		***0.0040***	
IW-8C	Property, NE quadrant	V	–		–		–		–	
		S	**105**	50	**3.56**	40	**3.68**	50	**0.164 J**	45
IW-11D	Property, NE quadrant	V	–		–		–		–	
		S	**2.23**	70	**1.80**	70	**2.07**	70	**0.506**	45
IW-12D	Property, NE quadrant	V	–		–		–		–	
		S	**55.8**	42	**1.51**	50	**2.16**	42	**0.132**	42
IW-13D	Property, NW quadrant	V	–		–		–		–	
		S	**31.4**	80	**1.21**	80	**0.157**	80	**0.0191**	80
IW-14D	Property, NW quadrant	V	–		–		–		–	
		S	**56.7**	55	**4.36**	55	**3.90**	55	**0.0180**	55
IW-15D	Property, SW quadrant	V	–		–		–		–	
		S	**2.32**	54	**0.282**	54	**0.242**	54	**0.00390**	54
IW-16D	Property, NW quadrant	V	–		–		–		–	
		S	**1.47**	95	**0.564**	95	**0.336**	85	0.00331 U	95
IW-19B	Property, NE quadrant	V	–		–		–		–	
		S	**14.5 J**	60	**3.70**	60	**3.16**	60	**0.268**	60
IW-21B	Property, NE quadrant	V	**0.0140**	5	**0.00659**	5	**0.00711**	5	0.000526 U	5
		S	**10.5**	60	**3.82**	60	**3.82**	60	**0.0525**	60
IW-22C	Property, NW quadrant	V	–		–		–		–	
		S	**16.6**	78	**0.915**	78	**0.975**	78	**0.00698**	78
IW-23C	Property, NW quadrant	V	–		–		–		–	
		S	**308**	42	**0.929**	42	**8.86**	42	**0.532**	42
IW-24C	Property, NW quadrant	V	–		–		–		–	
		S	**309**	75	**2.12**	75	**3.74**	48	**0.176 J-**	48
IW-27B	Property, NE quadrant	V	**0.0678**	5	**0.0248**	5	**0.0106**	5	0.000467 U	5
		S	**0.0178**	15	**0.00435**	15	**0.108**	35	**0.0195**	35
IW-27C	Property, SW quadrant	V	–		–		–		–	
		S	**18.6**	45	**0.178**	45	**0.282**	45	**0.0297**	45
IW-28C	Property, SW quadrant	V	–		–		–		–	
		S	**0.983**	92	**0.00290**	92	**0.0103**	92	0.000742 U	92

Table 13

Summary of PCE, TCE, cDCE, and VC in Soil
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Zone	Maximum Concentration (mg/kg)							
			PCE	Depth	TCE	Depth	cDCE	Depth	VC	Depth
	Vadose Zone PCUL (V)		**0.050**		**0.025**		**0.078**		***0.0040***	
	Saturated Zone PCUL (S)		***0.0050***		***0.0020***		**0.0052**		***0.0040***	
IW-39B	Property, SE quadrant	V	**0.0961**	5	**0.00856**	5	**0.0227**	5	0.00037 U	5
		S	**0.0868**	55	**0.0219 J**	55	**1.57**	55	**0.0245 J**	55
IW-46B	Property, SW quadrant	V	**0.386 J**	15	**0.0108 J**	15	0.0065 UJ	15	0.00805 UJ	15
		S	**261 J**	45	**1.59 J**	45	**4.95 J**	60	**1.65 J**	45
IW-47B	Property, SW quadrant	V	**0.0518**	5	**0.00121 J**	5	**0.0413 J**	15	0.000343 UJ	5
		S	**0.196 J**	42	**0.0157 J**	42	**3.47 J**	55	**0.105 J**	55
IW-48B	Property, SW quadrant	V	**0.0117**	15	0.000326 U	15	**0.001 J**	10	0.00034 U	15
		S	**24.4**	75	**0.932**	75	**3.47**	60	**0.00760**	75
IW-50A	Property, SW quadrant	V	**0.0105**	5	**0.00365**	10	**0.00210**	10	0.000332 U	5
		S	**2.67 J**	50	**0.0367**	45	**0.621 J**	50	**0.0112**	50
IW-51A	Property, SW quadrant	V	**0.00450**	15	0.000316 U	15	**0.000778 J**	15	0.00033 U	15
		S	**5.20**	25	**0.0410**	25	**2.37**	42	**0.0869 J**	42
IW-53B	Property, NE quadrant	V	–		–		–		–	
		S	**1.74**	30	**0.152**	30	**0.171**	30	**0.00790**	30
IW-54A	Property, NW quadrant	V	–		–		–		–	
		S	**48.1**	8	**0.0503**	8	**0.00700**	8	0.000791 U	49
IW-54B	Property, NW quadrant	V	–		–		–		–	
		S	**937**	8	**4.48**	21	**1.90**	21	**0.0927**	33
IW-55B	Property, SW quadrant	V	–		–		–		–	
		S	**47.1**	43	**1.04**	43	**3.42**	61	**0.341**	61
IW-58A	Property, NW quadrant	V	–		–		–		–	
		S	**2.67 J**	38	**0.279**	38	**1.48**	38	**0.0128**	38
MW101	Property, NE quadrant	V	–		–		–		–	
		S	**24.0**	30	**0.280**	40	**0.120**	47	0.05 U	30
MW130	Property, NW quadrant	V	–		–		–		–	
		S	**37 ve**	70	**0.440**	70	**1.20**	60	0.05 U	10
MW131	Property, SE quadrant	V	–		–		–		–	
		S	**0.440**	55	**2.40**	30	**3.20**	30	0.05 U	10
MW-132	Property, SE quadrant	V	–		–		–		–	
		S	**385**	55	**9.63**	55	**4.62**	50	**0.00219**	50

Table 13

Summary of PCE, TCE, cDCE, and VC in Soil
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Zone	Maximum Concentration (mg/kg)							
			PCE	Depth	TCE	Depth	cDCE	Depth	VC	Depth
	Vadose Zone PCUL (V)		**0.050**		**0.025**		**0.078**		***0.0040***	
	Saturated Zone PCUL (S)		***0.0050***		***0.0020***		**0.0052**		***0.0040***	
MW-133	Property, SW quadrant	V	–		–		–		–	
		S	**691**	58	**2.96**	65	**13.0**	45	**0.323**	45
MW-134	Property, NE quadrant	V	–		–		–		–	
		S	**17.9**	50	**2.34**	50	**4.46**	60	**0.217**	43
MW-135	Property, NE quadrant	V	–		–		–		–	
		S	**933**	14	**113**	14	**329**	14	**17.0**	14
MW-136	Property, SW quadrant	V	–		–		–		–	
		S	**0.00777**	35	**0.00255**	44	**0.0174**	44	0.000335 U	50
MW-137	Property, SW quadrant	V	–		–		–		–	
		S	**0.00174**	25	**0.00245**	25	**0.00753 J**	45	0.00824 U	45
MW-139	Property, SE quadrant	V	–		–		–		–	
		S	**0.0138 J**	20	**0.001 J**	41	**0.0982**	41	**0.00397**	20
MW-141	Property, SE quadrant	V	–		–		–		–	
		S	**0.000357 J**	46	**0.000424 J**	46	**0.00329**	46	**0.00194**	46
MW-152	Property, SW quadrant	V	–		–		–		–	
		S	**122**	45	**0.532 J**	45	**7.54**	45	**1.06**	45
MW-162	Property, NE quadrant	V	–		–		–		–	
		S	**34.1**	48	**5.91**	50	**7.57**	50	**0.0156**	70
MW-163	Property, NW quadrant	V	–		–		–		–	
		S	**7.09 J**	47	**3.59 J**	60	**16.6 J**	50	**0.189**	50
MW-164	Property, SW quadrant	V	–		–		–		–	
		S	**0.788**	95	**0.172**	95	**0.474**	95	**0.0349**	87
MW-168	Property, NE quadrant	V	–		–		–		–	
		S	**2.78**	15	**3.42**	15	**5.98**	15	0.247 U	15
MW-171	Property, SW quadrant	V	–		–		–		–	
		S	0.199 U	24	0.16 U	24	0.16 U	24	0.199 U	24
MW-172	Property, SW quadrant	V	–		–		–		–	
		S	0.235 U	7	0.188 U	7	0.188 U	7	0.235 U	7
MW-175	Property, SE quadrant	V	–		–		–		–	
		S	0.237 U	12	0.19 U	12	**0.0791 J**	12	0.237 U	12

Table 13

Summary of PCE, TCE, cDCE, and VC in Soil
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Zone	Maximum Concentration (mg/kg)							
			PCE	Depth	TCE	Depth	cDCE	Depth	VC	Depth
	Vadose Zone PCUL (V)		**0.050**		**0.025**		**0.078**		***0.0040***	
	Saturated Zone PCUL (S)		***0.0050***		***0.0020***		**0.0052**		***0.0040***	
MW-180	Property, SW quadrant	V	–		–		–		–	
		S	**8,960**	24	**28.7**	24	**30.5**	24	**0.515**	24
MW-181	Property, SW quadrant	V	–		–		–		–	
		S	0.27 U	14	0.216 U	14	0.216 U	14	0.27 U	14
MW-183	Property, SW quadrant	V	–		–		–		–	
		S	0.25 U	18	0.2 U	18	**6.92**	18	0.25 U	18
MW-184	Property, SW quadrant	V	–		–		–		–	
		S	0.273 U	20	0.218 U	20	**1.32**	20	0.273 U	20
MW-188	Property, SE quadrant	V	–		–		–		–	
		S	0.251 U	64	0.2 U	64	0.2 U	64	0.251 U	64
P02	Property, SE quadrant	V	–		–		–		–	
		S	**1.20**	7.5	**0.0720**	7.5	0.05 U	5	0.05 U	5
P03	Property, NE quadrant	V	–		–		–		–	
		S	**0.36**	5	0.03 U	5	0.05 U	5	0.05 U	5
P04	Property, SW quadrant	V	–		–		–		–	
		S	**0.55**	7.5	0.03 U	7.5	0.05 U	7.5	0.05 U	7.5
P05	Property, SW quadrant	V	–		–		–		–	
		S	**0.049**	5	0.03 U	5	0.05 U	5	0.05 U	5
P06	Property, SW quadrant	V	–		–		–		–	
		S	**0.31**	7.5	0.03 U	7.5	0.05 U	7.5	0.05 U	7.5
R-MW1	Property, NE quadrant	V	–		–		–		–	
		S	**5.80**	5	**0.350**	5	–	5	0.01 U	5
W-MW-03	Property, NE quadrant	V	–		–		–		–	
		S	**46 B**	43-43.5	**1.10**	53-53.5	**0.630**	53-53.5	0.001 U	63-63.5
W-MW-04	Property, NE quadrant	V	–		–		–		–	
		S	**10 T**	59-59.5	**2.30**	9-9.5	**7.30**	9-9.5	**0.710**	9-9.5

Table 13

Summary of PCE, TCE, cDCE, and VC in Soil
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Zone	Maximum Concentration (mg/kg)							
			PCE	Depth	TCE	Depth	cDCE	Depth	VC	Depth
	Vadose Zone PCUL (V)		**0.050**		**0.025**		**0.078**		***0.0040***	
	Saturated Zone PCUL (S)		***0.0050***		***0.0020***		**0.0052**		***0.0040***	
PRB Wells										
PRB-A3/PRB-C3	8th Ave N ROW, W side	V	**0.160**	6	**0.0396**	8	**0.00948**	8	0.00137 U	8
		S	**0.265**	40	**0.0163**	40	**0.471**	40	**0.0203**	50
PRB-A9/PRB-C9	8th Ave N ROW, W side	V	**0.109**	3	0.000675 U	3	0.00116 U	3	0.00115 U	3
		S	**4.44**	32	**1.32**	32	**1.74**	40	**0.0872**	32
PRB-B1/PRB-D1	8th Ave N ROW, W side	V	–		–		–		–	
		S	**1.71**	50	**0.274**	50	**0.199**	50	**0.0596**	25
PRB-B10/PRB-D10	8th Ave N ROW, W side	V	–		–		–		–	
		S	**1.89**	25	**0.603**	30	**0.995**	35	0.0120 U	45
PRB-B11/PRB-D11	8th Ave N ROW, W side	V	0.000944 U	10	0.000539 U	10	0.000921 U	10	0.000921 U	10
		S	**4.42**	30	**0.441**	35	**0.574**	35	0.00091 UJ	50
PRB-B13/PRB-D13	Roy St ROW, N side	V	0.000798 U	10	0.000456 U	10	0.000787 U	10	0.000779 U	10
		S	**0.0498**	30	**0.0117**	30	**0.0169**	30	0.000809 U	20
PRB-B16/PRB-D16	Roy St ROW, N side	V	–		–		–		–	
		S	**0.884**	50	**0.165**	45	**2.31**	40	**0.789**	40
PRB-B18/PRB-D18	Roy St ROW, N side	V	**0.00519**	10	0.000467 UJ	10	0.000805 U	10	0.000797 U	10
		S	**0.253**	30	**0.00663 J**	30	**0.712**	30	0.00076 U	20
PRB-B19/PRB-D19	Roy St ROW, N side	V	**0.0182**	15	0.000493 U	15	**0.031 J**	15	0.000843 U	15
		S	**7.74**	45	**0.222**	45	**0.324 J**	35	**0.0176**	35
PRB-B2/PRB-D2	Roy St ROW, N side	V	**0.180**	6	0.000557 U	6	0.000961 U	6	0.000951 U	6
		S	**0.00154 J**	10	**0.00166 J**	10	**0.864**	10	**0.141**	10
PRB-B21/PRB-D21	Roy St ROW, N side	V	0.000803 U	10	0.000459 U	10	0.000791 U	10	0.000783 U	10
		S	**2.06**	30	**0.0810**	30	**0.307**	50	**0.0933**	50
PRB-B4/PRB-D4	8th Ave N ROW, W side	V	**0.0605**	6	**0.00337**	6	**0.00697**	6	**0.00371 J**	6
		S	**0.00665 J-**	10	**0.00675 J-**	10	**0.0467 J-**	10	**0.016 J-**	10
PRB-B5/PRB-D5	8th Ave N ROW, W side	V	–		–		–		–	
		S	**3.45**	45	**0.31**	45	**1.8**	40	**0.219**	40
PRB-B6/PRB-D6	8th Ave N ROW, W side	V	–		–		–		–	
		S	**0.575**	35	**0.577**	35	**1.82**	45	**0.00759**	45

Table 13

Summary of PCE, TCE, cDCE, and VC in Soil
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Zone	Maximum Concentration (mg/kg)							
			PCE	Depth	TCE	Depth	cDCE	Depth	VC	Depth
	Vadose Zone PCUL (V)		**0.050**		**0.025**		**0.078**		***0.0040***	
	Saturated Zone PCUL (S)		***0.0050***		***0.0020***		**0.0052**		***0.0040***	
Off Property										
B-212	Dexter Ave N ROW, E side	V	0.000318 U	15	0.000321 U	15	0.000271 UJ	15	0.000335 U	15
		S	**0.000955 J**	35	0.000365 U	95	0.000308 U	95	0.000381 U	95
B-213	Dexter Ave N ROW, E side	V	**0.00289**	15	0.000323 U	15	0.000272 U	15	0.000337 U	15
		S	**0.00263**	21.5	0.000413 U	125	0.000348 U	125	0.000431 U	125
B-214	Dexter Ave N ROW, E side	V	0.000296 U	15	0.000299 U	15	0.000252 UJ	15	0.000312 U	15
		S	0.000355 U	65	0.000359 U	65	0.000302 U	65	0.000375 U	65
B-215	Roy St ROW, N side	V	0.000299 U	15	0.000303 U	15	0.000255 U	15	0.000316 U	15
		S	**11.1**	65	**1.02**	65	**1.55**	65	0.00833 U	65
B-268	Valley St ROW, S side	V	**0.00381**	1	0.000496 U	1	0.000856 U	1	0.000847 U	1
		S	–		–		–		–	
B-269	Valley St ROW, S side	V	0.000764 U	1.5	0.000437 U	1.5	0.000754 U	1.5	0.000746 U	1.5
		S	–		–		–		–	
B-270	Valley St ROW, S side	V	0.000847 U	2	0.000484 U	2	0.000835 U	2	0.000826 U	2
		S	–		–		–		–	
B-271	Valley St ROW, S side	V	**0.00661**	1	0.000429 U	1	0.000741 U	1	0.000733 U	1
		S	–		–		–		–	
B-272	8th Ave N ROW, W side	V	**0.0126**	1	0.000495 U	6	0.000854 U	6	0.000845 U	6
		S	–		–		–		–	
B-273	8th Ave N ROW, W side	V	**0.220**	6	**0.00179**	3	**0.00271 J**	6	0.00151 U	6
		S	–		–		–		–	
B-274	8th Ave N ROW, W side	V	**0.134**	6	**0.00613**	6	**0.027**	6	0.00121 U	6
		S	–		–		–		–	
B-275	8th Ave N ROW, W side	V	**2.41**	6	**0.108**	6	**0.0732**	6	0.00126 U	6
		S	**0.0164**	10	0.000615 U	9	**0.00123 J**	10	0.00105 U	9
B-276	8th Ave N ROW, W side	V	**0.00811**	7	**0.00341**	7	**0.00751**	7	0.00126 U	1
		S	0.000818 U	11	0.000467 U	11	**0.00834**	11	**0.00682**	11
B-277	8th Ave N ROW, W side	V	**2.44**	9.5	**0.969**	9.5	**0.192**	9.5	0.00162 U	9.5
		S	**0.0019 J**	11	**0.000747 J**	11	**0.00615**	11	0.000737 U	11
B-278	Dexter Ave N ROW, E side	V	**0.288**	3	**0.00194**	3	0.00077 U	3	0.000762 U	3
		S	–		–		–		–	

Table 13

Summary of PCE, TCE, cDCE, and VC in Soil
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Zone	Maximum Concentration (mg/kg)							
			PCE	Depth	TCE	Depth	cDCE	Depth	VC	Depth
	Vadose Zone PCUL (V)		**0.050**		**0.025**		**0.078**		***0.0040***	
	Saturated Zone PCUL (S)		***0.0050***		***0.0020***		**0.0052**		***0.0040***	
B-279	Dexter Ave N ROW, E side	V	**0.277**	5	**0.0119**	3	**0.00101 J**	3	0.000775 U	3
		S	–		–		–		–	
B-280	Dexter Ave N ROW, E side	V	**0.00510**	6	0.000435 U	6	0.000751 U	6	0.000743 U	6
		S	–		–		–		–	
B-281	Dexter Ave N ROW, E side	V	**0.0143**	5	0.000453 U	5	0.000782 U	5	0.000774 U	5
		S	–		–		–		–	
B-282	Dexter Ave N ROW, E side	V	**0.00386**	2	0.000456 U	2	0.000787 U	2	0.000779 U	2
		S	–		–		–		–	
B-283	Dexter Ave N ROW, E side	V	0.00108 U	0.5	0.000702 U	0.5	0.000883 U	0.5	0.0014 U	0.5
		S	–		–		–		–	
B-284	Dexter Ave N ROW, E side	V	0.00108 U	1	0.000701 U	1	0.000881 U	1	0.00139 U	1
		S	–		–		–		–	
B-285	Dexter Ave N ROW, E side	V	**0.00437**	1	0.000763 U	1	0.000959 U	1	0.00151 U	1
		S	–		–		–		–	
B-286	Dexter Ave N ROW, E side	V	0.00238 U	0.5	0.00156 U	0.5	0.00195 U	0.5	0.00309 U	0.5
		S	–		–		–		–	
B-287	Dexter Ave N ROW, E side	V	**0.00422 J**	1	0.00152 U	1	0.00191 U	1	0.00301 U	1
		S	–		–		–		–	
B-288	Valley St ROW, N side	V	**0.0145**	1	0.0031 U	1	0.0039 U	1	0.00616 U	1
		S	–		–		–		–	
B-289	Dexter Ave N ROW, E side	V	0.00391 U	0.5	0.00255 U	0.5	0.0032 U	0.5	0.00505 U	0.5
		S	–		–		–		–	
B-290	8th Ave N ROW, E side	V	**0.00142 J**	1	0.000922 U	1	0.00116 U	1	0.00183 U	1
		S	–		–		–		–	
B-291	8th Ave N ROW, E side	V	0.00121 U	1	0.000791 U	1	0.000995 U	1	0.00158 U	1
		S	–		–		–		–	
B-292	Dexter Ave N ROW, E side	V	**0.00315 J**	6	0.000767 U	12	0.000963 U	12	0.00152 U	12
		S	–		–		–		–	
B-293	8th Ave N ROW, E side	V	**0.00365**	1	0.000647 U	1	0.000814 U	1	0.00129 U	1
		S	–		–		–		–	

Table 13

Summary of PCE, TCE, cDCE, and VC in Soil
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Zone	Maximum Concentration (mg/kg)							
			PCE	Depth	TCE	Depth	cDCE	Depth	VC	Depth
	Vadose Zone PCUL (V)		**0.050**		**0.025**		**0.078**		***0.0040***	
	Saturated Zone PCUL (S)		***0.0050***		***0.0020***		**0.0052**		***0.0040***	
B-294	8th Ave N ROW, W side	V	**0.518**	2	**0.00143**	1	0.00213 U	2	0.00336 U	2
		S	0.00121 U	10	0.000786 U	10	0.000988 U	10	0.00156 U	10
B-295	8th Ave N ROW, W side	V	**0.129**	3	0.00104 U	3	0.00131 U	3	0.00207 U	3
		S	0.00126 U	10	0.000821 U	10	**0.00423**	10	0.00163 U	10
B-296	Valley St ROW, N side	V	0.00102 U	1	0.000663 U	1	0.000834 U	1	0.00132 U	1
		S	–		–		–		–	
B-297	8th Ave N ROW, W side	V	**0.0181**	5	0.000719 U	1	0.000904 U	1	0.00143 U	1
		S	–		–		–		–	
B-298	Dexter Ave N ROW, E side	V	**0.00352**	6	0.000741 U	6	0.000931 U	6	0.00147 U	6
		S	–		–		–		–	
B-299	Valley St ROW, S side	V	**0.00126 J**	5.5	0.000771 U	2	0.000969 U	2	0.00153 U	2
		S	–		–		–		–	
B-300	Valley St ROW, S side	V	**0.00172 J**	5.5	0.000772 U	2.5	0.00097 U	2.5	0.00153 U	2.5
		S	–		–		–		–	
B-301	Valley St ROW, S side	V	**0.00156 J**	2	0.000789 U	5	0.000992 U	5	0.00157 U	5
		S	–		–		–		–	
B-302	Valley St ROW, S side	V	0.00128 U	4	0.000833 U	4	0.00105 U	4	0.00165 U	4
		S	–		–		–		–	
CHB-07	9th Ave N ROW	V	–		–		–		–	
		S	0.0011 U	12.5-13.5	0.0011 U	12.5-13.5	**1.1**	12.5-13.5	**0.027**	12.5-13.5
CHB-08	9th Ave N ROW	V	–		–		–		–	
		S	0.0008 U	15-16	0.0008 U	15-16	0.0008 U	15-16	0.0008 U	15-16
CHB-09	9th Ave N ROW	V	–		–		–		–	
		S	0.0012 U	25-26.5	0.0012 U	25-26.5	0.0012 U	25-26.5	0.0012 U	25-26.5
GEI-4	Block 79 East, Central Area	V	0.0214 U	5	0.0214 U	5	0.0214 U	5	0.0214 U	5
		S	0.0243 U	12.5	0.0243 U	12.5	0.0243 U	12.5	0.0243 U	12.5
GEI-MW-1	Block 79 East, N end	V	0.0181 U	1	0.0181 U	1	0.0181 U	1	0.0181 U	1
		S	–		–		–		–	
GEI-MW-2	Block 79 East, Central Area	V	0.0391 U	5	0.0391 U	5	0.0391 U	5	0.0391 U	5
		S	–		–	10	–		–	10

Table 13

Summary of PCE, TCE, cDCE, and VC in Soil
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Zone	Maximum Concentration (mg/kg)							
			PCE	Depth	TCE	Depth	cDCE	Depth	VC	Depth
	Vadose Zone PCUL (V)		**0.050**		**0.025**		**0.078**		***0.0040***	
	Saturated Zone PCUL (S)		***0.0050***		***0.0020***		**0.0052**		***0.0040***	
GEI-MW-3	Block 79 East, Central Area	V	–		–		–		–	
		S	0.0258 U	10	0.0258 U	10	0.0258 U	10	0.0258 U	10
MW102 (B102)	Valley St ROW, S side	V	–		–		–		–	
		S	0.025 U	20	0.03 U	20	0.05 U	20	0.05 U	20
MW103 (B103)	Alley E of Seattle Roy Aloha Shops	V	0.025 U	10	0.03 U	10	0.05 U	10	0.05 U	10
		S	**5.3**	45	**0.77**	40	**0.24**	45	0.05 U	18
MW104 (B104)	8th Ave N ROW, W side	V	–		–		–		–	
		S	**7.1**	35	**0.23**	35	**0.14**	30	0.05 U	10
MW105 (B105)	Roy St ROW, S side	V	0.025 U	10	0.03 U	10	0.05 U	10	0.05 U	10
		S	**1.3**	30	**0.16**	30	**0.22**	40	0.05 U	20
MW106 (B106)	SDOT Mercer Parcels, NW quadrant	V	0.025 U	10	0.03 U	10	0.05 U	10	0.05 U	10
		S	**3.1**	40	**0.17**	50	**0.11**	50	0.05 U	30
MW107 (B107)	8th Ave N ROW, W side	V	0.025 U	5	0.03 U	5	0.05 U	5	0.05 U	5
		S	**19**	35	**0.59**	35	**0.37**	35	0.05 U	15
MW108 (B108)	Alley E of Seattle Roy Aloha Shops	V	–		–		–		–	
		S	**0.037**	50	0.03 U	15	0.05 U	15	0.05 U	15
MW109 (B109)	Alley E of Seattle Roy Aloha Shops	V	0.025 U	5	0.03 U	5	0.05 U	5	0.05 U	5
		S	**1.6**	45	**0.94**	45	**0.15**	45	0.05 U	15
MW110 (B110)	Alley E of Seattle Roy Aloha Shops	V	0.025 U	15	0.03 U	15	0.05 U	15	0.05 U	15
		S	**3.4**	35	**0.21**	35	**0.31**	35	0.05 U	25
MW111 (B111)	Alley E of Seattle Roy Aloha Shops	V	0.05 U	10	0.06 U	10	0.1 U	10	0.1 U	10
		S	**1.4**	50	**0.56**	50	**0.28**	38	0.05 U	20
MW112 (B112)	Dexter Ave N ROW, W side	V	0.025 U	10	0.03 U	10	0.05 U	10	0.05 U	10
		S	0.025 U	20	0.03 U	20	0.05 U	20	0.05 U	20
MW113 (B113)	9th Ave N ROW, W side	V	–		–		–		–	
		S	0.025 U	10	0.03 U	10	0.05 U	10	0.05 U	10
MW114 (B114)	SDOT Mercer Parcels, NW quadrant	V	0.025 U	15	0.03 U	15	0.05 U	15	0.05 U	15
		S	**8.8**	35	**0.45**	35	**0.11**	35	0.05 U	25
MW115 (B115)	9th Ave N ROW, W side	V	0.025 U	10	0.03 U	10	0.05 U	10	0.05 U	10
		S	0.025 U	15	0.03 U	15	0.05 U	15	0.05 U	15

Table 13

Summary of PCE, TCE, cDCE, and VC in Soil
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Zone	Maximum Concentration (mg/kg)							
			PCE	Depth	TCE	Depth	cDCE	Depth	VC	Depth
	Vadose Zone PCUL (V)		**0.050**		**0.025**		**0.078**		***0.0040***	
	Saturated Zone PCUL (S)		***0.0050***		***0.0020***		**0.0052**		***0.0040***	
MW116 (B116)	9th Ave N ROW, W side	V	–		–		–		–	
		S	0.025 U	15	0.03 U	15	0.05 U	15	0.05 U	15
MW117 (B117)	Dexter Ave N ROW, E side	V	0.025 U	10	0.03 U	10	0.05 U	10	0.05 U	10
		S	0.025 U	30	0.03 U	30	0.05 U	30	0.05 U	30
MW118 (B118)	Mercer St ROW, N side	V	0.025 U	10	0.03 U	10	0.05 U	10	0.05 U	10
		S	0.025 U	30	0.03 U	30	0.05 U	30	0.05 U	30
MW119 (B119)	9th Ave N ROW, W side	V	0.025 U	10	0.03 U	10	0.05 U	10	0.05 U	10
		S	0.025 U	20	0.03 U	20	0.05 U	20	0.05 U	20
MW120 (B120)	8th Ave N ROW, E side	V	–		–		–		–	
		S	0.025 U	20	0.03 U	20	0.05 U	20	0.05 U	20
MW121 (B121)	8th Ave N ROW, E side	V	–		–		–		–	
		S	0.025 U	15	0.03 U	15	0.05 U	15	0.05 U	15
MW122 (B122)	Alley E of Seattle Roy Aloha Shops	V	–		–		–		–	
		S	0.025 U	15	0.03 U	15	**0.22**	40	0.05 U	15
MW123 (B123)	Westlake Ave N ROW, W side	V	–		–		–		–	
		S	0.025 U	20	0.03 U	20	0.05 U	20	0.05 U	20
MW124 (B124)	Valley St ROW, S side	V	0.025 U	20	0.03 U	20	0.05 U	20	0.05 U	20
		S	0.025 U	30	0.03 U	30	0.05 U	30	0.05 U	30
MW125 (B125)	Valley St ROW, N side	V	–		–		–		–	
		S	0.025 U	15	0.03 U	15	0.05 U	15	0.05 U	15
MW126 (B126)	Alley E of Seattle Roy Aloha Shops	V	–		–		–		–	
		S	0.025 U	20	0.03 U	20	0.05 U	20	0.05 U	20
MW127 (B127)	8th Ave N ROW, E side	V	0.025 U	15	0.03 U	15	0.05 U	15	0.05 U	15
		S	0.025 U	25	0.03 U	25	0.05 U	25	0.05 U	25
MW128 (B128)	Westlake Ave N ROW, E side	V	–		–		–		–	
		S	0.025 U	25	0.03 U	25	0.05 U	25	0.05 U	25
MW-138	Dexter Ave N ROW, E side	V	0.000328 U	15	0.000332 U	15	0.000279 U	15	0.000346 U	15
		S	0.000343 U	105	0.000347 U	105	0.000292 U	105	0.000362 U	105
MW-140	Roy St ROW, N side	V	0.000315 U	15	0.000318 U	15	0.000268 U	15	0.000332 U	15
		S	**15.1**	35	**0.629**	35	**0.387**	35	**0.0990**	55

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American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Zone	Maximum Concentration (mg/kg)							
			PCE	Depth	TCE	Depth	cDCE	Depth	VC	Depth
	Vadose Zone PCUL (V)		**0.050**		**0.025**		**0.078**		***0.0040***	
	Saturated Zone PCUL (S)		***0.0050***		***0.0020***		**0.0052**		***0.0040***	
MW-142	8th Ave N ROW, E side	V	0.000332 U	5	0.000336 U	5	0.000283 U	5	0.00035 U	5
		S	–		–		–		–	
MW-143	8th Ave N ROW, E side	V	**0.000499 J**	10	0.000387 U	10	0.000326 U	10	0.000403 U	10
		S	**0.00589**	50	**0.00729**	50	**0.207**	50	**0.656**	60
MW-145	8th Ave N ROW, E side	V	0.000347 U	10	0.000351 U	10	0.000295 U	10	0.000366 U	10
		S	**0.790**	30	**0.0668**	30	**0.1**	30	**0.016**	40
MW-147	Roy St ROW, S side	V	**0.000697 J**	10	0.000303 U	10	0.000255 U	10	0.000316 U	10
		S	**0.0238**	30	**0.0033**	30	**0.00488**	40	**0.0615**	40
MW-148	Roy St ROW, S side	V	0.000318 U	11	0.000322 U	11	0.000271 U	11	0.000336 U	11
		S	**0.00188**	20	**0.000551 J**	40	**0.00364**	30	**0.0144**	30
MW-153	Roy St ROW, S side	V	**0.000561 J**	20	0.000316 U	10	0.000266 U	10	0.00033 U	10
		S	**0.00254**	110	**0.000486 J**	40	**0.00421**	40	**0.00767**	50
MW-158/ MW-158A	8th Ave N ROW, E side	V	–		–		–		–	
		S	**15.1**	30	**3.57**	30	**3.00**	30	**0.382**	30
MW-159	8th Ave N ROW, E side	V	–		–		–		–	
		S	**0.0196**	30	**0.0234**	30	**0.0506**	30	0.000355 U	30
MW-160	8th Ave N ROW, W side	V	–		–		–		–	
		S	**6.27**	55	**1.11**	55	**1.50**	55	**0.0107**	55
MW-161	8th Ave N ROW, W side	V	–		–		–		–	
		S	**0.0356**	60	**0.0114**	130	**0.376**	40	0.00308 U	80
MW-190	Valley St ROW, S side	V	**0.0965**	10	0.000827 U	10	0.00143 U	10	0.00141 U	10
		S	**0.0786**	35	**0.0109**	30	**0.0790**	55	**0.0173**	60
MW-301	Valley St ROW, S side	V	**0.00463 J**	10	0.000469 U	6	0.000809 U	6	0.0008 U	6
		S	**0.0326 J**	25	**0.00173**	25	0.00232 U	20	0.00231 U	20
MW-302	Dexter Ave N ROW, E side	V	**0.0461**	5	0.000545 U	15	0.00094 U	15	0.000931 U	15
		S	**0.00541**	20	0.000569 U	60	0.000981 U	60	0.000971 U	60
MW-304	Dexter Ave N ROW, E side	V	**0.0250**	5	0.000476 U	15	0.00082 U	15	0.000812 U	15
		S	0.000885 U	110	0.000506 U	110	0.000872 U	110	0.000864 U	110
MW-307	Roy St ROW, S side	V	0.000806 U	10	0.00046 U	10	0.000794 U	10	0.000786 U	10
		S	0.00802 U	70	0.00458 U	70	0.00791 U	70	0.00782 U	70

Table 13

Summary of PCE, TCE, cDCE, and VC in Soil
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Zone	Maximum Concentration (mg/kg)							
			PCE	Depth	TCE	Depth	cDCE	Depth	VC	Depth
	Vadose Zone PCUL (V)		**0.050**		**0.025**		**0.078**		***0.0040***	
	Saturated Zone PCUL (S)		***0.0050***		***0.0020***		**0.0052**		***0.0040***	
MW-309	Alley E of Seattle Roy Aloha Shops	V	**0.00188 J**	5	0.000477 U	5	0.000823 U	5	0.000815 U	5
		S	0.044 U	10	0.0252 U	10	**0.170**	40	0.0429 U	10
MW-311	Alley E of Seattle Roy Aloha Shops	V	**0.00286 J**	5	0.000479 U	5	0.000826 U	5	0.000818 U	5
		S	**2.31**	55	**0.895**	55	**0.545**	55	**0.0235**	55
MW-312	Alley E of Seattle Roy Aloha Shops	V	0.00142 U	10	0.000812 U	10	0.0014 U	10	0.00139 U	10
		S	0.000968 U	15	0.000553 U	15	**0.00114 J**	15	0.000944 U	15
MW-314	Alley E of Seattle Roy Aloha Shops	V	**0.00325**	6	0.000459 U	10	0.000791 U	10	0.000784 U	10
		S	**1.14**	35	**0.449**	35	**2.55**	40	**0.0756**	55
MW-316	Mercer St ROW, N side	V	**0.00305**	20	0.000453 U	10	0.000781 U	10	0.000773 U	10
		S	0.00105 U	65	0.000599 U	65	**0.00142 J**	25	0.00102 U	65
MW-319	9th Ave N ROW, W side	V	0.000812 U	6	0.000464 U	6	0.000801 U	6	0.000792 U	6
		S	**0.0693**	80	**0.0662**	80	**0.194**	75	0.000871 U	65
MW-320	9th Ave N ROW, W side	V	–		–		–		–	
		S	0.0156 U	19	0.00894 U	19	0.0154 U	19	0.0153 U	19
MW-323	9th Ave N ROW, W side	V	**0.0312**	10	0.000975 U	10	**0.0168**	10	0.00167 U	10
		S	**0.120**	55	**0.416**	85	**3.03**	65	**0.0403**	65
MW-324	Roy St ROW, N side	V	**0.00158 J**	10	0.000463 U	10	**0.00566**	10	0.000791 U	10
		S	**0.0516**	75	**0.0806**	70	**2.47**	65	**0.0467**	65
MW-326	Mercer St ROW, N side	V	0.000932 U	10	0.000532 U	10	0.000918 U	10	0.000909 U	10
		S	**0.101 J**	50	**0.0145**	50	**0.0617**	45	0.00277 U	30
MW-328	Lake Union Park, S end	V	0.000832 U	5	0.000476 U	5	0.00082 U	5	0.000812 U	5
		S	0.0257 U	50	0.0147 U	50	**0.0304**	20	0.0251 U	50
MW-329	Westlake Ave N ROW, E side	V	0.000748 U	5	0.000428 U	5	**0.00156 J**	5	0.00073 U	5
		S	0.001 U	25	0.000573 U	25	**0.261**	85	**0.0751**	85
MW-330	Valley St ROW, N side	V	0.00104 U	11.5	0.000681 U	11.5	0.000856 U	11.5	0.00135 U	11.5
		S	**0.00128 J**	32	**0.00868**	32	0.000831 U	47	0.00131 U	47
MW-331	Alley E of Seattle Roy Aloha Shops	V	0.00138 U	7	0.000902 U	7	0.00113 U	7	0.00179 UJ	7
		S	0.00803 U	11	0.00523 U	11	0.00658 U	11	0.0104 U	11
MW-332	Roy St ROW, N side	V	**0.00835**	7	0.000688 U	11	0.000864 U	11	0.00137 UJ	11
		S	**0.00161 J**	16	0.000724 U	30	0.00091 U	30	0.00144 UJ	30

Table 13

Summary of PCE, TCE, cDCE, and VC in Soil
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Zone	Maximum Concentration (mg/kg)							
			PCE	Depth	TCE	Depth	cDCE	Depth	VC	Depth
	Vadose Zone PCUL (V)		**0.050**		**0.025**		**0.078**		***0.0040***	
	Saturated Zone PCUL (S)		***0.0050***		***0.0020***		**0.0052**		***0.0040***	
MW-334	900 Roy St, S end	V	**0.00163 J**	6	0.00071 U	10	0.000893 U	10	0.00141 UJ	6
		S	0.00807 U	13	0.00526 U	13	0.00661 U	13	0.0104 UJ	13
MW-336	Mercer St ROW, N side	V	0.00115 U	14.5	0.000749 U	14.5	0.000941 U	14.5	0.00149 U	14.5
		S	**0.148**	65	**0.125**	65	**0.0743**	69	0.00191 U	25
MW-338	Lake Union Park, N end	V	–		–		–		–	
		S	0.00118 U	15	0.000772 U	15	0.000971 U	15	0.00153 U	15
MW-341	Lake Union Park, S end	V	–		–		–		–	
		S	**0.0603**	90	**0.0549**	90	**0.0692**	95	0.00138 U	104
MW-343	Valley St ROW, S side	V	0.00101 U	5	0.00066 U	5	0.000829 U	5	0.00131 U	5
		S	0.00112 U	35	0.000731 U	35	**0.0158**	73	0.00145 U	35
PH22	Roy St ROW, N side	V	0.0304 U	0-3	0.0243 U	0-3	0.0243 U	0-3	0.0304 U	0-3
		S	–		–		–		–	
PH34	Roy St ROW, N side	V	0.024 U	1.5-6.5	0.0192 U	1.5-6.5	0.0192 U	1.5-6.5	0.024 U	1.5-6.5
		S	–		–		–		–	
PH38	Roy St ROW, N side	V	0.0292 U	1.5-4	0.0233 U	1.5-4	0.0233 U	1.5-4	0.0292 U	1.5-4
		S	–		–		–		–	
PH52	8th Ave N ROW, E side	V	0.0282 U	1-5	0.0226 U	1-5	0.0226 U	1-5	0.0282 U	1-5
		S	–		–		–		–	
R-MW4	Roy St ROW, S side	V	0.005 U	5	0.005 U	5	–		0.01 U	5
		S	0.005 U	15	0.005 U	15	–		0.01 U	15
R-MW6	8th Ave N ROW, W side	V	0.005 U	6	0.005 U	6	–		0.01 U	6
		S	0.005 U	16	0.005 U	16	–		0.01 U	16
SV-04	Roy St ROW, S side	V	**0.00158 J**	6	0.000757 U	6	0.000951 U	6	0.0015 U	6
		S	–		–		–		–	
SV-05	Roy St ROW, S side	V	**0.00184 J**	10	0.000809 U	10	0.00102 UJ	10	0.00161 U	10
		S	–		–		–		–	
SV-06	Roy St ROW, S side	V	**0.00273 J**	6	0.000745 U	6	0.000936 UJ	6	0.00148 U	6
		S	–		–		–		–	
SV-07	Roy St ROW, S side	V	0.000982 U	15	0.00064 U	15	0.000804 UJ	15	0.00127 U	15
		S	–		–		–		–	

Table 13

Summary of PCE, TCE, cDCE, and VC in Soil
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Zone	Maximum Concentration (mg/kg)							
			PCE	Depth	TCE	Depth	cDCE	Depth	VC	Depth
	Vadose Zone PCUL (V)		**0.050**		**0.025**		**0.078**		***0.0040***	
	Saturated Zone PCUL (S)		***0.0050***		***0.0020***		**0.0052**		***0.0040***	
SV-08	8th Ave N ROW, E side	V	**0.00538**	6	0.000828 U	7.5	0.00104 U	7.5	0.00164 U	7.5
		S	–		–		–		–	
SV-09	8th Ave N ROW, E side	V	0.00119 U	5.5	0.000773 U	5.5	0.000971 U	5.5	0.00154 U	5.5
		S	–		–		–		–	
SV-10	Valley St ROW, N side	V	0.00118 U	5.5	0.00077 U	5.5	0.000968 U	5.5	0.00153 U	5.5
		S	–		–		–		–	
SV-11	Valley St ROW, N side	V	0.0012 U	10	0.000781 U	10	0.000981 U	10	0.00155 U	10
		S	–		–		–		–	
SV-12	Valley St ROW, N side	V	0.00098 U	5.5	0.000638 U	5.5	0.000802 U	5.5	0.00127 U	5.5
		S	–		–		–		–	
SV-13	Valley St ROW, N side	V	0.00115 U	10.5	0.000749 U	10.5	0.000941 U	10.5	0.00149 U	10.5
		S	–		–		–		–	
SV-14	Roy St ROW, N side	V	0.0012 U	5.5	0.000781 U	5.5	0.000981 U	5.5	0.00155 U	5.5
		S	–		–		–		–	
SV-15	Roy St ROW, N side	V	0.00116 U	13	0.000758 U	13	0.000953 U	13	0.00151 U	13
		S	–		–		–		–	
SV-16	8th Ave N ROW, E side	V	**0.0237 J**	5	0.00155 U	5	0.00195 U	5	0.00307 U	5
		S	–		–		–		–	
SV-17	8th Ave N ROW, E side	V	**0.00584**	4.5	0.00115 U	4.5	0.00144 U	4.5	0.00228 U	4.5
		S	–		–		–		–	
SV-18	8th Ave N ROW, E side	V	0.000966 U	5.5	0.000629 U	5.5	0.000791 U	5.5	0.00125 U	5.5
		S	–		–		–		–	
SV-19	9th Ave N ROW, W side	V	**0.00169 J**	5	0.000629 U	5	0.00079 U	5	0.00125 U	5
		S	–		–		–		–	
SV-20	9th Ave N ROW, W side	V	**0.00275 J**	9	0.000827 U	9	0.00104 U	9	0.00164 U	9
		S	–		–		–		–	
SV-21	Alley E of Seattle Roy Aloha Shops	V	**0.00117 J**	6	0.00064 U	6	0.000804 U	6	0.00127 U	6
		S	–		–		–		–	
SV-22	Alley E of Seattle Roy Aloha Shops	V	**0.00705**	8.5	0.00119 U	8.5	0.0015 U	8.5	0.00237 U	8.5
		S	–		–		–		–	

Table 13

Summary of PCE, TCE, cDCE, and VC in Soil
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Zone	Maximum Concentration (mg/kg)							
			PCE	Depth	TCE	Depth	cDCE	Depth	VC	Depth
	Vadose Zone PCUL (V)		**0.050**		**0.025**		**0.078**		***0.0040***	
	Saturated Zone PCUL (S)		***0.0050***		***0.0020***		**0.0052**		***0.0040***	
SV-23	Alley E of Seattle Roy Aloha Shops	V S	0.00135 U –	4.5	0.000883 U –	4.5	0.00111 U –	4.5	0.00175 U –	4.5
SV-24	Alley E of Seattle Roy Aloha Shops	V S	0.000973 U –	8	0.000634 U –	8	0.000797 U –	8	0.00126 U –	8
SV-25	Dexter Ave N ROW, W side	V S	**0.0100** –	4	0.000769 U –	4	0.000967 U –	4	0.00153 U –	4
SV-26	Dexter Ave N ROW, W side	V S	0.00131 U –	12	0.000855 U –	12	0.00107 U –	12	0.0017 U –	12
SV-27	Dexter Ave N ROW, W side	V S	**0.00372** –	13.5	0.000767 U –	13.5	0.000964 U –	13.5	0.00152 U –	5.5
T1	8th Ave N ROW	V S	**0.0734** –	2.5	0.0212 U –	2.5	0.0212 U –	2.5	0.0265 U –	2.5
T10	8th Ave N ROW, W side	V S	0.0513 U –	3	0.0411 U –	3	0.0411 U –	3	0.0513 U –	3
T11	Dexter Ave N ROW, E side	V S	0.0358 UJ –	3.5	0.0286 U –	3.5	0.0286 U –	3.5	0.0358 U –	3.5
T12	Dexter Ave N ROW, E side	V S	0.0307 U –	3	0.0245 U –	3	0.0245 U –	3	0.0307 U –	3
T13	Dexter Ave N ROW, W side	V S	**0.154** –	6.5	0.0227 U –	3.5	0.0227 U –	3.5	0.0283 U –	3.5
T14	Valley St ROW, N side	V S	**0.0364** –	3.5	0.0254 U –	7	0.0254 U –	7	0.0318 U –	7
T2	8th Ave N ROW	V S	**0.0524** –	6	0.0245 U –	6	0.0245 U –	6	0.0307 U –	6
T-2	8th Ave N ROW	V S	0.0143 U –	2	0.0115 U –	2	0.0115 U –	2	0.0143 U –	2
T-2B	8th Ave N ROW	V S	0.0297 U –	2	0.0237 U –	2	0.0237 U –	2	0.0297 U –	2
T3	8th Ave N ROW	V S	0.0287 U –	3	0.0229 U –	3	0.0229 U –	3	0.0287 U –	3

Table 13

Summary of PCE, TCE, cDCE, and VC in Soil
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Zone	Maximum Concentration (mg/kg)							
			PCE	Depth	TCE	Depth	cDCE	Depth	VC	Depth
	Vadose Zone PCUL (V)		**0.050**		**0.025**		**0.078**		***0.0040***	
	Saturated Zone PCUL (S)		***0.0050***		***0.0020***		**0.0052**		***0.0040***	
T4	8th Ave N ROW	V	0.0258 U	6	0.0206 U	6	0.0206 U	6	0.0258 U	6
		S	–		–		–		–	
T-5	8th Ave N ROW	V	0.0255 U	5	0.0204 U	5	0.0204 U	5	0.0255 U	5
		S	–		–		–		–	
T6	8th Ave N ROW	V	0.0237 U	4	0.0189 U	4	0.0189 U	4	0.0237 U	4
		S	–		–		–		–	
T7	8th Ave N ROW	V	**0.0678**	7	0.0274 U	7	0.0274 U	7	0.0342 U	7
		S	–		–		–		–	
T8	8th Ave N ROW, W side	V	**0.0586**	6	0.0301 U	6	0.0301 U	6	0.0377 U	6
		S	–		–		–		–	
T9	8th Ave N ROW, W side	V	0.0437 U	3	0.035 U	3	0.035 U	3	0.0437 U	3
		S	–		–		–		–	
TP-15	Roy St ROW	V	0.0313 U	6.5	0.025 U	6.5	0.025 U	6.5	0.0313 U	6.5
		S	–		–		–		–	
TP-16	8th Ave N ROW	V	0.0446 U	6	0.0357 U	6	0.0357 U	6	0.0446 U	6
		S	–		–		–		–	
TP-SD-01	Valley St ROW, S side	V	**0.0546**	2	0.0213 U	5	0.0213 U	5	0.0267 U	5
		S	–		–		–		–	
TP-SD-04	Valley St ROW, S side	V	0.0272 U	5	0.0218 U	5	0.0218 U	5	0.0272 U	5
		S	–		–		–		–	
TP-SD-05	Valley St ROW, S side	V	0.0292 U	5	0.0234 U	5	0.0234 U	5	0.0292 U	5
		S	–		–		–		–	
TP-SD-06	Valley St ROW, S side	V	0.0344 U	2	0.0275 U	2	0.0275 U	2	0.0344 U	2
		S	–		–		–		–	
TP-SD-07	Valley St ROW, S side	V	0.0217 U	2	0.0174 U	2	0.0174 U	2	0.0217 U	2
		S	–		–		–		–	
TP-SD-08	Valley St ROW, S side	V	0.0242 U	2	0.0193 U	2	0.0193 U	2	0.0242 U	2
		S	0.0249 U	8	0.0199 U	8	0.0199 U	8	0.0249 U	8
W-MW-01	8th Ave N ROW, W side	V	–		–		–		–	
		S	**16 B**	31.5-32	**0.59**	31.5-32	**0.48**	31.5-32	0.21 U	31.5-32
W-MW-02	8th Ave N ROW, W side	V	–		–		–		–	
		S	**18**	30.5-31	**0.41**	30.5-31	**0.52**	38-38.5	0.27 U	30.5-31

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700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Zone	Maximum Concentration (mg/kg)							
			PCE	Depth	TCE	Depth	cDCE	Depth	VC	Depth
	Vadose Zone PCUL (V)		**0.050**		**0.025**		**0.078**		***0.0040***	
	Saturated Zone PCUL (S)		***0.0050***		***0.0020***		**0.0052**		***0.0040***	
Seattle DOT Dexter Parcel										
DGW-1	615 Dexter, SE quadrant	V	0.050 U	10	0.020 U	10	0.050 U	10	0.050 U	10
		S	0.050 U	12.5	0.020 U	12.5	0.050 U	12.5	0.050 U	12.5
DGW-2	615 Dexter, NE quadrant	V	0.050 U	5	0.020 U	5	0.050 U	5	0.050 U	5
		S	0.050 U	25	0.020 U	25	0.050 U	25	0.050 U	25
DGW-3	615 Dexter, SE quadrant	V	0.050 U	2.5	0.020 U	2.5	0.050 U	2.5	0.050 U	2.5
		S	0.050 U	12.5	0.020 U	12.5	0.050 U	12.5	0.050 U	12.5
DGW-4	Alley S of SW quadrant of 615 Dexter	V	0.050 U	5	0.020 U	5	0.050 U	5	0.050 U	5
		S	0.050 U	35	0.020 U	35	0.050 U	35	0.050 U	35
DMW-1S	615 Dexter, SE quadrant	V	0.050 U	5	0.020 U	5	0.050 U	5	0.050 U	5
		S	0.050 U	12.5	0.020 U	12.5	0.050 U	12.5	0.050 U	12.5
DMW-2S	615 Dexter, SE quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.0050 U	5
		S	0.025 U	25	0.030 U	25	0.0050 U	25	0.0050 U	25
DMW-3IA	615 Dexter, NE quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.050 U	5
		S	0.025 U	25	0.030 U	25	0.0050 U	25	0.050 U	25
DMW-4S	Alley S of SE quadrant of 615 Dexter	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.050 U	5
		S	0.025 U	25	0.030 U	25	0.0050 U	25	0.050 U	25
DMW-5IA	Alley S of 615 Dexter	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.050 U	5
		S	–		–		–		–	
DPP-1	615 Dexter, NW quadrant	V	0.050 U	5	0.020 U	5	0.050 U	5	0.050 U	5
		S	–		–		–		–	
DPP-2	615 Dexter, SE quadrant	V	0.050 U	5	0.020 U	5	0.050 U	5	0.050 U	5
		S	–		–		–		–	
DPP-3	615 Dexter, NE quadrant	V	0.050 U	5	0.020 U	5	0.050 U	5	0.050 U	5
		S	0.050 U	15	0.020 U	15	0.050 U	15	0.050 U	15
DPP-4	615 Dexter, SE quadrant	V	0.050 U	10	0.020 U	10	0.050 U	10	0.050 U	10
		S	–		–		–		–	
DPP-5	615 Dexter, NE quadrant	V	0.050 U	10	0.020 U	10	0.050 U	10	0.050 U	10
		S	–		–		–		–	
DPP-6	615 Dexter, NE quadrant	V	0.050 U	5	0.020 U	5	0.050 U	5	0.050 U	5
		S	0.050 U	12.5	0.020 U	12.5	0.050 U	12.5	0.050 U	12.5

Table 13

Summary of PCE, TCE, cDCE, and VC in Soil
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Zone	Maximum Concentration (mg/kg)							
			PCE	Depth	TCE	Depth	cDCE	Depth	VC	Depth
	Vadose Zone PCUL (V)		**0.050**		**0.025**		**0.078**		***0.0040***	
	Saturated Zone PCUL (S)		***0.0050***		***0.0020***		**0.0052**		***0.0040***	
Seattle DOT Mercer Parcels										
HMW-1IB	SDOT Mercer Parcels, NE quadrant	V	0.050 U	7.5	0.020 U	7.5	0.050 U	7.5	0.050 U	7.5
		S	**0.12 J**	50	**0.024 J**	50	0.050 U	20.5	0.050 U	20.5
HMW-2IB	SDOT Mercer Parcels, NE quadrant	V	0.050 U	7.5	0.020 U	7.5	0.050 U	7.5	0.050 U	7.5
		S	**0.12 J**	45	0.020 U	22.5	0.050 U	22.5	0.050 U	22.5
HMW-3IA	SDOT Mercer Parcels, NW quadrant	V	0.050 U	15	0.020 U	15	0.050 U	15	0.050 U	15
		S	0.050 U	25	0.020 U	25	0.050 U	25	0.050 U	25
HMW-4IA	SDOT Mercer Parcels, SW quadrant	V	0.050 U	5	0.020 U	5	0.050 U	5	0.050 U	5
		S	0.050 U	25	0.020 U	25	0.050 U	25	0.050 U	25
HMW-5IB	SDOT Mercer Parcels, SW quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.0050 U	5
		S	–		–		–		–	
HMW-6D	SDOT Mercer Parcels, SW quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.0050 U	5
		S	0.025 U	30	0.030 U	30	0.0050 U	30	0.0050 U	30
HMW-6IA	SDOT Mercer Parcels, SW quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.0050 U	5
		S	0.025 U	30	0.030 U	30	0.0050 U	30	0.0050 U	30
HMW-6IB	SDOT Mercer Parcels, SW quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.0050 U	5
		S	–		–		–		–	
HMW-7IB	SDOT Mercer Parcels, SW quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.0050 U	5
		S	–		–		–		–	
HMW-8IB	SDOT Mercer Parcels, SW quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.0050 U	5
		S	–		–		–		–	
HMW-9D	SDOT Mercer Parcels, SW quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.0050 U	5
		S	0.025 U	25	0.030 U	25	0.0050 U	25	0.0050 U	25
HMW-9IA	SDOT Mercer Parcels, SW quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.0050 U	5
		S	0.025 U	25	0.030 U	25	0.0050 U	25	0.0050 U	25
HMW-9IB	SDOT Mercer Parcels, SW quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.0050 U	5
		S	0.025 U	25	0.030 U	25	0.0050 U	25	0.0050 U	25

Table 13

Summary of PCE, TCE, cDCE, and VC in Soil
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Zone	Maximum Concentration (mg/kg)							
			PCE	Depth	TCE	Depth	cDCE	Depth	VC	Depth
	Vadose Zone PCUL (V)		**0.050**		**0.025**		**0.078**		***0.0040***	
	Saturated Zone PCUL (S)		***0.0050***		***0.0020***		**0.0052**		***0.0040***	
HMW-9S	SDOT Mercer Parcels, SW quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.0050 U	5
		S	0.025 U	25	0.030 U	25	0.0050 U	25	0.0050 U	25
HMW-10D	SDOT Mercer Parcels, SE quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.0050 U	5
		S	0.025 U	25	0.030 U	25	0.0050 U	25	0.0050 U	25
HMW-10S	SDOT Mercer Parcels, SE quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.0050 U	5
		S	0.025 U	25	0.030 U	25	0.0050 U	25	0.0050 U	25
HMW-11IB	SDOT Mercer Parcels, SE quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.0050 U	5
		S	0.025 U	20	0.030 U	20	0.0050 U	20	0.0050 U	20
HMW-11S	SDOT Mercer Parcels, SE quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.0050 U	5
		S	0.025 U	20	0.030 U	20	0.0050 U	20	0.0050 U	20
HMW-17S	SDOT Mercer Parcels, NW quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.0050 U	5
		S	0.025 U	25	0.030 U	25	0.0050 U	25	0.0050 U	25
HMW-18S	SDOT Mercer Parcels, NW quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.0050 U	5
		S	0.025 U	25	0.030 U	25	0.0050 U	25	0.0050 U	25
HMW-19S	SDOT Mercer Parcels, NW quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.0050 U	5
		S	0.025 U	26	0.030 U	26	0.0050 U	26	0.0050 U	26
HMW-20S	SDOT Mercer Parcels, NW quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.0050 U	5
		S	0.025 U	25	0.030 U	25	0.0050 U	25	0.0050 U	25
MBB-1	SDOT Mercer Parcels, NW quadrant	V	0.025 U	5	0.030 U	5	0.050 U	20	0.050 U	20
		S	0.025 U	25	0.030 U	25	0.0050 U	25	0.0050 U	25
MBB-2	SDOT Mercer Parcels, NW quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.0050 U	5
		S	0.025 U	25	0.030 U	25	0.0050 U	25	0.0050 U	25
MBB-3	SDOT Mercer Parcels, NW quadrant	V	0.025 U	5	0.030 U	5	0.050 U	10	0.050 U	10
		S	0.025 U	25	0.030 U	25	0.0050 U	25	0.0050 U	25
MBB-4	SDOT Mercer Parcels, NW quadrant	V	0.025 U	5	0.030 U	5	0.050 U	20	0.050 U	20
		S	0.025 U	25	0.030 U	25	0.0050 U	25	0.0050 U	25
MBB-5	SDOT Mercer Parcels, NW quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.0050 U	5
		S	0.025 U	25	0.030 U	25	0.0050 U	25	0.0050 U	25
MBB-6	SDOT Mercer Parcels, NW quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.0050 U	5
		S	0.025 U	25	0.030 U	25	0.0050 U	25	0.0050 U	25
MBB-7	SDOT Mercer Parcels, NW quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.0050 U	5
		S	0.025 U	25	0.030 U	25	0.0050 U	25	0.0050 U	25

Table 13

Summary of PCE, TCE, cDCE, and VC in Soil
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Zone	Maximum Concentration (mg/kg)							
			PCE	Depth	TCE	Depth	cDCE	Depth	VC	Depth
	Vadose Zone PCUL (V)		**0.050**		**0.025**		**0.078**		***0.0040***	
	Saturated Zone PCUL (S)		***0.0050***		***0.0020***		**0.0052**		***0.0040***	
MBB-8	SDOT Mercer Parcels, NW quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.0050 U	5
		S	0.025 U	25	0.030 U	25	0.0050 U	25	0.0050 U	25
MBB-9	SDOT Mercer Parcels, NE quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.0050 U	5
		S	0.025 U	25	0.030 U	25	0.0050 U	25	0.0050 U	25
MBB-10	SDOT Mercer Parcels, NE quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.0050 U	5
		S	0.025 U	25	0.030 U	25	0.0050 U	25	0.0050 U	25
MBB-16	SDOT Mercer Parcels, NW quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.0050 U	5
		S	–		–		–		–	
MBB-17	SDOT Mercer Parcels, SW quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.0050 U	5
		S	0.025 U	25	0.030 U	25	0.0050 U	25	0.0050 U	25
MBB-18	SDOT Mercer Parcels, NW quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.0050 U	5
		S	–		–		–		–	
MBB-19	SDOT Mercer Parcels, SW quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.0050 U	5
		S	–		–		–		–	
MBB-20	SDOT Mercer Parcels, NE quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.0050 U	5
		S	–		–		–		–	
MBB-21	SDOT Mercer Parcels, SE quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.0050 U	5
		S	–		–		–		–	
MBB-22	SDOT Mercer Parcels, SE quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.0050 U	5
		S	0.025 U	20	0.030 U	20	0.0050 U	20	0.0050 U	20
MBB-23	SDOT Mercer Parcels, NE quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.0050 U	5
		S	0.025 U	25	0.030 U	25	**0.014**	30	0.0050 U	25
MBB-24	SDOT Mercer Parcels, NW quadrant	V	0.025 U	5	0.030 U	5	0.0050 U	5	0.0050 U	5
		S	0.025 U	25	0.030 U	25	0.0050 U	25	0.0050 U	25
MBGW-1	SDOT Mercer Parcels, NE quadrant	V	0.050 U	5	0.020 U	5	0.050 U	5	0.050 U	5
		S	0.050 U	17.5	0.020 U	17.5	0.050 U	17.5	0.050 U	17.5
MBGW-2	SDOT Mercer Parcels, NE quadrant	V	0.050 U	10	0.020 U	10	0.050 U	10	0.050 U	10
		S	0.050 U	25	0.020 U	25	0.050 U	25	0.050 U	25
MBGW-3	SDOT Mercer Parcels, NE quadrant	V	0.050 U	7.5	0.020 U	7.5	0.050 U	7.5	0.050 U	7.5
		S	0.050 U	25	0.020 U	25	0.050 U	25	0.050 U	25
MBGW-4	SDOT Mercer Parcels, NE quadrant	V	0.050 U	7.5	0.020 U	7.5	0.050 U	7.5	0.050 U	7.5
		S	0.050 U	25	0.020 U	25	0.050 U	25	0.050 U	25

Table 13

Summary of PCE, TCE, cDCE, and VC in Soil
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Zone	Maximum Concentration (mg/kg)							
			PCE	Depth	TCE	Depth	cDCE	Depth	VC	Depth
	Vadose Zone PCUL (V)		**0.050**		**0.025**		**0.078**		***0.0040***	
	Saturated Zone PCUL (S)		***0.0050***		***0.0020***		**0.0052**		***0.0040***	
MBGW-5	SDOT Mercer Parcels, NW quadrant	V	0.050 U	10	0.020 U	10	0.050 U	10	0.050 U	10
		S	**3.4**	45	**0.47**	45	**0.26**	45	0.050 U	27.5
MBGW-6	SDOT Mercer Parcels, NW quadrant	V	0.050 U	10	0.020 U	10	0.050 U	10	0.050 U	10
		S	0.050 U	30	0.020 U	30	0.050 U	30	0.050 U	30
MBGW-7	SDOT Mercer Parcels, SW quadrant	V	–		–		–		–	
		S	0.050 U	30	0.020 U	30	0.050 U	30	0.050 U	30
MBGW-8	SDOT Mercer Parcels, SE quadrant	V	0.050 U	10	0.020 U	10	0.050 U	10	0.050 U	10
		S	0.050 U	25	0.020 U	25	0.050 U	25	0.050 U	25
MBGW-9	SDOT Mercer Parcels, SW quadrant	V	0.050 U	10	0.020 U	10	0.050 U	10	0.050 U	10
		S	0.050 U	25	0.020 U	25	0.050 U	25	0.050 U	25
MBGW-10	SDOT Mercer Parcels, SW quadrant	V	0.050 U	10	0.020 U	10	0.050 U	10	0.050 U	10
		S	0.050 U	25	0.020 U	25	0.050 U	25	0.050 U	25
MBGW-11	Mercer St ROW, N side	V	0.050 U	5	0.020 U	5	0.050 U	5	0.050 U	5
		S	–		–		–		–	
MBGW-12	SDOT Mercer Parcels, NW quadrant	V	0.050 U	5	0.020 U	5	0.050 U	5	0.050 U	5
		S	0.050 U	25	0.020 U	25	0.050 U	25	0.050 U	25
MBGW-13	SDOT Mercer Parcels, NW quadrant	V	0.050 U	5	0.020 U	5	0.050 U	5	0.050 U	5
		S	–		–		–		–	
MBGW-14	SDOT Mercer Parcels, SE quadrant	V	0.050 U	10	0.020 U	10	0.050 U	10	0.050 U	10
		S	0.050 U	30	0.020 U	30	0.050 U	30	0.050 U	30
MBGW-16	SDOT Mercer Parcels, SW quadrant	V	0.050 U	10	0.020 U	10	0.050 U	10	0.050 U	10
		S	0.050 U	30	0.020 U	30	0.050 U	30	0.050 U	30
MBPP-1	SDOT Mercer Parcels, SE quadrant	V	0.050 U	20	0.020 U	20	0.050 U	20	0.050 U	20
		S	0.050 U	25	0.020 U	25	0.050 U	25	0.050 U	25
MBPP-2	SDOT Mercer Parcels, SE quadrant	V	0.050 U	10	0.020 U	10	0.050 U	10	0.050 U	10
		S	0.050 U	27.5	0.020 U	27.5	0.050 U	27.5	0.050 U	27.5
MBPP-3	SDOT Mercer Parcels, SE quadrant	V	0.050 U	10	0.020 U	10	0.050 U	10	0.050 U	10
		S	0.050 U	25	0.020 U	25	0.050 U	25	0.050 U	25
MBPP-4	SDOT Mercer Parcels, SE quadrant	V	0.050 U	2.5	0.020 U	2.5	0.050 U	2.5	0.050 U	2.5
		S	–		–		–		–	
MBPP-5	SDOT Mercer Parcels, NE quadrant	V	0.050 U	10	0.020 U	10	0.050 U	10	0.050 U	10
		S	0.050 U	20	0.020 U	20	0.050 U	20	0.050 U	20

Table 13

Summary of PCE, TCE, cDCE, and VC in Soil
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Zone	Maximum Concentration (mg/kg)							
			PCE	Depth	TCE	Depth	cDCE	Depth	VC	Depth
	Vadose Zone PCUL (V)		**0.050**		**0.025**		**0.078**		***0.0040***	
	Saturated Zone PCUL (S)		***0.0050***		***0.0020***		**0.0052**		***0.0040***	
MBPP-6	SDOT Mercer Parcels, SW quadrant	V	0.050 U	7.5	0.020 U	7.5	0.050 U	7.5	0.050 U	7.5
		S	0.050 U	25	0.020 U	25	0.050 U	25	0.050 U	25
MBPP-7	SDOT Mercer Parcels, NW quadrant	V	0.050 U	5	0.020 U	5	0.050 U	5	0.050 U	5
		S	0.050 U	23	0.020 U	23	0.050 U	23	0.050 U	23
MBPP-8	SDOT Mercer Parcels, SW quadrant	V	0.050 U	10	0.020 U	10	0.050 U	10	0.050 U	10
		S	0.050 U	30	0.020 U	30	0.050 U	30	0.050 U	30
MW-345	SDOT Mercer Parcels, NW quadrant	V	–		–		–		–	
		S	**0.275**	41	**0.0273**	41	**0.984**	41	**0.189**	41
MW-346	SDOT Mercer Parcels, NW quadrant	V	–		–		–		–	
		S	**4.43**	41.5	**0.415**	41.5	**0.661**	41.5	**0.124**	41.5
MW-347	SDOT Mercer Parcels, NW quadrant	V	–		–		–		–	
		S	**1.36**	44.5	**0.699 J**	44.5	**0.954**	44.5	**0.466 J**	44.5
MW-348	SDOT Mercer Parcels, SW quadrant	V	–		–		–		–	
		S	**2.48**	49	**0.421**	49	**6.55**	41	**0.569**	41
MW-349	SDOT Mercer Parcels, SW quadrant	V	–		–		–		–	
		S	**1.05**	49	**0.209**	49	**0.572**	49	**0.0752**	49

Table 13

Summary of PCE, TCE, cDCE, and VC in Soil
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Description of Location	Zone	Maximum Concentration (mg/kg)							
			PCE	Depth	TCE	Depth	cDCE	Depth	VC	Depth
	Vadose Zone PCUL (V)		**0.050**		**0.025**		**0.078**		***0.0040***	
	Saturated Zone PCUL (S)		***0.0050***		***0.0020***		**0.0052**		***0.0040***	
MW-350	SDOT Mercer Parcels, NW quadrant	V	–		–		–		–	
		S	0.00116 U	41	0.000754 U	41	0.000947 U	41	0.00150 U	41

Notes:

PCE = Perchloroethylene (tetrachloroethene).
TCE = Trichloroethene.
cDCE = cis-1,2-Dichloroethene.
VC = Vinyl chloride.
V = Vadose zone.
S = Saturated zone.
Depth is given in feet below ground surface.
Soil sample concentrations shown in milligrams per kilogram (mg/kg).
Comp = composite sample from the saturated zone.
– = Data not available in indicated zone.
U = Not detected at a concentration exceeding laboratory reporting limit.
Detected results shown in **bold**.

Preliminary Cleanup Levels (PCULs) from Washington State Department of Ecology, Memorandum from P. Tomlinson to TCP File for American Linen Supply Co. Dexter Ave. (FSID 3573, CSID 12004) re: Development of site-specific preliminary cleanup levels, December 14, 2021. PCULs based on the practical quantitation limits (PQLs) italicized.

Detections above the PCUL in the vadose zone are shown in **bold and highlighted blue**

Detections above the PCUL in the saturated zone are shown in **bold and highlighted gray.**

J = the reported concentration is an estimate based on detectable results between the method detection limit and reporting limit, laboratory QA/QC, or data validation review.

J+ = the result is an estimated quantity, but the result may be biased high.

J- = the result is an estimated quantity, but the result may be biased low.

B = analyte detected in an associated method blank.

ve = Estimated value. The reported range exceeds the calibration range of the analysis.

T = Analyte also detected in trip blank.

Table 14

Groundwater CVOC Summary, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Location Description	Concentration	PCE	TCE	cDCE	VC	Notes
		Preliminary Cleanup Level	**5**	**4**	**16**	**0.29**	
Shallow Zone							
DMW-1S	615 Dexter, SE quadrant	Min	0.20 U	0.20 U	0.20 U	0.20 U	No trend description; n = 3
		Max	1.0 U	1.0 U	1.0 U	0.20 U	
		Trend	–	–	–	–	
DMW-2S	615 Dexter, SE quadrant	Min	0.20 U	0.20 U	0.20 U	0.20 U	No trend description; n = 1
		Max	–	–	–	–	
		Trend	–	–	–	–	
DMW-4S	Alley S of SE quadrant of 615 Dexter	Min	0.20 U	0.20 U	0.20 U	0.20 U	No trend description; n = 1
		Max	–	–	–	–	
		Trend	–	–	–	–	
DMW-5IA	Alley S of 615 Dexter	Min	0.20 U	0.20 U	0.20 U	0.20 U	No trend description; n = 1
		Max	–	–	–	–	
		Trend	–	–	–	–	
DMW-6	615 Dexter, NE quadrant	Min	0.20 U	0.20 U	0.20 U	0.20 U	No trend description; n = 1
		Max	–	–	–	–	
		Trend	–	–	–	–	
FMW-143	9th Ave N ROW, E side	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	
		Max	0.300 U	0.190 U	0.126 U	0.234 U	
		Trend	**Stable**	**Stable**	**Stable**	**Stable**	
HMW-1S	SDOT Mercer Parcels, NE quadrant	Min	0.20 U	0.20 U	0.20 U	0.20 U	No trend description; n = 2
		Max	1.0 U	1.0 U	1.0 U	0.20 U	
		Trend	–	–	–	–	
HMW-2S	SDOT Mercer Parcels, NE quadrant	Min	0.20 U	0.20 U	0.20 U	0.20 U	No trend description; n = 2
		Max	1.0 U	1.0 U	1.0 U	0.20 U	
		Trend	–	–	–	–	
HMW-9S	SDOT Mercer Parcels, SW quadrant	Min	0.20 U	0.20 U	0.20 U	0.20 U	No trend description; n = 1
		Max	–	–	–	–	
		Trend	–	–	–	–	
HMW-10S	SDOT Mercer Parcels, SE quadrant	Min	0.20 U	0.20 U	0.20 U	0.20 U	No trend description; n = 1
		Max	–	–	–	–	
		Trend	–	–	–	–	
HMW-11S	SDOT Mercer Parcels, SE quadrant	Min	0.20 U	0.20 U	0.20 U	0.20 U	No trend description; n = 1
		Max	–	–	–	–	
		Trend	–	–	–	–	
HMW-17S	SDOT Mercer Parcels, NW quadrant	Min	0.20 U	0.20 U	0.20 U	0.20 U	No trend description; n = 1
		Max	–	–	–	–	
		Trend	–	–	–	–	

Table 14

Groundwater CVOC Summary, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Location Description	Concentration	PCE	TCE	cDCE	VC	Notes
HMW-18S	SDOT Mercer Parcels, NW quadrant	Min	0.20 U	0.20 U	0.20 U	0.20 U	No trend description; n = 1
		Max	–	–	–	–	
		Trend	–	–	–	–	
HMW-19S	SDOT Mercer Parcels, NW quadrant	Min	0.20 U	0.20 U	0.20 U	0.20 U	No trend description; n = 1
		Max	–	–	–	–	
		Trend	–	–	–	–	
HMW-20S	SDOT Mercer Parcels, NW quadrant	Min	**4.7**	**0.38**	**1.4**	**0.99**	No trend description; n = 1
		Max	–	–	–	–	
		Trend	–	–	–	–	
MW-8	Seattle Roy Aloha Shops, N end	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	
		Max	**0.570**	0.190 U	0.126 U	0.234 U	
		Trend	**No Trend**	**Stable**	**Stable**	**Stable**	
MW-9	8th Ave N ROW, E side	Min	0.0280 U	0.0160 U	0.0933 U	0.0273 U	
		Max	**157**	**45.2**	**75.1**	**0.619**	
		Trend	**No Trend**	**Prob Decreasing**	**No Trend**	**No Trend**	
MW121	8th Ave N ROW, E side	Min	0.0280 U	0.0160 U	**0.193**	**1.73**	
		Max	**2.93**	0.153 U	**5.53**	**19.8**	
		Trend	**Decreasing**	**Stable**	**No Trend**	**Prob Decreasing**	
MW125	Valley St ROW, N side	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	
		Max	**0.580**	0.153 U	**0.496 J**	0.118 U	
		Trend	**Decreasing**	**Stable**	**Prob Decreasing**	**Stable**	
MW-154	Roy St ROW, S side	Min	**1.02**	**0.214 J**	**0.134**	0.0273 U	
		Max	**73.9**	**6.84**	**2.58**	**7.48**	
		Trend	**No Trend**	**No Trend**	**Stable**	**Decreasing**	
MW-155	Roy St ROW, S side	Min	**3.48**	**0.334 J**	**0.274 J**	0.0273 UJ	
		Max	**140**	**28.0**	**71.9**	**6.54 J**	
		Trend	**Increasing**	**Increasing**	**No Trend**	**No Trend**	
MW-159	8th Ave N ROW, E side	Min	0.0280 U	**0.0160 U**	**0.518**	0.118 U	
		Max	**0.964**	**0.358 J**	**1.23**	**1.03 J**	
		Trend	**No Trend**	**Decreasing**	**Decreasing**	**Stable**	
MW-210	Valley St ROW, N side	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	
		Max	0.199 U	0.153 U	0.0933 U	0.118 UJ	
		Trend	**Stable**	**Stable**	**Stable**	**Stable**	
MW-214	Valley St ROW, S side	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	
		Max	**0.725**	0.153 U	0.0933 U	0.118 U	
		Trend	**No Trend**	**Stable**	**Stable**	**Stable**	
MW-301	Valley St ROW, S side	Min	**1.62**	**0.101**	0.0276 U	0.0273 U	
		Max	**1.96**	**0.157**	0.0276 U	0.0273 U	
		Trend	**Stable**	**Stable**	**Stable**	**Stable**	

Table 14

Groundwater CVOC Summary, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Location Description	Concentration	PCE	TCE	cDCE	VC	Notes
MW-305	Roy St ROW, S side	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	
		Max	0.300 U	0.190 U	0.126 U	0.234 U	
		Trend	**Stable**	**Stable**	**Stable**	**Stable**	
MW-310	Alley E of Seattle Roy Aloha Shops	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	
		Max	0.199 U	0.153 U	**0.203**	0.118 U	
		Trend	**Stable**	**Stable**	**No Trend**	**Stable**	
MW-312	Alley E of Seattle Roy Aloha Shops	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	
		Max	0.300 U	0.190 U	0.126 U	0.234 U	
		Trend	**Stable**	**Stable**	**Stable**	**Stable**	
MW-313	Alley E of Seattle Roy Aloha Shops	Min	0.0280 U	0.0160 U	**2.31**	**0.524**	No trend description; n = 3
		Max	0.199 U	0.153 U	**7.34**	**2.59**	
		Trend	–	–	–	–	
MW-320	9th Ave N ROW, W side	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	
		Max	0.300 U	0.190 U	**0.0350 J**	0.234 U	
		Trend	**Stable**	**Stable**	**Stable**	**Stable**	
MW-332	Roy St ROW, N side	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	
		Max	0.300 U	0.190 U	**0.419 J**	**0.145**	
		Trend	**Stable**	**Stable**	**Stable**	**Stable**	
MW-337	Lake Union Park, N end	Min	0.0280 U	0.0160 U	0.126 U	0.0273 U	
		Max	0.300 U	**0.0260 J**	**0.0870 J**	**0.0670 J**	
		Trend	**Stable**	**Stable**	**Stable**	**Stable**	
MW-339	Lake Union Park, S end	Min	0.0280 U	0.0160 U	0.126 U	0.0273 U	
		Max	0.300 U	**0.0280 J**	**0.238**	0.234 U	
		Trend	**Stable**	**Stable**	**Stable**	**Stable**	
R-MW5	Dexter Ave N ROW, E side	Min	**0.257 J**	0.153 U	0.0933 U	0.0273 U	PCE and cDCE < 1 µg/L since
		Max	**0.931**	**0.374 J**	**0.505**	0.118 U	Quarter 1, 2017
		Trend	Stable	**No Trend**	Stable	**Stable**	
R-MW6	8th Ave N ROW, W side	Min	**0.0670 J**	**0.341**	**1.22**	**0.248**	
		Max	**1.85**	**3.17**	**37.3**	**43.9**	
		Trend	**Prob Decreasing**	**Decreasing**	**Decreasing**	**Decreasing**	
SCL-MW101	Alley E of Seattle Roy Aloha Shops	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	
		Max	0.199 U	0.153 U	0.0933 U	0.118 U	
		Trend	**Stable**	**Stable**	**Stable**	**Stable**	
SCL-MW105	Alley E of Seattle Roy Aloha Shops	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	
		Max	1.99 U	1.53 U	0.933 U	1.18 U	
		Trend	**Stable**	**Stable**	**Stable**	**Stable**	
SCS-2	Seattle Roy Aloha Shops, N end	Min	0.199 U	0.153 U	0.0933 U	0.118 U	
		Max	1.99 U	1.53 U	0.933 U	1.18 U	
		Trend	**Stable**	**Stable**	**Stable**	**Stable**	

Table 14

Groundwater CVOC Summary, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Location Description	Concentration	PCE	TCE	cDCE	VC	Notes
Intermediate A Zone							
BB-8	Roy St ROW, S side	Min	**20.1**	**3.83**	**2.19**	0.0273 U	
		Max	**215**	**107 J+**	**101**	**0.618**	
		Trend	**Increasing**	**Prob Increasing**	**No Trend**	**No Trend**	
DMW-3IA	615 Dexter, NE quadrant	Min	0.20 U	0.20 U	0.20 U	0.20 U	No trend description; n = 1
		Max	–	–	–	–	
		Trend	–	–	–	–	
FMW-142	9th Ave N ROW, E side	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	
		Max	**0.38**	0.300 U	**0.36**	0.234 U	
		Trend	**Prob Decreasing**	**Stable**	**Prob Decreasing**	**Stable**	
GEI-1	Block 37, SW quadrant	Min	0.0280 U	0.0160 U	0.0276 UJ	0.0273 U	
		Max	0.300 U	0.190 U	0.126 U	0.234 U	
		Trend	**Stable**	**Stable**	**Stable**	**Stable**	
GEI-MW-1	Block 79 East, N end	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	
		Max	0.300 U	**0.230 J**	0.126 U	0.234 U	
		Trend	**Stable**	**Prob Decreasing**	**Stable**	**Stable**	
HMW-2IA	SDOT Mercer Parcels, NE quadrant	Min	**210**	**69**	**120**	**1.2**	No trend description; n = 2
		Max	**240**	**74**	**180**	2.0 U	
		Trend	–	–	–	–	
HMW-3IA	SDOT Mercer Parcels, NW quadrant	Min	0.20 U	0.20 U	0.20 U	0.20 U	No trend description; n = 2
		Max	0.20 U	0.20 U	1.0 U	0.20 U	
		Trend	–	–	–	–	
HMW-6IA	SDOT Mercer Parcels, SW quadrant	Min	0.20 U	0.20 U	0.20 U	0.20 U	No trend description; n = 1
		Max	–	–	–	–	
		Trend	–	–	–	–	
HMW-9IA	SDOT Mercer Parcels, SW quadrant	Min	**0.243**	**0.23**	**3.7**	**0.95**	No trend description; n = 2
		Max	**0.42**	**0.916**	**136**	**196**	
		Trend	–	–	–	–	
HMW-20IA	SDOT Mercer Parcels, NW quadrant	Min	**1.37**	**18.0**	**840**	**520**	No trend description; n = 2
		Max	**5.50**	**31.9**	**6,400**	**5,940**	
		Trend	–	–	–	–	
MW107	8th Ave N ROW, W side	Min	**0.051 J**	**0.266**	**3.20**	0.682 U	
		Max	**63.8**	**700**	**3,590**	**674**	
		Trend	**No Trend**	**No Trend**	**No Trend**	**Stable**	
MW108	Alley E of Seattle Roy Aloha Shops	Min	**10.2**	**12.5**	**165**	**11.3**	
		Max	**4,190**	**587**	**1,180**	**224**	
		Trend	**Prob Decreasing**	**Stable**	**Stable**	**No Trend**	

Table 14

Groundwater CVOC Summary, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Location Description	Concentration	PCE	TCE	cDCE	VC	Notes
MW109	Alley E of Seattle Roy Aloha Shops	Min	0.0280 U	**0.0550**	**4.78**	**1.02**	
		Max	**9.69 J**	**210**	**629**	**109**	
		Trend	**Decreasing**	**Decreasing**	**Prob Decreasing**	**No Trend**	
MW110	Alley E of Seattle Roy Aloha Shops	Min	**259**	**176**	**187**	0.273 U	
		Max	**1,500**	**613**	**1,120**	**152**	
		Trend	**Stable**	**Stable**	**Stable**	**No Trend**	
MW115	9th Ave N ROW, W side	Min	0.0280 U	0.0160 U	**0.140**	**0.808 J+**	
		Max	0.300 U	0.190 U	**0.880**	**26.9**	
		Trend	**Stable**	**Stable**	**Prob Decreasing**	**Decreasing**	
MW116	9th Ave N ROW, W side	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	
		Max	**0.0480 J**	**0.303 J**	**0.655**	0.234 U	
		Trend	**Stable**	Stable	Stable	**Stable**	
MW119	9th Ave N ROW, W side	Min	**0.0410 J**	0.153 U	0.0933 U	0.0480 U	
		Max	**19.0**	**12.4**	**42.9**	**0.440**	
		Trend	**Decreasing**	**Decreasing**	**Stable**	**Increasing**	
MW120	8th Ave N ROW, E side	Min	0.199 U	0.153 U	**0.811**	0.118 U	
		Max	**155**	**46.9**	**87.2**	**2.92**	
		Trend	**Stable**	**Stable**	**Stable**	**No Trend**	
MW127	8th Ave N ROW, E side	Min	0.0280 U	0.0160 U	**0.489 J**	0.0273 U	
		Max	0.300 U	0.190 U	**0.898**	0.234 U	
		Trend	**Stable**	**Stable**	**Stable**	**Stable**	
MW-142	8th Ave N ROW, E side	Min	0.0280 U	0.153 U	**5.62**	**3.45**	CVOCs decreasing since 2020 Quarter 4.
		Max	**3.34**	**24.5**	**136**	**34.6**	
		Trend	**No Trend**	**No Trend**	**Increasing**	**Prob Increasing**	
MW-144/ MW-144R	8th Ave N ROW, E side	Min	0.0280 U	0.153 UJ	**0.405**	**0.365**	
		Max	**11.0**	**11.5**	**251**	**888**	
		Trend	**Decreasing**	**Decreasing**	**Decreasing**	**Decreasing**	
MW-146	Roy St ROW, S side	Min	**0.704 J**	0.800 U	**257**	**383**	
		Max	**21.1 J**	**48.4**	**3,900**	**8,610**	
		Trend	**Decreasing**	**Decreasing**	**Increasing**	**Increasing**	
MW-156	8th Ave N ROW, E side	Min	9.95 U	**184**	**580**	0.273 U	
		Max	**1,720**	**1,270**	**2,850**	**407**	
		Trend	**Prob Decreasing**	**Decreasing**	**Decreasing**	**No Trend**	
MW-189	Valley St ROW, S side	Min	0.0280 U	0.0160 U	0.435 U	**0.879 J**	
		Max	0.199 U	0.153 U	**6.63**	**45.0**	
		Trend	**Stable**	**Stable**	**No Trend**	**No Trend**	
MW-302	Dexter Ave N ROW, E side	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	
		Max	**0.353 J**	0.190 U	0.126 U	0.234 U	
		Trend	**Stable**	**Stable**	**Stable**	**Stable**	

Table 14

Groundwater CVOC Summary, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Location Description	Concentration	PCE	TCE	cDCE	VC	Notes
MW-306	Roy St ROW, S side	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	
		Max	0.300 U	0.190 U	0.126 U	0.234 U	
		Trend	**Stable**	**Stable**	**Stable**	**Stable**	
MW-308	Alley E of Seattle Roy Aloha Shops	Min	0.0280 U	0.0160 U	**3.98**	**2.73**	
		Max	0.199 U	0.153 U	**38.9**	**20.3**	
		Trend	**Stable**	**Stable**	**Prob Decreasing**	**Decreasing**	
MW-315	Mercer St ROW, N side	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	
		Max	0.300 U	0.190 U	0.126 U	0.234 U	
		Trend	**Stable**	**Stable**	**Stable**	**Stable**	
MW-317	9th Ave N ROW, W side	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	
		Max	0.300 U	0.190 U	0.126 U	0.234 U	
		Trend	**Stable**	**Stable**	**Stable**	**Stable**	
MW-325	Mercer St ROW, N side	Min	0.0280 U	0.0160 U	0.0933 U	0.0273 U	
		Max	0.300 U	0.190 U	**1.50**	0.234 U	
		Trend	**Stable**	**Stable**	**Stable**	**Stable**	
MW-327	Lake Union Park, S end	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	
		Max	**0.260**	**0.267**	0.0933 U	0.118 U	
		Trend	**Stable**	**No Trend**	**Stable**	**Stable**	
MW-330	Valley St ROW, N side	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	
		Max	0.300 U	0.190 U	0.126 U	0.234 U	
		Trend	**Stable**	**Stable**	**Stable**	**Stable**	
MW-331	Alley E of Seattle Roy Aloha Shops	Min	0.0280 U	0.0160 U	0.126 U	**0.249 J**	
		Max	0.300 U	0.190 U	**0.0728 J**	**0.339**	
		Trend	**Stable**	**Stable**	**Stable**	**Stable**	
MW-333	900 Roy St, S end	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	
		Max	0.300 U	0.190 U	0.126 U	0.234 U	
		Trend	**Stable**	**Stable**	**Stable**	**Stable**	
Intermediate B Zone							
FMW-141	Alley E of Seattle Roy Aloha Shops	Min	0.0280 U	**0.56**	**5.41**	**0.218**	
		Max	30 U	**2,800**	**8,100**	**2,900**	
		Trend	Stable	**Decreasing**	**Decreasing**	**Decreasing**	
HMW-1IB	SDOT Mercer Parcels, NE quadrant	Min	**13**	**5.6**	**16**	0.20 U	No trend description; n = 2
		Max	**20**	**6.7**	**22**	0.20 U	
		Trend	–	–	–	–	
HMW-2IB	SDOT Mercer Parcels, NE quadrant	Min	**0.38**	0.20 U	**0.59**	0.20 U	No trend description; n = 2
		Max	–	–	–	–	
		Trend	–	–	–	–	

Table 14

Groundwater CVOC Summary, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Location Description	Concentration	PCE	TCE	cDCE	VC	Notes
HMW-4IA	SDOT Mercer Parcels, SW quadrant	Min	0.20 U	0.20 U	0.20 U	0.20 U	No trend description; n = 2
		Max	1.0 U	1.0 U	1.0 U	**0.41**	
		Trend	–	–	–	–	
HMW-5IB	SDOT Mercer Parcels, SW quadrant	Min	0.20 U	0.20 U	0.20 U	0.20 U	No trend description; n = 1
		Max	–	–	–	–	
		Trend	–	–	–	–	
HMW-6IB	SDOT Mercer Parcels, SW quadrant	Min	0.20 U	0.20 U	0.20 U	0.20 U	No trend description; n = 1
		Max	–	–	–	–	
		Trend	–	–	–	–	
HMW-7IB	SDOT Mercer Parcels, SW quadrant	Min	0.20 U	0.20 U	0.20 U	0.20 U	No trend description; n = 1
		Max	–	–	–	–	
		Trend	–	–	–	–	
HMW-8IB	SDOT Mercer Parcels, SW quadrant	Min	0.20 U	0.20 U	0.20 U	0.20 U	No trend description; n = 1
		Max	–	–	–	–	
		Trend	–	–	–	–	
HMW-9IB	SDOT Mercer Parcels, SW quadrant	Min	**16.2**	**81.6**	**3,060**	**1,230**	No trend description; n = 3
		Max	**660**	**420**	**9,100**	**1,900**	
		Trend	–	–	–	–	
HMW-11IB	SDOT Mercer Parcels, SE quadrant	Min	**6.9**	**2.5**	**3.6**	0.20 U	No trend description; n = 1
		Max	–	–	–	–	
		Trend	–	–	–	–	
HMW-15IB	SDOT Mercer Parcels, SW quadrant	Min	0.20 U	0.20 U	0.20 U	0.20 U	No trend description; n = 1
		Max	–	–	–	–	
		Trend	–	–	–	–	
HMW-16IB	SDOT Mercer Parcels, NW quadrant	Min	0.20 U	0.20 U	**3.3**	**15**	No trend description; n = 1
		Max	–	–	–	–	
		Trend	–	–	–	–	
MW111	Alley E of Seattle Roy Aloha Shops	Min	0.0280 U	**0.0790**	**0.413 J**	**3.22**	CVOCs decreasing since 2020 Quarter 4.
		Max	**0.618**	**0.408 J**	**56.2**	**121**	
		Trend	**Stable**	**Stable**	**Increasing**	**Increasing**	
MW112	Dexter Ave N ROW, W side	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	
		Max	0.300 U	0.190 U	0.126 U	0.234 U	
		Trend	**Stable**	**Stable**	**Stable**	**Stable**	
MW126	Alley E of Seattle Roy Aloha Shops	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	
		Max	0.199 U	0.153 U	**0.283 J**	0.118 U	
		Trend	**Stable**	**Stable**	Stable	**Stable**	
MW-143	8th Ave N ROW, E side	Min	0.0280 U	**0.0167 J**	**0.0754 J**	0.0273 U	
		Max	**2.35**	**28.0**	**4,240**	**1,200**	
		Trend	**No Trend**	**No Trend**	**No Trend**	**No Trend**	

Table 14

Groundwater CVOC Summary, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Location Description	Concentration	PCE	TCE	cDCE	VC	Notes
MW-145/ MW-145R	8th Ave N ROW, E side	Min	0.0280 U	0.0160 U	0.0933 U	0.0273 U	
		Max	0.199 U	0.153 U	**2.29**	**3.88**	
		Trend	**Stable**	**Stable**	**Decreasing**	**Decreasing**	
MW-147	Roy St ROW, S side	Min	0.199 U	**3.00 J**	**219**	**446**	CVOCs decreasing since 2020 Quarter 4.
		Max	**98.2**	**179**	**3,740**	**7,290**	
		Trend	**No Trend**	**Prob Decreasing**	**Increasing**	**Increasing**	
MW-148	Roy St ROW, S side	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	
		Max	**1.24**	**0.347 J**	0.126 U	**0.463 J**	
		Trend	**Prob Decreasing**	**Stable**	**Stable**	**Stable**	
MW-157	8th Ave N ROW, E side	Min	0.199 U	0.153 U	**0.188 J**	0.118 U	
		Max	**39.4**	**109**	**4,530**	**980**	
		Trend	**No Trend**	**No Trend**	**Stable**	**No Trend**	
MW-190	Valley St ROW, S side	Min	0.0280 U	0.0160 U	**0.389 J**	0.118 U	CVOCs decreasing since 2020 Quarter 4.
		Max	0.199 U	0.153 U	**21.8**	**68.4**	
		Trend	**Stable**	**Stable**	**No Trend**	**Increasing**	
MW-303	Dexter Ave N ROW, E side	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	
		Max	**0.313 J**	**0.153 J**	0.126 U	0.234 U	
		Trend	Stable	**Stable**	**Stable**	**Stable**	
MW-307	Roy St ROW, S side	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	
		Max	**0.0492 J**	0.190 U	**0.935**	**0.289 J**	
		Trend	**Stable**	**Stable**	Stable	Stable	
MW-309	Alley E of Seattle Roy Aloha Shops	Min	**0.0370 J**	0.0160 U	**0.170**	**6.37**	
		Max	**1.11**	**0.497 J**	**1.47**	**16.0**	
		Trend	**Decreasing**	Stable	**Prob Decreasing**	**No Trend**	
MW-311	Alley E of Seattle Roy Aloha Shops	Min	0.300 U	**0.334**	**0.981**	**4.68**	
		Max	**20.4**	**46.1**	**173**	**25.1**	
		Trend	**Prob Decreasing**	**Decreasing**	**Decreasing**	**Prob Decreasing**	
MW-314	Alley E of Seattle Roy Aloha Shops	Min	1.40 U	**54.5**	**491**	**17.9**	cDCE following similar trend as other CVOCs
		Max	**26.1**	**807**	**4,240**	**442**	
		Trend	**Prob Decreasing**	**No Trend**	No Trend	**No Trend**	
MW-316	Mercer St ROW, N side	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	
		Max	0.300 U	0.190 U	0.126 U	0.234 U	
		Trend	**Stable**	**Stable**	**Stable**	**Stable**	
MW-318	9th Ave N ROW, W side	Min	0.0280 U	0.0160 U	**0.499**	**0.865 J+**	
		Max	0.300 U	0.190 U	**9.86**	**31.0**	
		Trend	**Stable**	**Stable**	**Prob Decreasing**	**Prob Decreasing**	
MW-322	9th Ave N ROW, W side	Min	**0.218 J**	**8.62**	**257**	**41.2**	
		Max	**117**	**661**	**2,740**	**280**	
		Trend	**No Trend**	**No Trend**	**Stable**	**Prob Decreasing**	

Table 14

Groundwater CVOC Summary, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Location Description	Concentration	PCE	TCE	cDCE	VC	Notes
MW-334	900 Roy St, S end	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	
		Max	0.300 U	0.190 U	0.126 U	0.234 U	
		Trend	**Stable**	**Stable**	**Stable**	**Stable**	
MW-335	Mercer St ROW, N side	Min	**58.2**	**131 J+**	**89.2**	0.234 U	
		Max	**295**	**302**	**1,490**	**5.08**	
		Trend	**Decreasing**	**Stable**	**Increasing**	**No Trend**	
MW-338	Lake Union Park, N end	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	
		Max	0.300 U	0.190 U	0.126 U	0.234 U	
		Trend	**Stable**	**Stable**	**Stable**	**Stable**	
MW-340	Lake Union Park, S end	Min	0.0280 U	0.0160 U	0.0276 UJ	0.0273 U	
		Max	0.300 U	0.190 U	0.126 U	0.234 U	
		Trend	**Stable**	**Stable**	**Stable**	**Stable**	
MW-345	SDOT Mercer Parcels, NW quadrant	Min	**0.717**	**0.456**	**13.9**	**8.76**	No trend description; n = 1
		Max	–	–	–	–	
		Trend	–	–	–	–	
MW-346	SDOT Mercer Parcels, NW quadrant	Min	**25.3**	**6.09**	**18.1**	**1.9**	No trend description; n = 1
		Max	–	–	–	–	
		Trend	–	–	–	–	
MW-347	SDOT Mercer Parcels, NW quadrant	Min	**5.19**	**3.83**	**123**	**66.9**	No trend description; n = 1
		Max	–	–	–	–	
		Trend	–	–	–	–	
MW-348	SDOT Mercer Parcels, SW quadrant	Min	**12.6**	**8.62**	**104**	**55.4**	No trend description; n = 1
		Max	–	–	–	–	
		Trend	–	–	–	–	
MW-349	SDOT Mercer Parcels, SW quadrant	Min	**0.611**	**0.474**	**7.23**	**11.6**	No trend description; n = 1
		Max	–	–	–	–	
		Trend	–	–	–	–	
MW-350	SDOT Mercer Parcels, NW quadrant	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	No trend description; n = 1
		Max	–	–	–	–	
		Trend	–	–	–	–	
W-MW-01	8th Ave N ROW, W side	Min	0.0280 U	0.153 U	**0.32 J**	**1.09**	
		Max	**5.33**	**1.77**	**1.31**	**9.41**	
		Trend	**Decreasing**	**Decreasing**	**Stable**	**No Trend**	
W-MW-02	8th Ave N ROW, W side	Min	0.0280 U	**0.136**	**1.39 J**	**1.08**	
		Max	0.199 U	**40.1**	**672**	**81 J**	
		Trend	**Stable**	**No Trend**	**Decreasing**	**Decreasing**	

Table 14

Groundwater CVOC Summary, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Location Description	Concentration	PCE	TCE	cDCE	VC	Notes
Deep Zone							
FMW-129	SDOT Mercer Parcels, NE quadrant	Min	**2.42**	**4.97**	**42.5**	0.0273 U	
		Max	**194**	**492**	**1,420**	**14.2**	
		Trend	**Decreasing**	**Decreasing**	**Decreasing**	**No Trend**	
FMW-131	Block 37, SE quadrant	Min	0.028 U	0.016 U	**0.27**	**0.109**	
		Max	**0.0450 J**	0.20 U	**45.6**	**0.428**	
		Trend	**Stable**	**Stable**	**No Trend**	**Stable**	
FMW-137	Alley E of Block 38 West	Min	0.0280 U	0.0160 U	0.126 U	0.0273 U	
		Max	0.300 U	0.20 U	**2.99**	**0.0920 J**	
		Trend	Stable	Stable	**No Trend**	Stable	
FMW-138	Alley E of Block 38 West	Min	0.20 U	0.20 U	**0.29**	0.20 U	
		Max	0.20 U	0.20 U	**0.38**	0.20 U	
		Trend	**Stable**	**Stable**	**Stable**	**Stable**	
FMW-140	900 Roy St, S end	Min	0.0280 U	0.0160 U	**0.160 J**	**15.8**	
		Max	4.0 U	4.0 U	**406**	**527**	
		Trend	**Stable**	**Stable**	**Decreasing**	**Decreasing**	
FMW-3D	Terry Ave N ROW, E side	Min	0.199 U	0.153 U	0.0933 U	0.118 U	No trend description; n = 1
		Max	–	–	–	–	
		Trend	–	–	–	–	
GEI-2	Block 37, NW quadrant	Min	0.0280 U	0.0160 U	**0.308 J**	0.118 U	
		Max	1.0 U	**0.192 J**	**20.1**	**127**	
		Trend	**Stable**	**Stable**	**Decreasing**	**Decreasing**	
HMW-1D	SDOT Mercer Parcels, NE quadrant	Min	**3.4**	**27**	**410**	6.0 U	No trend description; n = 2
		Max	**21**	**110**	**910**	**4.0**	
		Trend	–	–	–	–	
HMW-2D	SDOT Mercer Parcels, NE quadrant	Min	0.20 U	0.20 U	1.0 U	0.20 U	No trend description; n = 2
		Max	1.0 U	1.0 U	**1.1**	0.20 U	
		Trend	–	–	–	–	
HMW-3D	SDOT Mercer Parcels, NW quadrant	Min	0.20 U	0.20 U	0.20 UJ	0.20 U	No trend description; n = 2
		Max	1.0 U	1.0 U	1.0 U	0.20 U	
		Trend	–	–	–	–	
HMW-6D	SDOT Mercer Parcels, SW quadrant	Min	0.20 U	0.20 U	0.20 U	0.20 U	No trend description; n = 1
		Max	–	–	–	–	
		Trend	–	–	–	–	
HMW-9D	SDOT Mercer Parcels, SW quadrant	Min	**0.89**	0.20 U	**5.1**	**0.97**	No trend description; n = 1
		Max	–	–	–	–	
		Trend	–	–	–	–	

Table 14

Groundwater CVOC Summary, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Location Description	Concentration	PCE	TCE	cDCE	VC	Notes
HMW-10D	SDOT Mercer Parcels, SE quadrant	Min	0.20 U	0.20 U	0.20 U	0.20 U	No trend description; n = 1
		Max	–	–	–	–	
		Trend	–	–	–	–	
HMW-12D	SDOT Mercer Parcels, NE quadrant	Min	0.20 U	0.20 U	**200 J**	**3.9**	No trend description; n = 1
		Max	–	–	–	–	
		Trend	–	–	–	–	
HMW-13D	SDOT Mercer Parcels, SE quadrant	Min	0.20 U	0.20 U	0.20 U	0.20 U	No trend description; n = 1
		Max	–	–	–	–	
		Trend	–	–	–	–	
HMW-14D	SDOT Mercer Parcels, SE quadrant	Min	0.20 U	0.20 U	0.20 U	0.20 U	No trend description; n = 1
		Max	–	–	–	–	
		Trend	–	–	–	–	
MW102	Valley St ROW, S side	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	
		Max	**0.352 J**	0.153 U	**0.289 J**	0.118 U	
		Trend	**Stable**	**Stable**	**Stable**	**Stable**	
MW103	Alley E of Seattle Roy Aloha Shops	Min	0.0280 U	**0.0800**	**2.75**	**2.18**	
		Max	**0.626**	**23.1**	**240**	**157**	
		Trend	**Decreasing**	**Prob Decreasing**	**Decreasing**	**Decreasing**	
MW104	8th Ave N ROW, W side	Min	0.199 U	**0.153**	**1.54**	0.118 UJ	
		Max	**53.1**	**108**	**176**	**57.1**	
		Trend	**No Trend**	**Increasing**	**Stable**	**Stable**	
MW105	Roy St ROW, S side	Min	**0.128**	**0.153**	**0.155 J**	**0.135**	PCE and cDCE detections are below PCUL
		Max	**0.790**	**4.95 J+**	**11.5**	**1.95**	
		Trend	Stable	**Increasing**	Stable	**Prob Decreasing**	
MW106	SDOT Mercer Parcels, NW quadrant	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	
		Max	0.300 U	0.190 U	0.126 U	0.234 U	
		Trend	**Stable**	**Stable**	**Stable**	**Stable**	
MW113	9th Ave N ROW, W side	Min	0.199 U	**0.153**	**39.1**	**0.0710 J**	
		Max	**706**	**1,540**	**10,300**	**1,800**	
		Trend	**Increasing**	**No Trend**	**Decreasing**	**No Trend**	
MW122	Alley E of Seattle Roy Aloha Shops	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	PCE and TCE detections are below PCUL
		Max	**0.289 J**	**0.162 J**	0.0933 U	0.118 U	
		Trend	Stable	Stable	**Stable**	**Stable**	
MW123	Westlake Ave N ROW, W side	Min	0.028 U	0.0160 U	0.0276 UJ	0.0273 U	
		Max	**0.284 J**	0.190 U	0.126 U	0.234 U	
		Trend	**Stable**	**Stable**	**Stable**	**Stable**	
MW124	Valley St ROW, S side	Min	0.0280 U	0.0160 U	0.0276 UJ	0.0273 U	
		Max	**1.60**	**0.596**	**0.661**	0.118 U	
		Trend	**Decreasing**	**Decreasing**	**Decreasing**	**Stable**	

Table 14

Groundwater CVOC Summary, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Location Description	Concentration	PCE	TCE	cDCE	VC	Notes
MW128	Westlake Ave N ROW, E side	Min	0.0276 U	0.0160 U	0.0276 U	**13.3**	
		Max	1.0 U	1.0 U	**109**	**195**	
		Trend	**Stable**	**Stable**	**Decreasing**	**Decreasing**	
MW-138	Dexter Ave N ROW, E side	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	PCE and cDCE detections are below PCUL
		Max	**1.49**	**0.167 J**	**0.262 J**	**0.169 J**	
		Trend	Stable	**Stable**	Stable	**Stable**	
MW-153	Roy St ROW, S side	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	PCE, TCE, cDCE detections are below PCULs
		Max	**0.756**	**0.190 J**	**1.41**	**15.9**	
		Trend	Stable	Stable	Stable	**No Trend**	
MW-158A	8th Ave N ROW, E side	Min	0.0280 U	**0.0680**	**0.0890 J**	**0.195 J**	
		Max	**17.7**	**18.7**	**59.6 J**	**8.91**	
		Trend	**Decreasing**	**Decreasing**	**Decreasing**	**Decreasing**	
MW-160	8th Ave N ROW, W side	Min	0.0280 U	**0.153**	**0.176 J**	0.118 U	PCE detections below PCUL
		Max	**0.828**	**10.2**	**43.2**	**17.1 J**	
		Trend	Stable	**No Trend**	**No Trend**	**Increasing**	
MW-161	8th Ave N ROW, W side	Min	0.199 U	**0.978**	**1.15**	0.118 U	CVOCs decreasing since Quarter 1, 2021.
		Max	**49.0**	**55.8**	**85.8**	**9.28 J**	
		Trend	**No Trend**	**Increasing**	**Increasing**	**Increasing**	
MW-304	Dexter Ave N ROW, E side	Min	0.0280 U	0.0160 U	0.0276 U	0.0273 U	
		Max	0.300 U	0.190 U	0.126 U	0.234 U	
		Trend	**Stable**	**Stable**	**Stable**	**Stable**	
MW-319	9th Ave N ROW, W side	Min	**0.09 J**	**8.12**	**37.4**	**4.16**	
		Max	**0.609**	**13.9**	**63.7**	**6.78**	
		Trend	**Decreasing**	**No Trend**	**Decreasing**	**Prob Decreasing**	
MW-323	9th Ave N ROW, W side	Min	0.0280 U	**0.0260 J**	**2.55**	**4.14**	
		Max	0.300 U	**0.891**	**229**	**64.9**	
		Trend	**Stable**	**Decreasing**	**No Trend**	**No Trend**	
MW-324	Roy St ROW, N side	Min	0.199 U	**0.642**	**1,550**	**45.6**	
		Max	15.0 U	**1.95 J**	**8,520**	**362**	
		Trend	**Stable**	**Stable**	**No Trend**	**Stable**	
MW-326	Mercer St ROW, N side	Min	0.0280 U	**0.026**	**0.224**	**0.109**	
		Max	**0.834**	**0.496**	**9.38**	**0.515 J**	
		Trend	**No Trend**	**Stable**	**Stable**	**Stable**	
MW-328	Lake Union Park, S end	Min	0.0280 U	0.0160 U	0.0276 U	**7.99**	PCE detections below PCUL
		Max	**1.66**	0.153 U	**1.26**	**23.3**	
		Trend	Stable	**Stable**	**Decreasing**	**Prob Decreasing**	
MW-329	Westlake Ave N ROW, E side	Min	0.0280 U	0.0160 U	**9.25**	**23.0**	
		Max	0.300 U	0.190 U	**21.0**	**32.2**	
		Trend	**Stable**	**Stable**	**Prob Increasing**	**Stable**	

Table 14

Groundwater CVOC Summary, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Location Description	Concentration	PCE	TCE	cDCE	VC	Notes
MW-336	Mercer St ROW, N side	Min	0.0280 U	**0.304**	**57.1**	**5.80**	
		Max	**0.600**	**6.08**	**150**	**5.80**	
		Trend	**No Trend**	**Stable**	**Increasing**	**No Trend**	
MW-341	Lake Union Park, S end	Min	0.0280 U	0.016 U	**2.43**	**5.99**	
		Max	**0.074 J**	**0.102**	**41.4**	**26.7**	
		Trend	**Stable**	**Stable**	**Decreasing**	**Stable**	
MW-342	Valley St ROW, S side	Min	0.0280 U	0.0160 U	**1.22**	**1.51**	
		Max	0.300 U	0.190 U	**6.45**	**3.12**	
		Trend	**Stable**	**Stable**	**No Trend**	**No Trend**	
MW-343	Valley St ROW, S side	Min	0.0280 U	0.0160 U	0.0276 UJ	0.0273 U	
		Max	0.300 U	0.190 U	**3.17**	**3.81**	
		Trend	**Stable**	**Stable**	**No Trend**	**No Trend**	

Notes:

CVOCs = Chlorinated volatile organic compounds.

PCE = Tetrachloroethene (perchloroethylene).

TCE = Trichloroethene.

cDCE = cis-1,2-Dichloroethene.

VC = Vinyl chloride.

Preliminary Cleanup Levels (PCULs) from Washington State Department of Ecology, Memorandum from P. Tomlinson to TCP File for American Linen Supply Co. Dexter Ave. (FSID 3573, CSID 12004) re: Development of site-specific preliminary cleanup levels, December 14, 2021.

Analytical concentrations shown in micrograms per liter (µg/L).

min/max = Minimum or maximum concentration available for Quarter 1 2017 through Quarter 2, 2021.

Concentration trend descriptions are not evaluated when a sample location has fewer than four sampling events ($n < 4$).

Concentration trends shown in **bold** were determined quantitatively using the Mann-Kendall statistical method (GSI Mann-Kendall Toolkit, GSI Environmental Inc., 2012).

Detected results are shown in **bold.** Detections above the preliminary cleanup level (PCUL) are shown in **bold and shaded.**

For trends determined using the Mann-Kendall (MK) analysis, one-half of the non-detect value was used for compounds indicated as not detected.

Concentration trends not shown in bold were determined qualitatively.

When all results for a given location are non-detect, the concentration trend is reported as Stable.

U = Not detected at a concentration exceeding laboratory reporting limit.

J = The reported concentration is an estimate based on detectable results between the method detection limit and reporting limit, laboratory QA/QC, or data validation review.

J+ = The result is an estimated quantity, but the result may be biased high.

Table 15

Groundwater Natural Attenuation Parameters
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Location Description	Sample Date	Alkalinity (mg $CaCO_3$/L)	Chloride (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	TOC (mg/L)	Iron (mg/L)			Total Manganese (mg/L)	Dissolved Gases (µg/L)		
								Total	Ferrous	Ferric		Methane	Ethane	Ethene
Shallow Zone														
F13	Property, NE quadrant	03/27/17	**266**	**8.85**	0.0227 U	**68.3**	**10.0**	**24.2**	**1.0**	**23.2**	**0.651**	**510**	0.296 U	0.422 U
		06/22/17	**484**	**12.6**	0.0227 U	**6.13**	**10.9**	**29.3**	**1.5**	**27.8**	**0.806**	**2,610**	0.296 U	0.422 U
		Decommissioned March 2019												
FMW-143	9th Ave N ROW, E side	10/31/19	**405**	**68.4**	0.0227 U	**28.0**	**4.34**	**3.57**	0.0	**3.6**	**5.18**	**1,490**	0.296 U	0.422 U
		01/22/20	**375**	**66.1**	0.0227 U	**51.8**	**4.40**	**4.92**	**3.5**	**1.4**	**7.70**	**1,320**	0.296 U	0.422 U
		05/14/20	**333**	**59.4**	0.0480 U	**62.7**	**3.99**	**6.17**	0.0	**6.2**	**7.51**	**404**	0.296 U	0.422 U
		07/22/20	**347**	**48.9**	0.0480 U	**46.7**	**4.63**	**5.07**	**4.0**	**1.1**	**6.47**	**1,340**	0.296 U	0.422 U
J5	Property, SW quadrant	03/21/17	**53.4**	**28.0**	**0.0584 J**	**16.3**	**4.10**	**1.09**	**0.6**	**0.5**	**0.474**	**2,370**	0.296 U	**29.4**
		06/26/17	**209**	**45.1**	0.0227 U	**8.85**	**11.4**	**2.91**	–	–	**2.24**	**9,600**	**19.6**	**34.4**
		Decommissioned March 2019												
J15	Property, SE quadrant	03/27/17	**476**	**24.2**	0.0227 U	**55.8**	**20.0**	**5.52**	**2.0**	**3.5**	**3.34**	**3,100**	0.296 U	0.422 U
		06/26/17	**486**	**22.0**	0.0227 U	**60.3**	**19.1**	**2.66**	**1.5**	**1.2**	**3.09**	**2,220**	0.296 U	0.422 U
(dup)		06/26/17	**543**	**22.1**	0.0227 U	**60.4**	**19.0**	**3.02**	**1.5**	**1.5**	**3.03**	**2.34**	0.296 U	0.422 U
		Decommissioned March 2019												
K8	Property, SW quadrant	03/21/17	**70.3**	**10.1**	**0.103**	**27.2**	**5.93**	**0.0622 J**	0.0	**0.1**	**0.242**	**41.4**	0.296 U	0.422 U
		06/26/17	**97.5**	**14.7**	**0.307**	**25.8**	**6.45**	**0.0411 J**	0.0	**0.0**	**0.296**	**72.7**	0.296 U	0.422 U
		Decommissioned March 2019												
M15	Property, SE quadrant	03/27/17	**830**	**11.6**	0.0227 U	**40.4**	**11.4**	**3.76**	**2.75**	**1.0**	**6.07**	**11,500**	0.296 U	0.422 U
(dup)		03/27/17	**817**	**11.6**	0.0227 U	**40.4**	**11.7**	**3.77**	–	–	**6.17**	**10,400**	0.296 U	0.422 U
		06/26/17	**904**	**11.0**	0.0227 U	**47.2**	**11.0**	**3.32**	–	–	**6.32**	**7,250**	0.296 U	0.422 U
		Decommissioned March 2019												
MW121	8th Ave N ROW, E side	12/26/13	**790**	**18.6**	0.0250 U	**200**	–	**2.39**	**1.9**	**0.5**	**6.47**	**346**	5 U	5 U
		03/28/17	**848**	**12.2**	0.0227 U	**643**	**17.9**	**33.3**	**2.0**	**31.3**	**13.2**	**479**	**2.04**	0.422 U
		06/20/17	**930**	**13.3**	0.0227 U	**61.2 J**	**16.5**	**27.1**	**3.0**	**24.1**	**11.0**	**2,140**	**8.88**	0.422 U
		11/30/20	**829**	**14.1**	0.0480 U	**184**	**15.3**	**31.0**	–	–	**11.5**	**3,100**	**16.4**	0.422 U
		02/04/21	–	–	–	**327**	**11.6**	**2.70**	–	–	**0.177**	**121**	**18.5**	**41.6**
		05/12/21	–	–	–	**277**	**13.5**	**22.0**	–	–	**8.95**	**1,950**	**8.54**	0.422 U
(dup)		05/12/21	–	–	–	**278**	**13.1**	**20.3**	–	–	**8.98**	**2,580**	**9.74**	0.422 U
MW125	Valley St ROW, N side	12/26/13	**650**	**112**	**0.076**	**12.8**	–	**2.39**	**1.5**	**0.9**	**1.85**	**455**	**6.34**	5 U
		10/18/19	**481**	**10.9**	**0.0319 J**	**17.1**	**15.3**	**11.7**	**2.0**	**9.7**	**3.67**	**997**	0.296 U	0.422 U
		01/29/20	**417**	**10.8**	0.0227 U	**32.3**	**8.28**	**17.3**	**2.0**	**15**	**3.55**	**2,530**	**1.25 J**	0.422 U
		11/17/20	–	–	–	**0.913 J**	**7.62**	**9.91**	–	–	**3.37**	**5,490**	0.296 U	0.422 U
		02/02/21	–	–	–	0.594 U	**9.09**	**9.27**	–	–	**3.36**	**4,330**	0.296 U	0.422 U
		05/11/21	–	–	–	**1.06 J**	**8.76**	**12.7**	–	–	**3.85**	**6,440**	0.296 U	0.422 U
(dup)		05/11/21	–	–	–	**1.08 J**	**8.59**	**11.5**	–	–	**3.58**	**5,740**	0.296 U	0.422 U
MW-154	Roy St ROW, S side	10/14/19	**186**	**18.4**	**1.58**	**87.8**	**1.92**	**0.173**	0.0	**0.2**	**0.129**	0.287 U	0.296 U	0.422 U
		01/21/20	**197**	**19.1**	**3.43**	**88.8**	**3.70**	0.0624 U	0.0	0.0	**0.147**	**128**	0.296 U	**5.03**
		04/30/20	**234**	**22.3**	**3.09**	**74.6**	**1.38**	**1.53**	0.0	**1.5**	**0.360**	0.287 U	0.296 U	0.422 U
		07/10/20	**297**	**23.3**	**1.39**	**69.5**	**1.18**	**0.0897 J**	0.0	**0.1**	**0.0817**	0.287 U	0.296 U	0.422 U
		11/09/20	**152**	–	–	**75.8**	**1.24**	**0.440**	–	–	**0.0494**	0.287 U	0.296 U	0.422 U
		02/08/21	–	–	–	**56.3**	**1.83**	**0.407**	–	–	**0.0296**	**9.16**	0.296 U	0.422 U
		05/10/21	–	–	–	**49.6**	**1.56**	**0.368**	–	–	**0.0255**	0.287 U	0.296 U	0.422 U

Table 15

Groundwater Natural Attenuation Parameters
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Location Description	Sample Date	Alkalinity (mg $CaCO_3$/L)	Chloride (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	TOC (mg/L)	Iron (mg/L)			Total Manganese (mg/L)	Dissolved Gases (µg/L)		
								Total	Ferrous	Ferric		Methane	Ethane	Ethene
MW-155	Roy St ROW, S side	10/16/19	**267**	**16.1**	**4.12**	**94.3**	**3.66**	**0.119**	0.0	**0.1**	**0.0716**	**36.1**	**17.5**	0.422 U
		01/20/20	**244**	**13.9**	**4.73**	**77.2**	**3.43**	**0.443**	0.0	**0.4**	**0.0392**	**12.0**	0.296 U	0.422 U
		05/05/20	**258**	**12.3**	**5.07**	**73.3**	**2.75**	**0.700**	–	–	**0.0375**	0.287 U	0.296 U	0.422 U
		08/03/20	**251**	**14.8**	**5.06**	**86.5**	**2.43**	**2.99**	**0.5**	**2.5**	**0.821**	**12.3**	0.296 U	0.422 U
		11/11/20	–	–	–	**84.4**	**1.78**	**0.441**	–	–	**0.0673**	**106**	0.296 U	0.422 U
MW-159	8th Ave N ROW, E side	01/29/20	**393**	**11.0**	0.0227 U	**32.9**	**4.17**	**3.64**	**2.5**	**1.1**	**3.47**	**6,410**	**44.9**	0.422 U
		11/11/20	–	–	–	**12.6**	**2.90**	**7.94**	–	–	**3.27**	**2,900**	**27.2**	0.422 U
		02/08/21	–	–	–	**4.88 J**	**4.09**	**6.77**	–	–	**2.97**	**20,100**	**70.9**	0.422 U
		05/11/21	–	–	–	**2.90 J**	**5.22**	**17.9**	–	–	**3.60**	**10,500**	**54.5**	0.422 U
MW-301	Valley St ROW, S side	11/30/20	**150**	**28.8**	**4.01**	**25.5**	**2.81**	**0.413**	–	–	**0.0150**	**10.4**	0.296 U	0.422 U
(dup)		11/30/20	**152**	**28.7**	**4.00**	**25.5**	**2.72**	**0.149**	–	–	**0.00685**	0.287 U	0.296 U	0.422 U
		02/04/21	**149**	**23.0**	**2.73 J**	**25.2**	**2.54**	**0.796**	–	–	**0.0359**	0.287 U	0.296 U	0.422 U
		05/14/21	**152**	**32.7**	**2.25**	**21.8**	**2.60**	**4.54**	–	–	**0.135**	0.287 U	0.296 U	0.422 U
(dup)		05/14/21	**149**	**32.9**	**2.25**	**21.8**	**2.54**	**5.07**	–	–	**0.143**	0.287 U	0.296 U	0.422 U
MW-305	Roy St ROW, S side	10/15/19	**114**	**18.0**	**1.63**	**28.0**	**3.34**	**2.58**	0.0	**2.6**	**0.197**	0.287 U	0.296 U	0.422 U
		01/15/20	**107**	**11.7**	**1.02**	**28.6**	**10.8**	**6.46**	0.0	**6.5**	**0.0980**	0.287 U	0.296 U	0.422 U
		04/28/20	**105**	**48.1**	**2.10**	**23.0**	**0.921 J**	**16.0**	0.0	**16**	**0.221**	0.287 U	0.296 U	0.422 U
		07/27/20	**106**	**14.9**	**1.10**	**21.2**	0.793 U	**1.18**	0.0	**1.2**	**0.0623**	0.287 U	0.296 U	0.422 U
MW-310	Alley E of Seattle Roy Aloha Shops	10/10/19	**786**	**10.7**	0.0227 U	**88.0**	**8.93**	**11.2**	**4.0**	**7.2**	**3.01**	**558**	0.296 U	0.422 U
		01/14/20	**763**	**10.6**	0.0227 U	**67.8**	**8.07**	**15.4**	**3.0**	**12**	**3.34**	**586**	0.296 U	0.422 U
		04/08/20	**814**	**10.2**	0.0480 U	**54.8**	**8.58**	**19.5**	**3.4**	**16**	**3.66**	**714**	**0.770 J**	0.422 U
		08/04/20	**791**	**9.82**	0.0480 U	**43.5**	**8.73**	**23.3**	**3.6**	**20**	**5.90**	**757**	0.296 U	0.422 U
(dup)		08/04/20	**787**	**9.95**	0.0480 U	**43.9**	**8.77**	**23.4**	**3.6**	**20**	**6.12**	**754**	0.296 U	0.422 U
MW-312	Alley E of Seattle Roy Aloha Shops	10/11/19	**1,220**	**10.9**	0.0227 U	**5.71**	**14.7**	**5.18**	**2.8**	**2.4**	**0.845**	**768**	0.296 U	0.422 U
		01/21/20	**941**	**6.78**	0.0227 U	0.0774 U	**10.8**	**5.93**	**1.5**	**4.4**	**0.860**	**832**	0.296 U	0.422 U
		04/22/20	**1,010**	**7.27**	0.0480 U	**4.23 J**	**10.9**	**7.43**	**3.4**	**4.0**	**1.46**	**618**	0.296 U	0.422 U
		08/04/20	**1,030**	**7.30**	0.0480 U	**11.9**	**11.7**	**8.77**	–	–	**2.12**	**556**	0.296 U	0.422 U
MW-313	Alley E of Seattle Roy Aloha Shops	10/10/19	**378**	**11.6**	**0.199**	**66.3**	**4.39**	**2.15**	**0.5**	**1.7**	**1.59**	**76.2**	0.296 U	0.422 U
		01/14/20	**292**	**20.5**	0.0227 U	**13.3**	**3.17**	**4.00**	**3.0**	**1.0**	**2.37**	**750**	0.296 U	0.422 U
MW-320	9th Ave N ROW, W side	10/07/19	**1,780**	**12.7**	0.0227 U	**5.08**	**8.51**	**1.60**	0.0	**1.6**	**2.37**	**264**	0.296 U	0.422 U
		01/20/20	**294**	**40.6**	0.0227 U	**30.3**	**7.14**	**7.27**	**4.8**	**2.5**	**3.00**	**1,610**	0.296 U	0.422 U
		04/29/20	**282**	**56.5**	0.0480 U	**67.0**	**4.70**	**5.33**	**5.0**	**0.3**	**3.66**	**158**	0.296 U	0.422 U
		07/28/20	**242**	**44.3**	0.0480 U	**112**	**3.75**	**3.70**	**3.5**	**0.2**	**3.22**	**52.0**	0.296 U	0.422 U
MW-332	Roy St ROW, N side	05/04/20	**252**	**66.4**	0.0480 U	**105**	**2.17**	**3.29**	**2.5**	**0.8**	**2.88**	**757**	0.296 U	0.422 U
		07/30/20	**255**	**38.8**	**0.175**	**140**	**2.88**	**3.27**	**0.5**	**2.8**	**2.18**	**843**	0.296 U	0.422 U
MW-337	Lake Union Park, N end	05/07/20	**229**	**11.0**	0.0480 U	**2.94 J**	**2.69**	**3.12**	**2.0**	**1.1**	**1.21**	**1,950**	0.296 U	0.422 U
		07/23/20	**220**	**9.40**	0.0480 U	0.594 U	**2.76**	**3.91**	**3.2**	**0.7**	**1.04**	**3,230**	0.296 U	0.422 U
MW-339	Lake Union Park, S end	05/14/20	**298**	**14.8**	0.048 U	**36.8**	**3.01**	**2.81**	**2.0**	**0.8**	**0.866**	**1,380 J**	0.296 U	0.422 U
(dup)		05/14/20	**299**	**14.8**	0.048 U	**37.8**	**3.70**	**2.61**	**2.0**	**0.6**	**0.829**	**979 J**	0.296 U	0.422 U
		07/23/20	**263**	**8.77**	0.0480 U	**13.7**	**3.06**	**1.85**	**1.5**	**0.4**	**0.681**	**1,080**	0.296 U	0.422 U

Table 15

Groundwater Natural Attenuation Parameters
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Location Description	Sample Date	Alkalinity (mg $CaCO_3$/L)	Chloride (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	TOC (mg/L)	Iron (mg/L)			Total Manganese (mg/L)	Dissolved Gases (µg/L)		
								Total	Ferrous	Ferric		Methane	Ethane	Ethene
MW-9	8th Ave N ROW, E side	12/16/13	**56**	**3.76**	**0.059**	**6.08**	–	**3.32**	**3.4**	**0.0**	**0.778**	**6.24**	5 U	5 U
		10/17/19	**612**	**20.0**	0.0227 U	0.0774 U	**4.42**	**21.6**	**2.0**	**20**	**3.76**	**1,770**	**8.51**	0.422 U
		11/24/20	–	–	–	**0.879 J**	**4.94**	**20.8**	–	–	**2.35**	**786**	**3.94**	0.422 U
		02/04/21	–	–	–	**1.79 J**	**3.67**	**23.6**	–	–	**1.51**	**644**	4.07 U	4.26 U
		05/12/21	–	–	–	0.594 U	**4.32**	**21.6**	–	–	**2.03**	**900**	**3.68**	0.422 U
(dup)		05/12/21	–	–	–	0.594 U	**4.53**	**22.3**	–	–	**2.03**	**915**	**3.64**	0.422 U
N7	Property, SW quadrant	03/30/17	**118**	**4.73**	**6.87**	**25.2**	**1.35**	**0.120**	0.0	**0.1**	**1.50**	**11,000**	0.296 U	0.422 U
		06/27/17	**235**	**8.76**	**6.29**	**48.4**	**2.71**	**1.45**	**0.3**	**1.2**	**3.31**	**8,430**	0.296 U	0.422 U
R-MW5	Dexter Ave N ROW, E side	03/23/17	**183**	**32.2**	**0.0549 J**	**33.0**	**3.94**	**2.94**	**1.0**	**1.9**	**4.24**	**118**	0.296 U	0.422 U
		06/16/17	**152**	**58.3**	**0.253**	**21.8**	**2.59**	**2.74**	–	–	**1.29**	**275**	0.296 U	0.422 U
		10/21/19	**112**	**41.4**	0.0227 U	**18.6**	**4.44**	**3.00**	**1.0**	**2.0**	**1.20**	**194**	0.296 U	0.422 U
		01/24/20	**107**	**29.4**	0.0227 U	**18.5**	**2.74**	**10.2**	**2.5**	**7.7**	**0.999**	**197**	0.296 U	0.422 U
		11/18/20	–	–	–	**8.27**	**2.37**	**6.64**	–	–	**1.26**	**182**	0.296 U	0.422 U
		02/11/21	–	–	–	**9.48**	**4.92 J**	**2.35**	–	–	**0.371**	**138**	0.296 U	0.422 U
(dup)		02/11/21	–	–	–	**9.16**	**1.72 J**	**2.07**	–	–	**0.363**	**128**	0.296 U	0.422 U
		05/17/21	–	–	–	**7.99**	**1.45**	**2.79**	–	–	**0.346**	**595**	0.296 U	0.422 U
R-MW6	8th Ave N ROW, W side	03/21/17	**586**	**5.72**	**0.191**	**119**	**6.28**	**5.02**	–	–	**6.24**	**9,410**	0.296 U	0.422 U
		06/20/17	**718**	**11.1**	0.0227 U	**85.7**	**13.6**	**27.0**	**1.5**	**26**	**8.28**	**6,980**	**10.7**	**11.2**
		12/01/20	–	–	–	**160**	**17.3**	**6.87**	–	–	**2.40**	**502**	**4.85**	0.422 U
		02/03/21	–	–	–	**207**	**2.21**	**1.08**	–	–	**0.386**	**881**	0.296 U	0.422 U
		05/17/21	–	–	–	**333**	**8.97**	**17.0**	–	–	**9.43**	**12,800**	**6.74**	0.422 U
Intermediate A Zone														
BB-8	Roy St ROW, S side	12/29/13	**270**	**12.6**	**3.68**	**84.6**	–	**0.085**	**0.0**	**0.1**	**0.252**	5 U	5 U	5 U
		03/22/17	**254**	**7.87**	**3.17**	**41.5**	**2.25**	**0.125**	0.0	**0.1**	**0.0705**	**0.412** J	0.296 U	0.422 U
		06/14/17	**290**	**10.2**	**2.74**	**56.9**	**3.34**	**0.0348 J**	0.0	**0.0**	**0.0475**	0.287 U	0.296 U	0.422 U
		04/11/18	**258**	**7.43**	**3.41**	**3.98**	**3.24**	**0.145**	0.0	**0.1**	**0.0940**	0.287 U	0.296 U	0.422 U
(dup)		04/11/18	**262**	**7.42**	**3.17**	**3.98**	**3.14**	**0.0962**	0.0	**0.1**	**0.0544**	0.287 U	0.296 U	0.422 U
		01/23/19	**280**	**12.4**	**0.891**	**93.3**	**3.43**	**0.0954 J**	–	–	**0.0820 J**	**111**	**0.735 J**	0.422 U
		04/23/19	**227**	**28.1**	**2.77**	**44.4**	**2.71**	**0.315**	0.0	**0.3**	**0.0637**	0.287 U	0.296 U	0.422 U
		07/17/19	**240**	**10.4**	**1.94**	**59.0**	**4.36**	**0.691**	0.0	**0.7**	**0.0979**	**62.2**	0.296 U	0.422 U
		10/22/19	**245**	**10.3**	**1.98**	**67.3**	**5.09**	**0.678**	0.0	**0.7**	**0.376**	**74.8**	0.296 U	0.422 U
(dup)		10/22/19	**246**	**10.5**	**2.17**	**70.0**	**4.27**	**0.339**	0.0	**0.3**	**0.313**	0.287 U	0.296 U	0.422 U
		01/20/20	**220**	**12.8**	**3.36**	**76.4**	**4.70**	**0.0893 J**	0.0	**0.1**	**0.0156**	**46.7**	0.296 U	0.422 U
(dup)		01/20/20	**220**	**12.9**	**3.30**	**76.6**	**5.07**	**0.0585 J**	0.0	**0.1**	**0.0134**	0.287 U	0.296 U	0.422 U
		05/12/20	**210**	**17.9**	**2.98**	**87.3**	**3.09**	**0.533**	0.0	**0.5**	**0.0865**	0.287 U	0.296 U	0.422 U
		07/27/20	**217**	**17.9**	**2.96**	**91.7**	**3.38**	**0.685**	**0.5**	**0.2**	**0.297**	**10.8 J**	0.296 U	0.422 U
(dup)		07/27/20	**217**	**17.7**	**2.92**	**91.5**	**3.38**	**0.780**	**0.5**	**0.3**	**0.323**	**17.6 J**	0.296 U	0.422 U
		11/17/20	–	–	–	**123**	**2.47**	**4.91**	–	–	**0.971**	**55.5**	0.296 U	0.422 U
		02/11/21	–	–	–	**40.9**	**1.80**	**0.769**	–	–	**0.171**	0.287 U	0.296 U	0.422 U
		06/07/21	–	–	–	**41.2**	**1.99**	**1.21**	–	–	**0.164**	0.287 U	0.296 U	0.422 U
FMW-142	9th Ave N ROW, E side	10/31/19	**276**	**25.5**	0.0227 U	**18.2**	**6.5**	**3.36**	**0.5**	**2.9**	**0.307**	**8,040**	**5.07**	0.422 U
		01/22/20	**358**	**24.5**	0.0251 U	**3.63 J**	**6.01**	**5.86**	**2.2**	**3.7**	**0.299**	**6,980**	**3.67**	0.422 U
		04/28/20	**363**	**23.9**	0.0480 U	**7.04**	**5.73**	**5.55**	**5.0**	**0.6**	**0.273**	**9,280**	0.296 U	0.422 U
		07/08/20	**373**	**25.4**	**0.0789 J**	**5.36**	**5.80**	**5.63**	**4.4**	**1.2**	**0.305**	**8,540**	0.296 U	0.422 U

Table 15

Groundwater Natural Attenuation Parameters
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Location Description	Sample Date	Alkalinity (mg $CaCO_3$/L)	Chloride (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	TOC (mg/L)	Iron (mg/L)			Total Manganese (mg/L)	Dissolved Gases (µg/L)		
								Total	Ferrous	Ferric		Methane	Ethane	Ethene
GEI-1	Block 37, SW quadrant	03/24/17	**564**	**8.9**	0.0227 U	0.0774 U	**11.7**	**23.8**	**1.0**	**23**	**3.10**	**20,500**	0.296 U	0.422 U
		06/13/17	**304**	**15**	**0.0792 J**	**25.3**	**6.73**	**9.05**	–	–	**1.50**	**10,600**	0.296 U	0.422 U
		07/16/19	**529**	**13.4**	0.0227 U	0.0774 U	**8.29**	**17.1**	**3.0**	**14**	**2.48**	**16,100**	0.296 U	0.422 U
		10/21/19	**589**	**14.7**	0.0227 U	**2.76 J**	**7.55**	**16.5**	**2.1**	**14**	**2.82**	**21,400**	0.296 U	0.422 U
		01/22/20	**405**	**11.4**	0.0236 U	**9.33**	**6.77**	**11.3**	**3.0**	**8.3**	**1.88**	**13,900**	**2.14**	0.422 U
		04/29/20	**296**	**15.9**	**0.118**	**36**	**5.3**	**7.96**	**2.0**	**6.0**	**1.59**	**9,170**	0.296 U	0.422 U
(dup)		04/29/20	**287**	**15.8**	**0.181**	**36.2**	**4.97**	**6.57**	**2.0**	**4.6**	**1.31**	**7,980**	0.296 U	0.422 U
		07/30/20	**337**	**42.3**	0.0480 U	**53.3**	**6.88**	**9.86**	**2.4**	**7.5**	**1.96**	**8,220**	0.296 U	0.422 U
GEI-MW-1	Block 79 East, N end	01/23/20	**343**	**23.1**	0.0227 U	**11.7**	**4.87**	**4.96**	**3.2**	**1.8**	**2.23**	**773**	**3.11**	0.422 U
		04/29/20	**404**	**19.7**	0.0480 U	**29.8**	**5.00**	**5.09**	**4.0**	**1.1**	**2.75**	**757**	0.296 U	0.422 U
		08/07/20	**380**	**21.8**	0.0480 U	**17.1**	**4.83**	**4.71**	**3.5**	**1.2**	**2.64**	**2,350**	0.296 U	0.422 U
HMW-9IA	SDOT Mercer Parcels	06/02/21	**270**	**20.4**	0.0480 U	**38.5**	**1.25**	**1.95**	–	–	**0.772**	**316**	4.07 U	**17.7**
HMW-20IA	SDOT Mercer Parcels	06/02/21	**363**	**41.4**	**0.115**	**21.7**	**2.44**	**0.867**	–	–	**0.905**	**3,540**	4.07 U	**269**
MW107	8th Ave N ROW, W side	12/16/13	**340**	**70.8**	0.025 U	**165**	–	**1.35**	**0.4**	**0.9**	**0.358**	**8.69**	5 U	5 U
		03/27/17	**559**	**122**	**0.0262**	0.0774 U	**147**	**17.6**	**2.0**	**16**	**1.12**	**8.38**	0.296 U	**159**
		06/19/17	**651**	**90**	0.0227 U	0.0774 U	**91.0**	**10.5**	**1.5**	**9.0**	**0.955**	**7350**	0.296 U	**205**
		04/09/18	**692**	**675**	0.0227 U	**3.54 J**	**26.3**	**4.84**	**4.0**	**0.8**	**1.21**	**6,700**	**44.2**	**38.1**
		01/30/19	**564**	**49.2**	0.0227 U	**37.1**	**14.5**	**2.35**	–	–	**0.947**	**14,500**	**89.2**	**70.3**
		05/01/19	**538**	**41.6**	0.0227 U	**51.8**	**14.2**	**2.67**	**2.0**	**0.7**	**1.08**	**18,000**	**122**	**93.2**
		07/22/19	**527**	**40.3**	0.0227 U	**30.3**	**18.9**	**3.08**	**3.0**	**0.1**	**1.04**	**16,400**	**133**	**81.5**
		10/15/19	**667**	**26.1**	0.0227 U	**68.7**	**11.3**	**4.60**	**3.4**	**1.2**	**1.17**	**12,900**	**34.1**	**29.6**
		01/28/20	**588**	**28.8**	0.0227 U	**102**	**10.3**	**9.66**	**4.5**	**5.2**	**0.998**	**1,220**	**68.4**	**117**
		04/03/20	**706**	**20.1**	0.0227 U	**114**	**10.8**	**7.49**	**3.0**	**4.5**	**0.879**	**9,040**	**50.5**	**31.9**
		07/31/20	**297**	**24.7**	0.0480 U	**67.9**	**5.12**	**3.45 J+**	**1.2**	**2.3**	**0.324**	**14,200**	**53.3**	**156**
		12/01/20	–	–	–	0.594 U	**56.2**	**7.05**	–	–	**0.976**	**19,400**	**106**	**12.7**
		02/02/21	–	–	–	**0.916 J**	**8.71**	**5.01**	–	–	**0.666**	**2,480**	0.296 U	0.422 U
		06/02/21	–	–	–	0.594 U	**10.7**	**9.62**	–	–	**1.57**	**12,500**	**62.9**	0.422 U
MW108	Alley E of Seattle Roy Aloha Shops	12/17/13	**600**	**25.8**	**0.075**	**12.5**	–	**17.5**	**21.7**	0.0	**1.96**	**2,110**	**22.8**	5 U
		03/28/17	**577**	**22.1**	0.0227 U	**106**	**7.32**	**19.7**	**2.5**	**17**	**2.27**	**1,740**	**36.4**	**2.20**
		06/27/17	**679**	**20.6**	0.0227 U	**101**	**8.62**	**21.8**	**2.0**	**20**	**2.20**	**3,940**	**47.8**	0.42 U
		10/10/19	**570**	**26.1**	0.0227 U	**43.7**	**5.83**	**13.5**	**3.3**	**10**	**1.76**	**3,650**	**70.7**	**6.24**
		01/14/20	**586**	**20.8**	0.0227 U	**33.1**	**5.41**	**15.9**	**4.5**	**11**	**1.86**	**4,460**	**74.1**	**21.6**
		04/22/20	**744**	**16.0**	0.048 U	**2.06 J**	**10.8**	**16.7**	**6.6**	**10**	**1.94**	**10,500**	**27.3**	0.422 U
		07/16/20	**649**	**20.8**	0.0480 U	**50.2**	**8.02**	**15.2**	**7.0**	**8.2**	**1.97**	**8,660**	**50.1**	0.422 U
(dup)		07/16/20	**651**	**24.2**	0.0480 U	**51.5**	**8.11**	**15.6**	**7.0**	**8.6**	**2.05**	**9,770**	**53.7**	0.422 U
		11/04/20	–	–	–	**16.6**	**5.71**	**18.3**	–	–	**2.62**	**8,660**	**119**	**50.1**
		02/09/21	–	–	–	**25.8**	**5.75**	**15.0**	–	–	**2.09**	**3,510**	**64.7**	**21.3**
		05/03/21	–	–	–	**39.6**	**6.08**	**13.9**	–	–	**1.75**	**3,640**	**77.7**	**17.8**
MW109	Alley E of Seattle Roy Aloha Shops	12/17/13	**670**	**16.1**	0.0250 U	**34.6**	–	**12.6**	**16.2**	0.0	**4.04**	**1,400**	**5.89**	5 U
		03/29/17	**498**	**6.90**	**0.0255 J**	**31.4**	**10.8**	**12.0**	**1.5**	**11**	**3.01**	**2,000**	**7.21**	0.422 U
		06/17/17	**693**	**13.3**	0.0227 U	**42.5**	**12.2**	**14.6**	**1.5**	**13**	**3.90**	**2,540**	**8.65**	0.422 U
		10/15/19	**628**	**13.7**	0.0227 U	**9.12**	**10.4**	**14.4**	**2.5**	**12**	**4.10**	**4,950**	**25.6**	**6.99**
		01/21/20	**143**	**3.77**	**0.127**	1.51 U	**2.73**	**0.544**	0.0	**0.5**	**0.767**	**886**	0.296 U	0.422 U
		04/22/20	**616**	**5.03**	0.0480 U	**3.41 J**	**10.3**	**12.2**	**3.0**	**9.2**	**3.75**	**3,800**	**21.2**	0.422 U
		07/06/20	**588**	**5.92**	**0.0613 J**	**3.74 J**	**8.41**	**12.6**	**6.0**	**6.6**	**3.81**	**3,790**	**22.1**	0.422 U
		11/02/20	–	–	–	**8.89**	**8.69**	**14.6**	–	–	**3.94**	**2,620**	**31.5**	4.26 U

Groundwater Natural Attenuation Parameters
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Location Description	Sample Date	Alkalinity (mg $CaCO_3$/L)	Chloride (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	TOC (mg/L)	Iron (mg/L)			Total Manganese (mg/L)	Dissolved Gases (µg/L)		
								Total	Ferrous	Ferric		Methane	Ethane	Ethene
MW109 (continued)		02/09/21	–	–	–	0.696 J	6.65	9.95	–	–	3.14	4,220	16.4	0.422 U
		05/03/21	–	–	–	1.70 J	5.44	9.48	–	–	2.90	3,100	13.8	0.422 U
MW110	Alley E of Seattle Roy Aloha Shops	12/19/13	390	20.4	0.603	158	–	0.079	0.04	0.04	3.28	7.66	5 U	5 U
		03/23/17	425	36.2	0.652	108	7.98	0.948 J	0.1	0.8	3.90	125	1.21 J	0.422 U
		06/27/17	516	27.0	0.0227 U	160	4.91	0.115	0.0	0.1	2.13	95.5	17.4	0.422 U
		10/15/19	465	19.3	0.0227 U	73.2	7.05	1.29	–	–	3.43	5,020	0.296 U	0.422 U
		01/16/20	373	14.0	0.0227 U	36.2	3.01	0.32	0.0	0.3	2.89	2,590	2.58	0.422 U
		04/22/20	472	19.8	0.0480 U	88.9	5.81	2.55	0.0	2.6	3.29	2,660	0.296 U	0.422 U
		07/16/20	490	20.0	0.0480 U	98.7	4.64	2.68	0.0	2.7	3.16	3,000	7.68	0.422 U
		11/04/20	–	–	–	106	3.59	1.53	–	–	1.93	2,040	0.296 U	0.422 U
		02/09/21	–	–	–	79.6	3.08	1.17	–	–	2.79	1,660	0.296 U	0.422 U
		05/04/21	–	–	–	76.4	3.03	5.54	–	–	2.81	2,630	5.45	0.422 U
MW114	SDOT Mercer Parcels	12/18/13	190	31.2	0.032	98.8	–	0.075	0.03	0.05	0.629	5 U	5 U	5 U
MW115	9th Ave N ROW, W side	12/19/13	580	22.1	0.0250 U	3.35	–	6.24	6.69	0.0	1.44	2,550	5 U	5 U
		03/22/17	417	28.5	0.0227 U	35.9	7.69	5.69	1.5	4.2	1.32	215	0.296 U	0.422 U
		06/22/17	401	33.0	0.0227 U	46.1	7.39	6.19	1.5	4.7	1.19	3,570	4.98	0.422 U
		10/22/19	330	19.3	0.0227 U	23.6	5.51	4.53	2.0	2.5	0.930	1,500	4.04	4.17
		01/20/20	346	19.8	0.0227 U	15.6	5.72	4.66	2.0	2.7	0.957	1,080	2.74	0.422 U
		05/05/20	355	28.3	0.0480 U	209	6.84	11.5	2.0	9.5	1.46	1,760	0.296 U	0.422 U
		07/28/20	407	25.0	0.0480 U	141	8.58	12.1	4.5	7.6	1.53	665	0.296 U	0.422 U
		11/12/20	–	–	–	170	7.33	7.99	–	–	1.56	641	3.90	0.422 U
		02/12/21	–	–	–	68.2	6.73	13.5	–	–	1.23	1,570	0.296 U	0.422 U
		05/25/21	–	–	–	82.9	6.34	7.21	–	–	1.08	1,580	0.296 U	0.422 U
MW116	9th Ave N ROW, W side	12/19/13	310	26.2	0.0250 U	14.5	–	2.48	2.65	0.0	1.14	1,750	5 U	5 U
		03/21/17	432	22.0	0.0227 U	25.7	7.34	6.01	3.9	2.1	0.869	8,590	0.296 U	0.422 U
		06/16/17	377	25.1	0.0227 U	9.31	6.80	6.69	1.8	4.9	0.793	8,610	0.296 U	0.422 U
		10/22/19	361	23.6	0.0227 U	0.0774 U	5.95	3.72	1.3	2.4	0.723	7,650	0.296 U	0.422 U
		01/21/20	350	24.6	0.0227 U	0.0774 U	6.34	3.9	1.0	2.9	0.744	5,540	0.296 U	0.422 U
		04/29/20	358	23.4	0.0480 U	0.594 U	6.53	6.83	3.8	3.0	0.811	6,140	0.296 U	0.422 U
		07/28/20	314	25.4	0.0480 U	0.594 U	5.95	17.7	2.5	15	0.911	8,900	0.296 U	0.422 U
		11/12/20	–	–	–	1.94 J	5.90	5.95	–	–	0.790	10,100	0.296 U	0.422 U
		02/11/21	–	–	–	9.16	5.64	5.72	–	–	0.767	8,410	0.296 U	0.422 U
		05/25/21	–	–	–	8.91	5.14	4.16	–	–	0.775	6,550	0.296 U	0.422 U
MW117	Dexter Ave N ROW	12/18/13	200	9.11	0.0250 U	56.3	–	1.49	2.03	0.0	0.344	5 U	5 U	5 U
MW119	9th Ave N ROW, W side	12/19/13	310	12.1	0.0250 U	3.34	–	19.4	18.6	0.8	2.55	3,450	5 U	5 U
		03/29/17	255	20.5	0.164	14.9	6.84	17.1	2.0	15	2.98	819	0.296 U	0.422 U
		06/28/17	360	13.7	0.0227 UJ	56.1	9.09	5.66	1.5	4.2	1.25	73.5	0.296 U	0.422 U
		10/10/19	226	18.6	0.0227 U	26.4	4.98	10.7	3.0	7.7	2.63	289	0.296 U	0.422 U
		01/14/20	237	19.0	0.0227 U	26.8	4.58	9.20	–	–	2.28	396	0.296 U	0.422 U
		04/27/20	281	14.9	0.0480 U	5.67	7.19	12.3	3.5	8.8	3.2	480	0.296 U	0.422 U
		07/08/20	213	19.9	0.0480 U	32.5	5.94	11.2	5.5	5.7	2.54	4,480	0.296 U	0.422 U
		11/11/20	–	–	–	26.7	6.43	11.1	–	–	2.51	6,170	0.296 U	0.422 U
		02/10/21	–	–	–	2.46 J	7.56	14.4	–	–	3.27	3,960	0.296 U	0.422 U
		05/20/21	–	–	–	3.83 J	5.67	13.9	–	–	3.14	7,960	0.296 U	0.422 U

Table 15

Groundwater Natural Attenuation Parameters
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Location Description	Sample Date	Alkalinity (mg $CaCO_3$/L)	Chloride (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	TOC (mg/L)	Iron (mg/L)			Total Manganese (mg/L)	Dissolved Gases (µg/L)		
								Total	Ferrous	Ferric		Methane	Ethane	Ethene
MW120	8th Ave N ROW, E side	12/19/13	**290**	**36.5**	**0.0690**	**99.4**	–	**0.288**	**0.2**	**0.1**	**0.319**	**10.1**	5 U	5 U
		04/09/18	**151**	**30.2**	**0.237**	**66.9**	**1.08**	**1.40**	0.0	**1.4**	**0.194**	0.287 U	0.296 U	0.422 U
		01/24/19	**206**	**22.4**	**1.98**	**73.6**	**1.78**	**3.68**	0.0	**3.7**	**0.387**	**235**	**2.71**	0.422 U
		05/03/19	**217**	**20.5**	**2.01**	**66.2**	**1.66**	**2.31 J**	–	–	**0.384**	**157 J**	0.296 U	0.422 U
(dup)		05/03/19	**217**	**20.3**	**1.96**	**65.9**	**1.58**	**1.12 J**	–	–	**346**	**115 J**	0.296 U	0.422 U
		07/16/19	**211**	**19.9**	**1.76**	**67.1**	**1.7**	**2.85**	0.0	**2.9**	**0.391**	**72.4**	0.296 U	0.422 U
		10/17/19	**264**	**22.0**	**0.472**	**119**	**3.64**	**0.937**	0.0	**0.9**	**0.637**	**86.4 J**	0.296 U	0.422 U
(dup)		10/17/19	**264**	**22.0**	**0.473**	**120**	**3.68**	**0.930**	0.0	**0.9**	**0.637**	**43.9 J**	0.296 U	0.422 U
		01/17/20	**296**	**20.9**	0.0227 U	**125**	**3.05**	**1.59**	**0.5**	**1.1**	**0.707**	**104**	**2.53**	0.422 U
		04/23/20	**287**	**21.3**	0.0480 U	**110**	**3.18**	**2.24**	**1.2**	**1.0**	**0.621**	**34.8**	0.296 U	0.422 U
		07/14/20	**291**	**20.5**	0.0480 U	**106**	**2.30**	**4.40**	0.0	**4.4**	**0.731**	**277**	0.296 U	0.422 U
		11/30/20	–	–	–	**121**	**1.70**	**5.45**	–	–	**0.611**	**87.5**	0.296 U	0.422 U
(dup)		11/30/20	–	–	–	**122**	**1.93**	**5.09**	–	–	**0.628**	**124**	**3.29**	0.422 U
		02/04/21	–	–	–	**127**	**2.00**	**5.57**	–	–	**0.537**	**107**	4.07 U	4.26 U
		05/12/21	–	–	–	**128**	**1.79**	**6.73**	–	–	**0.492**	**90.8**	0.296 U	0.422 U
MW127	8th Ave N ROW, E side	10/17/19	**133**	**27.2**	**0.323**	**71.6**	**1.9**	**0.920**	0.0	**0.9**	**0.161**	0.287 U	0.296 U	0.422 U
		01/17/20	**133**	**24.7**	**0.728**	**74.5**	**2.03**	**4.06**	0.0	**4.1**	**0.184**	**69.0**	0.296 U	0.422 U
		04/23/20	**142**	**24.8**	**1.27**	**67.1**	**1.04**	**7.26**	0.0	**7.3**	**0.203**	0.287 U	0.296 U	0.422 U
		07/14/20	**138**	**23.7**	**1.47**	**62.6**	**0.972 J**	**7.52**	0.0	**7.5**	**0.217**	0.287 U	0.296 U	0.422 U
(dup)		07/14/20	**134**	**23.8**	**1.48**	**62.8**	**0.964 J**	**8.04**	0.0	**8.0**	**0.221**	0.287 U	0.296 U	0.422 U
MW131	Property, SE quadrant	03/27/17	**911**	**141**	0.0227 U	0.0774 U	**8.93**	**7.98**	**1.9**	**6.1**	**1.06**	**16,200**	0.296 U	**280**
		06/20/17	**1,050**	**122**	0.0227 U	**0.724 J**	**10.8**	**7.42**	–	–	**1.01**	**10,700**	0.296 U	**332**
		04/16/18	**712**	**114**	0.0227 U	0.0774 U	**44.2**	**7.97**	**1.8**	**6.2**	**1.19**	**29,900**	**329**	**467**
		Decommissioned March 2019												
MW-142	8th Ave N ROW, E side	04/27/18	**794**	**15.6**	0.0227 U	**0.426 J**	**33.7**	**3.16**	**1.5**	**1.7**	**2.58**	**7,980**	**44.6**	0.422 U
		01/28/19	**784**	**10.1**	0.0227 U	0.0774 U	**27.7**	**2.87**	**2.0**	**0.9**	**2.37**	**3,530**	**17.7**	0.422 U
(dup)		01/28/19	**779**	**10.2**	0.0227 U	0.0774 U	**28.3**	**2.66**	**2.0**	**0.7**	**2.46**	**3,490**	**18.5**	0.422 U
		04/24/19	**798**	**9.76**	0.0227 U	**27.3**	**31.7**	**3.50**	**1.2**	**2.3**	**1.99**	**3,560**	**19.2**	0.422 U
		07/25/19	**792**	**10.6**	0.0227 U	**48.8**	**27.9**	**5.89**	**2.1**	**3.8**	**3.63**	**3,070**	**27.8**	0.422 U
		10/16/19	**812**	**14.9**	0.0227 U	**15.9**	**4.76**	**5.40**	**2.0**	**3.4**	**3.44**	**766**	**47.8**	0.422 U
		01/22/20	**831**	**18.6**	0.0230 U	**19.0**	**18.5**	**5.30**	**2.5**	**2.8**	**3.42**	**493**	**31.3**	0.422 U
		04/24/20	**850**	**17.5**	**0.0695 J**	**22.6**	**16.1**	**5.80**	**3.0**	**2.8**	**3.52**	**471**	**27.1**	0.422 U
		07/30/20	**843**	**20.0**	0.0480 U	**28.4**	**18.5**	**4.83**	**3.5**	**1.3**	**3.04**	**278**	**29.8**	0.422 U
		11/24/20	–	–	–	**45.8**	**18.6**	**7.10**	**–**	**–**	**3.50**	**871**	**35.5**	0.422 UJ
(dup)		11/24/20	–	–	–	**45.9**	**18.5**	**6.62**	**–**	**–**	**3.46**	**1,000**	**40.3**	**5.13**
		02/08/21	–	–	–	**16.7**	**45.7**	**3.90**	**–**	**–**	**3.63**	**2,500**	**31.3**	0.422 U
		05/19/21	–	–	–	**11.1**	**20.0**	**7.45**	–	–	**3.90**	**9,010**	**27.5**	**4.60**
MW-144	8th Ave N ROW, E side	04/27/18	**740**	**182**	0.0227 U	**9.39**	**159**	**1.07**	**0.5**	**0.6**	**1.98**	**17,700**	**55.4**	**5,480**
		01/28/19	**735**	**149**	0.0227 U	0.0774 U	**15.1**	**1.98**	–	–	**1.66**	**13,700**	**495**	**1,140**
		04/23/19	**733**	**144**	0.0227 U	0.0774 U	**11.4**	**1.22**	**1.2**	0.0	**1.48**	**13,000**	**771**	**699**
		Damaged June 2019 and Decommissioned December 2019												
MW-144R	8th Ave N ROW, E side	12/16/19	**673**	**93.1**	0.0227 U	**11.3**	**46.5**	**2.04**	**2.0**	**0.0**	**1.93**	**8,640**	**16.5**	**305**
		01/21/20	**573**	**93.4**	0.0239 U	0.0774 U	**47.7**	**5.06**	**3.5**	**1.6**	**1.99**	**5,560**	**9.61**	**276**
		04/02/20	**624**	**96.8**	**0.0252 J**	0.37 U	**24.0**	**6.49**	**3.0**	**3.5**	**1.51**	**13,900**	**28.1**	**466**
		08/03/20	**618**	**97.4**	0.0480 U	0.594 U	**4.62**	**4.54**	**2.4**	**2.1**	**1.15**	**18,500**	**367**	**102**
		11/23/20	–	–	–	0.594 U	**3.82**	**5.74**	**–**	**–**	**1.07**	**20,400**	**414**	**33.8**

Table 15

Groundwater Natural Attenuation Parameters
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Location Description	Sample Date	Alkalinity (mg $CaCO_3$/L)	Chloride (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	TOC (mg/L)	Iron (mg/L)			Total Manganese (mg/L)	Dissolved Gases (µg/L)		
								Total	Ferrous	Ferric		Methane	Ethane	Ethene
MW-144R		02/02/21	–	–	–	**1.18 J**	**3.47**	**2.51**	**–**	**–**	**1.03**	**1,220**	**408**	0.422 U
(continued)		05/12/21	–	–	–	**1.63 J**	**3.92**	**1.68**	–	–	**1.15**	**11,800**	**389**	0.422 U
MW-146	Roy St ROW, S side	04/30/18	**363**	**30.4**	0.0227 U	**22.3**	**4.47**	**2.65**	**1.3**	**1.4**	**1.26**	**9,240**	**11.9**	**489**
		01/22/19	**249**	**15.8**	0.0227 U	**32.1**	**3.43**	**1.76**	**2.0**	0.0	**0.56**	**2,460**	**1.84**	**107**
		04/24/19	**310**	**14.8**	0.0227 U	**23.3**	**4.95**	**2.87**	**2.5**	**0.4**	**0.770**	**5,090**	**4.00**	**347**
		07/19/19	**310**	**17.2**	0.0227 U	**23.9**	**3.78**	**2.87**	**1.9**	**1.0**	**0.800**	**6,490**	0.296 U	**463**
(dup)		07/19/19	**307**	**17.2**	0.0227 U	**24.2**	**3.67**	**2.95**	**1.9**	**1.1**	**0.817**	**5,480**	0.296 U	**387**
		10/14/19	**338**	**23.3**	0.0227 U	**20.6**	**3.63**	**2.91**	**2.0**	**0.9**	**0.898**	**6,190**	0.296 U	**394**
		01/24/20	**362**	**32.1**	0.0227 U	**15.5**	**3.31**	**3.72**	**4.0**	0.0	**1.17**	**888 J**	**3.09**	**728**
(dup)		01/24/20	**365**	**30.9**	0.0227 U	**15.3**	**3.30**	**3.22**	**4.0**	0.0	**1.12**	**6,280 J**	**3.27**	**672**
		04/30/20	**383**	**40.9**	0.0480 U	**13.7**	**3.55**	**2.91**	**2.5**	**0.4**	**1.1**	**5,020**	0.296 U	**511**
		07/09/20	**383**	**42.9**	0.0480 U	**16.6**	**2.92**	**3.08**	**3.0**	**0.1**	**1.14**	**5,990**	0.296 U	**463**
		11/10/20	**277**	–	–	**31.1**	**2.18**	**2.59**	**–**	**–**	**1.07**	**7,340**	**2.67**	**315**
		02/08/21	–	–	–	**31.5**	**2.17**	**2.97**	**–**	**–**	**0.952**	**3,330**	0.296 U	**239**
		05/04/21	–	–	–	**5.87**	**19.0**	**6.29**	–	–	**1.11**	**16,100**	0.296 U	**1,060**
MW-149	Property, NE quadrant	04/10/18	**504**	**44.6**	0.0227 U	**16.9**	**9.94**	**2.18**	**1.8**	**0.4**	**2.70**	**14,400**	**414**	**363**
		12/13/18	**407**	**7.71**	0.0227 U	**225**	**75.1**	**26.1**	**0.5**	**26**	**12.8**	**11,400**	**2,430**	**35.9**
		Decommissioned March 2019												
MW-151	Property, SW quadrant	04/10/18	**409**	**65.5**	**0.0870 J**	**2.08 J**	**39.2**	**1.38**	**0.8**	**0.6**	**0.536**	**36,500**	**83.3**	**1,440**
		12/14/18	**618**	**32.2**	0.0227 U	**702**	**335**	**138**	**–**	**–**	**11.8**	**18,900**	**68.4**	**68.4**
		Decommissioned March 2019												
MW-156	8th Ave N ROW, E side	04/26/18	**436**	**46.3**	0.0227 U	**25.0**	**10.7**	**10.2**	0.0	**10**	**1.13**	**2,250**	**28.4**	**23.8**
		01/24/19	**554**	**25.1**	0.0227 U	**67.6**	**34.3**	**3.42**	0.0	**3.4**	**6.59**	**2,470**	**44.8**	0.422 U
		04/24/19	**618**	**18.6**	0.0227 U	**145**	**57.3**	**3.81**	**0.4**	**3.4**	**9.01**	**1,720**	**31.2**	0.422 U
(dup)		04/24/19	**612**	**19.3**	**0.259**	**145**	**56.0**	**4.76**	**0.4**	**4.4**	**9.75**	**1,590**	**28.4**	0.422 U
		07/22/19	**606**	**45.5**	0.0227 U	**181**	**42.0**	**19.9**	**0.3**	**20**	**8.68**	**2,340**	**50.0**	0.422 U
		10/17/19	**633**	**46.0**	0.0227 U	**83.3**	**19.3**	**3.44**	**1.4**	**2.0**	**3.83**	**2,490**	**179**	0.422 U
		01/20/20	**600**	**48.9**	0.0227 U	**75.8**	**21.3**	**3.20**	**1.5**	**1.7**	**3.13**	**2,440**	**189**	0.422 U
		04/24/20	**634**	**54.8**	0.0480 U	**78.0**	**12.5**	**6.41**	0.0	**6.4**	**2.33**	**1,580**	**153**	0.422 U
		07/15/20	**642**	**55.6**	0.0480 U	**92.1**	**12.8**	**3.19**	**2.0**	**1.2**	**2.69**	**2,490**	**242**	0.422 U
		11/11/20	–	–	–	**118**	**9.96**	**3.36**	**–**	**–**	**3.23**	**993**	**19.8**	0.422 U
		02/08/21	–	–	–	**72.8**	**11.4**	**2.30**	**–**	**–**	**3.92**	**5,850**	0.296 U	0.422 U
		05/10/21	–	–	–	**38.1**	**12.4**	**17.1**	–	–	**4.63**	**21,700**	**60.3**	0.422 U
MW-189	Valley St ROW, S side	10/14/19	**197**	**17.1**	0.0227 U	**37.2**	**3.78**	**1.33**	**0.1**	**1.2**	**0.838**	**203**	0.296 U	**69.9**
		01/23/20	**171**	**13.3**	0.0227 U	**37.5**	**1.80**	**2.06**	**0.5**	**1.6**	**0.700**	**119**	0.296 U	**25.3**
		04/03/20	**170**	**12.6**	0.0227 U	**40.0**	**1.49**	**1.16**	**0.5**	**0.7**	**0.658**	**68.5**	0.296 U	**16.6**
(dup)		04/03/20	**169**	**12.7**	**0.0354 J**	**39.6**	**1.48**	**1.22**	**0.5**	**0.7**	**0.652**	**77.1**	0.296 U	**15.2**
		08/04/20	**165**	**12.8**	0.0480 U	**43.0**	**1.51**	**1.42**	**0.5**	**0.9**	**0.709**	**51.6**	0.296 U	0.422 U
		11/17/20	–	–	–	**42.2**	**1.75**	**0.750**	**–**	**–**	**0.675**	**89.1**	0.296 U	**28.9**
		02/03/21	–	–	–	**46.1**	**3.56**	**1.99**	**–**	**–**	**0.818**	**1,080**	0.296 U	**58.9**
		05/14/21	–	–	–	**49.3**	**5.56**	**3.27**	–	–	**1.34**	**20,800**	**43.7**	**120**
MW-302	Dexter Ave N ROW, E side	10/21/19	**311**	**20.2**	0.0227 U	**26.8**	**8.10**	**2.26**	**0.5**	**1.8**	**0.295**	**129**	**3.74**	0.422 U
		01/24/20	**331**	**20.6**	0.0227 U	**22.8**	**1.57**	**1.13**	**1.0**	**0.1**	**0.332**	**590**	0.296 U	0.422 U
		05/07/20	**356**	**22.3**	0.0480 U	**20.8**	**1.71**	**11.1**	0.0	**11**	**0.518**	**297**	0.296 U	0.422 U
		07/28/20	**370**	**25.8**	0.0480 U	**22.0**	**1.64**	**1.64**	0.0	**1.6**	**0.335**	**299**	0.296 U	0.422 U

Table 15

Groundwater Natural Attenuation Parameters
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Location Description	Sample Date	Alkalinity (mg $CaCO_3$/L)	Chloride (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	TOC (mg/L)	Iron (mg/L)			Total Manganese (mg/L)	Dissolved Gases (µg/L)		
								Total	Ferrous	Ferric		Methane	Ethane	Ethene
MW-306	Roy St ROW, S side	10/15/19	**187**	**8.79**	0.0227 U	**80.9**	**2.32**	**3.81**	**2.5**	**1.3**	**0.608**	0.287 U	0.296 U	0.422 U
		01/16/20	**185**	**9.48**	0.0227 U	**77.5**	**2.97**	**4.09**	**2.6**	**1.5**	**0.550**	0.287 U	0.296 U	0.422 U
		04/28/20	**192**	**10.3**	0.0480 U	**75.8**	**3.03**	**2.94**	**0.3**	**2.6**	**0.483**	0.287 U	0.296 U	0.422 U
		07/29/20	**185**	**10.8**	0.0480 U	**73.9**	**1.11**	**2.93**	**2.5**	**0.4**	**0.509**	0.287 U	0.296 U	0.422 U
MW-308	Alley E of Seattle Roy Aloha Shops	10/11/19	**901**	**15.4**	0.0227 U	**95.4**	**6.97**	**16.9**	**3.5**	**13**	**2.95**	**2,070**	**19.7**	0.422 U
		01/16/20	**565**	**14.4**	0.0227 U	**86.0**	**7.85**	**16.0**	**4.0**	**12**	**2.65**	**2,780**	**31.5**	**8.93**
		04/08/20	**485**	**14.6**	0.0480 U	**83.2**	**9.49**	**9.39**	**4.8**	**4.6**	**2.53**	**1,870**	**23.9**	**8.43**
		07/06/20	**670**	**12.3**	0.0480 U	**68.6**	**7.40**	**16.9**	**5.5**	**11**	**3.08**	**2,630**	**18.9**	0.422 U
MW-315	Mercer St ROW, N side	10/03/19	**325**	**11.7**	0.0227 UJ	**35.0**	**3.02**	**0.850**	0.0	**0.9**	**0.306**	**124**	0.296 U	0.422 U
		01/16/20	**262**	**10.5**	0.0227 U	**37.6**	**4.68**	**1.03**	**0.4**	**0.6**	**0.354**	**77.2**	0.296 U	0.422 U
		04/24/20	**251**	**9.62**	0.0480 U	**37.9**	**1.25**	**2.34**	**0.75**	**1.6**	**0.329**	**57.8**	0.296 U	0.422 U
		07/24/20	**249**	**9.55**	0.0480 U	**38.5**	**1.44**	**3.90**	0.0	**3.9**	**0.307**	**32.7**	0.296 U	0.422 U
MW-317	9th Ave N ROW, W side	10/09/19	**404**	**18.5**	0.0227 U	0.0774 U	**12.0**	**12.5**	**3.0**	**9.5**	**3.57**	**11,000**	0.296 U	0.422 U
		01/16/20	**394**	0.0519 U	0.0227 U	0.0774 U	**12.9**	**14.4**	**1.5**	**13**	**3.71**	**12,800**	0.296 U	0.422 U
		04/27/20	**321**	**26.6**	0.0480 U	**15.8**	**12.7**	**12.6**	**2.0**	**11**	**2.94**	**900**	0.296 U	0.422 U
		07/30/20	**332**	**22.3**	0.0480 U	**1.34 J**	**14.0**	**12.0**	**5.0**	**7.0**	**2.93**	**4,020**	0.296 U	0.422 U
MW-325	Mercer St ROW, N side	10/03/19	**235**	**21.5**	**0.788 J**	**112**	**3.28**	**0.701**	0.0	**0.7**	**0.865**	**31.7**	0.296 U	0.422 U
		01/17/20	**175**	**20.7**	**1.59**	**93.5**	**4.19**	**0.802**	0.0	**0.8**	**0.525**	**4.04**	0.296 U	0.422 U
		04/21/20	**229**	**19.8**	**3.14**	**84.2**	**2.67**	**0.163**	0.0	**0.2**	**0.310**	**14.4**	0.296 U	0.422 U
		07/23/20	**207**	**6.99**	**1.97**	**45.7**	**1.55**	**2.04**	0.0	**2.0**	**0.220**	**18.5**	0.296 U	0.422 U
MW-327	Lake Union Park, S end	10/02/19	**272**	**18.4**	0.0227 UJ	0.0774 U	**4.41**	**12.4**	**3.5**	**8.9**	**0.822**	**18,500**	0.296 U	0.422 U
		01/17/20	**205**	**26.6**	0.0227 U	0.0774 U	**3.75**	**9.97**	**2.0**	**8.0**	**0.614**	**15,000**	0.296 U	0.422 U
		04/09/20	**256**	**21.4**	0.0480 U	**1.89 J**	**3.37**	**9.28**	**5.4**	**3.9**	**0.821**	**12,700**	0.296 U	0.422 U
		07/07/20	**316**	**16.6**	0.0480 U	**5.59**	**3.49**	**9.51**	**6.0**	**3.5**	**0.900**	**10,100**	0.296 U	0.422 U
MW-330 (dup)	Valley St ROW, N side	05/14/20	**156**	**11.3**	0.0480 U	**48.0**	**1.42**	**2.9**	0.0	**2.9**	**0.841**	**31.7 J**	0.296 U	0.422 U
		05/14/20	**156**	**11.1**	0.0480 U	**48.3**	**1.46**	**2.2**	0.0	**2.2**	**0.836**	**46.5 J**	0.296 U	0.422 U
		07/16/20	**164**	**11.0**	0.0480 U	**45.9**	**2.22**	**2.56**	**1.0**	**1.6**	**0.971**	**31.3**	0.296 U	0.422 U
MW-331	Alley E of Seattle Roy Aloha Shops	04/24/20	**292**	**34.7**	0.0480 U	**243**	**3.36**	**9.66**	**4.5**	**5.2**	**0.809**	**94.1**	**8.18**	0.422 U
		07/06/20	**351**	**32.9**	0.0480 UJ	**228**	**3.06**	**17.7**	**7.0**	**11**	**0.752**	**83.6**	0.296 U	0.422 U
MW-333	900 Roy St, S end	04/29/20	**890**	**33.9**	0.0480 U	**1.37 J**	**13.5**	**26.2**	**5.0**	**21**	**2.16**	**24,300**	0.296 U	0.422 U
		07/24/20	**835**	**35.1**	0.0480 U	0.594 U	**14.4**	**21.2**	**6.5**	**15**	**1.55**	**29,700**	0.296 U	0.422 U
MW-344	SDOT Mercer Parcels	06/01/21	**227**	**19.9**	0.0480 R	**57.8**	0.924 U	**2.06**	–	–	**0.641**	**96.5**	0.296 U	0.422 U
Intermediate B Zone														
FMW-141 (dup)	Alley E of Seattle Roy Aloha Shops	10/30/19	**596**	**66.9 J**	0.0227 U	**0.909 J**	**21.2**	**8.88**	**0.5**	**8.4**	**1.74**	**6,040**	**113**	**460 J**
		10/30/19	**466**	**44.5 J**	0.0227 U	**4.73 J**	**18.8**	**8.38**	**0.5**	**7.9**	**1.52**	**5,710**	**84.9**	**305 J**
		01/14/20	**119**	**10.0**	**0.0385 J**	**1.18 J**	**3.74**	**5.52**	**1.5**	**4.0**	**0.340**	**1,890**	**23.6**	**299**
		04/28/20	**167**	**16.5**	**0.0866 J**	**3.09 J**	**4.57**	**1.61**	**1.2**	**0.4**	**0.407**	**2,910**	**33.1**	**322**
		07/22/20	**205**	**23.3**	**0.0723 J**	**3.10 J**	**4.45**	**2.80**	**0.5**	**2.3**	**0.582**	**3,390**	**41.7**	**428**
HMW-9IB	SDOT Mercer Parcels, SW quadrant	01/26/21	**290**	**29.8**	0.0480 U	**31.3**	**2.61**	**0.429**	**0.25**	**0.2**	**0.565**	**2,530**	0.296 U	**137**
		06/02/21	**294**	**26.0**	0.0480 U	**32.7**	**1.77**	**0.948**	–	–	**0.629**	**1,660**	4.07 U	**86.9**

Table 15

Groundwater Natural Attenuation Parameters
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Location Description	Sample Date	Alkalinity (mg $CaCO_3$/L)	Chloride (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	TOC (mg/L)	Iron (mg/L)			Total Manganese (mg/L)	Dissolved Gases (µg/L)		
								Total	Ferrous	Ferric		Methane	Ethane	Ethene
MW111	Alley E of Seattle Roy Aloha Shops	12/17/13	**170**	**47.3**	0.025 U	**4.73**	–	**0.168**	**0.2**	0.0	**0.135**	**14.7**	5 U	5 U
		03/23/17	**179**	**22.9**	**0.0680 J**	**8.25**	**0.918 J**	**0.391**	**0.1**	**0.3**	**0.151**	**136**	**5.75**	**4.17**
		06/14/17	**202**	**23.2**	0.0227 U	**8.97**	**1.20**	**0.298**	–	–	**0.142**	**231**	**7.73**	**6.71**
		10/14/19	**222**	**29.1**	0.0227 U	**7.70**	**1.97**	**0.159**	–	–	**0.229**	**324**	**20.9**	**20.1**
		01/16/20	**227**	**32.3**	0.0227 U	**15.7**	**1.56**	**9.04**	**0.5**	**8.5**	**0.415**	**386**	**30.2**	**20.4**
		04/23/20	**259**	**38.3**	0.0480 U	**26.5**	**1.88**	**22.5**	**0.5**	**22**	**0.694**	**447**	**38.7**	**23.3**
		07/06/20	**290**	**41.4**	0.0480 U	**32.8**	**1.65**	**22.1**	0.0	**22**	**0.668**	**625**	**51.6**	**25.9**
		11/02/20	–	–	–	**31.8**	**1.55**	**18.8**	**–**	**–**	**0.653**	**484**	**47.8**	**23.8**
		02/09/21	–	–	–	**25.4**	**1.44**	**4.38**	**–**	**–**	**0.429**	**452**	**43.5**	**26.1**
		05/03/21	–	–	–	**17.8**	**1.21**	**7.73**	–	–	**0.344**	**347**	**29.6**	**13.7**
MW112	Dexter Ave N ROW, W side	12/26/13	**160**	**12.3**	**0.0640**	**44.9**	–	**0.560**	**0.2**	**0.3**	**0.106**	5 U	5 U	5 U
		03/22/17	**188**	**10.6**	0.0227 U	**45.2**	**1.35**	**0.238**	–	–	**0.0411**	**4.89**	0.296 U	0.422 U
		06/16/17	**240**	**1.15**	**0.162**	**1.26 J**	**5.48**	**2.56**	–	–	**0.0871**	**1.78**	0.296 U	0.422 U
		04/12/18	**16.7 J**	**2.09**	**0.398 J**	**1.31 J**	**2.80**	**19.5**	0.0	**20**	**0.421**	**326**	0.296 U	0.422 U
		12/22/18	**41.6**	**9.72**	**0.0683 J**	**0.342 J**	**5.51**	**22.6**	–	**–**	**0.573**	**373**	0.296 U	0.422 U
		04/22/19	**82.9**	**7.09**	0.0227 U	**7.65**	**6.04**	**4.90**	**1.0**	**3.9**	**0.177**	**281**	**1.12 J**	**1.13 J**
		07/16/19	**112**	**8.61**	0.0227 U	**17.1**	**6.12**	**1.28**	0.0	**1.3**	**0.154**	**149**	**3.81**	0.422 U
		10/21/19	**58.6**	**5.47**	0.0227 U	**1.82 J**	**11.1**	**1.70**	**0.5**	**1.2**	**0.169**	**388**	**5.75**	0.422 U
		01/24/20	**50.8**	**7.70**	0.0227 U	**0.322 J**	**3.41**	**3.56**	**2.0**	**1.6**	**0.220**	**1,670**	0.296 U	**35.0**
		05/07/20	**75.2**	**8.95**	0.0480 U	**2.62 J**	**2.91**	**3.22**	**1.5**	**1.7**	**0.239**	**752**	0.296 U	0.422 U
		07/27/20	**106**	**9.08**	0.0480 U	**11.0**	**2.86**	**1.68**	**1.6**	**0.1**	**0.213**	**592**	0.296 U	0.422 U
		11/17/20	–	–	–	**32.7**	**1.61**	**3.78**	**–**	**–**	**0.210**	**121**	0.296 U	0.422 U
		02/11/21	–	–	–	**32.4**	**1.70**	**1.57**	**–**	**–**	**0.176**	**93.8**	0.296 U	0.422 U
		05/14/21	–	–	–	**35.2**	**1.77**	**9.37**	–	–	**0.309**	**91.9**	0.296 U	0.422 U
MW126	Alley E of Seattle Roy Aloha Shops	10/15/19	**210**	**7.54**	0.0227 U	**3.62 J**	**5.12**	**0.407**	**0.5**	0.0	**0.335**	**277**	0.296 U	0.422 U
(dup)		10/15/19	**200**	**7.78**	0.0227 U	**3.89 J**	**5.05**	**0.388**	**0.5**	0.0	**0.327**	**317**	0.296 U	0.422 U
		01/14/20	**199**	**7.34**	0.0227 U	**2.83 J**	**4.45**	**0.372**	**0.5**	0.0	**0.326**	**292**	0.296 U	0.422 U
		04/09/20	**197**	**7.4**	0.0480 U	**2.58 J**	**4.28**	**0.257**	0.0	**0.3**	**0.289**	**574**	**3.71**	0.422 U
		07/24/20	**170**	**6.79**	0.0480 U	**3.19 J**	**3.94**	**0.105**	0.0	**0.1**	**0.262**	**361**	0.296 U	0.422 U
		11/09/20	**197**	–	–	**4.85 J**	**3.42**	**0.117**	**–**	**–**	**0.254**	**213**	0.296 U	0.422 U
		02/10/21	–	–	–	**6.65**	**2.60**	**0.245**	**–**	**–**	**0.262**	**267**	0.296 U	0.422 U
		05/04/21	–	–	–	**7.56**	**2.19**	**0.0582 J**	–	–	**0.195**	**183**	0.296 U	0.422 U
(dup)		05/04/21	–	–	–	**7.51**	**2.11**	**0.0729 J**	–	–	**0.200**	**163**	0.296 U	0.422 U
MW130	Property, NW quadrant	03/29/17	**276**	**100**	0.0227 U	**7.07**	**10.7**	**1.19**	**1.0**	**0.2**	**0.555**	**619**	**1.62**	**30.0**
		06/30/17	**339**	**115**	0.0227 U	**6.23**	**1.84 J J**	**0.907**	0.0	**0.9**	**0.532**	**1,040**	**2.47**	**64.5**
(dup)		06/30/17	**335**	**111**	0.0227 U	**6.16**	**9.68 J J**	**0.876**	0.0	**0.9**	**0.527**	**1,120**	**2.33**	**69.1**
		05/21/18	2.71 U	**135**	**265**	**1.68 J**	**7.54**	**5.44**	0.0	**5.4**	**0.727**	**1,760**	**33.6**	**284**
		12/17/18	**384**	**143**	0.0227 U	**17.3**	**12.6**	**2.26**	0.0	**2.3**	**0.490**	**324**	**8.36**	**166**
		Decommissioned March 2019												
MW-132	Property, SE quadrant	04/26/18	**542**	**30.1**	0.0227 U	**10.6**	**18.6**	**9.59**	–	–	**2.04**	**4,640**	**75.9**	0.422 U
		12/13/18	**260**	**40.4**	0.0227 U	**7.21**	**3.4**	**0.544**	**–**	**–**	**0.278**	**89.7**	**0.925 J**	**41.0**
		Decommissioned March 2019												
MW-134	Property, NE quadrant	04/16/18	**298**	**38**	0.0227 UJ	**1.30 J**	**3.27**	**292**	0.0	**292**	**5.00**	**5,200**	**61.3**	**952**
		Decommissioned March 2019												

Table 15

Groundwater Natural Attenuation Parameters
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Location Description	Sample Date	Alkalinity (mg $CaCO_3$/L)	Chloride (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	TOC (mg/L)	Iron (mg/L)			Total Manganese (mg/L)	Dissolved Gases (µg/L)		
								Total	Ferrous	Ferric		Methane	Ethane	Ethene
MW-135	Property, NE quadrant	04/25/18	**273**	**118**	0.0227 U	**21.9**	**6.21**	**1.74**	**1.5**	**0.2**	**0.656**	**333**	**18.1**	**131**
		12/13/18	**379**	**128**	0.0227 U	**61.8**	**18.1**	**4.95**	**0.8**	**4.2**	**1.450**	**2,060**	**56.1**	**327**
		Decommissioned March 2019												
MW-136	Property, SW quadrant	04/16/18	**241**	**22.1**	**0.165**	**0.638 J**	**15.1**	**21.4**	**0.6**	**21**	**0.618**	**5,510**	**8.52**	**5.77**
		Decommissioned March 2019												
MW-139	Property, SE quadrant	04/25/18	**212**	**21.9**	0.0227 R	**2.21 J**	**28.5**	**1.13**	**0.8**	**0.4**	**0.251**	**4.28**	**8.04**	0.42 U
		Decommissioned March 2019												
MW-143	8th Ave N ROW, E side	04/30/18	**448**	**66.5**	0.0227 U	**4.69 J**	**2.55**	**2.08**	**0.5**	**1.6**	**0.390**	**6,720**	**92.5**	**360**
		01/29/19	**400**	**58.5**	0.0227 U	**3.12 J**	**7.02**	**1.6**	**0.8**	**0.9**	**0.378**	**8,520**	**134**	0.422 U
		04/24/19	**393**	**56.2**	0.0227 U	**8.53**	**7.19**	**0.687**	**0.3**	**0.4**	**0.317**	**6,940**	**125**	0.422 U
		07/19/19	**403**	**58.2**	**0.140**	**6.91**	**12.7**	**2.07**	**1.0**	**1.1**	**0.398**	**4,790**	**96.5**	**14.4**
		10/16/19	**518**	**35.8**	0.0227 U	**67.7**	**20.9**	**8.54**	**0.5**	**8.0**	**2.09**	**5,780**	**62.6**	**110**
		01/22/20	**394**	**58.1**	0.0229 U	**2.34 J**	**7.53**	**2.02**	**0.5**	**1.5**	**0.410**	**5,090**	**83.6**	0.422 U
		04/24/20	**409**	**56.7**	0.0480 U	**1.08 J**	**5.57**	**2.19**	**1.0**	**1.2**	**0.405**	**3,720**	**61.4**	0.422 U
		07/29/20	**393**	**57.2**	0.0480 U	**0.665 J**	**4.48**	**1.39**	**0.5**	**0.9**	**0.428**	**4,040**	**61.3**	0.422 U
		11/24/20	–	–	–	**5.06**	**6.45**	**7.11**	**–**	**–**	**0.654**	**10,600**	**190**	**10.9**
		02/08/21	–	–	–	**44.3**	**32.5**	**20.6**	**–**	**–**	**3.95**	**19,500**	**417**	0.422 U
		05/19/21	–	–	–	**5.27**	**38.2**	**32.4**	–	–	**7.46**	**19,100**	**363**	**283**
MW-145	8th Ave N ROW, E side	04/27/18	**272**	**74.4**	**0.238**	**71.0**	**8.09 J**	**42.9**	0.0	**43**	**0.912**	**2,050**	0.296 U	**18.5**
		01/29/19	**255**	**43.5**	**0.219**	**55.4**	**4.80**	**4.85**	0.0	**4.9**	**0.193**	**276**	0.296 U	0.422 U
		04/26/19	**287**	**44.7**	0.0227 U	**73.9**	**5.29**	**5.73**	0.0	**5.7**	**0.318**	**455**	**1.73**	**5.24**
		Damaged June 2019 and Decommissioned December 2019												
MW-145R	8th Ave N ROW, E side	12/16/19	**258**	**20.1**	0.0227 U	**16.6**	**4.12**	**1.22**	0.0	**1.2**	**0.256**	**272**	0.296 U	0.422 U
		01/21/20	**233**	**20.1**	0.0249 U	**3.17 J**	**5.32**	**1.32**	0.0	**1.3**	**0.305**	**449**	**1.72**	0.422 U
		04/02/20	**260**	**20.1**	0.0227 U	**1.07 J**	**6.87**	**1.39**	**0.5**	**0.9**	**0.342**	**2,050**	**5.34**	0.422 U
		08/03/20	**266**	**29.3**	0.0480 U	**1.24 J**	**2.27**	**1.54**	**1.0**	**0.5**	**0.362**	**8,550**	**5.59**	0.422 U
		11/23/20	–	–	–	**26.9**	**2.89**	**4.61**	**–**	**–**	**0.361**	**1,610**	0.296 U	0.422 U
		02/04/21	–	–	–	**26.7**	**1.95**	**1.23**	**–**	**–**	**0.310**	**1,380**	4.07 U	4.26 U
		05/12/21	–	–	–	**27.3**	**1.90**	**2.80**	–	–	**0.327**	**1,620**	0.296 U	0.422 U
MW-147	Roy St ROW, S side	05/01/18	**302**	**40.8**	0.0227 U	**183**	**21.3**	**17.1**	–	–	**0.564**	**5,060**	**10.7**	**144**
		01/22/19	**302**	**56.2**	0.0227 U	**43.2**	**5.2**	**6.01**	**1.0**	**5.0**	**0.646**	**4,210**	**2.10**	**100**
		04/23/19	**346**	**26.9**	0.0227 U	**28.1**	**13.7**	**4.39**	**1.5**	**2.9**	**0.787**	**8,110**	0.296 U	**158**
		07/18/19	**307**	**19.3**	0.0227 U	**30.0**	**9.56**	**3.80 J**	**2.0**	**1.8**	**0.750**	**5,450**	0.296 U	**191**
(dup)		07/18/19	**310**	**18.8**	**0.0890 J**	**29.4**	**11.7**	**2.40 J**	**2.0**	**0.4**	**0.724**	**5,830**	0.296 U	**202**
		10/14/19	**339**	**23.2**	0.0227 U	**28.0**	**6.70**	**9.37**	**0.5**	**8.9**	**0.919**	**7,830**	**2.94**	**457**
		01/24/20	**351**	**28.3**	0.0227 U	**25.6**	**3.34**	**13.5**	**0.5**	**13**	**0.995**	**1,550**	0.296 U	**172**
		04/29/20	**370**	**33.9**	0.0480 U	**22.4**	**3.47**	**8.66**	**2.0**	**6.7**	**1.01**	**3,780**	0.296 U	**468**
		07/09/20	**401**	**43.3**	0.0480 U	**14.0**	**3.29**	**13.3**	**1.5**	**12**	**1.04**	**5,490**	**4.65**	**641**
		11/10/20	**343**	–	–	**16.6**	**3.04**	**5.85**	**–**	**–**	**0.890**	**8,350**	**3.95**	**552**
		02/09/21	–	–	–	**36.8**	**4.33**	**2.44**	**–**	**–**	**0.659**	**4,050**	0.296 U	**302**
		05/04/21	–	–	–	**1.35 J**	**18.7**	**8.90**	–	–	**0.910**	**5,960**	0.296 U	**785**
MW-148	Roy St ROW, S side	05/01/18	**170**	**22.2**	0.0227 U	**95.5**	**2.46**	**12.0**	**0.3**	**12**	**0.439**	**1,210**	0.296 U	0.422 U
(dup)		05/01/18	**162**	**22.5**	0.0227 U	**96.1**	**2.53**	**11.2**	**0.3**	**11**	**0.379**	**1,140**	0.296 U	0.422 U
		01/23/19	**151**	**17.7**	0.0227 U	**154**	**4.04**	**10.1**	–	–	**0.594**	**1390**	0.296 U	**2.84**
		04/26/19	**161**	**17.1**	0.0227 U	**175**	**5.19**	**2.91**	**0.4**	**2.5**	**0.420**	**1,600**	0.296 U	**3.65**
		07/22/19	**160**	**17.0**	0.0227 U	**173**	**3.51**	**5.44**	**0.5**	**4.9**	**0.534**	**1,940**	0.296 U	**4.66**

Table 15

Groundwater Natural Attenuation Parameters
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Location Description	Sample Date	Alkalinity (mg $CaCO_3$/L)	Chloride (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	TOC (mg/L)	Iron (mg/L)			Total Manganese (mg/L)	Dissolved Gases (µg/L)		
								Total	Ferrous	Ferric		Methane	Ethane	Ethene
MW-148 (continued)		10/16/19	**163**	**18.0**	**0.0326 J**	**198**	**4.48**	**2.24**	**0.5**	**1.7**	**0.498**	**2,050**	**6.03**	0.422 U
		01/20/20	**158**	**16.4**	0.0227 U	**117**	**5.22**	**1.75**	**0.5**	**1.3**	**0.380**	**1,090**	**3.20**	**5.65**
		04/30/20	**160**	**16.5**	0.0480 U	**149**	**2.84**	**30.3**	**0.5**	**30**	**0.774**	**1,270**	0.296 U	0.422 U
		07/15/20	**162**	**16.3**	0.0480 U	**127**	**2.36**	**7.72**	**0.5**	**7.2**	**0.517**	**1,320**	**13.1**	0.422 U
		11/11/20	–	–	–	**60.0**	**1.02**	**4.27**	–	–	**0.341**	**544**	0.296 U	0.422 U
MW-152	Property, SW quadrant	04/10/18	**312**	**128**	0.0227 U	**15.0**	**13.2**	**0.210**	0.0	**0.2**	**0.386**	**1,590**	**41.1**	**1,830**
		12/14/18	**299**	**181**	0.0227 U	**31.6**	**16.9**	**3.82**	**1.0**	**2.8**	**1.46**	**3,710**	**32.2**	**2,050**
		Decommissioned March 2019												
MW-157	8th Ave N ROW, E side	04/26/18	**201**	**27.8**	0.0227 U	**4.51 J**	**2.86**	**1.02**	–		**0.209**	**111**	**0.779 J**	**36.6**
		01/24/19	**421**	**43.2**	0.0227 U	**24.1**	**12.9**	**5.25**	**3.0**	**2.3**	**1.17**	**4,970**	**37.4**	**124**
		04/24/19	**513**	**34.1**	0.0227 U	**95.0**	**39.5**	**9.40**	**3.0**	**6.4**	**2.13**	**5,510**	**36.0**	**119**
		07/22/19	**464**	**43.7**	0.0227 U	**46.7**	**14.9**	**11.4**	**3.0**	**8.4**	**1.73**	**5,090**	**45.8**	**56.2**
		10/16/19	**408**	**22.8**	**0.441**	**5.72**	**7.17**	**1.68**	0.0	**1.7**	**0.403**	**4,670**	**78.6**	0.422 U
		01/20/20	**467**	**42.1**	0.0227 U	**53.2**	**20.0**	**6.27**	**2.5**	**3.8**	**1.72**	**4,250**	**58.4**	**91.0**
		04/24/20	**498**	**39.9**	0.0480 U	**47.6**	**16.4**	**13.1**	**1.2**	**12**	**1.86**	**4,700**	**62.9**	**109**
		07/15/20	**491**	**40.7**	0.0480 U	**45.5**	**13.7**	**4.86**	**1.5**	**3.4**	**1.54**	**6,000**	**94.2**	**149**
		11/23/20	–	–	–	**20.0**	**3580**	**14.2**	–	–	**1.89**	**2,730**	**37.0**	**46.8**
MW-190	Valley St ROW, S side	10/14/19	**172**	**12.8**	0.0227 U	**20.3**	**10.3**	**1.85**	**0.2**	**1.7**	**0.406**	**428**	**6.87**	0.422 U
		01/23/20	**173**	**10.5**	0.0227 U	**4.06 J**	**4.46**	**1.49**	**0.5**	**1.0**	**0.273**	**656**	0.296 U	0.422 U
		04/02/20	**180**	**23.9**	0.0227 U	**22.3**	**2.05**	**2.24**	**0.5**	**1.7**	**0.420**	**318**	0.296 U	0.422 U
		08/04/20	**174**	**14.7**	0.0480 U	**23.3**	**1.87**	**0.957**	**0.5**	**0.5**	**0.507**	**230**	0.296 U	0.422 U
		11/18/20	–	–	–	**51.9**	**3.08**	**1.60**	–	–	**1.01**	**96**	0.296 U	**37.6**
		02/03/21	–	–	–	**42.8**	**4.42**	**2.03**	–	–	**0.951**	**755**	0.296 U	**48.9**
		05/14/21	–	–	–	**37.9**	**3.42**	**4.55**	–	–	**1.08**	**1,450**	0.296 U	**28.2**
MW-303	Dexter Ave N ROW, E side	10/21/19	**144**	**15.2**	0.0227 U	**62.2**	**4.76**	**3.06**	0.0	**3.1**	**0.289**	**95.7**	**6.17**	0.422 U
		01/24/20	**162**	**14.8**	0.0227 U	**29.8**	**3.54**	**1.32**	0.0	**1.3**	**0.285**	**137**	0.296 U	0.422 U
		05/07/20	**156**	**14.2**	0.0480 U	**43.5**	**1.66**	**4.49**	0.0	**4.5**	**0.371**	**177**	0.296 U	0.422 U
		07/27/20	**158**	**14.7**	0.0480 U	**49.0**	**1.69**	**1.48**	**0.6**	**0.9**	**0.298**	**157**	0.296 U	0.422 U
MW-307	Roy St ROW, S side	10/11/19	**276**	**14.6**	0.0227 U	**69.1**	**4.12**	**1.03**	0.0	**1.0**	**0.149**	**26.6 J+**	**13.0**	**7.90**
		01/15/20	**266**	**15.1**	0.0227 U	**64.7**	**7.87**	**1.99**	0.0	**2.0**	**0.198**	**12.6**	**2.79**	0.422 U
		04/28/20	**274**	**14.8**	0.0480 U	**72.0**	**3.56**	**1.19**	**0.25**	**0.9**	**0.172**	**25.0**	0.296 U	0.422 U
		07/29/20	**265**	**14.7**	**2.20**	**73.0**	**1.90**	**1.22**	**0.5**	**0.7**	**0.169**	**69.5**	0.296 U	0.422 U
MW-309	Alley E of Seattle Roy Aloha Shops	10/14/19	**228**	**15.1**	0.0227 U	**86.5**	**2.95**	**0.511**	**0.5**	**0.0**	**0.435**	**105**	0.296 U	0.422 U
		01/16/20	**264**	**17.7**	0.0227 U	**69.9**	**1.66**	**0.451**	0.0	**0.5**	**0.621**	**158**	**2.06**	0.422 U
		04/08/20	**275**	**18.7**	0.0480 U	**72.2**	**1.61**	**0.721**	0.0	**0.7**	**0.680**	**144**	0.296 U	0.422 U
		07/06/20	**283**	**18.9**	0.0480 U	**70.9**	**1.67**	**0.938**	**0.5**	**0.4**	**0.683**	**233**	0.296 U	0.422 U
MW-311	Alley E of Seattle Roy Aloha Shops	10/10/19	**394**	**45.9**	0.0227 U	**35.0**	**5.31**	**0.349**	0.0	**0.3**	**0.738**	**856**	**40.8**	**10.4**
		01/14/20	**385**	**43.4**	0.0227 U	**14.2**	**5.99**	**0.306**	–	–	**0.793**	**534**	**22.7**	**7.10**
		04/23/20	**385**	**44.1**	0.0480 U	**9.65**	**7.58**	**1.99**	**0.5**	**1.5**	**0.745**	**491**	**14.8**	0.422 U
		07/16/20	**409**	**43.7**	0.0480 U	**8.36**	**7.88**	**5.48**	**1.0**	**4.5**	**0.791**	**633**	**14.2**	0.422 U
MW-314	Alley E of Seattle Roy Aloha Shops	10/10/19	**253**	**24.4**	0.0227 U	**264**	**2.84**	**2.42**	**3.5**	0.0	**1.11**	**377**	**18.6**	0.422 U
		01/15/20	**231**	**18.9**	0.0227 U	**309**	**2.44**	**11.7**	**0.9**	**11**	**1.27**	**290**	**7.67 J**	0.422 U
(dup)		01/15/20	**233**	**19.4**	0.0227 U	**304**	**2.44**	**12.0**	**0.9**	**11**	**1.30**	**303**	0.296 UJ	0.422 U
		04/22/20	**378**	**35.1**	0.0480 U	**190**	**7.12**	**12.1**	**1.5**	**11**	**1.02**	**2,750**	**35.2**	**154**
		07/16/20	**510**	**42.8**	0.0480 U	**94.8**	**14.0**	**6.53**	**2.5**	**4.0**	**1.16**	**4,290**	**70.8**	**178**

Table 15

Groundwater Natural Attenuation Parameters
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Location Description	Sample Date	Alkalinity (mg $CaCO_3$/L)	Chloride (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	TOC (mg/L)	Iron (mg/L)			Total Manganese (mg/L)	Dissolved Gases (µg/L)		
								Total	Ferrous	Ferric		Methane	Ethane	Ethene
MW-316	Mercer St ROW, N side	10/02/19	**384**	**16.9**	0.0227 UJ	**41.8**	**3.78**	**2.58**	**1.0**	**1.6**	**0.328**	**143**	0.296 U	0.422 U
		01/16/20	**331**	**16.9**	0.0227 U	**41.6**	**5.63**	**6.15**	**0.4**	**5.8**	**0.359**	**145**	0.296 U	0.422 U
		04/21/20	**325**	**16.4**	0.0480 U	**58.2**	**1.76**	**3.54**	**0.25**	**3.3**	**0.318**	**350**	0.296 U	0.422 U
		07/24/20	**335**	**15.0**	0.0480 U	**47.9**	**1.87**	**1.95**	**0.5**	**1.5**	**0.258**	**179**	0.296 U	0.422 U
MW-318	9th Ave N ROW, W side	10/08/19	**339**	**24.1**	0.0227 U	**119**	**6.73**	**11.7**	**4.0**	**7.7**	**2.33**	**355**	**12.8**	0.422 U
		01/16/20	**387**	**22.6**	0.0227 U	**118**	4.09	**16.0**	**2.0**	**14**	**2.94**	**2,230**	**18.2**	0.422 U
		04/27/20	**676**	**14.5**	0.0480 U	**5.12**	**7.87**	**14.9**	**3.6**	**11**	**3.55**	**6,720**	**13.9**	0.422 U
		07/30/20	**652**	**12.1**	0.0480 U	**7.79**	**9.46**	**13.5**	**7.0**	**6.5**	**3.03**	**5,380**	0.296 U	0.422 U
MW-322	9th Ave N ROW, W side	10/07/19	**841**	**30.4**	0.0227 U	**21.1**	**19.4**	**43.9**	0.0	**44**	**4.26**	**3,090**	**59.1**	**20.8**
		01/21/20	**676**	**31.1**	0.0227 U	**17.8**	**17.1**	**19.5**	**1.5**	**18**	**1.87**	**3,620**	**107**	0.422 U
		04/29/20	**547**	**30.4**	0.0480 U	**69.9**	**5.49**	**14.6**	**5.6**	**9.0**	**2.32**	**2,360**	**86.6**	**22.2**
		07/07/20	**355**	**22.5**	0.0480 U	**97.0**	**3.71**	**12.8**	5.8	**7.0**	**1.99**	**2,240**	**42.6**	0.422 U
MW-334	900 Roy St, S end	04/24/20	**864**	**17.8**	0.0480 U	**2.48 J**	**6.69**	**13.8**	**6.0**	**7.8**	**0.840**	**23,300**	0.296 U	0.422 U
		07/07/20	**1,280**	**23.5**	0.0480 U	**1.21 J**	**9.92**	**16.2**	5.0	**11**	**0.701**	**32,500**	0.296 U	0.422 U
MW-335	Mercer St ROW, N side	05/01/20	**293**	**17.4**	0.0480 U	**54.1**	**2.90**	**1.31**	**0.8**	**0.5**	**0.721**	**73.7**	0.296 U	0.422 U
		07/08/20	**192**	**20.7**	0.0480 U	**59.4**	**2.02**	**0.171**	0.0	**0.2**	**0.594**	**46.3**	0.296 U	0.422 U
MW-338	Lake Union Park, N end	05/07/20	**604**	**12.4**	0.0480 U	**2.19 J**	**7.16**	**16.4**	**3.0**	**13**	**1.62**	**16,700**	0.296 U	0.422 U
		07/23/20	**464**	**11.6**	0.0480 U	**1.11 J**	**7.83**	**13.8**	**9.0**	**4.8**	**1.02**	**22,700**	0.296 U	0.422 U
MW-340	Lake Union Park, S end	05/12/20	**545**	**12.8**	0.0480 U	**2.31 J**	**6.54**	**14.2**	**6.0**	**8.2**	**1.90**	**19,600**	0.296 U	0.422 U
		07/17/20	**533**	**12.9**	0.0480 U	**0.663 J**	**5.31**	**13.8**	**7.0**	**6.8**	**1.85**	**24,700**	0.296 U	0.422 U
MW-345	SDOT Mercer Parcels	06/01/21	**233**	**50.5**	**0.0647 J**	**55.7**	**2.74**	**0.961**	–	–	**0.125**	**241**	**7.26**	**9.64**
MW-346	SDOT Mercer Parcels	06/02/21	**189**	**54.1**	0.0480 U	**96.4**	**5.57**	**6.57**	–	–	**0.227**	**166**	**14.7**	**10.9 J**
(dup)		06/02/21	**193**	**54.1**	0.0480 U	**96.2**	**5.73**	**6.52**	–	–	**0.228**	**141**	**11.2 J**	**8.86 J**
MW-347	SDOT Mercer Parcels	06/01/21	**226**	**60.4**	0.0480 R	**85.7**	**2.74**	**2.02**	–	–	**0.109**	**55.3**	**19.8**	**34.8**
MW-348	SDOT Mercer Parcels	06/01/21	**233**	**57.3**	**0.0865 J**	**66.9**	**2.09**	**2.05**	–	–	**0.114**	**166**	0.296 U	**13.1**
MW-349	SDOT Mercer Parcels	06/01/21	**233**	**33.7**	0.0480 R	**57.1**	**2.75**	**0.722**	–	–	**0.116**	**184**	0.296 U	0.422 U
MW-350	SDOT Mercer Parcels	06/01/21	**264**	**23.2**	0.0480 R	**59.8**	**2.52**	**2.93**	–	–	**0.191**	**145**	**16.0**	**9.41**
W-MW-01	8th Ave N ROW, W side	03/30/17	**211**	**23.8**	0.023 U	**29.0**	**1.84**	**18.2**	**0.3**	**18**	**0.542**	**367**	**0.757 J**	**1.27 J**
		06/19/17	**250**	**27.6**	**0.0727 J**	**28.3**	**3.00**	**9.48**	–	–	**0.321**	**461**	0.296 U	0.42 U
		04/13/18	**214**	**26.8**	0.0227 U	**61.4**	**2.95**	**20.4**	**0.8**	**20**	**0.717**	**702**	**5.81**	**7.55**
		01/25/19	**235**	**31.7**	0.0227 UJ	**56.9**	**7.93**	**11.1**	**1.5**	**9.6**	**0.552**	**291**	**2.43**	**3.41**
		07/23/19	**242**	**33.2**	0.0227 U	**78.9**	**2.73**	**0.614**	0.0	**0.6**	**0.323**	**327**	**3.96**	**7.04**
		10/15/19	**239**	**31.6**	0.0227 U	**73.8**	**2.49**	**1.16**	0.0	**1.2**	**0.320**	**384**	0.296 U	0.422 U
		01/27/20	**216**	**27.6**	0.0227 U	**66.4**	**2.31**	**0.990**	**0.5**	**0.5**	**0.380**	**292**	0.296 U	0.422 U
		04/03/20	**231**	**28.2**	0.0227 U	**66.3**	**2.08**	**0.389**	**0.5**	**0.0**	**0.288**	**296**	0.296 U	0.422 U
		07/31/20	**232**	**29.5**	**0.168**	**71.4**	**2.44**	**0.498 J+**	–	–	**0.224**	**232**	0.296 U	0.422 U
		11/24/20	–	–	–	**33.3**	**19.9**	**3.68**	**–**	**–**	**0.501**	**1,120**	0.296 U	0.422 U
		02/03/21	–	–	–	**19.3**	**64.9**	**1.16**	**–**	**–**	**0.788**	**2,430**	0.296 U	0.422 U
		05/17/21	–	–	–	**0.600 J**	**27.8**	**10.4**	–	–	**3.36**	**67,000**	0.296 U	0.422 U
W-MW-02	8th Ave N ROW, W side	12/16/13	**240**	**105**	0.025 U	101	–	**0.672**	**0.9**	0.0	**0.676**	**8.91**	5 U	5 U
		03/27/17	**455**	**142**	0.0227 UJ	0.0774 U	**204**	**47.5**	**1.8**	**46**	**4.12**	**6,740**	0.296 U	**8.32**
		06/19/17	**520**	**103**	0.0227 UJ	0.0774 U	**116**	**33.7**	**1.5**	**32**	**2.98**	**16,900**	0.296 U	**3.71**
		06/12/18	**854**	**77.9**	0.0227 R	0.0774 U	**97.7**	**21.1**	**3.4**	**18**	**3.45**	**23,800**	**14.3**	**57.9**
		01/25/19	**876**	**91**	**0.0665 J**	0.0774 U	**33.7**	**20.8**	**2.0**	**19**	**3.71**	**11,300**	**0.67 J**	0.422 U

Table 15

Groundwater Natural Attenuation Parameters
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Location Description	Sample Date	Alkalinity (mg $CaCO_3$/L)	Chloride (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	TOC (mg/L)	Iron (mg/L)			Total Manganese (mg/L)	Dissolved Gases (µg/L)		
								Total	Ferrous	Ferric		Methane	Ethane	Ethene
W-MW-02		04/23/19	**799**	**86.7**	0.0227 U	0.0774 U	**26.1**	**13.4**	**0.5**	**13**	**3.43**	**10,600**	**45.2**	**37.4**
(continued)		07/23/19	**965**	**98.4**	0.0227 U	**3.24 J**	**43.4**	**13.6**	**3.0**	**11**	**3.47**	**25,700**	0.296 U	**15.0**
		10/18/19	**1,230**	**89.5**	0.0227 U	0.0774 U	**37.6**	**20.5**	**3.4**	**17**	**3.82**	**32,100**	**42.0**	4.22 U
		01/28/20	**1,160**	**89.7**	0.0227 U	0.0774 U	**34.3**	**21.9**	**6.0**	**16**	**3.76**	**19,900**	**87.0**	0.422 U
		04/01/20	**1,140**	**82.4**	**0.0263 J**	0.280 U	**33.7**	**16**	**2.5**	**14**	**3.30**	**22,800**	**79.6**	0.422 U
		07/31/20	**1,070**	**77.4**	0.0480 U	0.594 U	**29.3**	**15.6**	–	–	**2.85**	**22,600**	**76.9**	0.422 U
Deep Zone														
FMW-129	SDOT Mercer Parcels, NE quadrant	04/10/17	**308**	**44.2**	0.0227 U	**124**	**2.74**	**0.365**	0.0	**0.4**	**0.402**	**279**	**26.8**	0.422 U
		06/23/17	**296**	**36.1**	**0.0914 J**	**95.5**	**1.70**	**9.92**	**1.0**	**8.9**	**0.412**	**276**	**14.7**	0.422 U
		07/16/19	**221**	**23.7**	**0.771**	**86.8**	**2.23**	**4.6**	–	–	**0.415**	**40.5**	**6.45**	0.422 U
		10/21/19	**209**	**23.6**	**0.639**	**82.4**	**1.52**	**18.9**	**0.5**	**18**	**0.648**	**53.5**	**5.31**	0.422 U
		01/14/20	**201**	**22.6**	**0.787**	**82.4**	**1.42**	**3.33**	0.0	**3.3**	**0.291**	**17.1**	**4.75**	0.422 U
		05/06/20	**313**	**35.6**	0.0480 U	**92.7**	**2.22**	**77.9**	**0.5**	**77**	**1.04**	**160**	**13.6**	0.422 U
		07/10/20	**346**	**37.5**	0.0480 U	**85.8**	**2.21**	**12.9**	**1.0**	**12**	**0.511**	**195**	**13.6**	0.422 U
		11/10/20	–	–	–	**81.2**	**1.61**	**9.18**	–	–	**0.438**	**267**	**22.3**	0.422 U
		02/10/21	–	–	–	**4.17 J**	**1.33**	**0.152**	–	–	**0.0145**	0.287 U	0.296 U	0.422 U
		05/26/21	–	–	–	**114**	**1.69**	**12.4**	–	–	**0.493**	**316**	**36.1**	0.422 U
(dup)		05/26/21	–	–	–	**126**	**1.68**	**10.2**	–	–	**0.469**	**351**	**39.4**	0.422 U
FMW-131	Block 37, SE quadrant	03/24/17	**166**	**6.12**	0.0227 U	**0.738**	**2.18**	**0.598**	**0.5**	**0.1**	**1.03**	**159**	**1.19 J**	0.422 U
		06/23/17	**273**	**28.1**	**0.109**	**29.2**	**1.56**	**2.39**	**0.3**	**2.1**	**1.26**	**87.4**	0.296 U	0.422 U
		10/21/19	**108**	**6.00**	0.0227 U	**2.56 J**	**1.91**	**0.608**	**0.5**	**0.1**	**0.589**	**45.6**	0.296 U	0.422 U
		01/22/20	**160**	**7.02**	0.0227 U	**0.695 J**	**2.35**	**0.422**	**0.5**	0.0	**0.967**	**1,270**	0.296 U	0.422 U
		04/29/20	**375**	**13.1**	0.0480 U	0.594 U	**5.07**	**0.416**	**2.5**	**0.0**	**4.19**	**11,800**	0.296 U	0.422 U
		07/30/20	**133**	**7.13**	0.0480 U	**3.42 J**	**2.81**	**0.365**	0.0	**0.4**	**1.06**	**2,310**	0.296 U	0.422 U
FMW-137	Alley E of Block 38 West	11/06/19	**408**	**24.3**	**0.0331 J**	**37.0**	**3.20**	**0.400**	0.0	**0.4**	**2.67**	0.287 U	0.296 U	0.422 U
		01/22/20	**302**	**20.7**	**0.452**	**36.9**	**2.21**	**0.269**	0.0	**0.3**	**1.73**	**7.37**	0.296 U	0.422 U
		05/06/20	**699**	**44.4**	0.0480 U	**7.18**	**5.80**	**34.6**	**2.5**	**32**	**2.42**	**21.8**	0.296 U	0.422 U
		07/31/20	**721**	**63.4**	0.0480 U	**3.81 J**	**5.55**	**20.2**	**2.8**	**17**	**2.67**	**29.2 J**	0.296 U	0.422 U
FMW-140	900 Roy St, S end	10/31/19	**396**	**17.6**	0.0227 U	**2.99 J**	**16.8**	**0.213**	**0.5**	0.0	**1.02**	**2,440**	**75.1**	**81.1**
		01/22/20	**518**	**28.3**	0.0228 U	**76.3**	**6.09**	**20.6**	**3.5**	**17**	**2.09**	**5,080**	**105**	**39.3**
		04/28/20	**587**	**26.8**	0.0480 U	**47.2**	**7.94**	**22.0**	**4.2**	**18**	**2.56**	**4,640**	**40.3**	**36.3**
		07/07/20	**560**	**29.2**	0.0480 U	**70.5**	**6.72**	**17.7**	**6.0**	**12**	**2.61**	**5,150**	**81.6**	**33**
GEI-2	Block 37, NW quadrant	03/24/17	**420**	**12.5**	0.0227 U	0.0774 U	**8.14**	**24.0**	**0.3**	**24**	**0.898**	**15.1**	0.296 U	0.422 U
		06/23/17	**458**	**23.0**	0.0227 U	0.0774 U	**6.84**	**14.9**	**1.0**	**14**	**0.483**	**10,500**	**23.8**	**42.5**
		07/16/19	**340**	**27.1**	0.0227 U	**36.1**	**6.60**	**7.51**	**1.5**	**6.0**	**0.432**	**4,550**	**15.0**	**11.5**
		10/21/19	**512**	**24.8**	0.0227 U	**47.8**	**343**	**13.2**	**2.2**	**11**	**0.496**	**10,000**	**59.2**	**27.5**
		01/22/20	**414**	**281**	0.0228 U	**64.7**	**3.79**	**7.98**	**2.6**	**5.4**	**4.30**	**5,080**	**3.88**	0.422 U
		04/29/20	**622**	**18.5**	0.0480 U	**1.88 J**	**4.63**	**19.9**	**2.0**	**18**	**0.906**	**56.8**	0.296 U	0.422 U
		07/30/20	**474**	**18.0**	0.0480 U	0.594 U	**3.83**	**12.1**	**5.4**	**6.7**	**0.542**	**12,300**	**10.8**	**65.7**
MW102	Valley St ROW, S side	04/25/18	**160**	**4.99**	**0.0315 J**	**0.880 J**	**1.94**	**9.60**	**1.0**	**8.6**	**0.414**	**0.561**	0.296 U	0.422 U
		01/24/19	**162**	**5.19**	**0.0553 J**	**1.74 J**	**4.36**	**6.46**	0.0	**6.5**	**0.363**	**172**	0.296 U	0.422 U
		05/01/19	**173**	**5.39**	0.0227 U	**0.318 J**	**3.75**	**11.9**	**0.5**	**11**	**0.405**	**255**	**1.07 J**	0.422 U
		07/18/19	**167**	**5.58**	0.0227 U	**1.83 J**	**4.76**	**7.16**	**0.8**	**6.4**	**0.353**	**290**	0.296 U	0.422 U
		11/14/19	**176**	**8.17**	**0.161**	**2.57 J**	**4.19**	**4.01**	0.0	**4.0**	**0.329**	**224**	0.296 U	0.422 U
		01/23/20	**162**	**5.73**	0.0227 U	**3.07 J**	**2.31**	**1.76**	**0.5**	**1.3**	**0.268**	**117**	0.296 U	0.422 U
(dup)		01/23/20	**161**	**5.62**	0.0227 U	**2.93 J**	**2.34**	**1.31**	**0.5**	**0.8**	**0.259**	**154**	0.296 U	0.422 U

Table 15

Groundwater Natural Attenuation Parameters
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Location Description	Sample Date	Alkalinity (mg $CaCO_3$/L)	Chloride (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	TOC (mg/L)	Iron (mg/L)			Total Manganese (mg/L)	Dissolved Gases (µg/L)		
								Total	Ferrous	Ferric		Methane	Ethane	Ethene
MW102		04/02/20	**165**	**5.52**	**0.0300 J**	**4.02 J**	**1.15**	**3.02**	0.0	**3.0**	**0.246**	**10.1**	0.296 U	0.422 U
(continued)		08/04/20	**152**	**5.57**	0.0480 U	**3.74 J**	**1.51**	**1.83**	0.0	**1.8**	**0.220**	**13.6**	0.296 U	0.422 U
(dup)		08/04/20	**151**	**5.56**	0.0480 U	**3.73 J**	**1.18**	**1.41**	0.0	**1.4**	**0.215**	**22.2**	0.296 U	0.422 U
		11/18/20	–	–	–	**3.72 J**	**1.07**	**3.64**	–	–	**0.255**	**15.5**	0.296 U	0.422 U
		02/03/21	–	–	–	**3.75 J**	**1.32**	**2.96**	–	–	**0.200**	**17.4**	0.296 U	0.422 U
		05/14/21	–	–	–	**2.23 J**	**1.36**	**4.77**	–	–	**0.285**	**69.0**	0.296 U	0.422 U
MW103	Alley E of Seattle Roy Aloha Shops	12/18/13	**380**	**48.8**	0.025 U	**0.99**	–	**1.14**	**1.4**	0	**1.10**	**67.5**	**9.14**	**13.5**
		03/23/17	**337**	**48.4**	0.0227 U	**36.3**	**1.97**	**1.68**	**0.3**	**1.4**	**1.09**	**433**	**82.5**	**34.1**
		06/14/17	**339**	**34.7**	0.0227 U	**28.1**	**2.58**	**4.56**	–	–	**0.936**	**863**	**84.6**	**43.1**
		10/14/19	**302**	**27.4**	0.0227 U	**25.0**	**1.55**	**0.948**	**0.5**	**0.4**	**0.870**	**166**	**17.7**	**13.8**
		01/16/20	**296**	**28.6**	0.0227 U	**25**	**1.75**	**7.45**	**1.0**	**6.5**	**1.02**	**284**	**29.1**	**34.3**
		04/23/20	**252**	**17.2**	0.0480 U	**13.3**	**2.77**	**13.5**	**1.0**	**13**	**0.814**	**267**	**10.1**	0.422 U
(dup)		04/23/20	**258**	**17.1**	0.0480 U	**13.5**	**2.44**	**11.3**	**1.0**	**10**	**0.786**	**314**	**12.3**	0.422 U
		07/06/20	**229**	**11.1**	0.0480 U	**8.30**	**2.10**	**24.4**	**0.5**	**24**	**0.864**	**246**	0.296 U	0.422 U
		11/02/20	–	–	–	**5.77**	**1.59**	**24.6**	–	–	**0.888**	**164**	4.07 U	4.26 U
		02/10/21	–	–	–	**9.20**	**1.18**	**9.69**	–	–	**0.592**	**65.2**	0.296 U	0.422 U
		05/03/21	–	–	–	**19.6**	**1.48**	**2.57**	–	–	**0.732**	**157**	**16.4**	**4.02**
MW104	8th Ave N ROW, W side	12/17/13	**310**	**28.9**	0.025 U	**23.1**	–	**5.45**	**5.0**	**0.4**	**0.757**	**25.4**	5 U	5 U
		03/30/17	**253**	**36.0**	0.0227 U	**18.8**	**3.44**	**0.487**	–	–	**0.178**	**170**	**3.35**	**2.71**
		06/30/17	**218**	**11.7**	0.0227 U	**6.05**	**1.68**	**1.77**	0.0	**1.8**	**0.360**	**40.6**	0.296 U	0.422 U
		04/09/18	**224**	**17.2**	0.0227 U	**0.594 J**	**7.13 J**	**0.793**	**0.3**	**0.5**	**0.263**	**398**	0.296 U	**5.71**
		02/01/19	**79.8**	**6.74**	0.0227 U	**5.50**	**6.72**	**37.0**	0.0	**37**	**0.656**	**605**	**2.41**	**29.4**
		04/23/19	**196**	**18.6**	0.0227 U	**5.96**	**5.97**	**5.03**	0.0	**5.0**	**0.285**	**437**	**2.60**	**17.7**
		07/22/19	**201**	**17.0**	0.0227 U	**7.40**	**7.11**	**3.00**	0.0	**3.0**	**0.164**	**375**	**2.94**	**28.6**
		10/18/19	**203**	**13.5**	0.0227 U	**5.97**	**2.3**	**1.33**	0.0	**1.3**	**0.268**	**316**	0.296 U	**23.7**
		01/29/20	**140**	**24.2**	0.0227 U	**6.80**	**26.0**	**2.85**	0.0	**2.9**	**0.114**	**459**	**5.74**	**72.0**
		04/01/20	**196**	**11.6**	0.0227 U	**5.72**	**2.75**	**2.76**	**0.5**	**2.3**	**0.393**	**40.1**	0.296 U	0.422 U
		07/31/20	**185**	**9.27**	0.0480 U	**4.70 J**	**1.92 J+**	**4.11**	–	–	**0.434**	**58.7 J**	0.296 U	0.422 U
(dup)		07/31/20	**185**	**9.01**	0.0480 U	**4.60 J**	**1.79 J+**	**3.53**	–	–	**0.428**	**43.9 J**	0.296 U	0.422 U
		11/17/20	–	–	–	**5.71**	**1.94**	**2.20**	–	–	**0.622**	**135**	0.296 U	0.422 U
		02/10/21	–	–	–	**5.29**	**2.49**	**2.83**	–	–	**0.627**	**139**	0.296 U	0.422 U
MW105	Roy St ROW, S side	12/29/13	**440**	**48.3**	**0.716**	**29.3**	–	**2.91**	**2.0**	**0.9**	**1.24**	**44.5**	5 U	**6.14**
		04/11/18	**257**	**35.7**	0.0227 U	**9.48**	**3.27**	**5.70**	**0.8**	**5.0**	**0.799**	**2,700**	**4.41**	0.422 U
		01/23/19	**210**	**28.1**	0.0227 U	**11.0**	**1.96**	**13.8**	–	–	**0.809**	**286**	0.296 U	**4.19**
		04/23/19	**275**	**37.9**	0.0227 U	**5.81**	**4.06**	**5.27**	**0.5**	**4.8**	**0.893**	**1,660**	0.296 U	0.422 U
		07/17/19	**314**	**34.9**	0.0227 U	**7.66**	**3.38**	**2.29**	–	–	**0.945**	**1,830**	0.296 U	0.422 U
		10/22/19	**330**	**35.0**	0.0227 U	**12.8**	**2.86**	**3.06**	**1.5**	**1.6**	**1.05**	**731**	0.296 U	0.422 U
(dup)		10/22/19	**330**	**35.1**	0.0227 U	**12.8**	**2.90**	**2.59**	**1.5**	**1.1**	**1.03**	**655**	0.296 U	0.422 U
		01/20/20	**300**	**27.8**	0.0227 U	**16.1**	**5.62**	**3.28**	**1.2**	**2.1**	**0.982**	**323**	0.296 U	0.422 U
		05/12/20	**260**	**33.5**	0.0480 U	**16.3**	**3.81**	**1.96**	**0.5**	**1.5**	**0.854**	**61.2**	0.296 U	0.422 U
		07/27/20	**279**	**25.1**	0.0480 U	**15.5**	**2.36**	**3.26**	**1.0**	**2.3**	**0.869**	**45.2**	0.296 U	0.422 U
		11/17/20	–	–	–	**14.5**	**2.55**	**10.8**	–	–	**1.05**	**38.5**	0.296 U	0.422 U
		02/11/21	–	–	–	**12.1**	**3.70**	**4.34**	–	–	**0.732**	**52.4**	0.296 U	0.422 U
		06/07/21	–	–	–	**11.8**	**2.27**	**5.45**	–	–	**0.787**	**38.2**	0.296 U	0.422 U

Table 15

Groundwater Natural Attenuation Parameters
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Location Description	Sample Date	Alkalinity (mg $CaCO_3$/L)	Chloride (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	TOC (mg/L)	Iron (mg/L)			Total Manganese (mg/L)	Dissolved Gases (µg/L)		
								Total	Ferrous	Ferric		Methane	Ethane	Ethene
MW106	SDOT Mercer Parcels, NW quadrant	04/14/17	**309**	**28.7**	0.0227 U	**17.9**	**5.93**	**14.1**	0.0	**14**	**1.08**	**79.5**	0.296 U	**2.62**
		06/30/17	**305**	**27.3**	0.0227 U	**18.0**	**10.0**	**4.96**	0.0	**5.0**	**0.779**	**38.7**	0.296 U	0.442 U
		05/04/18	**283**	**25.0**	0.0227 U	**10.4**	**1.74**	**0.164**	0.0	**0.2**	**0.496**	**77.8**	0.296 U	**10.8**
		04/26/19	**267**	**23.6**	0.0227 U	**15.9**	**3.32**	**3.42**	0.0	**3.4**	**0.695**	**42.1**	0.296 U	0.422 U
		07/19/19	**266**	**24.4**	0.0227 U	**15.0**	**2.23**	**13.7**	0.0	**14**	**0.972**	**39.5**	0.296 U	0.422 U
		10/18/19	**276**	**25.8**	0.0227 U	**17.0**	**2.32**	**2.64**	**0.5**	**2.1**	**0.792**	**47.2**	0.296 U	0.422 U
		01/14/20	**278**	**25.9**	0.0227 U	**17.0**	**2.82**	**12.6**	0.0	**13**	**1.02**	**39.8**	0.296 U	0.422 U
		05/06/20	**272**	**23.9**	0.0480 U	**15.3**	**2.52**	**9.99**	0.0	**10**	**0.904**	**27.3**	0.296 U	0.422 U
(dup)		05/06/20	**276**	**23.7**	0.0480 U	**15.2**	**2.45**	**8.02**	0.0	**8.0**	**0.856**	**26.4**	0.296 U	0.422 U
		07/10/20	**286**	**23.6**	0.0480 U	**15.6**	**1.97**	**6.51**	**0.5**	**6.0**	**0.943**	**47.5**	0.296 U	0.422 U
		11/10/20	**238**	–	–	**17.4**	**1.29**	**5.07**	–	–	**0.696**	**22.4**	0.296 U	0.422 U
(dup)		11/10/20	**232**	–	–	**17.3**	**1.24**	**4.13**	–	–	**0.666**	**24.3**	0.296 U	0.422 U
		02/12/21	–	–	–	**16.1**	**1.17**	**2.94**	–	–	**0.583**	**93.5**	0.296 U	0.422 U
(dup)		02/12/21	–	–	–	**16.2**	**1.15**	**2.88**	–	–	**0.583**	**88.8**	0.296 U	0.422 U
		05/13/21	–	–	–	**3.80 J**	**0.536 J**	**11.1**	–	–	**0.408**	**150**	0.296 U	0.422 U
MW113	9th Ave N ROW, W side	12/19/13	**96**	**23.5**	**0.280**	**17.4**	–	**0.119**	0.0	**0.1**	**0.0248**	5 U	5 U	5 U
		03/22/17	**594**	**65.5**	**0.0295 J**	**55.4**	**27.0**	**7.46**	**4.0**	**3.5**	**0.757**	**3.53**	0.296 U	0.422 U
		06/16/17	**587**	**57.5**	0.0227 U	**41.9**	**18.0**	**14.4**	**1.5**	**13**	**0.990**	**6,520**	**147**	0.422 U
		02/07/19	**551**	**43.9**	**0.0389 J**	**33.3**	**18.8**	**6.1**	**2.5**	**3.6**	**0.659**	**4,050**	**39.9**	**6.30**
		07/17/19	**139**	**152**	**0.992**	**15.1**	**2.38**	**0.786**	**0.3**	**0.5**	**0.0799**	**1,130**	**9.87**	**27.2**
		10/22/19	**561**	**70.4**	**0.146**	**22.1**	**15.8**	**3.38**	**3.6**	0.0	**0.426**	**2,330**	**16.3**	**115**
		01/14/20	**583**	**66.9**	0.0227 U	**24.5**	**16.3**	**6.14**	**–**	**–**	**0.716**	**17,700**	**73.5**	**673**
		04/27/20	**456**	**46.0**	**0.0921 J**	**51.2**	**9.77**	**6.64**	**4.5**	**2.1**	**0.743**	**3,760**	**60.0**	0.422 U
		07/28/20	**396**	**39.2**	0.0480 U	**64.2**	**7.85**	**5.91**	–	–	**0.599**	**3,060**	**59.4**	**16.6**
		11/24/20	–	–	–	**110**	**3.02**	**5.16**	**–**	**–**	**0.420**	**575**	**13.0**	0.422 U
		02/10/21	–	–	–	**4.61 J**	**1.09**	**0.049 J**	**–**	**–**	**0.0129**	0.287 U	0.296 U	0.422 U
		05/25/21	–	–	–	**99.0**	**3.27**	**11.9**	–	–	**0.442**	**1,870**	**34.9**	0.422 U
MW122	Alley E of Seattle Roy Aloha Shops	10/14/19	**182**	**7.8**	**0.0584 J**	**5.82**	**1.19**	**0.348**	0.0	**0.3**	**0.212**	0.287 U	0.296 U	0.422 U
		01/17/20	**177**	**7.56**	0.0227 U	**6.07**	**1.21**	**0.152**	–	–	**0.477**	**149**	0.296 U	0.422 U
		04/07/20	**172**	**6.73**	0.0480 U	**4.92 J**	**1.37**	**0.0655 J**	0.0	**0.1**	**0.205**	0.287 U	0.296 U	0.422 U
		07/24/20	**173**	**6.06**	0.0480 U	**4.37 J**	**1.34**	**0.247**	0.0	**0.2**	**0.376**	**7.78**	0.296 U	0.422 U
MW123 (dup)	Westlake Ave N ROW, W side	10/18/19	**409**	**22.9**	0.0227 U	**5.61**	**5.56**	**5.14**	**2.2**	**2.9**	**1.86**	**4,380**	0.296 U	0.422 U
		10/18/19	**409**	**22.9**	0.0227 U	**5.61**	**5.56**	**5.14**	**2.2**	**2.9**	**1.86**	**4,380**	0.296 U	0.422 U
		01/22/20	**382**	**24.3**	0.0238 U	**33.5**	**5.43**	**4.58**	**4.0**	**0.6**	**1.82**	**2,360**	**4.18**	0.422 U
		05/05/20	**337**	**31**	0.0480 U	**23.0**	**4.77**	**3.46**	**3.0**	**0.5**	**1.4**	**2,740**	0.296 U	0.422 U
		07/30/20	**424**	**22.7**	0.0480 U	**7.32**	**5.43**	**3.95**	**3.5**	**0.5**	**1.71**	**12,200**	0.296 U	0.422 U
MW124	Valley St ROW, S side	12/26/13	**160**	**5.96**	**1.22**	**0.730**	–	**1.46**	**0.4**	**1.1**	**0.125**	5 U	5 U	5 U
		04/13/18	**162**	**4.47**	0.0227 U	**0.46 J**	**2.45**	**20.1**	**0.5**	**20**	**0.757**	**24.6**	0.296 U	0.422 U
		10/11/19	**152**	**6.26**	0.0227 U	**5.92**	**3.78**	**2.24**	0.0	**2.2**	**0.301**	12.3 U	0.296 U	0.422 U
		01/30/20	**232**	**5.40**	**0.0668 J**	**2.12 J**	**2.69**	**5.46**	0.0	**5.5**	**0.347**	**70.8**	0.296 U	0.422 U
		04/03/20	**163**	**4.61**	**0.0269 J**	**0.894 J**	**1.87**	**6.36 J**	0.0	**6.4**	**0.468**	**42.2**	0.296 U	0.422 U
		08/03/20	**167**	**4.60**	0.0480 U	0.594 U	**1.96**	**1.34**	0.0	**1.3**	**0.322**	**30.0**	0.296 U	0.422 U
MW128	Westlake Ave N ROW, E side	03/29/17	**387**	**15.9**	0.0227 U	0.0774 U	**4.84**	**10.5**	**1.8**	**8.7**	**0.227**	**12,600**	**13.2**	**64.8**
		06/21/17	**1,050**	**24.6**	0.0227 U	0.0774 U	**7.81**	**23.0**	–	–	**0.704**	**19,600**	**33.4**	**45.1**
		07/18/19	**601**	**22.3**	0.0227 U	**4.34 J**	**6.94**	**12.4**	–	–	**0.409**	**15,500**	**16.4**	**68.3**

Table 15

Groundwater Natural Attenuation Parameters
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Location Description	Sample Date	Alkalinity (mg $CaCO_3$/L)	Chloride (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	TOC (mg/L)	Iron (mg/L)			Total Manganese (mg/L)	Dissolved Gases (µg/L)		
								Total	Ferrous	Ferric		Methane	Ethane	Ethene
MW128		10/11/19	**746**	**22.6**	0.0227 U	**20.9 J**	**4.2**	**7.95**	**4.5**	**3.5**	**0.207**	**13,100**	**8.49 J**	**23.5 J**
(dup)		10/11/19	**828**	**21.4**	0.0227 U	**14.0 J**	**4.42**	**8.74**	**4.5**	**4.2**	**0.218**	**10,100**	2.96 UJ	4.22 UJ
(continued)		01/20/20	**541**	**23.1**	0.0227 U	1.11 U	**6.92**	**12.1**	**2.0**	**10**	**0.450**	**10,800**	**8.84**	**40.8**
		04/27/20	**497**	**18.6**	0.0480 U	**1.24 J**	**5.07**	**10.5**	**6.0**	**4.5**	**0.385**	**14,200**	**10.4**	**59.2**
		06/29/20	**515**	**18.2**	0.0480 U	0.594 U	**4.10**	**10.4 J**	**3.5**	**6.9**	**0.400 J**	**16,900**	**8.59**	**69.8**
MW-133	Property, SW quadrant	04/25/18	**173**	**9.91**	**0.287**	**1.43 J**	**2.84**	**4.80**	**1.3**	**3.6**	**0.297**	**549**	**5.77**	**17.4**
		Decommissioned March 2019												
MW-137	Property, SW quadrant	04/12/18	**213**	**109.0**	0.0227 R	**10.8**	**2.90**	**218**	**0.8**	**217**	**4.41**	**1,600**	0.296 U	**4.47**
		Decommissioned March 2019												
MW-138	Dexter Ave N ROW, E side	04/11/18	**143**	**13.8**	0.0227 U	**45.9**	**4.89 J**	**21.5**	0.0	**22**	**0.725**	**83.1**	0.296 U	0.422 U
		01/03/19	**125**	**14.1**	0.0227 U	**47.5**	**3.90**	**2.19**	0.0	**2.2**	**0.375**	**61.3**	**0.621 J**	**0.573 J**
		04/22/19	**139**	**14.2**	0.0227 U	**42.7**	**5.70**	**13.2**	–	–	**0.509**	**164**	0.296 U	**1.43**
		07/19/19	**133**	**14.9**	0.0227 U	**53.4**	**1.40**	**11.7**	**0.5**	**11**	**0.560**	**74.2**	0.296 U	0.422 U
		10/21/19	**129**	**14.2**	0.0227 U	**51.9**	**1.10**	**3.83**	**0.5**	**3.3**	**0.504**	**101**	0.296 U	0.422 U
		01/27/20	**137**	**14.1**	0.0227 U	**48.6**	**2.2**	**21.9**	**0.5**	**21**	**0.711**	**564**	0.296 U	0.422 U
		05/08/20	**101**	**10.3**	0.048 U	**36**	1.14	**45**	**0.5**	**45**	**0.895**	**398**	0.296 U	0.422 U
		07/27/20	**122**	**13.8**	0.0480 U	**56.8**	**1.14**	**4.16**	**1.0**	**3.2**	**0.488**	**23.1**	0.296 U	0.422 U
		11/18/20	–	–	–	**45.9**	**0.948 J**	**4.63**	**–**	**–**	**0.452**	**17**	0.296 U	0.422 U
		02/11/21	–	–	–	**48.9**	**1.02**	**9.10**	**–**	**–**	**0.460**	**26.7**	0.296 U	0.422 U
		06/07/21	–	–	–	**41.8**	0.921 U	**14.2**	–	–	**0.424**	**42.0**	0.296 U	0.422 U
MW-140	Roy St ROW, N side	04/12/18	**249**	**15.5**	0.0227 R	**5.73**	**2.40**	**15.0**	**0.3**	**15**	**0.795**	**261**	0.296 U	0.422 U
		Decommissioned												
MW-141	Property, SE quadrant	04/12/18	**179**	**9.64**	0.0227 R	**7.49**	**4.30**	**4.61**	–	–	**0.556**	**2,690**	**3.29**	**0.869 J**
		Decommissioned March 2019												
MW-153	Roy St ROW, S side	05/01/18	**148**	**24**	0.0227 U	**23.7**	**1.26**	**1.01**	–		**0.187**	**74.3**	0.296 U	0.422 U
		01/22/19	**156**	**9.91**	0.0227 U	**13.2**	**1.92**	**3.01**	0.0	**3.0**	**0.299**	**387**	0.296 U	**4.89**
		04/24/19	**174**	**9.4**	0.0227 U	**9.23**	**3.86**	**3.60 J**	0.0	**3.6**	**0.385**	**412**	0.296 U	**1.79**
(dup)		04/24/19	**170**	**9.16**	0.0227 U	**8.91**	**4.62**	**1.59 J**	0.0	**1.6**	**0.305**	**434**	0.296 U	**0.422 U**
		07/22/19	**160**	**8.31**	0.0227 U	**6.78**	**1.84**	**1.67**	0.0	**1.7**	**0.325**	**27**	0.296 U	0.422 U
		10/15/19	**174**	**10.5**	0.0227 U	**8.29**	**2.32**	**6.77**	–	–	**0.420**	**20.2**	0.296 U	0.422 U
		01/21/20	**166**	**10.7**	0.0248 U	**8.49**	**2.72**	**0.799**	0.0	**0.8**	**0.317**	**8.66**	0.296 U	0.422 U
		04/30/20	**140**	**7.3**	0.0480 U	**6.23**	**0.843 J**	**7.79**	0.0	**7.8**	**0.420**	0.287 U	0.296 U	0.422 U
		07/15/20	**150**	**7.49**	**0.0509 J**	**6.67**	**0.957 J**	**2.42**	0.0	**2.4**	**0.597**	**39.7**	0.296 U	0.422 U
		11/09/20	**142**	–	–	**11.2**	**0.956 J**	**2.68**	**–**	**–**	**0.327**	**32.7**	0.296 U	0.422 U
		02/09/21	–	–	–	**11.0**	**0.955 J**	**0.382**	**–**	**–**	**0.313**	**103**	0.296 U	0.422 U
(dup)		02/09/21	–	–	–	**10.8**	**0.907 J**	**0.560**	**–**	**–**	**0.315**	**105**	0.296 U	0.422 U
		05/10/21	–	–	–	**9.43**	**1.15**	**8.36**	–	–	**0.474**	**113**	0.296 U	**4.17**
MW-158A	8th Ave N ROW, E side	04/30/18	**345**	**113**	**0.446**	**278**	**54.8**	**55.4**	**0.5**	**55**	**1.04**	**352**	**15.7**	**11.0**
		01/24/19	**329**	**29.7**	0.0227 U	**26.8**	**7.95**	**181**	0.0	**181**	**3.07**	**196**	**2.52**	**8.12**
		04/25/19	**345**	**26.7**	0.0227 U	**21.1**	**8.11**	**12.4 J**	–	–	**0.393 J**	**177**	0.296 U	**4.74**
		07/19/19	**330**	**26.9**	0.0227 U	**19.8**	**4.64**	**69.2**	0.0	**69**	**1.37**	**222**	0.296 U	**5.86**
		10/16/19	**327**	**24.5**	**0.0330 J**	**20.4**	**4.46**	**5.46**	–	–	**0.350**	**115**	**20.1**	**7.24**
		01/21/20	**319**	**25.3**	0.0255 U	**19.8**	**1.19**	**4.54**	–	–	**0.326**	**187**	**2.06**	**9.78**
		04/24/20	**333**	**23.9**	0.0480 U	**13.0**	**3.14**	**6.38**	0.0	**6.4**	**0.326**	**88.4**	0.296 U	**9.01**
		07/15/20	**323**	**24.0**	0.0480 U	**16.6**	**2.99**	**7.46**	0.0	**7.5**	**0.422**	**91.2**	0.296 U	0.422 U
		11/23/20	–	–	–	**12.7**	**5.49**	**9.60**	**–**	**–**	**0.412**	**1,110**	0.296 U	0.422 U

Table 15

Groundwater Natural Attenuation Parameters
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Location Description	Sample Date	Alkalinity (mg $CaCO_3$/L)	Chloride (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	TOC (mg/L)	Iron (mg/L)			Total Manganese (mg/L)	Dissolved Gases (µg/L)		
								Total	Ferrous	Ferric		Methane	Ethane	Ethene
MW-158A (continued)		02/02/21	–	–	–	19.2	4.82	12.0	–	–	0.697	1,070	0.296 U	0.422 U
		05/10/21	–	–	–	16.7	3.82	17.3	–	–	0.551	1,180	0.296 U	0.422 U
MW-160	8th Ave N ROW, W side	05/21/18	186	10.7	0.0703 J	2.68 J	1.47	12.3	0.0	12	0.400	129	14.5	4.75
		01/25/19	134	10.7	0.0227 U	1.87 J	3.98	59.1	0.5	59	1.22	766	11.7	0.422 U
		05/01/19	197	10.5	0.0227 U	1.26 J	3.79	4.60	0.0	4.6	0.387	1,070	4.41	0.422 U
		07/23/19	182	8.28	0.0227 U	2.64 J	1.95	2.68	0.5	2.2	0.408	535	0.296 U	0.422 U
		10/17/19	183	8.21	0.0227 U	2.06 J	2.31	10.5	0.8	9.7	0.522	537	0.296 U	0.422 U
		01/29/20	172	8.94	0.0227 U	2.30 J	6.59	0.769	0.0	0.8	0.324	294	6.02	0.422 U
		04/01/20	182	7.59	0.0249 J	3.29 J	3.41	20.7	0.0	21	0.569	621	2.24	0.422 U
		08/03/20	173	6.84	0.0480 U	3.08 J	1.71	2.26	0.5	1.8	0.474	817	0.296 U	0.422 U
		11/30/20	–	–	–	3.65 J	1.66	0.937	–	–	0.453	318	0.296 U	0.422 U
		02/04/21	–	–	–	3.12 J	1.68	2.37	–	–	0.404	305	4.07 U	4.26 U
		05/12/21	–	–	–	2.77 J	1.59	18.5	–	–	0.677	407	0.296 U	0.422 U
MW-161	8th Ave N ROW, W side	05/21/18	294	25.0	0.0227 U	13.5	1.49	9.37	0.0	9.4	0.758	53.4	2.64	0.979 J
		01/25/19	282	25.5	0.0227 UJ	13.4	4.52	7.34	0.0	7.3	0.784	69.0	0.296 U	0.422 U
		05/01/19	293	25.5	0.0227 U	12.2	1.58	5.73	0.0	5.7	0.795	98.1	0.296 U	0.422 U
		07/18/19	284	26.5	0.0227 U	14.1	1.61	1.30	0.0	1.3	0.694	139	0.296 U	0.422 U
		10/14/19	289	26.0	0.0227 U	14.4	1.28	1.39	0.0	1.4	0.737	226	0.296 U	0.422 U
		01/28/20	257	22.7	0.0227 U	11.8	1.58	1.20	0.3	0.9	0.704	234	0.296 U	0.422 U
		04/03/20	233	16.6	0.0227 U	8.28	1.43	0.318	0.5	0.0	0.599	528	0.296 U	0.422 U
		07/31/20	224	15.1	0.101	7.86	2.70	0.300 J+	0.0	0.3	0.814	193	0.296 U	0.422 U
		12/01/20	–	–	–	7.40	2.69	0.253	–	–	0.810	167	0.296 U	0.422 U
		02/04/21	–	–	–	6.91	2.35	0.508	–	–	0.704	149	4.07 U	4.26 U
		05/25/21	–	–	–	7.26	1.90	0.594	–	–	0.741	260	0.296 U	0.422 U
MW-304	Dexter Ave N ROW, E side	10/21/19	153	12.1	0.0227 U	16.2	4.24	5.82	0.0	5.8	0.455	31.9	0.296 U	0.422 U
		01/27/20	142	11.6	0.0227 U	13.2	3.03	9.62	0.5	9.1	0.562	34.6 J+	0.296 U	0.422 U
		05/07/20	146	10.5	0.0480 U	11.0	1.63	14.2	0.7	14	0.609	324	0.296 U	0.422 U
		07/27/20	148	11.3	0.0480 U	13.4	1.97	3.07	0.1	3.0	0.420	116	0.296 U	0.422 U
MW-319	9th Ave N ROW, W side	10/08/19	234	16.5	0.0227 U	85.0	1.68	4.30	3.5	0.8	0.854	152	0.296 U	0.422 U
		01/16/20	241	18.2	0.0227 U	82.0	1.63	4.11	3.0	1.1	0.962	166	0.296 U	0.422 U
		04/27/20	250	18.8	0.0480 U	82.0	1.99	4.29	–	–	0.859	197	0.296 U	0.422 U
		07/27/20	241	17.4	0.0480 U	79.8	1.81	2.88	2.5	0.4	0.830	118	0.296 U	0.422 U
MW-323	9th Ave N ROW, W side	10/09/19	135	11.5	1.61	13.8	0.964 U	0.273	0.0	0.3	0.160	75.5	12.3	3.27
		01/20/20	348	37.1	0.0227 U	32.8	4.16	5.10	2.5	2.6	1.11	309	47.9	0.422 U
		04/23/20	320	25.3	0.0480 U	24.5	1.71	2.73	2.4	0.3	0.878	69.8	0.296 U	0.422 U
		07/07/20	330	25.0	0.0636 J	22.1	1.59	7.84	2.8	5.0	0.668	192	7.56	0.422 U
MW-324	Roy St ROW, N side	10/02/19	587	20.1	0.0227 UJ	93.1	13.1	5.74	2.0	3.7	0.374	3,340	13.4	22.4
		01/20/20	606	28.3	0.0227 U	47.6	10.9	3.92	4.4	0.0	1.20	4,830	6.70	28.7
		04/24/20	608	49.9	0.0480 U	64.4	12	8.48	4.0	4.5	1.87	5890	50.5	114
		07/07/20	618	54.1	0.0480 U	45.8	14.8	8.69	4.0	4.7	1.64	5,880	73.4	93.7
MW-326	Mercer St ROW, N side	10/03/19	209	17.1	0.0227 UJ	89.7	12.9	2.63	0.5	2.1	0.347	99.4	25.0	8.23
		01/17/20	211	17.9	0.0227 U	63.6	2.79	1.3	0.8	0.5	0.488	13.3	2.01	0.422 U
		04/21/20	242	20.4	0.0480 U	50.8	1.07	4.02	2.0	2.0	0.485	16.5	0.296 U	0.422 U
		07/23/20	271	23.1	0.0480 U	49.9	1.29	6.53	4.5	2.0	0.470	20.9	0.296 U	0.422 U

Table 15

Groundwater Natural Attenuation Parameters
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Location Description	Sample Date	Alkalinity (mg $CaCO_3$/L)	Chloride (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	TOC (mg/L)	Iron (mg/L)			Total Manganese (mg/L)	Dissolved Gases (µg/L)		
								Total	Ferrous	Ferric		Methane	Ethane	Ethene
MW-328	Lake Union Park, S end	10/02/19	**683**	**17.7**	0.0227 UJ	**0.787 J**	**8.75**	**20.3**	**4.0**	**16**	**0.755**	**23,700**	0.296 U	**36.8**
		01/17/20	**672**	**17.7**	0.0227 U	0.0774 U	**5.00**	**16.2**	**2.5**	**14**	**0.397**	**23,800**	**3.99**	**32.9**
		04/08/20	**708**	**17**	0.0480 U	0.594 U	**3.90**	**13.7**	**3.6**	**10**	**0.348**	**22,900**	**7.44**	**28.4**
		07/07/20	**574**	**15.1**	0.0480 U	0.594 U	**3.69**	**9.97**	**5.5**	**4.5**	**0.243**	**25,300**	**12.6**	0.422 U
MW-329	Westlake Ave N ROW, E side	10/03/19	**581**	**56.1**	0.0227 UJ	**11.4**	**4.82**	**7.71**	**4.0**	**3.7**	**2.21**	**591**	**19.9**	0.422 U
(dup)		10/03/19	**589**	**56.1**	0.0227 UJ	**11.4**	**5.05**	**8.06**	**4.0**	**4.1**	**2.26**	**716**	**23.4**	0.422 U
		01/20/20	**506**	**52.6**	0.0227 U	**14.8**	**4.61**	**4.83**	**1.5**	**3.3**	**2.30**	**1,020**	**25.9**	0.422 U
		04/27/20	**457**	**39**	0.0480 U	**14.4**	**3.50**	**11.1**	**2.5**	**8.6**	**2.14**	**955**	**24.2**	0.422 U
		08/03/20	**447**	**35.5**	0.0480 U	**14.0**	**3.59**	**7.75**	**3.0**	**4.8**	**2.13**	**630**	**15.7**	0.422 U
MW-336	Mercer St ROW, N side	05/05/20	**511**	**37.5**	0.0480 U	**74.3**	**3.58**	**10.5**	**6.5**	**4.0**	**0.596**	**271**	0.296 U	0.422 U
		07/08/20	**465**	**36.4**	0.0480 U	**72.1**	**2.68**	**7.72**	**4.0**	**3.7**	**0.462**	**343**	**7.16**	0.422 U
MW-341	Lake Union Park, S end	05/12/20	**378**	**19.1**	0.0480 U	**16.5**	**4.91**	**9.23**	**3.0**	**6.2**	**0.819**	**1,450**	**11.1**	0.422 U
		07/07/20	**404**	**19.8**	0.0480 U	**7.30**	**3.91**	**6.95**	**5.5**	**1.5**	**0.889**	**2,790**	**6.33**	0.422 U
MW-342	Valley St ROW, S side	05/04/20	**174**	**14.2**	**0.351**	**9.65**	**2.68**	**1.13**	0.0	**1.1**	**0.438**	**1,040**	0.296 U	0.422 U
		07/30/20	**227**	**8.07**	0.0480 U	0.594 U	**4.82**	**10.2**	**3.5**	**6.7**	**0.934**	**11,400**	0.296 U	0.422 U
MW-343	Valley St ROW, S side	05/04/20	**695**	**108**	0.0480 U	**2.93 J**	**4.30**	**14.8**	**6.5**	**8.3**	**6.30**	**70.4**	0.296 U	0.422 U
		07/30/20	**697**	**109**	0.0480 U	**2.43 J**	**3.95**	**11.7**	**4.3**	**7.5**	**6.23**	**68.5**	0.296 U	0.422 U
Perimeter Injection Zone A														
PRB-A1	8th Ave N ROW, W side	09/15/20	**373**	**27.6**	0.0480 U	**63.4**	**8.92**	**12.7**	**2.0**	**11**	**1.65**	**2,350**	**26.4**	**17.1**
PRB-A5	8th Ave N ROW, W side	09/17/20	**543**	**20**	0.0480 U	**75.4**	**14.2**	**9.04**	**3.8**	**5.2**	**2.09**	**12,900**	**65.6**	**70.3**
PRB-A11	8th Ave N ROW, W side	09/16/20	**271**	**30.5**	0.0480 U	**37.4 J**	**5.62**	**7.35 J**	**–**	–	**0.905**	**1,170 J**	**56.2 J**	**27.6 J**
(dup)		09/16/20	**252**	**31.1**	0.0480 U	**34.2 J**	**5.67**	**4.79 J**	**1.8**	**3.0**	**0.823**	**1,710 J**	**69.7 J**	**37.1 J**
PRB-A14	Roy Street ROW, N side	09/17/20	**234**	**26.2**	0.0480 U	**201**	**2.48**	**2.63**	**–**	–	**0.565**	**419**	0.296 U	**27.6**
PRB-A17	Roy St ROW, N side	09/15/20	**284**	**26.5**	0.0480 U	**57.6**	**2.37**	**5.32**	**2.6**	**2.7**	**2.12**	**3,010**	0.296 U	**69.9**
PRB-A19	Roy St ROW, N side	09/14/20	**236**	**26.4**	0.0480 U	**34.2**	**2.06**	**5.21**	**3.5**	**1.7**	**0.735**	**6,380**	0.296 U	0.422 U
PRB-A23	Roy St ROW, N side	09/14/20	**382**	**28.9**	0.0480 U	**4.31 J**	**29.7**	**13.3**	**3.2**	**10**	**2.33**	**25,400**	**589**	**259**
Perimeter Injection Zone B														
PRB-B1	8th Ave N ROW, W side	09/15/20	**245**	**21**	0.0480 U	**90.7**	**8.30**	**5.14**	**1.4**	**3.7**	**1.74**	**558**	**7.5**	0.422 U
PRB-B4	8th Ave N ROW, W side	09/17/20	**696**	**58.7**	0.0480 U	**44.3**	**30.7**	**22.2**	**5.5**	**17**	**1.91**	**29,100**	**609**	**671**
PRB-B11	8th Ave N ROW, W side	09/16/20	**450**	**53.8**	0.0480 U	**189**	**4.77**	**5.40**	**1.8**	**3.6**	**0.812**	**1,480**	**277**	**211**
PRB-B14	Roy St ROW, N side	09/14/20	**408**	**67.1**	0.0480 U	**61.3**	**7.36**	**2.44**	**0.6**	**1.8**	**0.723**	**5,080**	**65**	**650**
PRB-B17	Roy St ROW, N side	09/15/20	**144**	**99.5**	0.0480 U	**79.4**	**6.39**	**2.11**	**0.0**	**2.1**	**0.462**	**906**	0.296 U	0.422 U
PRB-B19	Roy St ROW, N side	09/18/20	**255**	**30.9**	0.0480 U	**26.6**	**5.33**	**4.26**	**0.4**	**3.9**	**0.680**	**54.7**	0.296 U	0.422 U
PRB-B23	Roy St ROW, N side	09/18/20	**433**	**45.3**	0.0480 U	**62.0**	**37.0**	**4.45**	**0.4**	**4.1**	**0.416**	**10,800**	0.296 U	**2,010**
Perimeter Injection Zone C														
PRB-C1	8th Ave N ROW, W side	09/15/20	**271**	**31.9**	0.0480 U	**6.28**	**3.10**	**2.84**	**0.0**	**2.8**	**0.299**	**855**	0.296 U	**8.18**
PRB-C5	8th Ave N ROW, W side	09/17/20	**590**	**31.1**	0.0480 U	**60.5**	**16.0**	**4.92**	**1.6**	**3.3**	**0.778**	**11,200**	**58.1**	**112**
PRB-C11	8th Ave N ROW, W side	09/16/20	**235**	**23**	0.0480 U	**45.2**	**1.99**	**13.6**	**0.4**	**13**	**0.545**	**763**	**3.36**	**7.63**
PRB-C14	Roy Street ROW, N side	09/17/20	**227**	**47.2**	0.0480 U	**88.3**	**3.06**	**6.24**	**0.4**	**5.8**	**0.240**	**266**	0.296 U	**8.29**
PRB-C17	Roy St ROW, N side	09/15/20	**95.7**	**92.4**	0.0480 U	**85.8**	**18.1**	**15.4**	**0.4**	**15**	**1.07**	**1,260**	0.296 U	**8.21**

Table 15

Groundwater Natural Attenuation Parameters
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Location Description	Sample Date	Alkalinity (mg $CaCO_3$/L)	Chloride (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	TOC (mg/L)	Iron (mg/L)			Total Manganese (mg/L)	Dissolved Gases (µg/L)		
								Total	Ferrous	Ferric		Methane	Ethane	Ethene
PRB-C19	Roy St ROW, N side	09/14/20	**184**	**16.3**	0.0480 U	**18.5**	**1.30**	**2.37**	**0.0**	**2.4**	**0.219**	**319**	0.296 U	0.422 U
PRB-C23	Roy St ROW, N side	09/14/20	**266**	**33.6**	0.0480 U	**71.9**	**5.19**	**4.14**	**0.6**	**3.5**	**0.378**	**2,980**	0.296 U	0.422 U
Perimeter Injection Zone D														
PRB-D1	8th Ave N ROW, W side	09/15/20	**277**	**22.5**	0.0480 U	**26.0**	**2.49**	**5.26**	**0.0**	**5.3**	**0.493**	**835**	0.296 U	0.422 U
PRB-D4	8th Ave N ROW, W side	09/17/20	**713**	**56.7**	0.0480 U	**48.0**	**32.7**	**19.1**	**5.0**	**14**	**1.96**	**19,800**	**343**	**468**
PRB-D11	8th Ave N ROW, W side	09/16/20	**238**	**24.7**	0.0480 U	**112**	**3.97**	**2.80**	–	–	**0.749**	**2,350**	0.296 U	**15.2**
PRB-D13	Roy St ROW, N side	09/18/20	**200**	**22.8**	0.0480 U	**149**	**2.11**	**15.3**	–	–	**0.756**	**453**	0.296 U	0.422 U
PRB-D17	Roy St ROW, N side	09/21/20	**261**	**39**	0.0480 UJ	**20.0**	**6.53**	**8.34**	**1.1**	**7.2**	**1.06**	**10,500**	**9.58**	**671**
PRB-D20	Roy St ROW, N side	09/18/20	**230**	**25.7**	0.0480 U	**25.7**	**4.98**	**4.41**	**0.4**	**4.0**	**1.41**	**420**	0.296 U	0.422 U
PRB-D23	Roy St ROW, N side	09/18/20	**173**	**27.9**	**0.0503 J**	**6.65**	**2.53**	**17.4 J**	–	–	**0.395**	**48.4**	0.296 U	0.422 U
(dup)		09/18/20	**176**	**28.5**	0.0480 U	**6.43**	**2.96**	**9.58 J**	–	–	**0.268**	2.87 U	**16.3**	**170**
Treatment Zone A														
MW-165	Property, NE quadrant	11/04/19	**1,060**	**51.2**	0.0227 U	**57.2**	**121**	**60.6**	**4.0**	**57**	**5.26**	**12,000**	**370**	**151**
		01/30/20	**1,340**	**41.1**	0.0227 U	**12.9**	**88.7**	**48.1**	**4.5**	**44**	**7.47**	**21,000**	**221**	**69.4**
		05/01/20	**1,350**	**84.8**	0.0480 U	**1.72 J**	**100**	**50.7**	**3.0**	**48**	**7.36**	**2,590**	**84.5**	0.422 U
		07/09/20	**1,410**	**80.8**	0.0480 U	**7.66**	**89.2**	**41.3**	**6.0**	**35**	**7.57**	**20,000**	**476**	**139**
		11/05/20	–	–	–	**2.64 J**	**83.2**	**44.7**	–	–	**6.92**	**28,200**	**529**	**499**
(dup)		11/05/20	–	–	–	**2.65 J**	**83.3**	**44.6**	–	–	**7.03**	**29,500**	**549**	**532**
		05/06/21	–	–	–	0.594 U	**40.1**	**26.6**	–	–	**4.86**	**25,900**	**571**	**1,240**
MW-169	Property, SW quadrant	11/05/19	**577**	**149**	0.0227 U	**0.333 J**	**19.9**	**6.15**	**2.5**	**3.7**	**0.832**	**19,600**	**299**	**883**
		01/23/20	**584**	**145**	0.0227 U	**1.85 J**	**17.2**	**9.29**	**3.0**	**6.3**	**0.978**	**25,600**	**396**	**1,110**
		05/05/20	**601**	**147**	**0.225**	0.594 U	**19.2**	**5.10**	**2.0**	**3.1**	**0.821**	**18,700**	**336**	**1,180**
		07/10/20	**627**	**149**	0.0480 U	0.594 U	**16.9**	**11.3**	**4.2**	**7.1**	**0.883**	**21,600**	**393**	**866**
		11/03/20	–	–	–	**31.5**	**32.5**	**5.75**	–	–	**1.05**	**21,100**	**352**	**139**
		05/07/21	–	–	–	**9.36**	**19.7**	**4.22**	–	–	**1.36**	**7,940**	**68.6**	**25.8**
MW-173	Property, SE quadrant	11/01/19	**472**	**51.7**	0.0227 U	**60.6**	**14.8**	**2.86**	**1.5**	**1.4**	**0.38**	**7,530**	**38.2**	**124**
		01/28/20	**442**	**38.9**	0.0227 U	**36.0**	**16.4**	**3.08**	**2.0**	**1.1**	**0.685**	**22.2**	**65.1**	**126**
		05/01/20	**484**	**46.6**	0.0480 U	**7.09**	**20.5**	**1.32**	**1.0**	**0.3**	**0.835**	**17,700**	**71.6**	**117**
		07/09/20	**524**	**48.9**	0.0480 U	**4.94 J**	**17.2**	**1.55**	**1.4**	**0.2**	**1.04**	**20,300**	**173**	**135**
MW-177	Property, SW quadrant	11/06/19	**589**	**285**	0.0227 U	**96.2**	**56.3**	**32.2**	**3.1**	**29**	**4.13**	**22,500**	**17.8**	**4,000**
		01/24/20	**511**	**241**	0.0227 U	**67.4**	**14.2**	**20.2**	–	–	**3.15**	**3,010**	**102**	**3,640**
		04/01/20	**588**	**282**	0.0227 U	**60.7**	**26.7**	**19.8**	**5.0**	**15**	**3.21**	**21,300**	**122**	**2,410**
		07/10/20	**670**	**254**	0.0480 U	**90.4**	**30.3**	**17.5**	**3.0**	**15**	**3.17**	**25,700**	**129**	**2,080**
		11/03/20	–	–	–	**55.4**	**17.4**	**6.26**	–	–	**1.32**	**28,400**	**472**	**2,990**
		05/06/21	–	–	–	**21.4**	**11.3**	**6.31**	–	–	**0.895**	**30,100**	**561**	**2,540**

Table 15

Groundwater Natural Attenuation Parameters
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Location Description	Sample Date	Alkalinity (mg $CaCO_3$/L)	Chloride (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	TOC (mg/L)	Iron (mg/L)			Total Manganese (mg/L)	Dissolved Gases (µg/L)		
								Total	Ferrous	Ferric		Methane	Ethane	Ethene
MW-181	Property, SW quadrant	11/08/19	**605**	**161**	0.0227 U	**0.449 J**	**26.5**	**3.74**	**2.0**	**1.7**	**1.09**	**14,300**	**18.7**	**2,870**
		01/27/20	**586**	**169**	0.0227 U	0.749 U	**46.4**	**11.4**	**4.4**	**7.0**	**1.87**	**17,500**	**7.62**	**2,370**
		04/01/20	**553**	**185**	**0.0274 J**	0.337 U	**22.4**	**9.12**	**5.2**	**3.9**	**1.45**	**17,700**	**24.3**	**2,620**
		07/08/20	**581**	**161**	0.0480 U	0.594 U	**21.8**	**10.1**	**4.0**	**6.1**	**1.36**	**22,700**	**29.4**	**2,140**
		11/04/20	–	–	–	**13.0**	**36.3**	**12.9**	–	–	**1.51**	**29,900**	**29.1**	**3,720**
(dup)		11/04/20	–	–	–	**11.6**	**36.00**	**13.2**	–	–	**1.55**	**28,500**	**36.5**	**3,810**
		05/06/21	–	–	–	**1.42 J**	**32.7**	**7.46**	–	–	**1.35**	**34,400**	**178**	**7,110**
MW-185	Property, SE quadrant	10/31/19	**731**	**116**	0.0227 U	**38.1**	**51.4**	**9.91**	**2.5**	**7.4**	**1.63**	**10,300**	**9.69**	**232**
		01/29/20	**1,120**	**150**	0.0227 U	**0.112 J**	**38.7**	**18.5**	**3.0**	**16**	**3.42**	**37,000**	**213**	0.422 U
		04/02/20	**1,190**	**157**	0.0227 U	0.273 U	**20**	**25.2**	**6.2**	**19**	**3.41**	**23,300**	**227**	0.422 U
		07/08/20	**762**	**109**	0.0480 U	0.594 U	**18.7**	**13.1**	**5.5**	**7.6**	**1.64**	**28,500**	**288**	0.422 U
Treatment Zone B														
MW-166	Property, NE quadrant	11/04/19	**948**	**93.8**	0.0227 U	**13.6**	**122**	**54.5**	**5.0**	**50**	**2.11**	**14,300**	**67.6**	**2,500**
		01/30/20	**871**	**77.3**	**0.0863 J**	0.0774 U	**95.7**	**41.5**	**4.0**	**38**	**2.06**	**22,800**	**772**	**987**
		05/01/20	**893**	**87.3**	0.0480 U	0.594 U	**45.5**	**34.3**	**3.0**	**31**	**1.92**	**19,200**	**608**	**162**
		07/09/20	**701**	**55.3**	0.0480 U	0.594 U	**18.8**	**18.7**	**7.0**	**12**	**1.35**	**39,200**	**431**	**132**
(dup)		07/09/20	**717**	**55.8**	0.0480 U	0.594 U	**19.3**	**18.9**	**7.0**	**12**	**1.34**	**30,000**	**505**	**158**
		11/05/20	–	–	–	**4.67 J**	**42.2**	**36.6**	–	–	**2.03**	**34,500**	**940**	**1,890**
		05/05/21	–	–	–	**9.62**	**46.4**	**32.3**	–	–	**1.46**	**17,100**	**641**	**1,570**
MW-170	Property, SW quadrant	11/05/19	**506**	**178**	0.0227 U	**112**	**22.9**	**1.87**	**1.1**	**0.8**	**0.947**	**10,000**	**62**	**1,120**
		01/23/20	**484**	**162**	0.0227 U	**60.9**	**19.6**	**8.24**	**3.0**	**5.2**	**1.03**	**7,530**	**42.7**	**868**
		04/02/20	**488**	**174**	0.0227 U	**41.1**	**16.7**	**10.8**	**4.5**	**6.3**	**1.05**	**9,400**	**44.8**	**986**
		07/09/20	**481**	**186**	0.0480 U	**16.9**	**13.2**	**12.1**	**5.5**	**6.6**	**1.22**	**13,000**	**31.5**	**1,120**
		11/03/20	–	–	–	**49.7**	**19.3**	**4.32**	–	–	**1.04**	**14,800**	**44.0**	**2,390**
		05/07/21	–	–	–	**16.9**	**14.6**	**2.57**	–	–	**1.02**	**31,400**	**52.0**	**1,990**
MW-174	Property, SE quadrant	11/01/19	**593**	**99.3**	0.0227 U	**17.8**	**15.3**	**9.63**	**3.0**	**6.6**	**1.73**	**21,600**	**214**	**165**
		01/28/20	**328**	**29.7**	0.0227 U	**11.1**	**5.28**	**9.95**	**3.0**	**7.0**	**0.710**	**1,720**	**111**	0.422 U
		05/01/20	**409**	**30.3**	0.0480 U	**1.79 J**	**4.7**	**18.1**	**5.0**	**13**	**0.800**	**16,800**	**86.5**	0.422 U
		07/09/20	**384**	**26.3**	0.0480 U	**8.34**	**3.94**	**6.28**	**3.8**	**2.5**	**0.761**	**16,700**	**82.3**	0.422 U
MW-178	Property, SW quadrant	11/06/19	**1,740**	**170**	0.0227 U	0.387 U	**827**	**39.3**	**3.5**	**36**	**8.53**	**17,600**	**71.9**	**7,880**
		01/24/20	**1,810**	**178**	**0.0401 J**	0.0774 U	**43.8**	**65.8**	**6.0**	**60**	**7.47**	**2,240**	**784**	**114**
		04/02/20	**1,890**	**185**	**0.0376 J**	0.0774 U	**84.2**	**57.2**	**6.5**	**51**	**4.61**	**7,150**	**417**	**39.6**
		07/10/20	**2,040**	**201**	0.0480 U	0.594 U	**68.3**	**58.8**	**3.5**	**55**	**2.49**	**22,200**	**679**	0.422 U
		11/03/20	–	–	–	**0.737 J**	**59.5**	**26.2**	–	–	**3.78**	**26,500**	**382**	**495**
		05/06/21	–	–	–	**0.594 U**	**26.6**	**14.8**	–	–	**2.72**	**27,400**	**544**	**2,160**
MW-182	Property, SW quadrant	11/08/19	**1,610**	**146**	**0.0389 J**	**3.44 J**	**198**	**86.8**	**3.0**	**84**	**7.64**	**12,600**	**22.2**	**4,150**
		01/27/20	**1,310**	**128**	0.0227 U	**29.6**	**293**	**72.7**	**6.0**	**67**	**8.11**	**17,500**	**5.57**	**4,990**
		04/01/20	**1,290**	**137**	0.0227 U	**22.3**	**75.7**	**61.4**	**6.1**	**55**	**6.80**	**16,800**	**337**	**2,400**
		07/08/20	**1,250**	**158**	0.0480 U	**19.9**	**123**	**60.6**	**6.4**	**54**	**5.82**	**27,700**	**375**	**1,710**
		11/04/20	–	–	–	0.594 U	**144**	**39.0**	–	–	**5.90**	**38,900**	**89.6**	**8,010**
		05/06/21	–	–	–	**0.675 J**	**79.2**	**25.9**	–	–	**3.91**	**24,000**	**140**	**8,580**
(dup)		05/06/21	–	–	–	**0.654 J**	**84.8**	**23.6**	–	–	**3.94**	**27,000**	**140**	**8,250**

Table 15

Groundwater Natural Attenuation Parameters
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Location Description	Sample Date	Alkalinity (mg $CaCO_3$/L)	Chloride (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	TOC (mg/L)	Iron (mg/L)			Total Manganese (mg/L)	Dissolved Gases (µg/L)		
								Total	Ferrous	Ferric		Methane	Ethane	Ethene
MW-186	Property, SE quadrant	10/31/19	**320**	**62.9**	0.0227 U	**31.4**	**5.29**	**0.501**	–	–	**0.280**	**1,030**	**5.78**	**18.4**
		01/29/20	**249**	**58.8**	0.0227 U	**21.2**	**5.85**	**1.65**	**1.5**	**0.2**	**0.226**	**1,790**	**9.35**	**26.6**
		04/02/20	**322**	**60.1**	**0.0325 J**	**18.2**	**6.25**	**6.13**	**2.6**	**3.5**	**0.298**	**3,710**	**21.2**	**23.7**
		07/08/20	**298**	**54.4**	0.0480 U	**9.56**	**4.91**	**3.57**	**1.2**	**2.4**	**0.260**	**2,770**	**17.9**	**20.4**
Treatment Zone C														
MW-167	Property, NE quadrant	11/04/19	**347**	**38.1**	0.0227 U	**61.9**	**19.6**	**0.849**	**0.5**	**0.3**	**0.345**	**8,580**	**25.7**	**121**
		01/28/20	**347**	**38.7**	0.0227 U	**1.43 J**	**8.74**	**0.365**	**0.5**	0.0	**0.213**	**6,210**	**35.2**	**69.1**
		05/01/20	**366**	**38.7**	0.0480 U	0.594 U	**9.21**	**0.717**	0.0	**0.7**	**0.187**	**5,780**	**62.9**	0.422 U
		07/09/20	**356**	**33.5**	0.0480 U	**0.879 J**	**7.42**	**14.3**	–	–	**0.239**	**10,500**	**93.0**	0.422 U
MW-171	Property, SW quadrant	11/05/19	**258**	**42.1**	**0.0936 J**	**22.0**	**10.2**	**3.63**	**1.0**	**2.6**	**0.190**	**231**	0.296 U	**10.8**
		01/23/20	**262**	**29.0**	0.0227 U	**9.02**	**4.99**	**9.73**	**0.5**	**9.2**	**0.200**	**580**	0.296 U	**19.5**
		04/02/20	**271**	**31.2**	0.0227 U	**5.27**	**5.33**	**13.1**	**1.0**	**12**	**0.195**	**896**	**5.34**	**57.0**
		07/09/20	**276**	**30.3**	0.0480 U	**9.59**	**3.76**	**4.18**	**1.0**	**3.2**	**0.176**	**963**	**14.1**	**72.3**
		11/03/20	–	–	–	**12.9**	**8.64**	**2.40**	**–**	**–**	**0.203**	**1,560**	**60.8**	**177**
		05/07/21	–	–	–	**32.9**	**8.03**	**5.33**	–	–	**0.420**	**3,200**	**33.1**	**529**
MW-175	Property, SE quadrant	11/01/19	**351**	**66.3**	0.0227 U	**224**	**32.1**	**0.800**	0.0	**0.8**	**0.178**	**1,670**	**16.4**	**323**
		01/28/20	**180**	**19.1**	0.0227 U	**1.88 J**	**13.4**	**0.916**	0.0	**0.9**	**0.0503**	**3,030**	**13.6**	**24.7**
		05/01/20	**199**	**16.2**	0.0480 U	0.594 U	**8.71**	**1.40**	0.0	**1.4**	**0.0531**	**4,030**	0.296 U	0.422 U
		07/09/20	**205**	**11.9**	0.0480 U	0.594 U	**4.26**	**1.48**	**0.5**	**1.0**	**0.0569**	**4,720**	**16.3**	0.422 U
MW-179	Property, SW quadrant	11/06/19	**1,180**	**121**	0.0227 U	**89.1**	**145**	**21.6**	**2.0**	**20**	**9.13**	**29,400**	0.296 U	**222**
		01/27/20	**1,270**	**121**	0.0227 U	**8.17**	**118**	**47.6**	**3.5**	**44**	**10.2**	**30,100**	0.296 U	**88.0**
		04/02/20	**1,400**	**122**	0.0227 U	**10.1**	**73.2**	**40.6**	**5.5**	**35**	**8.35**	**17,800**	**10.2**	**60.9**
		07/10/20	**1,420**	**149**	0.0480 U	**32.9**	**68.5**	**36.2**	**5.0**	**31**	**7.68**	**22,200**	**4.30**	0.422 U
		11/03/20	–	–	–	**13.2**	**31.2**	**10.6**	**–**	**–**	**2.64**	**25,600**	**4.77**	**121**
		05/06/21	–	–	–	0.594 U	**57.8**	**9.20**	–	–	**2.19**	**28,800**	**20.0**	**675**
MW-183	Property, SW quadrant	11/08/19	**162**	**13.0**	0.0227 U	**0.297 J**	**7.95**	**2.46**	0.0	**2.5**	**0.119**	**933**	**8.02**	**7.25**
		01/27/20	**151**	**13.3**	**0.0693 J**	0.612 U	**10.4**	**2.14**	**0.4**	**1.7**	**0.114**	**2,470**	0.296 U	**15.2**
		04/02/20	**174**	**11.3**	**0.0254 J**	**0.653 J**	**6.87**	**3.87**	0.0	**3.9**	**0.137**	**3,360**	**3.91**	**14.8**
		07/08/20	**175**	**11.8**	0.0480 U	**5.13**	**2.96**	**5.11**	**0.5**	**4.6**	**0.141**	**3,890**	0.296 U	**15.6**
		11/04/20	–	–	–	**41.2**	**9.81**	**2.72**	**–**	**–**	**0.739**	**11,000**	**4.75**	**40.4**
		05/06/21	–	–	–	**35.6**	**12.3**	**2.60**	–	–	**1.48**	**11,700**	0.296 U	**466**
MW-187	Property, SE quadrant	11/01/19	**193**	**24.5**	0.0227 U	**21.6**	**27.5**	**5.52**	**2.5**	**3.0**	**0.140**	**33.6**	0.296 U	0.422 U
		01/29/20	**179**	**18.6**	**0.0237 J**	**11.4**	**2.82**	**1.59**	**0.5**	**1.1**	**0.132**	**291**	0.296 U	0.422 U
		04/02/20	**201**	**18.5**	**0.0308 J**	**14.9**	**3.00**	**2.72**	0.0	**2.7**	**0.117**	**167**	0.296 U	0.422 U
		07/08/20	**201**	**17.1**	0.0480 U	**13.6**	**2.30**	**0.206**	0.0	**0.2**	**0.114**	**67.6**	0.296 U	0.422 U
Treatment Zone D														
MW-168	Property, NE quadrant	11/04/19	**221**	**11.8**	0.0227 U	**12.1**	**2.44**	**0.378**	0.0	**0.4**	**0.254**	0.287 U	0.296 U	0.422 U
		01/31/20	**204**	**10.9**	0.0227 U	**11.0**	**2.19**	**0.301**	**0.5**	0.0	**0.286**	**108**	0.296 U	0.422 U
		05/01/20	**223**	**12.3**	**0.0480** U	**11.3**	**3.46**	**2.55**	**0.5**	**2.1**	**0.276**	**598**	0.296 U	0.422 U
		07/09/20	**256**	**12.0**	0.0480 U	0.594 U	**2.16**	**7.06**	**1.0**	**6.1**	**0.319**	**1,600**	0.296 U	**18.1**
MW-172	Property, SW quadrant	11/05/19	**231**	**31.0**	0.0227 U	**22.1**	**3.31**	**0.131**	–	–	**0.392**	**18.1**	0.296 U	0.422 U
		01/23/20	**198**	**26.2**	0.0227 U	**26.8**	**4.93**	**0.355**	0.0	**0.4**	**1.03**	**301**	**7.66**	**19.4**
		04/02/20	**201**	**22.6**	**0.0315 J**	**41.8**	**8.49**	**4.78**	0.0	**4.8**	**2.58**	**34.7**	0.296 U	0.422 U
		07/09/20	**204**	**21.3**	0.0480 U	**34.3**	**6.99**	**4.88**	**0.2**	**4.7**	**2.05**	**256**	0.296 U	0.422 U

Table 15

Groundwater Natural Attenuation Parameters
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Location Description	Sample Date	Alkalinity (mg $CaCO_3$/L)	Chloride (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	TOC (mg/L)	Iron (mg/L)			Total Manganese (mg/L)	Dissolved Gases (µg/L)		
								Total	Ferrous	Ferric		Methane	Ethane	Ethene
MW-172		11/03/20	–	–	–	**33.9**	**8.82**	**1.82**	**–**	**–**	**1.90**	**893**	**16.5**	**21.3**
(continued)		05/07/21	–	–	–	**23.6**	**4.91**	**5.67**	–	–	**0.850**	**4,770**	0.296 U	0.422 U
MW-176	Property, SE quadrant	11/01/19	**358**	**12.3**	0.0227 U	**15.2**	**1.65**	**0.351**	0.0	**0.4**	**0.310**	**20.4**	0.296 U	0.422 U
		01/28/20	**186**	**11.5**	0.0227 U	**14.4**	**1.55**	**0.256**	**0.2**	**0.1**	**0.310**	**21.7**	0.296 U	0.422 U
(dup)		01/28/20	**184**	**11.4**	0.0227 U	**14.7**	**1.62**	**0.258**	**0.2**	**0.1**	**0.301**	**18.8**	0.296 U	0.422 U
		05/01/20	**198**	**11.3**	0.0480 U	**13.8**	**1.79**	**0.802**	**0.5**	**0.3**	**0.310**	**28.8**	0.296 U	0.422 U
		07/09/20	**207**	**11.0**	0.0480 U	**10.3**	**1.57**	**6.74**	**2.5**	**4.2**	**0.341**	**71.8**	0.296 U	0.422 U
MW-180	Property, SW quadrant	11/06/19	**940**	**50.8**	0.0227 U	**86.8**	**193**	**17.7**	**2.5**	**15**	**15.7**	**6,310**	0.296 U	**49.2**
		01/24/20	**623**	**46.9**	0.0227 U	**97.8**	**37.5**	**17.2**	**1.0**	**16**	**9.14**	**2,300**	**6.29**	**103**
		04/01/20	**489**	**34.6**	**0.0287 J**	**68.3**	**40.9**	**19.6**	–	**–**	**5.00**	**12,700**	**2.65**	0.422 U
		07/10/20	**397**	**31.8**	0.0480 U	**63.1**	**23.1**	**20.1**	**2.5**	**18**	**3.17**	**13,600**	0.296 U	0.422 U
		11/03/20	–	–	–	**55.5**	**25.3**	**14.1**	**–**	**–**	**3.53**	**21,700**	**6.99**	**33.2**
		05/06/21	–	–	–	**40.4**	**29.1**	**15.8**	–	–	**4.09**	**20,600**	**8.59**	**41.2**
MW-184	Property, SW quadrant	11/08/19	**156**	**10.8**	**0.0284 J**	**14.3**	**1.08**	**0.0836 J**	0.0	**0.1**	**0.268**	**8.35**	0.296 U	0.422 U
		01/27/20	**141**	**8.94**	**0.065 J**	**13.4**	**1.35**	**0.256**	**0.3**	0.0	**0.332**	0.287 U	0.296 U	0.422 U
		04/01/20	**152**	**8.68**	**0.0277 J**	**6.06**	**1.52**	**4.90**	**4.1**	**0.8**	**0.364**	**9.82**	0.296 U	**5.11**
		07/08/20	**160**	**10.9**	0.0480 U	**18.4**	**1.94**	**0.392**	**0.2**	**0.2**	**0.581**	**1,310**	0.296 U	0.422 U
		11/04/20	–	–	–	**28.5**	**3.92**	**2.89**	**–**	**–**	**2.28**	**4,380**	0.296 U	0.422 U
		05/06/21	–	–	–	**14.8**	**2.31**	**1.87**	–	–	**0.522**	**690**	0.296 U	**14.3**
MW-188	Property, SE quadrant	10/31/19	**196**	**22.0**	**0.0231 J**	**38.7**	**1.41**	**0.325**	**0.5**	0.0	**0.387**	0.287 U	0.296 U	0.422 U
		01/29/20	**187**	**23.9**	0.0227 U	**31.7**	**1.31**	**0.668**	**0.5**	**0.2**	**0.460**	**102**	0.296 U	0.422 U
		04/02/20	**198**	**25.4**	0.0227 U	**31.8**	**1.03**	**4.98**	**4.2**	**0.8**	**0.476**	**204**	0.296 U	0.422 U
		07/08/20	**204**	**22.5**	0.0480 U	**36.2**	**0.958 J**	**2.39**	**0.8**	**1.6**	**0.444**	**66.1**	0.296 U	0.422 U

Notes:
Alkalinity analyzed by EPA Method 2320.
Anions analyzed by EPA Method 9056A.
Total Organic Carbon (TOC) analyzed by EPA Method 9060A.
Metals Analyzed by EPA Method 6020B.
Ferrous Iron measured during field sampling using a Hach field kit.
Dissolved gases analyzed by EPA Method RSK175.
Ferric iron = total iron minus ferrous iron; if total iron < ferrous iron, ferric iron is reported as zero ("0").
mg$CaCO_3$/L= milligrams of calcium carbonate per liter.
mg/L = milligrams per liter.
ug/L = micrograms per liter.
Samples prior to 2017 were collected by SoundEarth Strategies (SES).
U = Not detected at or above the laboratory method detection limit (MDL).
Detected results shown in bold.
J = The identification of the analyte is accetable; the reported value is an estimate.
J+ = The identification of the analyte is acceptable; the reported value is an estimate, but the result may be biased high.
R = The data is unusable. The sample result is rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
– = Not sampled or results not available.
(dup) = field duplicate.
Beginning October 2020, select locations were sampled for an abbreviated analyte list (Sulfate, TOC, Total Iron, Total Manganese, Methane, Ethane, and Ethene).

Table 16

Groundwater Field Parameters, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Ferrous Iron (mg/L)
Shallow Zone									
F5	Property, NW quadrant	03/28/17	6.05	1,001	10.9	5.8	0.99	-51	–
		06/22/17	6.38	1,080	19.5	–	0.80	-87	–
		Decommissioned March 2019							
F9	Property, NE quadrant	03/27/17	6.69	1,270	16.6	3.1	0.74	-151	–
		06/22/17	6.76	1,309	27.5	–	0.24	-149	–
		Decommissioned March 2019							
F13	Property, NE quadrant	03/27/17	6.80	756	15.4	3.4	0.86	-139	1.0
		06/22/17	7.00	865	20.2	–	0.27	-148	1.5
		04/05/18	6.84	491	16.6	–	0.50	67	–
		Decommissioned March 2019							
FMW-143	9th Ave N ROW, E side	10/31/19	6.65	892	16.8	16.1	0.35	45	0.0
		01/22/20	6.96	1,431	9.2	1.8	0.32	-39	3.5
		05/14/20	6.84	899	13.7	32.0	3.78	-34	3.5
		07/22/20	6.75	820	16.6	7.43	0.17	24	4.0
G12	Property, NE quadrant	03/27/17	7.34	1,296	20.7	–	0.41	150	1.3
		06/30/17	6.88	1,239	29.1	–	1.30	-87	–
		Decommissioned March 2019							
J5	Property, SW quadrant	03/21/17	6.95	251	15.1	4.6	0.70	-114	0.6
		06/26/17	6.94	484	19.8	–	0.42	-143	–
		04/05/18	6.85	286	14.1	–	0.50	77	–
		Decommissioned March 2019							
J15	Property, SE quadrant	03/27/17	7.42	935	14.1	–	0.48	141	2.0
		06/26/17	6.86	920	20.8	–	0.44	-99	1.5
		04/05/18	6.83	716	18.1	–	0.40	103	–
		Decommissioned March 2019							
K8	Property, SW quadrant	03/21/17	7.70	251	18.3	–	0.80	-121	0.0
		06/26/17	7.76	257	22.3	–	0.25	-4	0.0
		04/05/18	9.45	220	16.7	–	0.70	56	–
		Decommissioned March 2019							
M15	Property, SE quadrant	03/27/17	7.16	1,544	18.7	–	0.60	140	2.8
		06/26/17	6.71	1,440	25.6	–	0.70	-84	–
		04/05/18	6.90	1,034	18.0	–	0.40	86	–
		Decommissioned March 2019							
MW-8 (dry)	Seattle Roy Aloha Shops N end	03/20/17	6.47	1,080	14.2	11.4	1.30	-4	–
		06/27/17	–	–	–	–	–	–	–
		04/13/18	5.99	540	13.1	–	0.80	261	–
		07/18/19	6.20	692	16.9	–	0.27	224	–
		10/10/19	6.35	425	15.4	5.2	0.45	126	–
		01/16/20	5.86	322	13.0	6.9	0.40	48	–
		05/06/20	6.24	420	13.7	–	1.91	250	–
		07/14/20	6.35	494	17.6	5.8	1.99	-64	3.0
MW-9	8th Ave N ROW, E side	12/16/13	6.72	132	–	–	0.20	263	3.41
		03/20/17	6.64	1,203	13.0	0.0	1.00	-109	–
		06/20/17	6.41	1,391	20.8	–	0.76	-93	–
		04/05/18	6.73	1,299	13.4	–	0.80	128	–
		01/21/19	6.63	1,179	12.5	–	0.71	143	–
		04/26/19	6.68	632	16.6	–	0.50	62	–
		07/16/19	6.70	1,060	17.4	–	0.22	-118	–

Table 16

Groundwater Field Parameters, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Ferrous Iron (mg/L)
MW-9 (continued)		10/17/19	6.27	1,190	14.4	–	0.52	-104	2..0
		11/24/20	6.50	1,120	13.9	95.4	0.38	-291	–
		02/05/21	6.39	617	14.2	8.0	0.40	42	–
		05/12/21	6.70	1,174	14.8	2.3	0.29	-159	–
MW121	8th Ave N ROW, E side	12/26/13	6.89	1,610	–	–	4.16	-30	1.90
		03/28/17	6.63	2,608	14.4	2.9	0.99	-122	2.0
		06/20/17	8.29	2,437	19.9	–	0.52	-88	3.0
		04/05/18	6.64	2,028	17.2	–	0.60	120	–
		01/31/19	6.87	2,396	15.3	–	0.42	-3	–
		04/29/19	6.75	2,521	18.1	–	0.30	9	–
		07/19/19	6.38	2,017	18.8	–	0.46	-17	–
		11/30/20	6.50	1,838	15.9	–	0.39	-442	–
		02/05/21	6.67	1,912	15.6	4.2	1.73	48	–
		05/12/21	6.64	1,808	17.5	6.7	0.39	125	–
MW125	Valley St ROW, N side	12/26/13	6.28	1,414	–	–	8.68	22	1.47
		03/22/17	6.62	1,296	14.6	3.7	1.00	-116	–
		06/28/17	6.71	984	17.1	–	1.91[d]	-101	–
		04/06/18	6.89	831	17.5	–	0.30	-68	–
		01/21/19	6.67	912	15.8	–	0.48	122	–
		04/23/19	6.74	987	16.3	–	0.65	65	–
		07/18/19	6.90	920	18.9	–	0.40	59	–
		10/18/19	6.49	923	13.6	–	1.49	-86	2.0
		01/29/20	7.10	1,149	16.2	47.7	–	-115	2.0
		11/17/20	6.51	-732	16.5	21.0	0.39	-168	–
		02/02/21	6.65	805	13.6	24.0	0.71	51	–
		05/11/21	6.66	772	16.4	5.9	0.23	-184	–
MW-154	Roy St ROW, S side	04/30/18	7.26	469	16.3	–	0.40	72	–
		01/21/19	7.25	523	14.4	–	0.61	99	–
		04/24/19	7.09	459	18.6	–	0.48	103	–
		07/15/19	6.96	517	20.0	–	1.21	157	–
		10/14/19	6.49	515	17.5	7.6	0.53	161	0.0
		01/21/20	6.81	965	11.1	15.1	1.61	-87	0.0
		04/30/20	6.85	652	18.5	4.0	1.06	234	0.0
		07/10/20	6.49	708	20.5	5.0	0.78	25	0.0
		11/09/20	6.94	567	14.9	24.1	5.29	27	–
		02/08/21	7.28	507	15.3	10.0	8.00	40	–
		05/10/21	7.23	469	19	7.2	4.97	-92	–
MW-155	Roy St ROW, S side	04/27/18	6.79	479	13.3	–	3.20	94	–
		01/21/19	6.52	500	12.3	–	2.43	119	–
		04/23/19	6.51	663	14.7	–	1.80	41	0.0
		07/23/19	6.26	765	14.4	–	2.06	66	–
		10/16/19	6.30	657	15.2	4.5	1.12	272	0.0
		01/20/20	5.93	819	13.7	19.9	2.00	45	0.0
		05/05/20	7.31	678	17.9	9.0	2.24	131	–
		08/03/20	6.73	686	20.1	70.1	2.45	114	0.5
		11/11/20	6.56	669	14.7	89.7	2.67	-67	–
MW-159	8th Ave N ROW, E side	04/26/18	6.92	928	18.9	–	0.70	109	–
		01/21/19	6.92	1,125	14.1	–	0.59	126	–
		04/26/19	6.83	1,279	14.5	–	0.54	79	–

Table 16

Groundwater Field Parameters, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Ferrous Iron (mg/L)
MW-159 (continued)		07/19/19	6.75	1,109	19.0	–	1.34	62	–
		01/29/20	6.79	1,081	14.2	4.7	0.11	-76	2.5
		11/11/20	6.78	588	12.4	4.1	0.60	-126	–
		02/08/21	6.83	625	11.1	168	0.57	-437	–
		05/11/21	6.91	625	14.4	356	0.14	-179	–
MW-210	Valley St ROW, N side	03/30/17	6.48	743	11.8	2.9	0.98	-86	–
		06/21/17	6.35	589	20.9	–	0.41	-57	–
		04/09/18	7.79[(a)]	807	14.9	–	0.60	-18	–
		10/11/19	6.33	846	16.5	223	0.57	54	–
		01/17/20	6.54	711	12.5	9.7	0.30	-43	–
		04/09/20	6.19	698	19.0	1.3	0.17	50	4.8
		07/07/20	6.36	735	19.1	8.9	1.79	-98	6.0
MW-214 (dry)	Valley St ROW, S side	03/30/17	7.47	467	11.0	3.6	5.91	-70	–
		06/21/17	–	–	–	–	–	–	–
		04/09/18	8.94	380	13.7	–	8.00	401	–
		10/11/19	6.91	692	16.3	10.5	0.44	122	–
		01/20/20	7.23	543	13.7	–	7.40	58	–
		04/07/20	6.62	413	11.5	–	1.03	71	0.0
		07/06/20	6.78	652	19.5	9.22	0.27	-89	0.0
MW-301	Valley St ROW, S side	11/30/20	6.33	459	16.2	20.5	2.20	-20	
		02/05/21	6.26	442	10.8	44.9	0.99	-430	–
		05/14/21	6.33	450	14.1	63.8	0.5	-7	0.0
MW-305	Roy St ROW, S side	10/11/19	6.34	298	16.8	99.9	1.97	-11	0.0
		01/15/20	6.83	560	6.8	–	3.64	60	0.0
		04/28/20	6.50	480	16.0	93	4.75	89	0.0
		07/27/20	6.76	306	18.0	184	3.59	214	0.0
		11/06/20	6.54	339	15.3	329	1.87	-18	–
		05/18/21	6.62	557	16.2	123	5.19	128	–
MW-310	Alley E of Seattle Roy Aloha Shops	10/10/19	6.97	1,508	15.5	177	1.00	24	4.0
		01/14/20	6.38	1,969	10.7	4.2	0.18	-63	3.0
		04/08/20	6.48	1,503	16.9	–	0.21	-116	3.4
		08/04/20	6.83	1,489	19.4	20.7	0.27	108	3.6
		11/06/20	6.54	1,507	15.1	6.2	0.39	-145	–
		05/03/21	6.80	1,546	15.7	–	0.64	123	–
MW-312	Alley E of Seattle Roy Aloha Shops	10/11/19	6.84	1,670	16.4	59.6	0.49	-59	2.8
		01/21/20	6.56	1,621	14.8	2.0	0.40	-56	1.5
		04/22/20	6.66	1,703	12.6	24.7	0.64	43	3.4
		08/04/20	6.99	1,672	21.5	–	1.50	-64	–
		11/11/20	6.31	267	12.0	100	0.70	-92	–
		05/03/21	6.93	1,684	14.9	9.1	0.99	121	–
MW-313	Alley E of Seattle Roy Aloha Shops	10/10/19	7.06	718	17.3	66.4	0.77	131	0.5
		01/14/20	6.83	979	8.1	–	0.42	76	3.0
		05/04/21	6.66	798	14.7	114	1.08	-131	–
MW-320	9th Ave N ROW, W side	10/07/19	6.65	552	17.4	21.3	0.39	253	0.0
		01/20/20	6.66	1,187	14.7	0.7	0.90	-120	4.8
		04/29/20	6.69	828	15.8	3	0.42	83	5.0
		07/28/20	6.96	751	17.8	7.08	0.96	-56	3.5
		11/12/20	6.72	630	12.6	14.7	0.50	-107	–

Table 16

Groundwater Field Parameters, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Ferrous Iron (mg/L)
MW-320 (continued)		05/20/21	6.70	880	14.5	4.5	0.18	-116	–
MW-332	Roy St ROW, N side	05/04/20	6.99	880	18.2	3.0	0.50	-50	2.5
		07/30/20	6.90	831	26.8	27.0	0.56	14	0.5
		11/12/20	6.82	616	12.3	36.8	0.57	13	–
		05/20/21	6.84	706	14.6	5.3	3.77	-77	–
MW-337	Lake Union Park, N end	05/07/20	6.62	548	12.7	3.9	1.18	-76	2.0
		07/23/20	6.91	449	15.4	4.0	0.12	-64	3.2
		11/10/20	6.68	330	13.1	1.6	0.18	-125	–
		05/04/21	6.77	557	12.9	–	0.06	123	–
MW-339	Lake Union Park, S end	05/14/20	7.27	670	12.1	2.0	0.10	-69	2.0
		07/23/20	6.76	1,237	14.9	1.85	0.27	-60	1.5
		11/09/20	6.76	503	13.8	4.2	0.12	-151	–
		05/25/21	6.80	791	13.7	–	0.16	135	–
N7	Property, SW quadrant	03/30/17	6.82	350	15.9	2.8	1.11	-74	0.0
		06/27/17	6.83	505	24.9	1.7	1.74[d]	-4	0.3
		Decommissioned March 2019							
R-MW2	Property, NE quadrant	03/21/17	7.00	723	11.4	17.6	0.80	-161	–
		06/15/17	6.78	766	15.5	–	0.43	-161	–
		04/02/18	6.68	737	14.5	–	0.70	49	–
		Decommissioned March 2019							
R-MW3	Property, NE quadrant	03/21/17	7.06	1,616	16.7	4.1	0.90	-39	–
		06/28/17	7.11	1,258	23.5	–	1.01	-132	–
		04/04/18	6.96	1,241	16.8	–	0.50	98	–
		Decommissioned March 2019							
R-MW5	Dexter Ave N ROW E side	03/23/17	6.12	537	17.1	–	0.80	-37	1.0
		06/16/17	5.85	516	17.6	–	1.12	-370	–
		04/11/18	9.57[(a)]	504	15.5	–	0.50	213	–
		01/03/19	5.96	533	14.7	–	0.81	71	–
		04/22/19	6.14	410	15.9	–	0.54	100	–
		07/16/19	6.06	378	18.8	–	0.26	52	–
		10/21/19	6.33	346	16.6	66.7	0.70	156	1.0
		01/24/20	5.97	440	12.3	9.6	0.33	25	2.5
		11/18/20	7.25	339	16.8	90.0	0.32	-388	–
		02/11/21	6.21	247	12.5	17.8	0.59	-397	–
		05/17/21	5.88	250	14.2	–	0.19	110	–
R-MW6	8th Ave N ROW, W side	03/21/17	6.56	1,280	14.8	6.6	0.80	-39	–
		06/20/17	6.57	1,407	18.0	–	0.84	-56	1.5
		04/06/18	6.72	1,137	16.8	–	0.70	113	–
		01/25/19	6.75	1,055	14.9	–	0.33	-101	–
		04/25/19	6.77	1,295	17.5	–	0.40	18	–
		12/01/20	6.35	765	12.9	15.2	0.71	-42	–
		02/03/21	6.57	936	11.2	8.0	0.20	49	–
		05/17/21	5.72	1,187	15.1	–	1.30	118	–
SCL-MW101	Alley E of Seattle Roy Aloha Shops	03/28/17	7.34	834	11.8	–	0.35	118	–
		06/14/17	6.35	628	17.9	–	0.12	-49	–
		04/06/18	6.61	654	14.3	–	0.30	66	
		10/09/19	6.10	1,468	16.4	–	0.48	-78	–
		01/17/20	6.46	1,378	12.3	1.4	0.46	-59	–

Table 16

Groundwater Field Parameters, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Ferrous Iron (mg/L)
SCL-MW101 (continued)		04/07/20	6.20	866	15.6	–	0.30	-79	–
		11/24/20	6.43	813	14.8	126	0.64	-112	–
		05/04/21	6.49	1,126	18.1	–	1.09	124	–
SCL-MW105	Alley E of Seattle Roy Aloha Shops	03/28/17	7.19	1,049	12.6	–	0.50	136	–
		06/15/17	6.45	1,086	15.8	–	1.11	-95	–
		04/06/18	6.73	968	15.4	–	0.40	76	–
		10/10/19	6.50	1,289	14.2	17.8	0.57	-83	–
		01/17/20	6.53	1,552	11.1	0.8	0.33	-54	–
		04/01/20	6.33	987	15.9	14.0	0.20	-87	4.0
		07/24/20	6.62	1,108	18.3	1.0	2.28	-99	–
SCS-2	Seattle Roy Aloha Shops N end	03/20/17	6.50	947	13.0	1.6	1.00	-142	–
		06/12/17	6.41	761	17.3	–	0.59	-31	–
		04/13/18	10.72[a]	199	10.5	–	0.80	215	–
		07/18/19	6.48	895	16.0	–	0.32	-97	–
		10/10/19	6.60	776	13.9	4.5	0.53	-18	–
		01/16/20	6.03	541	13.2	3.3	0.40	-25	–
Intermediate A Zone									
BB-8	Roy St ROW, S side	12/29/13	6.56	8,560	–	–	0.72	224	0.01
		03/22/17	6.74	621	14.6	–	1.80	-23	0.0
		06/14/17	6.29	649	14.5	–	1.12	188	0.0
		04/11/18	6.96	512	14.5	–	0.70	85	0.0
		01/23/19	6.80	700	12.9	–	0.76	154	0.0
		04/23/19	6.94	649	14.2	–	1.28	34	0.0
		07/17/19	6.50	640	15.9	–	0.50	-6	0.0
		10/22/19	6.37	551	16.1	13.6	0.32	221	0.0
		01/20/20	6.70	796	14.8	0.9	1.10	45	0.0
		05/12/20	6.69	622	15.5	3.0	1.14	280	0.0
		07/27/20	6.51	638	17.4	57.3	0.40	103	0.5
		11/17/20	6.67	590	14.5	89.2	0.56	41	–
		02/11/21	6.94	456	9.4	14.0	3.78	47	–
		06/07/21	6.76	465	19.6	14.6	3.14	-77	–
FMW-142	9th Ave N ROW, E side	10/31/19	6.22	556	12.8	10.3	0.38	-57	0.5
		01/22/20	7.22	1,113	8.7	0.9	0.44	-48	2.2
		04/28/20	6.83	725	16.5	11	0.41	69	5.0
		07/08/20	6.96	738	17.2	16.7	0.60	-25	4.4
		11/04/20	6.80	685	16.9	46.7	0.34	-109	–
		05/25/21	6.84	725	15.1	–	0.27	-182	–
GEI-1	Block 37, SW quadrant	03/24/17	6.41	1,127	12.0	24.1	0.80	-103	1.0
		06/13/17	6.65	553	14.9	–	0.56	-38	–
		04/22/19	6.35	1,099	13.3	–	0.68	-46	–
		07/16/19	6.66	908	19.2	–	0.21	-105	3.0
		10/21/19	6.65	1,285	15.1	–	0.20	-70	2.1
		01/22/20	6.83	1,108	10.8	4.7	0.40	-55	3.0
		04/29/20	6.61	639	14.8	6.5	1.05	-87	2.0
		07/30/20	6.64	854	17.8	–	1.50	-87	2.4
GEI-MW-1	Block 79 East, N end	01/23/20	6.95	1,127	14.8	17.4	0.41	-24	3.2
		04/29/20	6.90	850	19.0	5.0	0.37	-87	4.0
		08/07/20	6.86	802	21.9	18	1.11	-89	3.5

Table 16

Groundwater Field Parameters, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Ferrous Iron (mg/L)
GEI-MW-1 (continued)		11/10/20	6.83	609	14.0	1.4	0.30	-130	–
		05/13/21	6.77	746	17.0	–	0.21	128	–
HMW-9IA	SDOT Mercer Parcels	06/02/21	7.53	596	22.2	22.0	0.26	-107	0.00
HMW-20IA	SDOT Mercer Parcels	06/02/21	7.32	757	19.4	16.5	0.45	-19	0.50
MW107	8th Ave N ROW, W side	12/16/13	6.62	900	–	–	1.14	22	0.43
		03/27/17	7.10	1,434	13.7	–	0.50	141	2.0
		06/19/17	6.24	1,434	22.5	–	0.77	-30	1.5
		04/09/18	6.73	1,193	18.4	–	0.30	49	4.0
		01/30/19	6.99	1,299	11.0	–	0.74	127	–
		05/01/19	6.85	1,216	16.9	–	0.33	24	2.0
		07/22/19	6.64	1,187	21.5		2.72	-9	1.4
		10/15/19	6.93	1,263	19.9	85.3	0.38	-66	3.4
		01/28/20	7.31	1,663	16.8	9.2	–	-97	4.5
		04/03/20	6.79	1,468	15.0	10.4	2.56	-77	3.0
		07/31/20	6.93	762	19.4	27.1	0.64	52	1.2
		12/01/20	6.79	1,183	13.5	–	0.89	-36	–
		02/02/21	6.73	903	12.7	9.0	0.72	46	–
		06/02/21	6.44	1,701	16.4	–	0.22	-6	–
MW108	Alley E of Seattle Roy Aloha Shops	12/17/13	6.36	1,570	–	–	0.50	-72	21.7
		03/28/17	6.65	1,410	13.6	2.0	0.97	-99	2.5
		06/27/17	6.72	1,252	16.3	–	4.45[d]	-108	2.0
		04/06/18	6.69	1,026	14.6	–	0.60	136	–
		01/22/19	6.77	1,053	11.9	–	0.80	132	–
		04/29/19	6.61	1,296	14.4	–	0.42	-18	–
		07/15/19	6.55	1,217	17.7	–	0.78	-49	–
		10/10/19	6.81	1,178	15.1	14.3	1.49	3	3.3
		01/14/20	6.87	1,568	12.2	2.0	0.09	-84	4.5
		04/22/20	6.69	1,347	14.9	31.2	2.21	-96	6.6
		07/16/20	6.91	1,296	16.5	16.6	2.32	-148	7.0
		11/04/20	6.57	1,222	16.8	27.6	0.45	-114	–
		02/09/21	6.53	1,225	12.9	11.0	0.89	-451	–
		05/03/21	6.74	1,192	15.9	–	0.38	129	–
MW109	Alley E of Seattle Roy Aloha Shops	12/17/13	6.68	1,540	–	–	0.31	-78	16.2
		03/29/17	6.59	916	14.9	2.8	0.77	-115	1.5
		06/27/17	6.72	1,129	16.9	–	3.85[d]	-107	1.5
		04/06/18	6.71	1,112	14.3	–	0.50	136	–
		01/23/19	6.97	1,203	15.7	–	0.59	143	–
		04/29/19	6.52	1,128	14.2	–	0.45	40	–
		07/15/19	6.57	1,214	17.5	–	0.44	-29	–
		10/15/19	6.40	1,167	15.2	16.2	0.46	-95	2.5
		01/21/20	6.48	206	14.2	4.1	4.50	60	0.0
		04/22/20	6.35	1,110	14.4	8.7	0.30	107	3.0
		07/06/20	6.11	1,037	19.1	35.5	0.31	25	6.0
		11/02/20	6.61	1,199	17.0	22.8	1.29	-48	–
		02/09/21	6.60	946	13.3	16.4	0.70	-444	–
		05/03/21	6.74	854	14.6	12.3	0.54	127	–
MW110	Alley E of Seattle Roy Aloha Shops	12/19/13	8.82	888	–	–	0.52	291	0.04
		03/23/17	6.66	1,109	13.1	0.4	1.05	-47	0.1

Table 16

Groundwater Field Parameters, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Ferrous Iron (mg/L)
MW110 (continued)		06/27/17	7.13	1,010	17.2	–	1.42[d]	57	0.0
		04/09/18	6.22	895	16.1	–	0.70	431	–
		01/23/19	6.74	1,020	14.5	–	0.41	103	–
		04/26/19	6.67	998	16.7	–	0.49	135	–
		07/15/19	6.68	965	16.2	–	0.45	160	–
		10/15/19	6.34	976	15.8	–	0.45	-19	–
		01/16/20	6.59	988	14.7	15.5	0.04	17	–
		04/22/20	6.80	1,005	13.8	30.9	1.02	10	0.0
		07/16/20	7.03	1,046	18.5	28.0	0.41	1	0.0
		11/04/20	7.08	1,028	16.6	63.8	0.36	-59	–
		02/09/21	6.66	863	13.4	107	0.83	-497	–
		05/04/21	6.71	824	18.4	116	0.48	-80	–
MW115	9th Ave N ROW, W side	12/19/13	6.80	1,220	–	–	0.71	-61	6.69
		03/22/17	7.28	880	14.8	–	0.51	160	1.5
		06/22/17	6.85	778	20.2	–	0.39	-102	1.5
		04/11/18	6.91	860	13.1	–	0.40	89	–
		01/30/19	7.03	912	12.7	–	0.57	116	–
		07/17/19	6.68	935	16.4	–	0.37	34	–
		10/22/19	6.64	699	15.3	0.1	0.51	-140	2.0
		01/20/20	6.88	737	15.5	9.7	0.20	-35	2.0
		05/05/20	6.57	1,266	17.6	93.5	1.21	-102	2.0
		07/28/20	6.85	983	20.2	152	0.72	-58	4.5
		11/12/20	6.84	579	14.5	87.4	0.36	-121	–
		02/12/21	6.89	727	9.6	–	0.39	-16	–
		05/25/21	6.88	679	18.1	–	0.22	-171	–
MW116	9th Ave N ROW, W side	12/19/13	6.84	498	–	–	0.67	75	2.65
		03/21/17	7.05	814	13.3	6.2	0.80	-127	3.9
		06/16/17	6.86	749	18.7	–	0.41	-641	1.8
		04/11/18	7.11	830	13.3	–	0.40	75	–
		01/30/19	7.09	771	15.5	–	0.65	-122	2.0
		07/17/19	6.89	822	16.6	–	0.42	40	–
		10/22/19	6.86	640	15.9	2.0	0.22	158	1.3
		01/21/20	6.98	697	13.6	–	0.60	-28	1.0
		04/29/20	–	701	17.3	246	0.21	245	3.8
		07/28/20	7.05	607	25.6	416	0.75	-92	2.5
		11/12/20	6.92	680	15.1	346	0.20	-221	–
		02/11/21	7.03	652	9.7	49.0	0.34	49	–
		05/25/21	7.03	678	16.6	–	0.20	-197	–
MW119	9th Ave N ROW, W side	12/19/13	9.56	579	–	–	0.34	295	18.6
		03/29/17	6.41	631	13.4	2.4	0.85	-91	2.0
		06/28/17	6.29	676	17.4	–	4.88[d]	11	1.5
		04/05/18	6.30	517	13.1	–	0.60	119	–
		01/21/19	6.76	67	12.6	–	6.76	114	–
		04/29/19	6.33	652	15.1	–	0.42	-3	–
		07/19/19	6.34	26	16.7	–	0.61	1	–
		10/10/19	6.66	582	14.8	–	0.44	-10	3.0
		01/14/20	6.33	533	12.7	–	0.38	-308	–
		02/18/20[c]	6.43	545	12.9	–	1.10	-58	–
		03/24/20[c]	6.02	573	11.4	–	0.21	-7	–

Table 16

Groundwater Field Parameters, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Ferrous Iron (mg/L)
MW119 (continued)		04/27/20	6.34	606	14.1	1.4	0.13	-31	3.5
		05/19/20[c]	6.34	512	14.8	–	1.80	-50	–
		07/08/20	6.41	535	15.5	41.0	0.27	-19	5.5
		11/11/20	6.44	542	14.0	81.7	0.24	-177	–
		02/10/21	6.43	468[(c)]	13.0	30.4	0.65	-25	–
		05/20/21	6.33	529	15.1	45.6	0.32	-102	–
MW120	8th Ave N ROW, E side	12/19/13	6.63	743	–	–	1.30	-13	0.170
		03/28/17	7.93	622	9.5	–	0.75	123	–
		06/28/17	6.60	568	17.8	–	1.33[d]	91	–
		04/09/18	6.96	423	15.1	–	0.40	37	0.0
		01/24/19	6.66	649	14.0	–	0.73	110	–
		05/03/19	6.46	533	14.6	–	0.36	253	–
		07/16/19	6.31	632	17.7	–	0.66	120	0.0
		10/17/19	6.08	742	15.0	–	0.51	-67	0.0
		01/17/20	6.47	1,028	13.3	12.6	0.15	-8	0.5
		04/23/20	6.40	742	15.4	15.7	4.21	103	1.2
		07/14/20	6.34	785	19.0	47.8	1.44	-36	0.0
		11/30/20	6.55	723	15.3	95.0	0.92	-24	–
		02/05/21	6.54	714	12.9	39.0	0.57	44	–
		05/12/21	6.56	682	17.6	52.9	0.29	-112	–
MW127	8th Ave N ROW, E side	08/01/19	6.95	440	17.2	–	0.34	164	–
		10/17/19	6.30	471	15.0	–	0.35	-83	0.0
		01/17/20	6.82	602	12.9	80.2	0.13	35	0.0
		04/23/20	6.74	476	15.0	99.9	3.95	88	0.0
		07/14/20	6.91	484	17.7	151	0.45	-76	0.0
		11/13/20	6.67	496	15.5	847	0.27	-118	–
		05/11/21	6.83	474	19.0	40.5	0.32	-148	
MW131	Property, SE quadrant	03/27/17	7.01	2,045	19.5	2.4	0.85	-134	1.9
		06/20/17	15.39[(a)]	2,071	21.9	–	0.62	-86	–
		04/16/18	6.96	1,610	17.3	–	0.30	18	1.8
		10/25/18	6.66	1,546	18.9	–	0.39	-55	–
		12/12/18	6.78	1,899	14.5	–	0.44	129	–
		01/29/19	6.86	1,948	9.2	–	0.77	137	–
		03/11/19	6.70	1,849	14.0	–	1.30	-21	–
		Decommissioned March 2019							
MW-142	8th Ave N ROW, E side	04/27/18	6.96	1,349	18.9	–	0.50	133	1.5
		01/28/19	6.94	1,528	11.7	7.9	0.75	152	2.0
		04/24/19	7.00	1,541	15.6	–	0.70	121	1.2
		07/25/19	6.70	1,665	20.4	–	1.09	13	2.1
		10/16/19	6.36	1,456	15.7	–	0.85	-35	2.0
		01/22/20	6.72	2,032	16.9	37.3	0.11	-99	2.5
		04/24/20	6.74	1,789	18.8	106.0	1.20	-119	3.0
		07/30/20	6.83	1,505	20.5	18.0	1.06	-20	3.5
		11/24/20	6.61	1,490	17.1	283	0.21	-301	–
		02/08/21	6.8	1,467	14.6	6.0	0.49	38	–
		05/19/21	6.78	1,527	14.2	20.1	0.3	-132	–
MW-144	8th Ave N ROW, E side	04/27/18	7.34	1,739	16.4	–	0.40	100	0.5
		01/28/19	7.44	1,798	13.1	5.3	0.57	125	–

Table 16

Groundwater Field Parameters, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Ferrous Iron (mg/L)
MW-144 (continued)		04/23/19	7.39	1,749	16.8	–	0.45	67	1.2
		Destroyed June 2019, Decommissioned December 2019							
MW-144R	8th Ave N ROW, E side	12/16/19	7.81	1,250	16.0	16.6	0.34	-131	2.0
		01/21/20	7.22	1,723	11.0	13.3	0.46	-136	3.5
		04/02/20	7.37	1,334	13.2	81.6	0.40	-32	3.0
		08/03/20	7.41	1,340	18.8	75.6	0.39	-152	2.4
		11/23/20	7.41	1,159	14.2	153	0.65	-178	0.0
		02/02/21	7.45	1,383	9.6	5.0	0.34	46	–
		02/08/21	6.80	1,467	14.6	6.0	0.49	38	–
		05/12/21	7.36	1,406	17.8	5.0	0.55	-202	–
MW-146	Roy St ROW, S side	04/30/18	7.27	694	17.0	–	0.40	95	1.3
		01/22/19	7.56	621	12.1	–	0.48	122	2.0
		04/24/19	7.20	564	16.5	–	0.76	11	2.5
		07/19/19	6.76	713	16.6	–	2.60	70	1.9
		10/14/19	6.68	648	16.9	22.6	0.49	98	2.0
		01/24/20	6.85	1,019	14.7	2.8	0.04	-94	4.0
		04/30/20	7.18	827	15.8	5.2	0.23	-90	2.5
		07/09/20	7.30	805	18.6	5.0	0.26	-11	3.0
		11/10/20	7.12	665	16.1	3.2	0.30	-143	–
		02/08/21	7.14	676	15.2	–	5.93	44	–
		05/04/21	7.12	710	17.5	53.9	0.19	-265	–
MW-149	Property, NE quadrant	04/10/18	6.57	895	16.1	64.2[(b)]	0.70	201	1.8
		10/25/18	6.41	814	19.3	–	0.17	-31	–
		12/13/18	6.56	1,354	16.5	–	1.79	132	0.5
		01/30/19	6.67	1,209	17.1	2.9	17.05	121	0.0
		03/13/19	6.29	1,648	17.2	–	0.12	-178	–
		Decommissioned March 2019							
MW-151	Property, SW quadrant	04/10/18	6.69	809	15.1	23.5[(b)]	0.60	64	0.8
		10/25/18	6.26	3,599	18.5	–	0.06	-135	–
		12/14/18	6.74	2,314	11.0	–	0.13	-122	–
		01/31/19	6.86	2,151	13.0	–	0.18	21	–
		03/12/19	6.40	1,430	12.3	–	0.23	-278	–
		Decommissioned March 2019							
MW-156	8th Ave N ROW, E side	04/26/18	6.72	996	18.3	–	0.60	116	0.0
		01/24/19	6.70	1,263	16.1	78.1	0.54	131	0.0
		04/24/19	6.73	1,481	16.8	–	0.57	103	0.4
		07/22/19	7.55	1,452	20.6	–	0.13	-63	0.3
		10/17/19	6.62	1,756	17.4	9.5	0.29	-22	1.4
		01/20/20	6.60	1,739	16.7	75.4	1.02	-30	1.5
		04/24/20	6.74	1,350	15.8	50.0	1.00	105	0.0
		07/15/20	6.57	1,390	22.5	39.0	1.89	-73	2.0
		11/11/20	6.58	642	11.4	120	0.93	-17	–
		02/08/21	6.53	830	10.7	76.7	1.03	-391	–
		05/10/21	6.54	895	16.4	282	0.33	-119	–
MW-189	Valley St ROW, S side	10/14/19	7.40	636	18.1	20.7	0.30	-115	0.1
		01/23/20	7.24	558	13.2	46.6	0.21	-124	0.5
		04/03/20	7.23	430	15.6	39.3	0.22	82	0.5
		08/04/20	7.44	430	18.2	113	0.18	-100	0.5
		11/17/20	7.45	436	14.5	8.3	0.47	-254	–

Table 16

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American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Ferrous Iron (mg/L)
MW-189 (continued)		02/03/21	7.61	512	11.1	20.5	0.78	-503	–
		05/14/21	7.59	564	15.4	–	0.36	-149	–
MW-302	Dexter Ave N ROW E side	10/21/19	7.87	653	17.7	112	0.56	-170	0.5
		01/24/20	7.92	1,142	13.6	–	1.18	-130	1.0
		05/07/20	7.90	748	20.3	26.0	0.78	126	0.0
		07/28/20	7.88	763	18.9	22.0	0.34	-77	0.0
		11/17/20	7.83	572	13.9	88.2	0.74	-156	–
		05/17/21	7.86	644	15.1	195	0.48	-164	–
MW-306	Roy St ROW, S side	10/15/19	6.64	471	16.9	26.7	0.31	119	2.5
		01/16/20	7.12	810	13.4	–	0.42	4	2.6
		04/28/20	6.67	585	15.9	0.3	0.44	-88	2.0
		07/29/20	7.02	491	17.9	7.82	1.02	-19	2.5
		11/06/20	6.81	513	15.9	9.6	0.40	-126	–
		05/18/21	6.83	516	17.0	231	0.30	125	–
MW-308	Alley E of Seattle Roy Aloha Shops	10/11/19	6.51	1,185	14.9	30.1	0.48	-37	3.5
		01/16/20	6.84	1,512	13.2	2.2	0.05	-100	4.0
		04/08/20	6.77	922	14.3	–	0.35	-86	4.8
		07/06/20	6.76	1,275	18.7	12.07	1.54	-147	5.5
		11/06/20	6.53	1,013	13.3	2.5	0.33	-138	–
		05/04/21	6.70	1,233	15.4	51.1	0.57	126	–
MW-315	Mercer St ROW, N side	10/03/19	7.95	545	14.9	18.2	0.54	105	0.0
		01/16/20	8.18	846	8.8	–	0.62	-152	0.4
		04/28/20	7.86	511	14.4	21.4	0.52	-138	0.8
		07/24/20	8.22	1,195	16.3	47.8	6.45	-24	0.0
		11/02/20	7.91	546	12.7	8.6	0.62	-156	–
		05/17/21	7.75	456	16.5	90.9	0.76	-173	–
MW-317	9th Ave N ROW, W side	10/09/19	6.07	1,011	16.8	171	0.30	-85	3.0
		01/16/20	6.49	772	14.7	3.3	0.20	-76	1.5
		04/27/20	–	743	15.5	35.0	0.27	201	2.0
		07/30/20	6.76	705	23.9	3.49	0.41	109	5.0
		11/10/20	6.58	625	13.3	0.8	0.48	-127	–
		05/19/21	6.60	821	16.9	2.3	0.05	-147	–
MW-325	Mercer St ROW, N side	10/03/19	6.68	578	15.2	23.7	0.37	242	0.0
		01/17/20	6.47	870	12.1	17.3	0.35	-12	0.0
		04/21/20	6.18	614	14.2	8.6	0.45	110	0.0
		07/23/20	6.32	1,091	16.4	82.5	1.05	109	0.0
		11/02/20	6.50	546	14.9	7.4	0.84	68	–
		02/08/21	6.52	491	11.8	38.8	1.29	-432	–
		05/17/21	6.53	530	15.8	21.7	0.3	-79	–
MW-327	Lake Union Park, S end	10/02/19	6.85	479	14.2	46.0	0.57	16	3.5
		01/17/20	6.81	482	12.3	5.4	0.30	-62	2.0
		04/09/20	6.84	571	13.6	0.0	0.26	56	5.4
		07/07/20	6.34	515	15.9	12.3	–	-113	6.0
		11/09/20	6.77	560	13.5	11.2	0.17	0	–
		05/25/21	6.81	667	14.3	–	0.12	132	–
MW-330	Valley St ROW, N side	05/14/20	7.69	429	21.1	14	0.87	-60	0.0
		07/16/20	7.55	428	25.4	14.0	0.65	-5	1.0

Table 16

Groundwater Field Parameters, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Ferrous Iron (mg/L)
MW-330 (continued)		12/01/20	7.62	420	14.6	10.1	0.38	-40	–
		05/25/21	7.50	418	15.2	–	0.46	128	–
MW-331	Alley E of Seattle Roy Aloha Shops	04/24/20	6.88	1,043	14.5	43	0.75	-450	4.5
		07/06/20	6.73	1,111	18.5	4.65	0.59	-128	7.0
		11/06/20	6.58	922	14.3	5.1	0.38	-99	–
		05/04/21	6.65	1,118	16.2	–	0.25	127	–
MW-333	900 Roy St, S end	04/29/20	6.59	1,646	17.8	5.6	1.37	-103	5.0
		07/24/20	6.37	1,569	18.7	23.0	0.30	110	6.5
		11/05/20	6.70	1,491	14.2	18.9	0.43	-309	–
		05/18/21	6.44	1,503	18.0	–	0.18	-160	–
MW-344	SDOT Mercer Parcels	06/01/21	7.19	567	19.5	94	0.29	-186	1.0
Intermediate B Zone									
FMW-141	Alley E of Seattle Roy Aloha Shops	10/30/19	7.33	1,124	14.0	23.0	0.39	100	0.5
		01/14/20	6.83	246	14.4	7.5	5.70	-87	1.5
		04/28/20	7.12	349	15.8	27	0.46	49	1.2
		07/22/20	7.22	1,349	19.9	58.7	1.30	-101	0.5
		11/02/20	7.30	1,112	16.7	99.5	0.85	-63	–
		05/03/21	6.79	83	14.7	21.8	2.74	126	–
HMW-9IB	SDOT Mercer Parcels SW quadrant	01/26/21	7.86	655	10.1	11.0	0.83	-544	–
		06/02/21	7.58	653	29.3	19.4	0.63	-132	0.5
MW111	Alley E of Seattle Roy Aloha Shops	12/17/13	7.58	498	–	–	1.19	-99	0.18
		03/23/17	7.62	447	14.0	–	1.19	-147	0.1
		06/14/17	7.29	431	19.7	–	1.15	-33	–
		04/06/18	7.75	605	15.3	–	0.60	83	–
		01/23/19	7.86	528	14.2	–	0.50	-124	–
		04/22/19	7.84	384	13.7	–	0.58	-46	–
		07/15/19	7.78	478	18.3	–	0.35	-138	–
		10/14/19	7.53	509	14.4	1.2	0.57	30	–
		01/16/20	7.56	674	14.0	143	0.10	-138	0.5
		04/23/20	7.73	632	17.0	283	0.37	-122	0.5
		07/06/20	7.52	674	21.9	204	0.56	-6	0.0
		11/02/20	7.57	666	16.3	169	0.59	-47	–
		02/09/21	7.64	611	12.4	220	0.78	-429	–
		05/03/21	7.67	444	16.9	280	0.68	-211	–
MW112	Dexter Ave N ROW W side	12/26/13	7.79	378	–	–	2.58	223	0.23
		03/22/17	7.96	419	14.9	–	0.93	132	–
		06/16/17	7.11	49	22.0	–	5.22	-457	–
		04/12/18	7.07	41	14.8	–	1.10	35	0.0
		12/21/18	6.88	108	13.9	–	0.77	68	–
		04/22/19	7.52	196	17.0	–	0.38	-70	1.0
		07/16/19	7.65	266	20.2	–	0.20	-143	0.0
		10/21/19	6.55	152	16.7	–	0.57	-136	0.5
		01/24/20	6.44	177	11.8	22.6	0.71	-59	2.0
		05/07/20	7.38	218	18.9	32.0	0.53	-89	1.5
		07/27/20	7.57	289	24.9	75.0	0.40	-122	1.6
		11/17/20	7.59	306	14.1	32.9	0.98	-145	0.0
		02/11/21	7.74	410	9.8	19.8	1.01	-366	–
		05/14/21	7.79	446	16.4	–	0.44	119	–

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Sample Location	Property	Sample Date	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Ferrous Iron (mg/L)
MW126	Alley E of Seattle Roy Aloha Shops	03/28/17	7.41	397	12.8	2.0	1.37	-112	–
		06/15/17	7.69	385	15.9	–	0.70	-64	–
		04/06/18	7.87	353	14.3	–	0.30	99	–
		01/22/19	7.88	432	10.7	–	1.25	115	–
		04/29/19	7.34	427	14.7	–	0.42	7	–
		07/18/19	7.41	357	15.9	–	0.25	14	–
		10/15/19	6.72	396	15.1	4.7	0.38	-102	0.5
		01/14/20	7.50	369	12.3	2.0	0.61	-171	0.5
		04/09/20	6.97	405	12.7	1.2	0.41	31	0.0
		07/24/20	7.17	414	19.3	1.00	0.24	-17	0.0
		11/09/20	6.80	323	12.2	1.3	0.34	-72	–
		02/10/21	7.09	444	12.4	28.5	1.55	-528	–
		05/04/21	7.26	403	15.6	–	0.23	402	–
MW130	Property, NW quadrant	03/29/17	7.18	751	9.6	–	2.66	132	1.0
		06/30/17	7.32	858	29.7	–	0.99	-70	0.0
		05/21/18	7.69	571	26.3	–	1.07	-72	0.0
		12/17/18	7.74	1,183	16.5	–	44.85[(d)]	–	0.0
		01/31/19	7.40	1,176	21.4	–	59.05[(d)]	112	0.0
		Decommissioned March 2019							
MW-132	Property, SE quadrant	09/25/17	8.52[(a)]	652	27.3	39.7[(b)]	0.70	-151	–
		04/26/18	7.70	466	25.9	–	3.50	82	–
		10/25/18	7.58	568	19.1	–	1.10	17	–
		12/13/18	7.60	668	14.2	–	0.93	117	–
		01/31/19	7.66	712	14.9	–	0.74	-40	–
		03/11/19	7.62	592	17.2	–	0.99	-24	–
		Decommissioned March 2019							
MW-134	Property, NE quadrant	09/22/17	13.08[(a)]	565	19.0	MAX[(b)]	0.91	-48	–
		04/16/18	7.10	598	15.7	–	0.10	-145	0.0
		10/25/18	7.41	748	18.3	–	0.30	157	–
		12/12/18	7.56	649	17.0	–	0.50	-141	–
		01/28/19	7.74	747	17.1	–	0.53	-141	–
		03/12/19	7.06	759	16.8	–	0.38	171	–
		Decommissioned March 2019							
MW-135	Property, NE quadrant	09/25/17	9.11[(a)]	871	25.3	208[(b)]	1.10	-25	–
		04/25/18	7.38	837	19.5	–	0.80	99	1.5
		10/25/18	7.19	1,034	17.6	–	0.77	-68	–
		12/13/18	7.41	1,341	15.4	–	0.47	124	0.8
		01/31/19	7.34	1,269	21.1	–	0.13	-157	–
		03/13/19	7.13	1,661	15.0	–	0.18	194	–
		Decommissioned March 2019							
MW-136	Property, SW quadrant	09/25/17	10.07[(a)]	465	24.2	MAX[(b)]	0.60	-61	–
		04/16/18	7.94	447	21.9	–	0.40	-77	0.6
		10/29/18	7.57	521	20.8	–	0.62	11	–
		12/13/18	7.56	539	18.6	–	0.34	-149	–
		02/01/19	7.41	546	18.7	–	1.42	-54	–
		03/12/19	7.36	687	14.2	–	0.50	172	–
		Decommissioned March 2019							

Table 16

Groundwater Field Parameters, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Ferrous Iron (mg/L)
MW-139	Property, SE quadrant	09/25/17	9.65[a]	340	26.4	MAX[b]	0.60	-163	–
		04/25/18	7.79	432	20.3	–	0.40	89	0.8
		10/25/18	7.70	445	18.5	–	0.84	-13	–
		12/13/18	7.56	531	12.5	–	0.91	120	–
		01/28/19	7.92	534	13.4	–	1.19	-134	–
		03/11/19	7.11	703	18.4	–	0.70	-56	–
		Decommissioned March 2019							
MW-143	8th Ave N ROW, E side	04/30/18	7.83	905	15.4	–	0.60	97	0.5
		01/29/19	7.64	950	18.1	80.4	0.23	-148	0.8
		04/24/19	7.29	965	14.7	–	0.83	100	0.3
		07/19/19	7.42	835	21.3	–	0.21	-139	1.0
		10/16/19	7.12	891	16.9	–	0.88	-45	0.5
		01/22/20	7.52	1,148	13.5	22.6	0.44	-122	0.5
		04/24/20	7.52	1,020	15.0	1.0	0.62	-134	1.0
		07/29/20	7.59	850	24.9	79.7	1.12	9	0.5
		11/30/20	6.82	1,281	13.2	98.8	0.34	-285	–
		02/08/21	6.72	1,575	12.6	242	0.92	41	–
		05/19/21	6.61	1,763	15.6	101	0.07	-135	–
MW-145	8th Ave N ROW, E side	04/27/18	8.01	718	17.0	–	0.30	101	0.0
		01/29/19	7.60	740	17.4	94.9	0.98	-101	0.0
		04/26/19	7.89	722	16.5	–	0.36	-43	0.0
		Destroyed June 2019, Decommissioned December 2019							
MW-145R	8th Ave N ROW, E side	12/16/19	8.25	480	15.1	32.9	0.45	-106	0.0
		01/21/20	7.40	666	9.0	18.2	0.30	-187	0.0
		04/02/20	7.65	529	15.9	19.4	0.32	35	0.5
		08/03/20	7.86	547	19.3	26.1	0.69	104	1.0
		11/23/20	7.63	466	10.8	85.0	1.35	-156	–
		02/05/21	7.67	634	13.6	46.9	0.73	41	–
		05/12/21	7.70	629	18.1	28.0	0.53	-191	–
MW-147	Roy St ROW, S side	05/01/18	7.85	911	16.8	–	0.40	79	–
		01/22/19	7.60	892	8.6	–	0.79	118	1.0
		04/23/19	7.07	685	17.3	–	0.42	-103	1.5
		07/18/19	6.85	721	17.4	–	0.46	94	2.0
		10/14/19	7.00	671	17.6	90.9	0.38	99	0.5
		01/24/20	7.66	1,031	15.7	307	9.57	-31	0.5
		04/29/20	7.16	805	20.6	73	0.62	-87	2.0
		07/09/20	7.37	833	22.1	188	0.58	-12	1.5
		11/10/20	7.16	790	13.8	41.3	0.52	-144	–
		02/09/21	7.22	719	12.2	266	1.19	46	–
		05/04/21	7.17	727	17.7	265	0.39	-213	–
MW-148	Roy St ROW, S side	05/01/18	8.06	499	13.7	–	0.40	107	0.3
		01/23/19	7.80	706	12.0	–	0.66	116	–
		04/26/19	6.94	717	13.8	–	0.43	82	0.4
		07/22/19	8.43	619	16.6	–	0.24	-143	0.5
		10/16/19	7.35	654	15.1	107	0.17	53	0.5
		01/20/20	7.44	717	13.9	35.9	0.08	-135	0.5
		04/30/20	7.74	623	18.1	207	0.53	-101	0.5
		07/15/20	7.70	593	24.7	618	0.39	-4	0.5
		11/11/20	7.72	461	13.5	360	0.38	-250	–

Table 16

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700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Ferrous Iron (mg/L)
MW-150	Property, NE quadrant	04/10/18	7.11	845	17.5	73.5[(b)]	0.60	315	0.0
		10/25/18	6.79	1,282	18.6	–	0.05	-114	–
		12/12/18	6.95	1,812	15.0	–	0.39	134	–
		01/29/19	6.88	1,959	15.8	–	0.15	123	–
		03/13/19	6.39	2,489	16.5	–	0.19	-214	–
		Decommissioned March 2019							
MW-152	Property, SW quadrant	04/10/18	7.45	846	15.2	15.8[(b)]	0.60	372	0.0
		10/26/18	6.83	894	17.0	–	0.62	-85	–
		12/14/18	6.47	1,207	14.5	–	0.75	116	1.0
		01/31/19	7.26	1,632	11.6	–	9.10	125	–
		03/12/19	6.47	1,922	12.9	–	0.29	-186	–
		Decommissioned March 2019							
MW-157	8th Ave N ROW, E side	04/26/18	6.92	867	20.7	–	0.70	97	–
		01/24/19	6.86	885	14.3	–	0.71	-64	3.0
		04/24/19	6.90	1,296	17.9	–	0.31	74	3.0
		07/22/19	7.28	923	19.5	–	0.14	-118	3.0
		10/16/19	7.14	1,378	17.6	10.5	0.21	-99	0.0
		01/20/20	7.03	1,381	16.4	15.3	0.01	132	2.5
		04/24/20	7.06	1,055	15.4	331	0.27	76	1.2
		07/15/20	7.18	1,032	18.4	19.9	0.17	-137	1.5
		11/23/20	5.32	1,541	11.8	high	0.82	-237	–
MW-190	Valley St ROW, S side	10/14/19	7.59	492	16.6	14.4	0.53	-92	0.2
		01/23/20	7.33	473	12.6	12.2	0.51	-158	0.5
		04/02/20	8.11	441	15.6	32.9	0.34	265	0.5
		08/04/20	7.89	412	20.3	18.3	0.62	91	0.5
		11/18/20	7.45	466	13.7	42.7	0.70	-277	–
		02/03/21	7.59	471	10.4	9.0	0.88	-499	–
		05/14/21	7.63	–	16.5	40.7	–	117	–
MW-303	Dexter Ave N ROW E side	10/21/19	7.88	437	16.4	50.0	0.37	-246	0.0
		01/24/20	9.34	889	–	45.9	–	-314	0.0
		05/07/20	7.67	499	16.7	75.2	0.52	-158	0.0
		07/27/20	7.94	441	25.6	70.0	0.63	-88	0.6
		11/17/20	7.94	439	15.8	69.6	4.59	-51	–
		05/18/21	7.68	415	14.2	165	0.63	-149	–
MW-307	Roy St ROW, S side	10/11/19	8.19	586	16.5	101	0.28	-540	0.0
		01/15/20	8.34	985	10.8	–	0.43	-126	0.0
		04/28/20	7.85	749	15.8	29.0	0.80	-174	0.25
		07/29/20	8.09	627	21.6	64.1	1.04	-27	0.5
		11/06/20	8.00	642	14.9	31.9	0.55	-204	–
		05/18/21	8.01	672	17.0	360	0.48	127	–
MW-309	Alley E of Seattle Roy Aloha Shops	10/14/19	7.67	626	14.6	7.2	0.64	68	0.5
		01/16/20	7.08	656	12.7	1.2	0.30	-127	0.0
		04/08/20	7.05	580	12.8	–	0.44	-128	0.0
		07/06/20	7.40	688	18.5	8.36	0.13	-165	0.5
		11/06/20	7.36	523	13.8	1.2	0.43	-157	–
		05/04/21	7.42	655	16.0	57.8	0.15	126	–
MW-311	Alley E of Seattle Roy Aloha Shops	10/10/19	7.31	1,044	15.0	17.8	0.46	-39	0.0
		01/14/20	7.56	1,098	6.2	3.3	0.22	-140	–
		04/23/20	7.50	846	13.2	26.3	0.68	-96	0.5

Table 16

Groundwater Field Parameters, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Ferrous Iron (mg/L)
MW-311 (continued)		07/16/20	7.39	852	21.2	7.85	0.46	-125	1.0
		11/04/20	7.07	798	16.3	74.7	0.65	-146	–
		05/03/21	7.35	830	16.2	6.0	0.24	129	–
MW-314	Alley E of Seattle Roy Aloha Shops	10/10/19	7.22	860	14.9	50.3	0.35	138	3.5
		01/15/20	7.18	1,428	13.7	–	0.31	31	0.9
		04/22/20	7.04	1,058	13.5	151	0.46	-96	1.5
		07/16/20	6.85	1,146	17.4	556	0.25	11	2.5
		11/04/20	6.62	1,076	17.1	467	0.35	-91	–
		05/03/21	7.08	957	16.0	163	0.23	-223	–
MW-316	Mercer St ROW, N side	10/03/19	7.77	662	15.0	88.0	0.45	203	1.0
		01/16/20	8.08	1,076	11.7	–	0.43	-89	0.4
		04/21/20	7.34	710	14.8	83.6	0.39	109	0.25
		07/24/20	7.65	713	16.8	54.2	0.46	191	0.5
		11/02/20	7.89	706	14.7	9.9	0.84	-154	–
		05/17/21	7.79	698	18.6	193	0.51	-191	–
MW-318	9th Ave N ROW, W side	10/08/19	7.09	846	15.3	–	0.48	-84	4.0
		01/16/20	6.55	979	14.5	1.3	0.50	-60	2.0
		04/27/20	7.62	1,276	16.8	35.0	0.25	38	3.6
		07/30/20	6.70	1,156	18.9	16.0	1.17	-68	7.0
		11/12/20	6.56	1,204	15.7	64.3	4.62	-122	–
		05/19/21	6.61	1,183	16.7	26.1	0.20	-126	–
MW-322	9th Ave N ROW, W side	10/07/19	6.68	1,400	16.9	28.7	0.45	-66	0.0
		01/21/20	6.69	1,353	14.3	5.5	0.40	-49	1.5
		04/29/20	–	1,190	16.3	4.0	0.90	198	5.6
		07/07/20	6.74	895	16.0	12.2	0.15	-113	5.8
		11/24/20	6.67	924	15.4	16.7	0.48	-131	–
		05/19/21	6.61	1,121	16.7	9.0	0.22	-116	–
MW-334	900 Roy St, S end	04/24/20	7.06	1,443	16.4	134	0.50	-96	6.0
		07/07/20	6.63	1,998	17.9	38.0	0.37	-6	5.0
		11/05/20	7.10	2,108	15.8	53.4	0.52	-271	–
		05/13/21	6.85	2,019	21.5	6.1	0.18	-150	–
MW-335	Mercer St ROW, N side	05/01/20	6.50	688	17.8	40	0.16	64	0.8
		07/08/20	6.66	526	21.1	1.0	0.29	-3	0.0
		11/02/20	6.58	788	17.5	1.3	0.39	17	–
		02/10/21	6.55	1,140	15.0	7.0	1.17	52	–
		05/26/21	6.51	1,185	16.5	–	0.34	-113	–
MW-338	Lake Union Park, N end	05/07/20	6.42	1,320	19.6	14.8	0.42	-103	3.0
		07/23/20	6.55	896	16.3	12.0	2.73	-91	9.0
		11/10/20	6.32	856	10.7	1.0	0.26	-123	–
		05/04/21	6.40	1,155	16.1	–	1.01	120	–
MW-340	Lake Union Park, S end	05/12/20	6.71	1,044	16.8	6	2.73	-181	6.0
		07/17/20	6.54	968	14.8	310	1.97	-86	7.0
		11/09/20	6.46	699	12.8	3.3	0.17	-146	0.0
		05/13/21	6.42	829	14.9	–	0.14	130	0.0
MW-345	SDOT Mercer Parcels	06/01/21	7.93	675	22.8	82	0.51	-291	0.0
MW-346	SDOT Mercer Parcels	06/02/21	7.93	695	17.0	189	0.54	-396	0.6
MW-347	SDOT Mercer Parcels	06/01/21	8.42	736	21.7	84	0.39	-14	0.0
MW-348	SDOT Mercer Parcels	06/01/21	7.70	692	21.1	100	0.58	29	0.0

Table 16

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Sample Location	Property	Sample Date	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Ferrous Iron (mg/L)
MW-349	SDOT Mercer Parcels	06/01/21	7.53	595	19.1	37	0.28	16	0.0
MW-350	SDOT Mercer Parcels	06/01/21	7.91	652	23.2	161	0.28	-493	0.0
W-MW-01	8th Ave N ROW, W side	04/13/18	7.91	539	14.5	–	0.40	67	0.8
		10/29/18	7.50	565	16.6	–	0.67	-91	–
		12/13/18	7.36	583	17.9	–	0.34	-123	–
		01/25/19	7.46	703	12.4	MAX[b]	0.51	127	1.5
		03/11/19	7.36	737	15.4	–	0.36	198	–
		04/25/19	7.64	758	16.7	–	0.61	32	0.6
		07/23/19	7.75	642	19.3	–	0.17	-153	0.0
		10/15/19	7.61	900	18.8	30.6	0.21	-142	0.0
		01/27/20	7.18	834	14.6	36.8	0.28	-113	0.5
		04/03/20	7.55	648	13.2	5.9	0.36	-120	0.5
		07/31/20	7.53	658	18.5	4.50	1.11	-87	–
		11/24/20	7.72	754	12.6	39.7	0.17	-67	–
		02/03/21	7.39	984	12.5	4.0	0.12	33	–
		05/17/21	6.71	2,105	15.1	–	0.63	126	–
W-MW-02	8th Ave N ROW, W side	12/16/13	7.05	999	–	–	0.30	-84	0.87
		03/27/17	6.53	1,239	17.8	–	0.41	135	1.8
		06/19/17	6.02	1,326	20.0	–	1.45[d]	-11	1.5
		06/12/18	6.80	1,594	16.1	–	0.75	23	3.4
		10/26/18	6.32	1,763	19.2	–	0.41	-63	–
		12/12/18	6.51	2,025	15.7	–	0.44	125	–
		01/25/19	6.49	1,687	16.9	25.2	0.53	-52	2.0
		03/11/19	6.50	1,832	14.8	–	0.95	-9	–
		04/23/19	6.68	1,688	13.7	–	0.72	52	0.5
		07/23/19	6.61	1,740	22.3	–	0.36	-90	3.0
		10/18/19	6.65	2,030	19.1	32.7	0.24	-2	3.4
		01/28/20	7.26	2,603	16.3	–	–	-96	6.0
		04/01/20	6.66	2,140	15.7	101	0.40	652	2.5
		07/31/20	6.52	1,858	20.9	70.0	1.02	-32	–
Deep Zone									
FMW-3D	Terry Ave N ROW, E side	03/24/17	6.85	302	13.7	16.9	1.06	-75	–
		06/23/17	6.81	356	19.9	–	0.48	-17	–
FMW-129	SDOT Mercer Parcels NE quadrant	04/10/17	8.88	891	12.4	–	0.82	-116	0.0
		06/23/17	6.82	703	20.2	–	0.60	-31	1.0
		05/01/19	6.83	666	15.9	–	0.44	7	–
		07/16/19	6.63	669	14.6	–	0.47	97	–
		10/21/19	7.02	548	14.4	84.7	0.15	198	0.5
		01/14/20	6.44	584	12.3	52.8	0.30	70	0.0
		05/06/20	6.66	942	14.3	>1000	0.38	3	0.5
		07/10/20	6.88	826	17.7	MAX	0.24	-1	1.0
		11/10/20	6.98	834	13.7	834	0.29	-107	–
		02/10/21	7.31	97[c]	13.0	18.3	1.87	152	–
		05/26/21	6.71	794	17.0	–	0.31	-137	–
FMW-131	Block 37, SE quadrant	03/24/17	6.73	342	13.3	2.9	0.84	-42	0.5
		06/23/17	6.71	552	15.4	–	0.78	25	0.3
		04/22/19	6.44	224	12.6	–	0.41	-22	–

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Sample Location	Property	Sample Date	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Ferrous Iron (mg/L)
FMW-131 (continued)		07/01/19	–	–	–	–	–	–	–
		10/21/19	7.19	267	14.3	–	0.30	-27	0.5
		01/22/20	6.38	273	12.3	5.0	1.83	82	0.5
		04/29/20	6.41	797	16.2	95.0	0.40	-1	2.5
		07/30/20	6.86	277	15.3	2.20	0.46	42	0.0
		11/19/20	6.74	220	12.6	21.3	0.96	-298	0.0
		02/12/21	6.68	378	12.1	104	0.26	-39	–
		05/13/21	6.43	396	15.1	–	0.2	130	–
FMW-137	Alley E of Block 38 West	11/06/19	6.99	704	14.0	–	0.40	267	0.0
		01/22/20	6.62	1,001	12.0	12.4	0.48	144	0.0
		05/06/20	6.36	1,552	14.3	296	0.47	-93	2.5
		07/31/20	6.61	1,422	16.4	122	4.84	-70	2.8
		11/24/20	6.08	1,462	13.8	55.9	1.97	-44	–
		02/12/21	6.85	266	12.5	94.0	0.27	-295	–
		06/02/21	6.76	402	15.1	–	0.26	-74	–
FMW-140	900 Roy St, S end	10/31/19	6.34	699	15.5	83.0	0.38	-37	0.5
		01/22/20	6.77	1,666	12.4	1.6	0.32	-67	3.5
		04/28/20	6.58	1,183	15.7	115	0.51	92	4.2
		07/07/20	6.70	1,164	19.5	149	0.31	-3	6.0
		11/13/20	6.51	1,057	15.8	91.4	0.34	-179	–
		05/18/21	6.77	794	18.2	–	0.21	-174	–
GEI-2	Block 37, NW quadrant	03/24/17	6.43	890	12.6	0.5	0.84	-78	0.3
		06/23/17	6.68	804	16.0	–	0.45	-80	1.0
		04/22/19	6.61	933	13.0	–	0.37	-45	–
		07/16/19	6.71	708	16.9	–	0.26	-85	1.5
		10/21/19	6.92	1,297	14.8	–	0.30	-71	2.2
		01/22/20	6.70	2,304	11.8	3.9	0.24	5	2.6
		04/29/20	6.55	1,307	14.6	180	0.40	-102	2.0
		07/30/20	6.79	898	15.9	149	0.28	-80	5.4
		11/19/20	6.64	977	13.8	2.4	0.33	-397	–
		02/12/21	6.76	1,011	10.8	–	0.68	-35	–
		05/13/21	6.55	981	14.9	–	0.29	133	–
MW102	Valley St ROW, S side	03/29/17	7.87	417	11.6	–	1.55	148	–
		06/15/17	7.89	292	16.8	–	0.69	-88	–
		04/25/18	7.89	297	19.5	–	0.40	66	1.0
		01/24/19	8.01	314	11.5	–	0.63	-124	0.0
		05/01/19	8.32	303	16.9	–	0.64	97	0.5
		07/18/19	7.40	320	20.5	–	0.12	-73	0.8
		11/14/19	7.76	295	16.9	153	2.41	202	0.0
		01/23/20	7.36	422	14.4	40	0.38	-127	0.5
		04/02/20	6.85	313	15.9	63	0.49	108	0.0
		08/04/20	7.74	311	18.2	41.9	0.42	-28	0.0
		11/18/20	7.61	302	14.7	83.6	0.65	-333	–
		02/03/21	7.76	308	12.6	95.2	1.00	-502	–
		05/14/21	7.72	318	15.3	79.6	0.67	-174	–
MW103	Alley E of Seattle Roy Aloha Shops	12/18/13	10.45	735	–	–	0.26	267	1.39
		03/23/17	7.49	799	13.4	–	0.91	155	0.3
		06/12/17	7.35	648	17.0	–	0.31	-88	1.8
		04/06/18	7.52	521	15.1	–	0.60	91	–

Table 16

Groundwater Field Parameters, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Ferrous Iron (mg/L)
MW103 (continued)		01/23/19	9.60	359	13.8	–	0.55	126	–
		04/22/19	7.21	693	13.4	–	0.60	6	–
		07/15/19	7.14	728	17.9	–	0.54	31	–
		10/14/19	7.20	655	15.9	5.9	0.05	-57	0.5
		01/16/20	7.30	859	14.3	77.7	0.10	-120	1.0
		04/23/20	7.59	514	15.6	241	0.31	-119	1.0
		07/06/20	7.23	438	18.0	364	0.52	46	0.5
		11/02/20	7.59	425	17.4	375	0.35	-58	–
		02/10/21	7.49	433	12.5	–	0.95	-336	–
		05/03/21	7.37	561	15.6	27.7	0.34	-214	–
MW104	8th Ave N ROW, W side	12/17/13	8.49	591	–	–	0.48	245	5.03
		03/30/17	6.28	667	8.7	–	1.84	131	–
		06/30/17	7.70	383	25.5	–	0.23	-131	0.0
		04/09/18	8.47	425	20.9	–	0.20	33	0.3
		10/25/18	11.48	750	19.2	–	0.63	131	–
		12/13/18	9.33	334	19.6	–	0.20	-259	–
		02/01/19	9.65	153	20.2	MAX[(b)]	0.11	-205	0.0
		03/13/19	9.03	407	18.6	–	0.24	122	
		04/23/19	9.10	376	18.6	–	0.21	-100	0.0
		07/22/19	9.94	373	20.8	–	0.24	138	0.0
		10/18/19	8.73	542	18.6	35.5	0.21	-133	0.0
		01/29/20	9.30	541	18.0	29.3	–	-217	0.0
		04/01/20	8.00	409	18.9	67.9	0.19	33	0.5
		07/31/20	7.64	367	20.3	32.0	0.40	7	–
		11/17/20	7.49	378	18.0	89.5	0.35	-215	–
		02/10/21	7.58	371	15.9	136	0.55	40	–
MW105	Roy St ROW, S side	12/29/13	7.49	1,165	–	–	1.26	216	2.01
		04/21/17	7.47	785	17.1	105	2.34	-37	–
		06/12/17	7.37	734	17.1	–	0.70	-64	–
		04/11/18	9.48[(a)]	469	14.4	–	1.40	42	0.8
		01/23/19	7.66	570	13.4	–	0.67	107	–
		04/23/19	7.82	580	15.3	–	0.39	-58	0.5
		07/17/19	7.53	625	17.1	–	0.32	127	–
		10/22/19	7.29	722	15.2	49	0.60	-147	1.5
		01/20/20	7.42	1,148	14.0	65	0.74	-132	1.2
		05/12/20	7.51	629	17.0	16	0.65	-77	0.5
		07/27/20	7.48	606	21.4	173	0.79	-92	1.0
		11/17/20	7.47	560	12.7	37.4	1.26	-51	–
		02/11/21	7.41	530	9.5	91.4	1.05	-391	–
		06/07/21	7.36	532	21.2	142	0.58	96	–
MW106	SDOT Mercer Parcels NW quadrant	04/14/17	9.47	726	15.1	457	2.00	2	0.0
		06/30/17	7.69	566	19.7	–	0.40	-128	0.0
		05/04/18	7.91	482	16.0	–	0.50	100	0.0
		04/26/19	7.79	507	15.6	–	0.53	-20	0.0
		07/19/19	7.51	615	17.6	–	0.50	51	0.0
		10/18/19	7.86	534	16.0	216	0.42	49	0.5
		01/14/20	7.85	961	11.4	–	0.60	13	0.0
		05/06/20	7.73	588	16.5	117	0.53	-99	0.0
		07/10/20	7.76	580	18.2	545	0.61	-14	0.5

Table 16

Groundwater Field Parameters, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Ferrous Iron (mg/L)
MW106 (continued)		11/10/20	7.60	513	15.8	98.5	0.37	-167	–
		02/12/21	7.65	425	12.9	48.2	0.55	-24	–
		05/13/21	9.04[a]	70	18.2	226	3.33	-117	–
MW113	9th Ave N ROW, W side	12/19/13	10.0	267	–	–	0.26	264	0.03
		03/22/17	6.54	1,426	15.2	2.1	1.10	-79	4.0
		06/16/17	6.52	1,145	12.9	–	0.57	-6	1.5
		04/11/18	9.44[a]	946	15.0	–	0.60	63	–
		02/07/19	6.64	1,219	9.9	2.4	0.80	76	2.5
		07/17/19	6.72	667	17.4	–	1.69	241	0.3
		10/22/19	6.33	681	16.6	11.8	0.19	151	3.6
		01/14/20	6.61	1,197	13.5	–	0.50	-293	–
		02/18/20[c]	6.63	1,261	15.1	–	0.71	-32	–
		03/24/20[c]	6.48	994	14.5	–	0.31	-16	–
		04/27/20	6.56	1,031	16.2	1.4	0.36	-26	4.5
		05/19/20[c]	6.50	923	16.7	–	0.57	-52	–
		07/28/20	6.54	973	16.5	–	0.28	-86	–
		11/24/20	6.56	729	15.2	34.4	0.41	-67	–
		02/10/21	7.03	96[c]	13.6	14.9	5.04	215	–
		05/25/21	6.50	870	16.8	–	0.21	-141	–
MW122	Alley E of Seattle Roy Aloha Shops	03/28/17	7.89	519	13.5	–	0.64	109	–
		06/14/17	7.72	374	16.7	–	0.46	-69	–
		04/06/18	7.93	336	14.9	–	0.60	77	–
		10/14/19	6.96	346	14.6	3.2	0.96	258	0.0
		01/17/20	7.19	362	13.7	1.2	0.20	23	–
		04/07/20	7.13	320	15.3	–	0.25	-13	0.0
		07/24/20	7.81	352	21.0	2.00	0.46	23	0.0
		11/06/20	7.50	282	13.6	17.4	0.20	-129	–
		05/03/21	7.68	345	14.8	–	0.14	112	–
MW123	Westlake Ave N ROW W side	04/01/17	6.85	795	13.1	14.5	1.10	-117	–
		06/24/17	6.89	737	17.3	–	1.07	-89	–
		04/14/18	6.82	888	14.5	–	0.50	166	–
		10/18/19	6.71	947	14.3	6.0	0.36	-65	2.2
		01/22/20	6.79	687	13.8	4.7	1.89	25	4.0
		05/04/20	6.74	845	16.7	10.9	0.29	-102	3.0
		07/30/20	6.86	844	20.4	9.46	0.44	114	3.5
		11/12/20	6.73	736	14.5	–	0.34	-98	–
		05/26/21	6.77	853	17.7	–	0.26	-142	–
MW124	Valley St ROW, S side	12/26/13	7.84	285	–	–	1.43	217	0.39
		03/29/17	7.96	306	13.9	–	1.06	117	–
		06/15/17	7.64	292	16.5	–	0.50	9	–
		04/13/18	7.57	281	14.3	–	1.30	327	0.5
		10/11/19	6.99	398	17.8	23.1	5.01	-64	0.0
		01/30/20	8.30	450	15.6	68.0	–	-186	0.0
		04/03/20	7.39	322	15.0	408.0	0.37	114	0.0
		08/03/20	7.45	324	17.2	103	0.32	10	0.0
		11/18/20	7.50	261	13.4	82.4	0.71	-160	–
		06/08/21	7.23	322	15.6	129	0.53	-126	–

Table 16

Groundwater Field Parameters, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Ferrous Iron (mg/L)
MW128	Westlake Ave N ROW E side	03/29/17	6.62	800	12.5	7.0	0.99	-88	1.8
		06/21/17	6.74	1,588	17.8	–	0.56	-79	–
		04/09/18	7.57	850	17.9	–	0.40	-45	–
		07/18/19	6.80	1,040	17.3	–	0.24	-102	–
		10/11/19	6.77	880	15.6	156	0.44	-22	4.5
		01/20/20	7.05	947	14.2	1.1	0.30	-49	2.0
		02/18/20[c]	6.78	1175	14.2	–	0.64	-7	–
		04/27/20	6.82	941	15.1	3.5	0.12	-76	6.0
		06/29/20	7.38	810	15.6	–	0.33	-155	3.5
		11/09/20	6.85	775	14.1	93.0	0.37	-129	–
		05/25/21	6.84	758	17.7	–	0.23	-116	–
MW-133	Property, SW quadrant	09/25/17	9.85[a]	372	24.0	–	0.80	-157	–
		04/25/18	7.79	344	21.7	–	0.30	-25	1.3
		10/26/18	8.16	403	19.6	–	0.71	125	–
		12/12/18	7.69	362	17.3	–	0.90	-74	–
		02/01/19	7.76	362	19.4	–	0.34	-163	–
		03/13/19	6.99	413	12.1	–	0.91	181	–
		Decommissioned March 2019							
MW-137	Property, SW quadrant	09/25/17	9.22[a]	342	26.0	223[b]	0.60	-148	–
		04/12/18	9.29	386	22.1	–	0.10	-112	0.8
		10/26/18	7.54	469	24.2	–	8.74	141	–
		12/12/18	7.27	398	18.8	–	0.74	-117	–
		02/01/19	9.26	437	18.8	–	0.21	-171	–
		03/11/19	7.39	493	18.1	–	0.50	180	–
		Decommissioned March 2019							
MW-138	Dexter Ave N ROW E side	09/21/17	8.32[a]	390	18.1	MAX[b]	0.52	-331	–
		04/11/18	7.89	350	17.4	–	0.20	34	0.0
		10/29/18	7.43	346	16.5	–	0.38	122	–
		12/17/18	7.82	424	15.7	–	0.49	-145	–
		01/03/19	7.33	358	16.2	–	2.41	50	0.0
		03/14/19	6.76	426	14.2	–	0.44	149	–
		04/22/19	7.47	359	17.1	–	0.34	-65	3.5
		07/19/19	7.61	366	18.9	–	0.21	-156	0.5
		10/21/19	7.36	398	16.7	–	0.54	-146	0.5
		01/27/20	7.25	509	16.6	145	0.04	-145	0.5
		05/08/20	7.29	262	19.3	–	3.54	31	0.5
		07/27/20	7.37	380	19.7	305	0.30	106	1.0
		11/18/20	7.25	339	16.8	186	0.32	-38	–
		02/11/21	7.36	350	14.3	263	0.49	47	–
		06/07/21	7.22	329	14.2	425	1.67	-147	–
MW-140	Roy St ROW, N side	09/22/17	7.99[a]	560	21.6	200[b]	0.73	-209	–
		04/12/18	7.74	421	14.0	–	0.30	50	0.3
		Decommissioned							
MW-141	Property, SE quadrant	09/22/17	9.90[a]	398	24.0	MAX[b]	0.40	-393	–
		04/12/18	7.39	337	20.9	–	0.20	38	–
		10/25/18	7.25	376	19.5	–	0.41	150	–
		12/12/18	7.20	339	17.0	–	0.92	-110	–
		01/30/19	7.35	411	20.5	–	0.28	-134	–

Table 16

Groundwater Field Parameters, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Ferrous Iron (mg/L)
MW-141 (continued)		03/11/19	7.29	427	16.4	–	0.55	185	–
		Decommissioned March 2019							
MW-153	Roy St ROW, S side	05/01/18	8.91	369	16.5	–	0.40	87	–
		01/22/19	8.91	391	15.2	–	0.67	94	0.0
		04/24/19	8.62	327	18.0	–	0.45	93	0.0
		07/22/19	7.65	370	17.1	–	8.17	3	0.0
		11/18/19	7.45	330	17.6	90.0	0.27	228	–
		01/21/20	7.83	648	15.0	40.7	0.32	-113	0.0
		04/30/20	7.82	298	17.3	57.3	0.35	-77	0.0
		07/15/20	7.80	308	22.5	187	0.79	-10	0.0
		11/09/20	7.87	315	15.8	47.2	0.63	-134	–
		02/09/21	7.87	327	14.1	69.0	0.62	35	–
		05/10/21	7.89	336	18.9	34.6	0.7	-188	–
MW-158A	8th Ave N ROW, E side	04/30/18	8.20	1,306	14.8	–	0.40	102	0.5
		01/24/19	7.91	707	13.8	MAX[(b)]	0.53	-164	0.0
		04/25/19	7.58	775	17.7	–	0.48	38	NR
		07/19/19	7.72	653	8.3	–	0.15	-144	0.0
		10/16/19	7.46	856	15.9	47.0	0.75	-79	–
		01/21/20	7.60	916	15.6	308	0.18	-168	–
		04/24/20	7.56	692	13.0	200	0.99	63	0.0
		07/15/20	7.62	681	18.4	189	0.32	-149	0.0
		11/23/20	7.64	690	7.7	389	1.78	-364	–
		02/02/21	7.71	716	11.5	285	1.00	-502	–
		05/10/21	7.73	703	18.2	262	0.61	-207	–
MW-160	8th Ave N ROW, W side	05/21/18	7.96	323	23.2	–	0.42	-247	0.0
		01/25/19	7.57	404	18.4	MAX[(b)]	0.40	95	0.5
		05/01/19	7.71	359	24.0	–	0.32	-121	0.0
		07/23/19	7.73	341	21.8	–	0.75	115	0.5
		10/17/19	7.58	487	19.5	85.0	0.53	-111	0.8
		01/29/20	8.67	528	19.5	28.8	–	-198	0.0
		04/01/20	7.42	359	18.8	251	0.42	99	0.0
		08/03/20	7.76	344	19.6	193	0.54	122	0.5
		02/05/21	7.47	334	14.6	151	1.00	-476	–
MW-161	8th Ave N ROW, W side	05/21/18	7.59	544	21.6	–	0.48	-153	0.0
		01/25/19	7.49	661	17.9	MAX[(b)]	0.61	99	0.0
		04/29/19	7.27	662	18.4	–	0.31	24	0.0
		07/18/19	7.10	586	20.9	–	0.36	-30	0.0
		10/14/19	7.44	837	19.7	11.5	0.16	-106	0.0
		01/28/20	8.29	792	15.3	–	–	-117	0.3
		04/03/20	7.54	510	15.3	17.1	0.22	-119	0.5
		07/31/20	7.56	466	18.9	6.60	0.14	-60	0.0
		12/01/20	7.58	438	17.5	8.7	0.25	-31	–
		02/05/21	7.48	424	14.5	32.8	0.61	-507	–
		05/25/21	7.36	444	15	–	0.17	126	–
MW-162	Property, NE quadrant	02/05/19	7.68	541	12.7	7.5	0.29	110	–
		03/12/19	7.52	402	17.8	–	0.31	-82	–
		Decommissioned March 2019							

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American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Ferrous Iron (mg/L)
MW-163	Property, NW quadrant	02/05/19	7.67	394	15.5	4.5	3.73	-45	–
		03/12/19	7.45	392	15.6	–	0.59	145	–
		Decommissioned March 2019							
MW-164	Property, SW quadrant	02/05/19	7.63	462	14.6	10.5	0.56	-35	–
		03/12/19	7.30	686	15.4	–	0.23	149	–
		Decommissioned March 2019							
MW-304	Dexter Ave N ROW E side	10/21/19	7.91	352	17.3	91.0	0.59	-214	0.0
		01/27/20	7.96	503	16.3	172	–	-196	0.5
		05/07/20	7.54	297	18.0	221	0.59	-120	0.7
		07/27/20	7.99	330	21.0	392	1.10	-14	0.1
		05/18/21	7.37	346	13.8	315	0.56	118	–
MW-319	9th Ave N ROW, W side	10/08/19	6.90	563	15.4	22.8	0.43	193	3.5
		01/16/20	6.90	577	14.5	1.3	0.20	-69	3.0
		04/27/20	6.81	655	17.8	35.0	0.47	88	–
		07/27/20	6.60	637	21.8	6.08	0.31	109	2.5
		11/12/20	6.81	600	15.7	7.8	0.41	-149	–
		05/19/21	6.90	729	16.5	10.0	0.28	-113	–
MW-323	9th Ave N ROW, W side	10/09/19	6.85	489	16.7	17.6	0.35	-335	0.0
		01/20/20	7.32	786	15.2	3.4	0.50	-57	2.5
		04/23/20	–	705	15.9	13.4	0.39	221	2.4
		07/07/20	7.33	689	16.8	44.3	0.40	-25	2.8
		11/24/20	7.26	498	12.5	26.0	0.59	-143	–
		05/20/21	7.25	681	15.4	1.0	0.27	-156	–
MW-324	Roy St ROW, N side	10/02/19	8.43	1,060	16.2	89.6	0.36	162	2.0
		01/20/20	7.05	1,717	12.0	3.6	0.44	43	4.4
		04/24/20	6.79	1,492	15.9	14.0	0.22	-100	4.0
		07/07/20	6.72	1,283	17.3	15.9	0.30	4	4.0
		11/13/20	6.50	1,163	15.4	65.1	0.31	-153	–
		05/20/21	6.65	1,015	16.7	0.3	0.24	-96	–
MW-326	Mercer St ROW, N side	10/03/19	7.53	529	15.9	45.3	0.42	53	0.5
		01/17/20	7.23	875	12.5	–	0.49	47	0.8
		04/21/20	6.55	580	14.6	14.0	0.45	139	2.0
		07/23/20	6.84	1,369	16.0	9.3	0.10	-99	4.5
		11/02/20	6.99	704	15.2	6.9	0.40	-129	–
		02/09/21	6.97	752	13.0	17.0	0.31	46	–
		05/18/21	6.92	671	15.9	–	0.45	-156	–
MW-328	Lake Union Park, S end	10/02/19	6.82	4,785	14.6	26.6	0.41	-68	4.0
		01/17/20	6.72	1,190	12.1	5.9	0.40	-33	2.5
		04/08/20	6.53	1,154	14.1	–	0.20	-91	3.6
		07/07/20	6.83	1,014	14.2	11.5	0.26	-103	5.5
		11/09/20	6.70	1,107	12.5	9.3	0.47	-116	–
		05/25/21	6.77	1,015	14.2	–	0.19	133	–
MW-329	Westlake Ave N ROW E side	10/03/19	6.92	1,012	18.6	34.8	0.38	-114	4.0
		01/20/20	7.20	1,051	14.0	–	0.30	-19	1.5
		04/27/20	7.01	951	17.9	64.1	0.70	-77	2.5
		08/03/20	7.13	913	16.5	79.5	0.31	-78	3.0
		11/09/20	6.94	877	14.3	29.9	0.47	-112	–
		05/25/21	6.96	883	17.3	–	0.28	-134	–

Table 16

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American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Ferrous Iron (mg/L)
MW-336	Mercer St ROW, N side	05/05/20	6.92	1,126	16.4	3.0	1.88	-84	6.5
		07/08/20	6.94	990	21.3	6.0	0.45	-9	4.0
		11/02/20	6.81	940	17.6	5.9	0.37	-105	–
		02/10/21	6.86	935	15.2	–	0.26	49	–
		05/26/21	6.81	955	16.8	–	0.32	-143	–
MW-341	Lake Union Park, S end	05/12/20	7.44	779	14.4	12.0	0.78	-166	3.0
		07/07/20	7.14	771	14.8	18.6	0.12	-136	5.5
		11/09/20	7.63	337	11.5	11.4	0.10	-293	–
		05/25/21	7.01	762	15.5	–	0.12	132	–
MW-342	Valley St ROW, S side	05/04/20	7.40	385	14.5	9.0	0.27	-20	0.0
		07/30/20	6.60	473	16.5	17.0	0.39	123	3.5
		11/17/20	6.80	186	15.1	–	0.30	-65	–
		06/04/21	6.52	434	15.4	8.0	0.22	-113	–
MW-343	Valley St ROW, S side	05/04/20	6.92	1,511	15.5	8.0	0.63	-123	6.5
		07/30/20	6.95	1,496	16.6	44.2	0.78	129	4.3
		11/24/20	6.86	1,250	13.9	430	0.62	-131	–
		06/04/21	6.86	724	15.1	8.3	0.28	-148	–
Treatment Zone A Injection Wells									
IW-4A	Property, NW quadrant	03/28/18	6.49	540	17.1	–	0.50	65	–
		Decommissioned March 2019							
IW-7A	Property, NE quadrant	04/02/18	7.07	1,096	15.7	–	0.60	123	–
		Decommissioned March 2019							
IW-9A	Property, NW quadrant	03/29/18	6.58	528	16.8	–	1.40	88	–
IW-18A	Property, NE quadrant	03/30/18	6.47	928	17.7	–	0.50	117	–
		12/13/18	6.26	2,199	17.0	–	1.11	–	
		Decommissioned March 2019							
IW-22A	Property, NE quadrant	04/02/18	6.96	1,005	18.6	–	0.60	93	–
		Decommissioned March 2019							
IW-37A	Property, SW quadrant	03/28/18	8.17	319	15.9	–	0.70	10	–
		Decommissioned March 2019							
IW-38A	Property, SW quadrant	12/14/18	6.60	1,945	15.8	–	0.26	144	–
		Decommissioned March 2019							
IW-41A	Property, SW quadrant	04/10/18	8.12	364	17.4	–	0.30	59	–
		Decommissioned March 2019							
IW-42A	Property, SW quadrant	04/10/18	7.53	590	14.2	–	0.40	73	–
		Decommissioned March 2019							
IW-45A	Property, SW quadrant	04/04/18	7.18	573	13.3	–	0.70	69	–
		Decommissioned March 2019							
IW-46A	Property, SE quadrant	03/28/18	6.78	1,564	14.7	–	0.50	89	–
		Decommissioned March 2019							
IW-48A	Property, SE quadrant	04/02/18	6.88	2,007	15.4	–	0.70	73	–
		Decommissioned March 2019							
MW-165	Property, NE quadrant	11/04/19	6.64	2,285	16.9	4.8	0.21	-177	4.0
		01/30/20	7.32	2,923	15.6	6.9	0.96	-162	4.5
		05/01/20	6.72	2,758	15.5	23.8	3.91	-75	3.0
		07/09/20	6.63	2,501	18.1	1.79	0.10	-100	6.0
		11/05/20	6.61	2,377	18.0	2.2	0.19	-244	–
		02/04/21	6.60	1,539	16.2	–	0.14	48	–
		05/06/21	6.61	1,655	15	–	0.24	-140	–

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MW-169	Property, SW quadrant	11/05/19	7.68	1,295	18.9	4.3	0.18	-73	2.5
		01/23/20	7.62	2,075	13.4	5.7	0.39	-189	3.0
		05/05/20	7.31	1,685	15.8	5.7	0.38	-189	2.0
		07/10/20	7.69	1,493	17.6	10.8	0.20	-155	4.2
		11/03/20	7.49	1,610	17.9	–	0.22	-215	–
		11/30/20	7.58	343	17.0	25.0	0.28	-28	–
		02/17/21	7.77	1,457	12.0	1.0	4.37	-143	–
		05/07/21	7.80	1,333	14.1	1.5	4.85	-145	–
MW-173	Property, SE quadrant	11/01/19	7.30	1,279	16.5	3.0	0.27	-160	1.5
		01/28/20	9.06	1,540	14.0	10.4	0.70	-122	2.0
		05/01/20	7.47	1,036	16.2	1.5	0.17	-112	1.0
		07/09/20	7.38	1,044	17.6	1.4	0.30	-34	1.4
		11/05/20	7.31	1,006	18.1	1.3	2.38	-183	–
		02/04/21	7.16	880	13.1	9.4	1.71	-452	–
		05/05/21	7.41	916	15.1	0.3	0.74	-173	–
MW-177	Property, SW quadrant	11/06/19	6.98	1,769	15.2	4.6	0.17	-80	3.1
		01/24/20	6.71	2,491	15.5	–	1.84	-92	–
		04/01/20	6.62	1,939	16.0	28	2.54	-154	5.0
		07/10/20	6.69	1,996	17.3	25.9	0.10	-63	3.0
		11/03/20	6.86	1,300	17.0	1.5	0.33	-70	–
		02/18/21	6.98	1,155	13.4	2.5	0.64	-74	–
		05/06/21	6.96	983	14.3	–	1.13	-143	–
MW-181	Property, SW quadrant	11/08/19	7.29	1,341	17.1	6.7	0.22	154	2.0
		01/27/20	6.86	2,322	14.4	9.7	0.32	-110	4.4
		04/01/20	6.41	1,422	16.3	5.4	0.13	-71	5.2
		07/08/20	6.73	1,474	17.5	41.9	0.71	-118	4.0
		11/04/20	6.91	1,629	17.4	2.5	0.23	-178	–
		02/19/21	7.30	1,454	12.5	9.2	0.73	-17	–
		05/06/21	7.18	1,330	15.6	7.5	0.11	121	–
MW-185	Property, SE quadrant	10/31/19	7.05	1,944	12.8	7.4	0.48	-109	2.5
		01/29/20	6.79	3,212	15.9	2.2	0.03	-130	3.0
		04/02/20	6.82	2,168	15.1	13.1	0.25	-147	6.2
		07/08/20	6.91	1,694	17.1	11.8	1.30	-136	5.5
		11/04/20	7.20	1,175	16.6	0.8	0.07	-59	–
		02/16/21	7.37	1,167	12.8	1.6	1.15	-8	–
		05/07/21	7.29	1,127	–	1.1	0.92	-147	–
Treatment Zone B Injection Wells									
IW-3B	Property, NW quadrant	03/28/18	6.65	669	16.0	–	0.70	66	–
		Decommissioned March 2019							
IW-6B	Property, SW quadrant	04/02/18	6.69	884	15.9	–	1.10	110	–
		Decommissioned March 2019							
IW-8B	Property, SW quadrant	03/30/18	7.66	471	13.6	–	0.80	111	–
		Decommissioned March 2019							
IW-17B	Property, NE quadrant	03/30/18	6.80	142	16.5	–	0.70	-6	–
		12/13/18	6.43	1,640	17.1	–	1.61	48	–
		Decommissioned March 2019							
IW-21B	Property, NE quadrant	04/02/18	7.01	1,709	17.9	–	0.50	74	–
		Decommissioned March 2019							

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Sample Location	Property	Sample Date	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Ferrous Iron (mg/L)
IW-22B	Property, NW quadrant	04/25/18	7.09	693	19.4	–	0.60	98	–
		Decommissioned March 2019							
IW-24B	Property, NE quadrant	03/30/18	6.92	1,279	17.8	–	0.70	72	–
		Decommissioned March 2019							
IW-28B	Property, NW quadrant	04/09/18	6.85[a]	1,028	20.4	–	0.40	-55	–
		12/14/18	6.55	2,448	18.1	–	0.55	129	–
		Decommissioned March 2019							
IW-33B	Property, NE quadrant	04/02/18	7.03	1,425	16.7	–	0.70	87	–
		Decommissioned March 2019							
IW-37B	Property, SW quadrant	03/29/18	7.31	1,156	19.6	–	0.60	76	–
		Decommissioned March 2019							
IW-45B	Property, SE quadrant	03/28/18	7.40	949	18.0	–	0.70	64	–
		Decommissioned March 2019							
IW-47B	Property, SW quadrant	04/10/18	7.52	1,080	20.6	–	0.30	70	–
		Decommissioned March 2019							
IW-49B	Property, SE quadrant	03/28/18	6.98	1,551	15.6	–	0.60	88	–
		Decommissioned March 2019							
IW-51B	Property, SE quadrant	03/28/18	7.69	1,100	15.7	–	0.30	-151	–
		Decommissioned March 2019							
MW-166	Property, NE quadrant	11/04/19	6.64	2,204	15.5	4.7	0.20	-166	5.0
		01/30/20	7.30	2,119	17.3	9.3	–	-139	4.0
		05/01/20	6.78	2,017	17.3	9.6	0.15	-162	3.0
		07/09/20	6.95	1,340	18.6	5.81	0.21	-149	7.0
		11/05/20	6.74	1,625	17.9	4.7	0.17	-186	–
		02/04/21	6.89	1,615	15.5	2.0	0.11	50	–
		05/05/21	6.81	1,588	15.1	1.1	0.16	-138	–
MW-170	Property, SW quadrant	11/05/19	7.58	1,432	16.5	1.7	0.21	-29	1.1
		01/23/20	7.59	2,080	12.2	6.9	0.48	-157	3.0
		04/02/20	7.52	1,467	13.7	17.5	0.31	-184	4.5
		07/09/20	7.34	1,432	17.5	19.2	0.20	-182	5.5
		11/03/20	7.38	1,558	18.0	–	0.22	-203	–
		02/17/21	7.51	1,588	17.1	2.9	0.12	-117	–
		05/07/21	7.39	1,473	18	12.1	0.12	-206	–
MW-174	Property, SE quadrant	11/01/19	6.89	1,550	15.9	2.3	0.35	-146	3.0
		01/28/20	8.71	1,196	15.0	36.4	0.62	-170	3.0
		05/01/20	7.47	855	15.4	20.3	0.20	-177	5.0
		07/09/20	7.15	768	19.3	62.7	0.20	-34	3.8
		11/05/20	6.86	1,392	18.7	1.7	0.13	-183	–
		02/04/21	6.81	1,467	14.8	4.3	1.21	-424	–
		05/05/21	7.02	1,338	16	–	0.73	-150	–
MW-178	Property, SW quadrant	11/06/19	6.62	3,395	13.3	2.6	0.15	-67	3.5
		01/24/20	6.90	5,013	12.0	–	1.83	-149	6.0
		04/02/20	6.95	3,771	14.2	20.4	3.07	-167	6.5
		07/10/20	6.95	3,642	16.9	29.3	0.10	-101	3.5
		11/03/20	6.49	2,612	15.9	3.7	0.81	-74	–
		02/18/21	6.64	2,171	14.1	20.8	0.31	-47	–
		05/06/21	6.71	1,788	14.2	–	0.17	116	–
MW-182	Property, SW quadrant	11/08/19	7.03	2,831	16.7	7.2	0.15	-134	3.0
		01/27/20	6.82	3,979	15.8	–	0.23	-157	6.0

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MW-182 (continued)		04/01/20	6.58	2,613	18.5	14	0.08	-201	6.1
		07/08/20	6.89	2,520	17.2	8.33	0.10	-86	6.4
		11/04/20	6.55	2,719	18.5	2.7	0.24	-204	–
		02/19/21	6.55	2,282	17.9	8.9	0.38	-238	–
		05/06/21	6.59	2,165	17.8	–	0.15	-171	–
MW-186	Property, SE quadrant	10/31/19	7.54	992	15.1	4.6	0.63	-64	–
		01/29/20	7.42	1,088	11.7	10.7	0.77	-158	1.5
		04/02/20	7.61	731	15.8	14.6	0.16	-228	2.6
		07/08/20	7.95	719	17.0	14.0	0.40	-122	1.2
		11/04/20	7.06	1,547	19.0	2.5	0.38	-88	–
		02/16/21	7.08	1,570	13.1	6.1	0.99	-74	–
		05/07/21	7.14	1,500	15.8	–	1.48	-137	–
Treatment Zone C Injection Wells									
IW-1C	Property, NE quadrant	03/29/18	7.71	578	14.5	–	0.80	104	–
		Decommissioned March 2019							
IW-4C	Property, NE quadrant	04/26/18	7.91	725	17.8	–	0.70	109	–
		12/14/18	6.37	3,590	18.5	–	34.50	185	–
		Decommissioned March 2019							
IW-8C	Property, NE quadrant	04/04/18	9.13	1062	15.8	–	2.10	79	–
		Decommissioned March 2019							
IW-9C	Property, NE quadrant	04/02/18	7.36	967	18.5	–	0.80	85	–
		Decommissioned March 2019							
IW-13C	Property, SW quadrant	04/25/18	7.68	754	20.7	–	0.70	91	–
		Decommissioned March 2019							
IW-15C	Property, SW quadrant	03/30/18	7.32	1,343	19.8	–	0.30	2	–
		12/13/18	6.59	2,448	14.7	–	22.06	138	–
		Decommissioned March 2019							
IW-19C	Property, SW quadrant	03/29/18	7.59	1,122	19.3	–	0.80	98	–
		Decommissioned March 2019							
IW-20C	Property, SW quadrant	03/30/18	7.49	751	19.7	–	0.40	51	–
		Decommissioned March 2019							
MW-167	Property, NE quadrant	11/04/19	7.76	1,051	17.9	1.3	0.43	-184	0.5
		01/28/20	7.61	1,030	15.8	2.0	0.07	-214	0.5
		05/01/20	7.92	893	17.3	4.0	0.31	-187	0.0
		07/09/20	8.25	724	17.6	10.6	0.30	-129	–
		11/05/20	7.92	1,052	17.1	4.4	0.34	-236	–
		02/04/21	7.89	920	13.7	7.0	0.21	44	–
		05/05/21	7.82	901	15.3	–	0.31	121	–
MW-171	Property, SW quadrant	11/08/19	8.06	583	16.3	36.8	0.17	117	1.0
		01/23/20	8.25	950	13.7	5.6	0.53	-218	0.5
		04/02/20	8.20	595	13.8	11.2	0.30	-210	1.0
		07/09/20	8.16	603	18.6	5.06	0.20	-155	1.0
		11/03/20	8.03	757	16.4	1.9	0.27	-238	–
		02/17/21	7.78	907	13.2	1.6	0.35	-243	–
		05/07/21	7.83	876	14.8	8.0	0.31	-223	–
MW-175	Property, SE quadrant	11/01/19	7.56	1,442	17.2	23.9	0.41	-151	0.0
		01/28/20	9.66	1,010	12.3	6.7	0.94	-165	0.0
		05/01/20	8.48	424	15.9	5.5	0.37	-74	0.0
		07/09/20	8.34	396	17.3	7.36	0.39	-160	0.5

Table 16

Groundwater Field Parameters, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Ferrous Iron (mg/L)
MW-175 (continued)		11/05/20	7.42	1,378	17.5	32.5	0.24	-85	–
		02/04/21	6.99	1,687	14.6	3.0	0.43	-456	–
		05/05/21	7.04	1,767	16.1	3.8	0.25	128	–
MW-179	Property, SW quadrant	11/06/19	6.92	2,192	14.3	5.2	0.10	139	2.0
		01/27/20	6.75	3,085	16.0	13.5	–	-146	3.5
		04/02/20	6.55	2,665	17.7	9	4.43	-170	5.5
		07/10/20	6.59	2,650	18.7	5.07	0.10	-72	5.0
		11/03/20	6.36	1,691	17.7	1.0	0.76	-80	–
		02/18/21	6.44	1,601	17.8	11.0	0.95	-28	–
		05/06/21	6.50	1,764	15.1	10.0	0.14	116	–
MW-183	Property, SW quadrant	11/08/19	8.09	303	12.8	12.6	0.38	184	0.0
		01/27/20	8.20	666	12.0	6.9	0.49	-206	0.4
		04/02/20	7.43	310	13.6	11	0.27	-190	0.0
		07/08/20	7.98	357	16.7	16.8	0.40	-163	0.5
		11/04/20	7.90	640	17.1	3.3	0.19	-69	–
		02/19/21	7.69	806	17.2	37.0	0.12	-38	–
		05/06/21	7.66	822	16.7	–	0.1	-212	–
MW-187	Property, SE quadrant	11/01/19	7.22	671	9.0	8.6	0.35	-175	2.5
		01/29/20	7.82	740	13.5	1.1	0.75	-104	0.5
		04/02/20	7.34	389	12.7	23.2	0.44	-108	0.0
		07/08/20	7.55	449	16.9	5.97	0.47	-99	0.0
		11/04/20	7.82	694	16.6	2.9	0.43	-229	–
		02/16/21	7.65	922	12.4	3.0	0.55	-39	–
		05/07/21	7.64	1,035	14.3	3.2	0.39	-218	–
Treatment Zone D Injection Wells									
IW-1D	Property, NE quadrant	04/03/18	8.96	591	20.4	–	0.40	-228	–
		12/13/18	6.72	2,188	13.1	–	0.28	-34	–
		Decommissioned March 2019							
IW-3D	Property, NE quadrant	04/03/18	7.58	761	21.8	–	0.50	72	–
		Decommissioned March 2019							
IW-4D	Property, SW quadrant	03/29/18	8.42	407	13.8	–	0.90	90	–
		Decommissioned March 2019							
IW-6D	Property, SW quadrant	04/03/18	7.73	366	18.1	–	0.40	14	–
		12/13/18	6.31	2,952	15.1	–	34.30	247	
		Decommissioned March 2019							
IW-8D	Property, SW quadrant	04/04/18	7.33	722	20.5	–	0.50	81	–
		Decommissioned March 2019							
IW-9D	Property, SW quadrant	04/04/18	7.63	505	18.5	–	5.50	86	–
		Decommissioned March 2019							
IW-11D	Property, NE quadrant	05/01/18	7.96	757	20.9	–	0.60	56	–
		Decommissioned March 2019							
MW-168	Property, NE quadrant	11/04/19	7.54	649	19.4	1.4	1.68	-93	0.0
		01/31/20	8.27	639	19.7	0.3	–	-148	0.5
		05/01/20	7.46	557	16.1	17.4	0.44	-132	0.5
		07/09/20	8.86	451	17.3	11.3	0.24	-207	1.0
		11/05/20	8.60	454	16.5	5.7	0.25	-116	–
		02/04/21	7.69	454	14.5	–	0.21	42	–
		05/05/21	7.66	743	14.3	0.9	0.43	-199	–

Table 16

Groundwater Field Parameters, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Ferrous Iron (mg/L)
MW-172	Property, SW quadrant	11/05/19	7.65	494	21.2	0.3	1.79	269	–
		01/23/20	7.81	845	17.8	0.7	1.09	-99	0.0
		04/02/20	7.62	537	20.3	7.1	0.34	-155	0.0
		07/09/20	7.70	504	18.8	0.49	0.30	-1	0.2
		11/03/20	7.54	576	18.3	1.2	0.21	-52	–
		02/17/21	7.56	732	14.7	2.1	1.72	-106	–
		05/07/21	7.76	553	14.6	12.0	0.2	102	–
MW-176	Property, SE quadrant	11/01/19	7.25	609	20.6	1.4	1.56	-88	0.0
		01/28/20	9.12	789	16.8	0.4	1.42	-62	0.2
		05/01/20	7.57	428	15.5	3.3	0.33	-87	0.5
		07/09/20	7.62	436	17.1	9.14	0.20	-195	2.5
		11/05/20	7.33	1,150	17.2	4.7	0.32	-86	–
		02/04/21	6.98	1,249	17.0	4.0	0.29	-460	–
		05/05/21	7.03	1,400	16.1	6.4	0.25	-187	–
MW-180	Property, SW quadrant	11/06/19	7.15	1,752	18.1	19.3	0.19	-11	2.5
		01/24/20	6.81	2,104	16.4	–	2.97	-60	1.0
		04/01/20	6.78	1,105	17.2	9.0	1.79	-179	–
		07/10/20	6.85	875	19.0	3.79	0.10	-47	2.5
		11/03/20	6.50	1,001	17.7	1.5	0.20	-161	–
		02/18/21	6.64	1,128	14.4	1.8	0.47	-301	–
		05/06/21	6.53	1,314	15.9	4.8	0.37	119	–
MW-184	Property, SW quadrant	11/08/19	7.83	316	17.1	0.1	1.35	229	0.0
		01/27/20	7.75	656	13.7	0.5	0.81	-95	0.3
		04/01/20	7.44	324	18.0	9	0.07	-194	4.1
		07/08/20	7.56	366	18.6	1.7	0.30	14	0.2
		11/04/20	7.64	394	19.4	2.8	0.08	-81	–
		02/19/21	7.28	875	15.4	7.7	1.00	-59	–
		05/06/21	7.70	368	15.6	4.8	0.20	112	–
MW-188	Property, SE quadrant	10/31/19	7.34	657	18.5	0.3	1.92	-21	0.5
		01/29/20	7.02	839	15.4	0.5	1.74	16	0.5
		04/02/20	7.42	499	17.8	5.0	0.13	-223	4.2
		07/08/20	7.49	514	17.9	3.65	0.30	-44	0.8
		11/04/20	7.45	581	18.4	–	0.26	-214	–
		02/16/21	7.40	636	18.7	–	0.16	-417	–
		05/07/21	7.46	696	15.2	–	0.22	119	–
Treatment Zone A Perimeter Injection Wells									
PRB-A1	8th Ave N ROW, W side	09/15/20	6.89	886	19.3	112	0.28	-40	2.0
PRB-A5	8th Ave N ROW, W side	09/17/20	6.67	1,167	12.1	234	0.28	129	3.8
PRB-A11	8th Ave N ROW, W side	09/16/20	6.90	640	17.6	66	0.30	196	1.8
PRB-A14	Roy Street ROW, N side	09/17/20	7.21	865	19.0	60	0.51	33	–
PRB-A17	Roy St ROW, N side	09/15/20	7.00	694	19.5	44	0.54	128	2.6
PRB-A19	Roy St ROW, N side	09/14/20	7.13	601	19.3	83	0.53	31	3.5
PRB-A23	Roy St ROW, N side	09/14/20	6.80	808	18.3	652	0.26	140	3.2
Treatment Zone B Perimeter Injection Wells									
PRB-B1	8th Ave N ROW, W side	09/15/20	6.70	686	19.4	21	0.31	709	1.4
PRB-B4	8th Ave N ROW, W side	09/17/20	6.94	1,480	21.3	49	0.25	-87	5.5
PRB-B11	8th Ave N ROW, W side	09/16/20	7.13	1,245	17.6	19	0.58	140	1.8
PRB-B14	Roy St ROW, N side	09/14/20	7.93	1,029	18.1	41	0.35	143	0.6

Table 16

Groundwater Field Parameters, 2017 through 2021
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Ferrous Iron (mg/L)
PRB-B17	Roy St ROW, N side	09/15/20	8.36	745	22.3	20	0.56	-14	0.0
PRB-B19	Roy St ROW, N side	09/18/20	7.74	612	19.7	135	0.89	141	0.4
PRB-B23	Roy St ROW, N side	09/18/20	7.96	1,023	19.2	203	0.74	148	0.4
Treatment Zone C Perimeter Injection Wells									
PRB-C1	8th Ave N ROW, W side	09/15/20	7.68	606	19.2	63	0.71	134	0.0
PRB-C5	8th Ave N ROW, W side	09/17/20	7.09	1,264	21.1	367	0.26	132	1.6
PRB-C11	8th Ave N ROW, W side	09/16/20	7.37	571	18.4	687	0.64	135	0.4
PRB-C14	Roy Street ROW, N side	09/17/20	7.95	721	18.7	467	0.87	752	0.4
PRB-C17	Roy St ROW, N side	09/15/20	9.50	631	22.7	1,000	0.65	124	0.4
PRB-C19	Roy St ROW, N side	09/14/20	7.73	442	19.1	155	0.38	133	0.0
PRB-C23	Roy St ROW, N side	09/14/20	8.20	728	19.0	1,000	0.42	298	0.6
Treatment Zone D Perimeter Injection Wells									
PRB-D1	8th Ave N ROW, W side	09/15/20	7.64	630	21.0	100	0.66	-20	0.0
PRB-D4	8th Ave N ROW, W side	09/17/20	6.98	1,512	23.1	98	0.48	-30	5.0
PRB-D11	8th Ave N ROW, W side	09/16/20	7.67	701	17.6	21	0.55	925	0.6
PRB-D13	Roy St ROW, N side	09/18/20	7.41	717	19.1	232	0.63	66	–
PRB-D17	Roy St ROW, N side	09/21/20	6.55	669	19.1	121	0.60	171	1.1
PRB-D20	Roy St ROW, N side	09/18/20	7.02	547	19.5	351	0.57	120	0.4
PRB-D23	Roy St ROW, N side	09/18/20	7.91	441	19.0	228	0.45	0	–

Notes:

µS/cm = microSiemens per centimeter.

°C = Degrees Celsius.

NTUs = Nephelometric Turbidity Units.

mg/L = Milligrams per liter.

mV = millivolts.

– = Not measured.

a = pH meter not giving stable/reliable reading.

b = Turbidity reading collected and read with a turbidimeter after water sample collection.

c = Readings collected by Farallon.

d = DO meter malfunction.

MAX = Turbidity greater than instrument upper detection limit.

Table 17

Groundwater Natural Attenuation Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	Preliminary EPA Anaerobic Biodegradation Screening Score														Total Score	Pre EVO	Post EVO
			Alk	Cl^-	NO_3^-	SO_4^{2-}	TOC	Fe^{2+}	CH_4	Ethane/ Ethene	pH	DO	ORP	TCE	cDCE	VC			
Shallow Water-Bearing Zone																			
F13	Property, NE quadrant	03/27/17	0	0	2	0	0	3	3	0	0	0	2	0	0	2	12	16	–
		06/22/17	1	2	2	2	0	3	3	0	0	3	2	0	0	2	20		
		Decommissioned March 2019																	
FMW-143	9th Ave N ROW, E side	10/31/19	1	2	2	0	0	0	3	0	0	3	1	0	0	0	12	–	13
		01/22/20	1	2	2	0	0	3	3	0	0	3	1	0	0	0	15		
		05/14/20	1	2	2	0	0	3	0	0	0	0	1	0	0	0	9		
		07/22/20	1	2	2	0	0	3	3	0	0	3	1	0	0	0	15		
J5	Property, SW quadrant	03/21/17	0	2	2	2	0	0	3	2	0	0	2	2	2	2	19	21	–
		06/26/17	0	2	2	2	0	0	3	2	0	3	2	2	2	2	22		
		Decommissioned March 2019																	
J15	Property, SE quadrant	03/27/17	1	2	2	0	2	3	3	0	0	3	0	0	2	2	20	20	–
		06/26/17	1	2	2	0	0	3	3	0	0	3	1	0	2	2	19		
		Decommissioned March 2019																	
K8	Property, SW quadrant	03/21/17	0	0	2	0	0	0	0	0	0	0	2	2	2	2	10	11	–
		06/26/17	0	2	2	0	0	0	0	0	0	3	1	2	2	0	12		
		Decommissioned March 2019																	
M15	Property, SE quadrant	03/27/17	1	0	2	0	0	3	3	0	0	0	0	2	2	2	15	14	–
		06/26/17	1	0	2	0	0	0	3	0	0	0	1	2	2	2	13		
		Decommissioned March 2019																	
MW121	8th Ave N ROW, E side	12/26/13	1	2	2	0	0	3	0	0	0	0	1	0	0	2	11	16	–
		03/28/17	1	2	2	0	0	3	0	0	0	0	2	0	2	2	14		
		06/20/17	1	2	2	0	0	3	3	0	0	0	1	0	2	2	16		
		11/30/20	1	2	2	0	0	3	3	2	0	3	2	0	2	2	22		
		02/05/21	1	2	2	0	0	3	0	2	0	0	1	2	2	2	17		
		05/12/21	1	2	2	0	0	3	3	0	0	3	0	0	2	2	18		
MW125	Valley St ROW, N side	12/26/13	1	2	2	2	0	3	0	0	0	-3	1	0	0	0	8	8	14
		10/18/19	1	0	2	2	0	3	3	0	0	0	1	0	2	0	14		
		01/29/20	1	0	2	0	0	3	3	0	0	–	2	0	2	0	13		
		11/17/20	1	0	2	2	0	3	3	0	0	3	2	0	0	0	16		
		02/02/21	1	0	2	2	0	3	3	0	0	0	0	0	0	0	11		
		05/11/21	1	0	2	2	0	3	3	0	0	3	2	0	0	0	16		

Table 17

Groundwater Natural Attenuation Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	Preliminary EPA Anaerobic Biodegradation Screening Score																
			Alk	Cl^-	NO_3^-	SO_4^{2-}	TOC	Fe^{2+}	CH_4	Ethane/ Ethene	pH	DO	ORP	TCE	cDCE	VC	Total Score	Pre EVO	Post EVO
MW-154	Roy St ROW, S side	10/14/19	0	2	0	0	0	0	0	0	0	0	0	2	2	0	6	–	6
		01/21/20	0	2	0	0	0	0	0	0	0	0	1	2	2	0	7		
		04/30/20	0	2	0	0	0	0	0	0	0	0	0	2	2	0	6		
		07/10/20	0	2	0	0	0	0	0	0	0	0	1	2	2	0	7		
		11/09/20	0	2	0	0	0	0	0	0	0	-3	1	2	2	0	4		
		02/08/21	0	2	0	0	0	0	0	0	0	-3	1	2	2	0	4		
		05/10/21	0	2	0	0	0	0	0	0	0	0	1	2	2	0	7		
MW-155	Roy St ROW, S side	10/16/19	0	2	0	0	0	0	0	2	0	0	0	2	2	0	8	–	7
		01/20/20	0	2	0	0	0	0	0	0	0	0	1	2	2	0	7		
		05/05/20	0	2	0	0	0	0	0	0	0	0	0	2	2	0	6		
		08/03/20	0	2	0	0	0	0	0	0	0	0	0	2	2	0	6		
		11/11/20	0	2	0	0	0	0	0	0	0	0	1	2	2	2	9		
MW-159	8th Ave N ROW, E side	01/29/20	1	0	2	0	0	3	3	2	0	3	1	0	2	0	17	–	20
		11/11/20	1	0	2	2	0	3	3	2	0	0	2	0	2	2	19		
		02/08/21	1	0	2	2	0	3	3	2	0	0	2	2	2	2	21		
		05/11/21	1	0	2	2	0	3	3	2	0	3	2	2	2	2	24		
MW-301	Valley St ROW, S side	11/30/20	0	2	0	0	0	0	0	0	0	0	1	2	0	0	5		
		02/05/21	0	2	0	0	0	0	0	0	0	0	2	2	0	0	5		
		05/14/21	0	2	0	0	0	0	0	0	0	0	1	2	0	0	5		
MW-305	Roy St ROW, S side	10/15/19	0	2	0	0	0	0	0	0	0	0	1	0	0	0	3	–	2
		01/15/20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		04/28/20	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2		
		07/27/20	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2		
MW-310	Alley E of Seattle Roy Aloha Shops	10/10/19	1	0	2	0	0	3	3	0	0	0	1	0	2	0	12	–	13
		01/14/20	1	0	2	0	0	3	3	0	0	3	1	0	0	0	13		
		04/08/20	1	0	2	0	0	3	3	0	0	3	2	0	2	0	16		
		08/04/20	1	0	2	0	0	3	3	0	0	3	0	0	0	0	12		
MW-312	Alley E of Seattle Roy Aloha Shops	10/11/19	1	0	2	2	0	3	3	0	0	3	1	0	0	0	15	–	13
		01/21/20	1	0	2	2	0	3	3	0	0	3	1	0	0	0	15		
		04/22/20	1	0	2	2	0	3	3	0	0	0	1	0	0	0	12		
		08/04/20	1	0	2	2	0	0	3	0	0	0	1	0	2	0	11		

Table 17

Groundwater Natural Attenuation Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	Preliminary EPA Anaerobic Biodegradation Screening Score															Total Score	Pre EVO	Post EVO
			Alk	Cl^-	NO_3^-	SO_4^{2-}	TOC	Fe^{2+}	CH_4	Ethane/ Ethene	pH	DO	ORP	TCE	cDCE	VC				
MW-313	Alley E of Seattle Roy Aloha Shops	10/10/19	1	0	2	0	0	0	0	0	0	0	0	0	2	2	7	–	12
		01/14/20	0	2	2	2	0	3	3	0	0	3	0	0	2	0	17		
MW-320	9th Ave N ROW, W side	10/07/19	1	2	2	2	0	0	0	0	0	3	0	0	0	0	10	–	10
		01/20/20	0	2	2	0	0	3	3	0	0	0	2	0	0	0	12		
		04/29/20	0	2	2	0	0	3	0	0	0	3	0	0	0	0	10		
		07/28/20	0	2	2	0	0	3	0	0	0	0	1	0	0	0	8		
MW-332	Roy St ROW, N Side	05/04/20	0	2	2	0	0	3	3	0	0	0	1	0	2	0	13	–	13
		07/30/20	0	2	2	0	0	0	3	0	0	0	1	0	2	2	12		
MW-337	Lake Union Park, N end	05/07/20	0	0	2	2	0	3	3	0	0	0	1	0	0	0	11	–	15
		07/23/20	0	0	2	2	0	3	3	0	0	3	1	2	2	0	18		
MW-339	Lake Union Park, S end	05/14/20	0	2	2	0	0	3	3	0	0	3	1	0	0	0	14	–	16
		07/23/20	0	0	2	2	0	3	3	0	0	3	1	2	2	0	18		
MW-9	8th Ave N ROW, E side	12/16/13	0	0	2	2	2	3	0	0	0	3	0	0	0	0	12	12	21
		10/10/19	1	2	2	2	0	3	3	0	0	0	2	0	2	2	19		
		11/24/20	1	2	2	2	0	3	3	0	0	3	2	0	2	2	22		
		02/05/21	1	2	2	2	0	3	3	0	0	3	1	0	2	2	21		
		05/12/21	1	2	2	2	0	3	3	0	0	3	2	0	2	2	22		
N7	Property, SW quadrant	03/30/17	0	0	0	0	0	0	3	0	0	0	1	2	2	2	10	10	–
		06/27/17	0	0	0	0	0	0	3	0	0	0	1	2	2	2	10		
		Decommissioned March 2019																	
R-MW5	Dexter Ave N ROW, E side	03/23/17	0	2	2	0	0	3	0	0	0	0	1	2	0	0	10	9	16
		06/16/17	0	2	2	0	0	0	0	0	0	0	2	2	0	0	8		
		10/21/19	0	2	2	2	0	3	0	0	0	0	0	0	2	0	11		
		01/24/20	0	2	2	2	0	3	0	0	0	3	1	2	2	0	17		
		11/18/20	0	2	2	2	0	3	0	0	0	3	2	2	2	0	18		
		02/11/21	0	2	2	2	0	3	0	0	0	0	2	2	2	0	15		
		05/17/21	0	2	2	2	0	3	3	0	0	3	0	2	2	0	19		
R-MW6	8th Ave N ROW, W side	03/21/17	1	0	2	0	0	0	3	0	0	0	1	2	2	2	13	16	17
		06/20/17	1	0	2	0	0	3	3	2	0	0	1	2	2	2	18		
		12/01/20	1	0	2	0	0	3	3	0	0	0	1	2	2	2	16		
		02/03/21	1	0	2	0	0	3	3	0	0	3	1	2	2	2	19		
		05/17/21	1	0	2	0	0	3	3	0	0	0	0	2	2	2	15		

Table 17

Groundwater Natural Attenuation Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	Preliminary EPA Anaerobic Biodegradation Screening Score														Total Score	Pre EVO	Post EVO
			Alk	Cl^-	NO_3^-	SO_4^{2-}	TOC	Fe^{2+}	CH_4	Ethane/ Ethene	pH	DO	ORP	TCE	cDCE	VC			
Intermediate "A" Water-Bearing Zone																			
BB-8	Roy Street ROW, S side	12/29/13	0	2	0	0	0	0	0	0	0	0	0	2	2	0	6	7	8
		03/22/17	0	0	0	0	0	0	0	0	0	0	1	2	2	0	5		
		06/14/17	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4		
		04/11/18	0	0	0	2	0	0	0	0	–	0	0	2	2	0	6		
		01/23/19	0	2	2	0	0	3	0	0	0	0	0	2	2	2	13		
		04/23/19	0	2	0	0	0	0	0	0	0	0	1	2	2	0	7		
		07/17/19	0	0	0	0	0	0	0	0	0	0	1	2	2	0	5		
		10/22/19	0	0	0	0	0	0	0	0	0	3	0	2	2	2	9		
		01/20/20	0	2	0	0	0	0	0	0	0	0	1	2	2	0	7		
		05/12/20	0	2	0	0	0	0	0	0	0	0	0	2	2	0	6		
		07/27/20	0	2	0	0	0	0	0	0	0	3	0	2	2	0	9		
		11/17/20	0	2	0	0	0	0	0	0	0	0	1	2	2	2	9		
		02/11/21	0	2	0	0	0	0	0	0	0	0	1	2	2	0	7		
		06/07/21	0	2	0	0	0	0	0	0	0	0	1	2	2	2	9		
FMW-142	9th Ave N ROW, E side	10/31/19	0	2	2	2	0	0	3	0	0	3	1	0	0	0	13	–	16
		01/22/20	1	2	2	2	0	3	3	0	0	3	1	0	0	0	17		
		04/28/20	1	2	2	2	0	3	3	0	0	3	0	0	0	0	16		
		07/08/20	1	2	2	2	0	3	3	0	0	0	1	0	2	0	16		
GEI-1	Block 37, SW quadrant	03/24/17	1	0	2	0	0	3	3	0	0	0	2	0	0	0	11	10	14
		06/13/17	0	2	2	0	0	0	3	0	0	0	1	0	0	0	8		
		07/16/19	1	2	2	2	0	0	3	0	0	3	2	0	0	0	15		
		10/21/19	1	2	2	2	0	3	3	0	0	3	1	0	0	0	17		
		01/22/20	1	0	2	2	0	3	3	0	0	3	1	0	0	0	15		
		04/29/20	0	2	2	0	0	3	3	0	0	0	1	0	0	0	11		
		07/30/20	1	2	2	0	0	3	3	0	0	0	1	0	0	0	12		
GEI-MW-1	Block 79 East, N end	01/23/20	1	2	2	2	0	3	3	0	0	3	1	2	0	0	19	–	16
		04/29/20	1	2	2	0	0	3	3	0	0	3	1	0	0	0	15		
		08/07/20	1	2	2	2	0	3	3	0	0	0	1	0	0	0	14		
HMW-9IA	SDOT Mercer Parcels	06/02/21	0	2	2	0	0	0	0	2	0	3	2	2	2	2	17		17
HMW-20IA	SDOT Mercer Parcels	06/02/21	1	2	2	0	0	0	3	3	0	3	1	2	2	2	21		21

Table 17

Groundwater Natural Attenuation Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	Preliminary EPA Anaerobic Biodegradation Screening Score														Total Score	Pre EVO	Post EVO
			Alk	Cl^-	NO_3^-	SO_4^{2-}	TOC	Fe^{2+}	CH_4	Ethane/ Ethene	pH	DO	ORP	TCE	cDCE	VC			
MW107	8th Ave N ROW, W side	12/16/13	1	2	2	0	0	0	0	0	0	0	1	2	2	2	12	19	21
		03/27/17	1	2	2	2	2	3	0	3	0	0	0	2	0	2	19		
		06/19/17	1	2	2	2	2	3	3	3	0	0	1	2	0	2	23		
		04/09/18	1	2	2	2	2	3	3	2	0	3	1	2	2	2	27		
		01/30/19	1	2	2	0	0	0	3	2	0	0	0	2	2	2	16		
		05/01/19	1	2	2	0	0	3	3	3	0	3	1	2	2	2	24		
		07/22/19	1	2	2	0	0	3	3	3	0	0	1	2	2	2	21		
		10/15/19	1	2	2	0	0	3	3	2	0	3	1	2	2	2	23		
		01/28/20	1	2	2	0	0	3	3	3	0	–	1	2	2	2	21		
		04/03/20	1	2	2	0	0	3	3	2	0	0	1	2	2	2	20		
		07/31/20	0	2	2	0	0	3	3	3	0	0	0	2	2	2	19		
		12/01/20	0	2	2	2	2	3	3	3	0	0	1	0	0	0	18		
		02/02/21	0	2	2	2	0	3	3	0	0	0	1	2	0	2	17		
		06/02/21	0	2	2	2	0	3	3	2	0	3	1	2	0	2	22		
MW108	Alley E of Seattle Roy Aloha Shops	12/17/13	1	2	2	2	0	3	3	2	0	3	1	2	2	2	25	22	22
		03/28/17	1	2	2	0	0	3	3	2	0	0	1	2	2	2	20		
		06/27/17	1	2	2	0	0	3	3	2	0	–	2	2	2	2	21		
		10/10/19	1	2	2	0	0	3	3	2	0	0	1	2	2	2	20		
		01/14/20	1	2	2	0	0	3	3	2	0	3	1	2	2	2	23		
		04/22/20	1	2	2	2	0	3	3	2	0	0	1	2	2	2	22		
		07/16/20	1	2	2	0	0	3	3	2	0	0	2	2	2	2	21		
		11/04/20	1	2	2	2	0	3	3	3	0	3	2	2	2	2	27		
		02/09/21	1	2	2	0	0	3	3	2	0	0	2	2	2	2	21		
		05/03/21	1	2	2	0	0	3	3	2	0	3	0	2	2	2	22		
MW109	Alley E of Seattle Roy Aloha Shops	12/17/13	1	2	2	0	0	3	3	0	0	3	1	2	2	2	21	19	20
		03/29/17	1	0	2	0	0	3	3	0	0	0	2	2	2	2	17		
		06/17/17	1	2	2	0	0	3	3	0	0	–	2	2	2	2	19		
		10/15/19	1	2	2	2	0	3	3	2	0	3	1	2	2	2	25		
		01/21/20	0	0	2	2	0	0	3	0	0	0	0	2	2	2	13		
		04/22/20	1	0	2	2	0	3	3	2	0	3	0	0	2	2	20		
		07/06/20	1	0	2	2	0	3	3	2	0	3	1	2	2	2	23		
		11/02/20	1	0	2	2	0	3	3	2	0	0	1	2	2	2	20		

Table 17

Groundwater Natural Attenuation Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	Preliminary EPA Anaerobic Biodegradation Screening Score																
			Alk	Cl^-	NO_3^-	SO_4^{2-}	TOC	Fe^{2+}	CH_4	Ethane/ Ethene	pH	DO	ORP	TCE	cDCE	VC	Total Score	Pre EVO	Post EVO
MW109 (continued)		02/09/21	1	0	2	2	0	3	3	2	0	0	2	2	2	2	21		
		05/03/21	1	0	2	2	0	3	3	2	0	0	0	2	2	2	19		
MW110	Alley E of Seattle Roy Aloha Shops	12/19/13	1	2	2	0	0	0	0	0	0	0	0	2	2	2	11	12	17
		03/23/17	1	2	2	0	0	0	0	0	0	0	1	2	2	2	12		
		06/27/17	1	2	2	0	0	0	0	2	0	–	0	2	2	2	13		
		10/15/19	1	2	2	0	0	0	3	0	0	3	1	2	2	2	18		
		01/16/20	1	2	2	0	0	0	3	0	0	3	1	2	2	2	18		
		04/22/20	1	2	2	0	0	0	3	0	0	0	1	2	2	2	15		
		07/16/20	1	2	2	0	0	0	3	0	0	3	1	2	2	2	18		
		11/04/20	1	2	2	0	0	0	3	0	0	3	1	2	2	2	18		
		02/09/21	1	2	2	0	0	0	3	0	0	0	2	2	2	2	16		
		05/04/21	1	2	2	0	0	0	3	0	0	3	1	2	2	0	16		
MW114	SDOT Mercer Parcels, NW quadrant	12/18/13	0	2	2	0	0	0	0	0	0	0	1	2	2	2	11	11	–
		Destroyed																	
MW115	9th Ave N ROW, W side	12/19/13	1	2	2	2	0	3	3	0	0	0	1	0	0	2	16	16	19
		03/22/17	1	2	2	0	0	3	0	0	0	0	0	0	2	2	12		
		06/22/17	1	2	2	0	0	3	3	0	0	3	2	0	2	2	20		
		10/22/19	1	2	2	0	0	3	3	0	0	0	2	0	2	2	17		
		01/20/20	1	2	2	2	0	3	3	0	0	3	1	0	2	2	21		
		05/05/20	1	2	2	0	0	3	3	0	0	0	2	0	2	2	17		
		07/28/20	1	2	2	0	0	3	3	0	0	0	1	0	2	2	16		
		11/12/20	1	2	2	0	0	3	3	0	0	3	2	0	2	2	20		
		02/12/21	1	2	2	0	0	3	3	0	0	3	1	0	2	2	19		
		05/25/21	1	2	2	0	0	3	3	0	0	3	2	0	2	2	20		
MW116	9th Ave N ROW, W side	12/19/13	0	2	2	2	0	3	3	0	0	0	0	0	0	0	12	15	16
		03/21/17	1	2	2	0	0	3	3	0	0	0	2	0	0	0	13		
		06/16/17	1	2	2	2	0	3	3	0	0	3	2	2	0	0	20		
		10/22/19	1	2	2	2	0	3	3	0	0	3	0	0	0	0	16		
		01/21/20	1	2	2	2	0	3	3	0	0	0	1	0	0	0	14		
		04/29/20	1	2	2	2	0	3	3	0	–	3	0	0	0	0	16		
		07/28/20	0	2	2	2	0	3	3	0	0	0	1	0	0	0	13		
		11/12/20	0	2	2	2	0	3	3	0	0	3	2	0	0	0	17		

Table 17

Groundwater Natural Attenuation Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	Preliminary EPA Anaerobic Biodegradation Screening Score																
			Alk	Cl^-	NO_3^-	SO_4^{2-}	TOC	Fe^{2+}	CH_4	Ethane/ Ethene	pH	DO	ORP	TCE	cDCE	VC	Total Score	Pre EVO	Post EVO
MW116 (continued)		02/11/21	0	2	2	2	0	3	3	0	0	3	1	0	0	0	16		
		05/25/21	0	2	2	2	0	3	3	0	0	3	2	0	0	0	17		
MW117	Dexter Ave N ROW, E side	12/18/13	0	0	2	0	0	3	0	0	0	0	1	0	0	0	6	6	–
		Destroyed																	
MW119	9th Ave N ROW, W side	12/19/13	0	2	2	2	0	3	3	0	-2	3	0	0	2	2	17	16	18
		03/29/17	0	2	2	2	0	3	3	0	0	0	1	2	2	0	17		
		06/28/17	1	2	2	0	0	3	0	0	0	–	1	2	2	0	13		
		10/10/19	0	2	2	0	0	3	0	0	0	3	1	2	2	0	15		
		01/14/20	0	2	2	0	0	0	0	0	0	3	2	2	2	0	13		
		04/27/20	0	2	2	2	0	3	0	0	0	3	1	2	2	0	17		
		07/08/20	0	2	2	0	0	3	3	0	0	3	1	2	2	2	20		
		11/11/20	0	2	2	0	0	3	3	0	0	3	2	2	2	2	21		
		02/10/21	0	2	2	2	0	3	3	0	0	0	1	2	2	2	19		
		05/20/21	0	2	2	2	0	3	3	0	0	3	2	2	2	2	23		
MW120	8th Ave N ROW, E side	12/19/13	0	2	2	0	0	0	0	0	0	0	1	2	2	2	11	10	12
		04/09/18	0	2	2	0	0	0	0	0	0	3	1	0	2	0	10		
		01/24/19	0	2	0	0	0	0	0	0	0	0	0	2	2	2	8		
		05/03/19	0	2	0	0	0	0	0	0	0	3	0	2	2	2	11		
		07/16/19	0	2	0	0	0	0	0	0	0	0	0	2	2	2	8		
		10/17/19	0	2	2	0	0	0	0	0	0	0	1	2	2	2	11		
		01/17/20	0	2	2	0	0	0	0	0	0	3	1	2	2	2	14		
		04/23/20	0	2	2	0	0	3	0	0	0	0	0	2	2	2	13		
		07/14/20	0	2	2	0	0	0	0	0	0	0	1	2	2	2	11		
		11/30/20	0	2	2	0	0	0	0	0	0	0	1	2	2	2	11		
		02/05/21	0	2	2	0	0	0	0	0	0	0	1	2	2	2	11		
		05/12/21	0	2	2	0	0	0	0	0	0	3	2	2	2	2	15		
MW127	8th Ave N ROW, E side	10/17/19	0	2	2	0	0	0	0	0	0	3	1	0	2	0	10	–	9
		01/17/20	0	2	2	0	0	0	0	0	0	3	1	0	2	0	10		
		04/23/20	0	2	0	0	0	0	0	0	0	0	0	0	2	0	4		
		07/14/20	0	2	0	0	0	0	0	0	0	3	1	0	2	2	10		
MW-142	8th Ave N ROW, E side	04/27/18	1	2	2	2	2	3	3	2	0	0	0	2	2	2	23	21	22
		01/28/19	1	0	2	2	2	3	3	2	0	0	0	0	2	2	19		

Table 17

Groundwater Natural Attenuation Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	Preliminary EPA Anaerobic Biodegradation Screening Score														Total Score	Pre EVO	Post EVO
			Alk	Cl^-	NO_3^-	SO_4^{2-}	TOC	Fe^{2+}	CH_4	Ethane/ Ethene	pH	DO	ORP	TCE	cDCE	VC			
MW-142 (continued)		04/24/19	1	0	2	0	2	3	3	2	0	0	0	2	2	2	19		
		07/25/19	1	0	2	0	2	3	3	2	0	0	1	2	2	2	20		
		10/16/19	1	2	2	2	0	3	3	2	0	0	1	2	2	2	22		
		01/22/20	1	2	2	2	0	3	0	2	0	3	1	2	2	2	22		
		04/24/20	1	2	2	0	0	3	0	2	0	0	2	2	2	2	18		
		07/30/20	1	2	2	0	0	3	0	2	0	0	1	2	2	2	17		
		11/24/20	1	2	2	0	0	3	3	2	0	3	2	2	2	2	24		
		02/08/21	1	2	2	2	2	3	3	2	0	3	1	2	2	2	27		
		05/19/21	1	2	2	2	2	3	3	2	0	3	2	2	2	2	28		
MW-144	8th Ave N ROW, E side	04/27/18	1	2	2	2	2	0	3	3	0	3	0	2	2	2	24	22	25
		01/28/19	1	2	2	2	0	0	3	3	0	0	0	2	2	2	19		
		04/23/19	1	2	2	2	0	3	3	3	0	3	0	2	2	2	25		
MW-144R	8th Ave N ROW, E side	12/16/19	1	2	2	2	2	3	3	3	0	3	2	2	2	2	29	–	26
		01/21/20	1	2	2	2	2	3	3	3	0	3	2	0	2	2	27		
		04/02/20	1	2	2	2	2	3	3	3	0	3	1	0	2	2	26		
		08/03/20	1	2	2	2	0	3	3	3	0	3	2	2	2	2	27		
		11/23/20	1	2	2	2	0	3	3	3	0	0	2	2	2	2	24		
		02/02/21	1	2	2	2	0	3	3	3	0	3	1	2	2	2	26		
		05/12/21	1	2	2	2	0	3	3	3	0	0	2	2	2	2	24		
MW-146	Roy St ROW, S side	04/30/18	1	2	2	0	0	3	3	3	0	3	0	2	2	2	23	23	22
		01/28/19	0	2	2	0	0	3	3	3	0	3	0	2	2	2	22		
		04/24/19	0	2	2	0	0	3	3	3	0	0	1	2	2	2	20		
		07/25/19	0	2	2	0	0	3	3	3	0	0	0	2	2	2	19		
		10/14/19	1	2	2	0	0	3	3	3	0	3	0	2	2	2	23		
		01/24/20	1	2	2	2	0	3	3	3	0	3	1	0	2	2	24		
		04/30/20	1	2	2	2	0	3	3	3	0	3	1	0	2	2	24		
		07/09/20	1	2	2	2	0	3	3	3	0	3	1	2	2	2	26		
		11/10/20	0	2	2	0	0	3	3	3	0	3	2	2	2	2	24		
		02/08/21	0	2	2	0	0	3	3	3	0	-3	1	2	2	2	17		
		05/04/21	0	2	2	2	0	3	3	3	0	3	2	0	2	2	24		
MW-149	Property, NE quadrant	04/10/18	1	2	2	2	0	3	3	3	0	0	0	2	2	2	22	20	–
		12/13/18	1	0	2	0	2	0	3	3	0	0	0	2	2	2	17		
		Decommissioned March 2019																	

Table 17

Groundwater Natural Attenuation Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	Preliminary EPA Anaerobic Biodegradation Screening Score																
			Alk	Cl^-	NO_3^-	SO_4^{2-}	TOC	Fe^{2+}	CH_4	Ethane/ Ethene	pH	DO	ORP	TCE	cDCE	VC	Total Score	Pre EVO	Post EVO
MW-151	Property, SW quadrant	04/10/18	1	2	2	2	2	0	3	3	0	0	0	2	2	2	21	22	–
		12/14/18	1	2	2	0	2	0	3	2	0	3	2	2	2	2	23		
		Decommissioned March 2019																	
MW-156	8th Ave N ROW, E side	04/26/18	1	2	2	0	0	0	3	2	0	0	0	2	2	2	16	16	20
		01/24/19	1	2	2	0	2	0	3	2	0	0	0	2	2	0	16		
		04/24/19	1	2	2	0	2	0	3	2	0	0	0	2	2	2	18		
		07/22/19	1	2	2	0	2	0	3	2	0	3	1	2	2	2	22		
		10/17/19	1	2	2	0	0	3	3	3	0	3	1	2	2	2	24		
		01/20/20	1	2	2	0	2	3	3	3	0	0	1	2	2	2	23		
		04/24/20	1	2	2	0	0	0	3	3	0	0	0	2	2	2	17		
		07/15/20	1	2	2	0	0	3	3	3	0	0	1	2	2	2	21		
		11/11/20	1	2	2	0	0	3	3	2	0	0	1	2	2	2	20		
		02/08/21	1	2	2	0	0	3	3	0	0	0	2	2	2	0	17		
		05/10/21	1	2	2	0	0	3	3	2	0	3	2	2	2	0	22		
MW-189	Valley St ROW, S side	10/14/19	0	2	2	0	0	0	0	2	0	3	2	0	2	2	15	–	15
		01/23/20	0	2	2	0	0	0	0	2	0	3	2	0	2	2	15		
		04/03/20	0	2	2	0	0	0	0	2	0	3	0	0	0	2	11		
		08/04/20	0	2	2	0	0	0	0	0	0	3	1	0	2	2	12		
		11/17/20	0	2	2	0	0	0	0	2	0	3	2	0	2	2	15		
		02/03/21	0	2	2	0	0	0	3	2	0	0	2	0	2	2	15		
		05/14/21	0	2	2	0	0	0	3	3	0	3	2	0	2	2	19		
MW-302	Dexter Ave N ROW, E side	10/21/19	0	2	2	0	0	0	0	0	0	0	2	0	0	0	6	–	9
		01/24/20	1	2	2	0	0	3	3	0	0	0	2	2	0	0	15		
		05/07/20	1	2	2	0	0	0	0	0	0	0	0	0	0	0	5		
		07/28/20	1	2	2	0	0	0	0	0	0	3	1	0	0	0	9		
MW-306	Roy St ROW, S side	10/15/19	0	0	2	0	0	3	0	0	0	3	0	0	0	0	8	–	8
		01/16/20	0	0	2	0	0	3	0	0	0	3	1	0	0	0	9		
		04/28/20	0	0	2	0	0	3	0	0	0	3	1	0	0	0	9		
		07/29/20	0	0	2	0	0	3	0	0	0	0	1	0	0	0	6		
MW-308	Alley E of Seattle Roy Aloha Shops	10/11/19	1	2	2	0	0	3	3	2	0	3	1	0	2	2	21	–	21
		01/16/20	1	2	2	0	0	3	3	2	0	3	2	0	2	2	22		

Table 17

Groundwater Natural Attenuation Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	Preliminary EPA Anaerobic Biodegradation Screening Score														Total Score	Pre EVO	Post EVO
			Alk	Cl^-	NO_3^-	SO_4^{2-}	TOC	Fe^{2+}	CH_4	Ethane/ Ethene	pH	DO	ORP	TCE	cDCE	VC			
MW-308 (continued)		04/08/20	1	2	2	0	0	3	3	2	0	3	1	0	2	2	21		
		07/06/20	1	2	2	0	0	3	3	2	0	0	2	0	2	2	19		
MW-315	Mercer St ROW, N side	10/03/19	1	0	2	0	0	0	0	0	0	0	0	0	0	0	3	–	3
		01/16/20	0	0	2	0	0	0	0	0	0	0	2	0	0	0	4		
		04/24/20	0	0	2	0	0	0	0	0	0	0	2	0	0	0	4		
		07/24/20	0	0	2	0	0	0	0	0	0	0	1	0	0	0	3		
MW-317	9th Ave N ROW, W side	10/09/19	1	2	2	2	0	3	3	0	0	3	1	0	0	0	17	–	17
		01/16/20	1	0	2	2	0	3	3	0	0	3	1	0	0	0	15		
		04/27/20	1	2	2	2	0	3	3	0	0	3	0	0	0	0	16		
		07/30/20	1	2	2	2	0	3	3	0	0	3	0	0	2	0	18		
MW-325	Mercer St ROW, N side	10/03/19	0	2	2	0	0	0	0	0	0	3	0	0	2	0	9	–	6
		01/17/20	0	2	0	0	0	0	0	0	0	3	1	0	0	0	6		
		04/21/20	0	2	0	0	0	0	0	0	0	3	0	0	2	0	7		
		07/23/20	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2		
MW-327	Lake Union Park, S end	10/02/19	0	2	2	2	0	3	3	0	0	0	1	0	0	0	13	–	16
		01/17/20	0	2	2	2	0	3	3	0	0	3	1	0	0	0	16		
		04/09/20	0	2	2	2	0	3	3	0	0	3	0	0	0	0	15		
		07/07/20	0	2	2	2	0	3	3	0	0	–	2	2	2	0	18		
MW-330	Valley St ROW, N side	05/14/20	0	0	2	0	0	0	0	0	0	0	1	0	0	0	3	–	6.5
		07/16/20	0	0	2	0	0	3	0	0	0	0	1	2	2	0	10		
MW-331	Alley E of Seattle Roy Aloha Shops	04/24/20	0	2	2	0	0	3	0	0	0	0	2	0	0	2	11	–	13
		07/06/20	1	2	2	0	0	3	0	0	0	0	2	0	2	2	14		
MW-333	900 Roy St, S end	04/29/20	1	2	2	2	0	3	3	0	0	0	2	0	0	0	15	–	16
		07/24/20	1	2	2	2	0	3	3	0	0	3	0	0	0	0	16		
MW-344	SDOT Mercer Parcels	06/01/21	0	2	2	0	0	3	0	0	0	3	2	2	2	2	18		18
Intermediate "B" Water-Bearing Zone																			
FMW-141	Alley E of Seattle Roy Aloha Shops	10/30/19	1	2	2	2	2	0	3	3	0	3	0	2	2	2	24	–	22
		01/14/20	0	0	2	2	0	3	3	3	0	-3	1	2	2	2	17		
		04/28/20	0	2	2	2	0	3	3	3	0	3	1	2	2	2	25		
		07/22/20	0	2	2	2	0	0	3	3	0	0	2	2	2	2	20		

Table 17

Groundwater Natural Attenuation Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	Preliminary EPA Anaerobic Biodegradation Screening Score																
			Alk	Cl^-	NO_3^-	SO_4^{2-}	TOC	Fe^{2+}	CH_4	Ethane/ Ethene	pH	DO	ORP	TCE	cDCE	VC	Total Score	Pre EVO	Post EVO
HMW-9IB	SDOT Mercer Parcels, SW quadrant	01/26/21	0	2	2	0	0	0	3	3	0	0	2	2	2	2	18		18
		06/02/21	0	2	2	0	0	0	3	2	0	0	2	2	2	2	17		
MW111	Alley E of Seattle Roy Aloha Shops	12/17/13	0	2	2	2	0	0	0	0	0	0	1	0	2	2	11	12	15
		03/23/17	0	2	2	2	0	0	0	0	0	0	2	0	2	2	12		
		06/14/17	0	2	2	2	0	0	0	0	0	0	1	2	2	2	13		
		10/14/19	0	2	2	2	0	0	0	2	0	0	1	0	2	2	13		
		01/16/20	0	2	2	2	0	0	0	2	0	3	2	0	2	2	17		
		04/23/20	0	2	2	0	0	0	0	2	0	3	2	0	2	2	15		
		07/06/20	0	2	2	0	0	0	3	2	0	0	1	2	2	2	16		
		11/02/20	0	2	2	0	0	0	0	2	0	0	1	2	2	2	13		
		02/09/21	0	2	2	0	0	0	0	2	0	0	2	0	2	2	12		
		05/03/21	0	2	2	2	0	0	0	2	0	0	2	2	2	2	16		
MW112	Dexter Ave N ROW	12/26/13	0	2	2	0	0	0	0	0	0	0	0	0	0	0	4	4	10
		03/22/17	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2		
		06/16/17	0	0	2	2	0	0	0	0	0	0	2	0	0	0	6		
		04/12/18	0	0	2	2	0	0	0	0	0	0	1	0	0	0	5		
		12/22/18	0	0	2	2	0	0	0	0	0	0	0	0	0	0	4		
		04/22/19	0	0	2	2	0	3	0	0	0	3	1	0	0	0	11		
		07/16/19	0	0	2	2	0	0	0	0	0	3	2	0	0	0	9		
		10/21/19	0	0	2	2	0	0	0	0	0	0	2	0	0	0	6		
		01/24/20	0	0	2	2	0	3	3	2	0	0	1	0	0	0	13		
		05/07/20	0	0	2	2	0	3	3	0	0	0	1	0	0	0	11		
		07/27/20	0	0	2	2	0	3	3	0	0	3	2	0	0	0	15		
		11/17/20	0	0	2	0	0	3	0	0	0	0	2	0	0	0	7		
		02/11/21	0	0	2	0	0	3	0	0	0	0	2	0	0	0	7		
		05/14/21	0	0	2	0	0	3	0	0	0	3	0	0	0	0	8		
MW126	Alley E of Seattle Roy Aloha Shops	10/15/19	0	0	2	2	0	0	0	0	0	3	2	0	0	0	9	–	8
		01/14/20	0	0	2	2	0	0	0	0	0	0	2	0	0	0	6		
		04/09/20	0	0	2	2	0	0	3	0	0	3	1	0	0	0	11		
		07/24/20	0	0	2	2	0	0	0	0	0	3	1	0	0	0	8		
		11/09/20	0	0	2	2	0	0	0	0	0	3	1	0	0	0	8		
		02/10/21	0	0	2	2	0	0	0	0	0	0	2	0	0	0	6		
		05/04/21	0	0	2	2	0	0	0	0	0	3	0	0	0	0	7		

Table 17

Groundwater Natural Attenuation Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	Preliminary EPA Anaerobic Biodegradation Screening Score															Total Score	Pre EVO	Post EVO
			Alk	Cl^-	NO_3^-	SO_4^{2-}	TOC	Fe^{2+}	CH_4	Ethane/ Ethene	pH	DO	ORP	TCE	cDCE	VC				
MW130	Property, NW quadrant	03/29/17	0	2	2	2	0	3	3	2	0	0	0	2	2	2	20	17	–
		06/30/17	1	2	2	2	0	0	3	2	0	0	1	2	2	2	19		
		05/21/18	0	2	0	2	0	0	3	3	0	0	1	2	2	2	17		
		12/17/18	1	2	2	2	0	0	0	3	0	-3	0	2	2	2	13		
		Decommissioned March 2019																	
MW-132	Property, SE quadrant	04/26/18	1	2	2	2	0	0	3	2	0	0	0	2	2	2	18	15	–
		12/13/18	0	2	2	2	0	0	0	2	0	0	0	0	2	2	12		
		Decommissioned March 2019																	
MW-134	Property, NE quadrant	04/16/18	0	2	2	2	0	0	3	3	0	3	2	0	2	2	21	21	
		Decommissioned March 2019																	
MW-135	Property, NE quadrant	04/25/18	0	2	2	0	0	3	0	3	0	0	0	2	2	2	16	18	–
		12/13/19	1	2	2	0	0	0	3	3	0	3	0	2	2	2	20		
		Decommissioned March 2019																	
MW-136	Property, SW quadrant	04/16/18	0	2	2	2	0	0	3	0	0	3	1	2	2	2	19	19	–
		Decommissioned March 2019																	
MW-139	Property, SE quadrant	04/25/18	0	2	2	2	2	0	0	0	0	3	0	0	2	0	13	13	–
		Decommissioned March 2019																	
MW-143	8th Ave N ROW, E side	04/30/18	1	2	2	2	0	0	3	3	0	0	0	0	2	2	17	19	20
		01/29/19	1	2	2	2	0	0	3	3	0	3	2	0	2	0	20		
		04/24/19	1	2	2	2	0	0	3	3	0	0	0	0	0	0	13		
		07/19/19	1	2	2	2	0	3	3	2	0	3	2	0	2	0	22		
		10/16/19	1	2	2	0	2	0	3	3	0	0	1	2	2	2	20		
		01/22/20	1	2	2	2	0	0	3	2	0	3	2	0	2	2	21		
		04/24/20	1	2	2	2	0	3	3	2	0	0	2	0	2	0	19		
		07/29/20	1	2	2	2	0	0	3	2	0	0	1	2	2	0	17		
		11/24/20	1	2	2	2	0	0	3	3	0	3	2	2	2	2	24		
		02/08/21	1	2	2	0	2	0	3	3	0	0	1	0	2	2	18		
		05/19/21	1	2	2	2	2	0	3	3	0	3	2	0	2	2	24		
MW-145	8th Ave N ROW, E side	04/27/18	0	2	2	0	0	0	3	2	0	3	0	2	2	2	18	14	10
		01/29/19	0	2	2	0	0	0	0	0	0	0	2	0	2	2	10		
		04/26/19	0	2	2	0	0	0	0	0	0	3	1	0	0	2	10		
		Damaged June 2019 and Decommissioned December 2019																	

Table 17

Groundwater Natural Attenuation Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	Preliminary EPA Anaerobic Biodegradation Screening Score																
			Alk	Cl^-	NO_3^-	SO_4^{2-}	TOC	Fe^{2+}	CH_4	Ethane/ Ethene	pH	DO	ORP	TCE	cDCE	VC	Total Score	Pre EVO	Post EVO
MW-145R	8th Ave N ROW, E side	12/16/19	0	2	2	2	0	0	0	0	0	3	2	0	2	0	13		14
		01/21/20	0	2	2	2	0	0	0	0	0	3	2	0	2	0	13		
		04/02/20	0	2	2	2	0	0	3	0	0	3	1	0	2	0	15		
		08/03/20	0	2	2	2	0	3	3	0	0	0	0	2	2	0	16		
		11/23/20	0	2	2	0	0	3	3	0	0	0	2	0	2	0	14		
		02/05/21	0	2	2	0	0	3	3	0	0	0	1	0	2	0	13		
		05/12/21	0	2	2	0	0	3	3	0	0	0	2	0	2	0	14		
MW-147	Roy St ROW, S side	05/01/18	0	2	2	0	2	0	3	3	0	3	0	2	2	2	21	20	22
		01/22/19	0	2	2	0	0	3	3	3	0	0	0	2	2	2	19		
		04/23/19	1	2	2	0	0	3	3	3	0	3	2	2	2	2	25		
		07/18/19	0	2	2	0	0	3	3	3	0	3	0	2	2	2	22		
		10/14/19	1	2	2	0	0	0	3	3	0	3	0	2	2	2	20		
		01/24/20	1	2	2	0	0	0	3	3	0	–	1	2	2	2	18		
		04/29/20	1	2	2	0	0	3	3	3	0	0	1	2	2	2	21		
		07/09/20	1	2	2	2	0	3	3	3	0	0	1	2	2	2	23		
		11/10/20	1	2	2	2	0	3	3	3	0	0	2	2	2	2	24		
		02/09/21	1	2	2	0	0	3	3	3	0	-3	1	2	2	2	18		
		05/04/21	1	2	2	2	0	3	3	3	0	3	2	2	2	2	27		
MW-148	Roy St ROW, S side	05/01/18	0	2	2	0	0	0	3	0	0	3	0	0	0	0	10	10	13
		01/23/19	0	2	2	0	0	0	3	0	0	0	0	2	0	0	9		
		04/26/19	0	2	2	0	0	0	3	0	0	3	0	0	0	2	12		
		07/22/19	0	2	2	0	0	0	3	0	0	3	2	0	0	2	14		
		10/16/19	0	2	2	0	0	0	3	0	0	3	0	0	0	2	12		
		01/20/20	0	2	2	0	0	0	3	0	0	3	2	2	0	2	16		
		04/30/20	0	2	2	0	0	0	3	0	0	0	2	0	0	0	9		
		07/15/20	0	2	2	0	0	0	3	2	0	3	1	0	0	2	15		
		11/11/20	0	2	2	0	0	0	3	0	0	3	2	0	0	0	12		
MW-152	Property, SW quadrant	04/10/18	0	2	2	2	0	0	3	3	0	0	0	2	2	2	18	19	–
		12/14/18	0	2	2	0	0	3	3	3	0	0	0	2	2	2	19		
		Decommissioned March 2019																	
MW-157	8th Ave N ROW, E side	04/26/18	0	2	2	2	0	0	0	2	0	0	0	2	2	2	14	18	23
		01/24/19	1	2	2	0	0	3	3	3	0	0	1	2	2	2	21		
		04/24/19	1	2	2	0	2	3	3	3	0	3	0	2	2	2	25		

Table 17

Groundwater Natural Attenuation Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	Preliminary EPA Anaerobic Biodegradation Screening Score																
			Alk	Cl^-	NO_3^-	SO_4^{2-}	TOC	Fe^{2+}	CH_4	Ethane/ Ethene	pH	DO	ORP	TCE	cDCE	VC	Total Score	Pre EVO	Post EVO
MW-157 (continued)		07/22/19	1	2	2	0	0	3	3	2	0	3	2	2	2	2	24		
		10/16/19	1	2	2	2	0	0	3	2	0	3	1	0	2	0	18		
		01/20/20	1	2	2	0	2	3	3	2	0	3	0	2	2	2	24		
		04/24/20	1	2	2	0	0	3	3	3	0	3	0	0	2	2	21		
		07/15/20	1	2	2	0	0	3	3	3	0	3	2	2	2	2	25		
		11/23/20	1	2	2	0	2	3	3	2	0	0	2	2	2	2	23		
MW-190	Valley St ROW, S side	10/14/19	0	2	2	0	0	0	0	0	0	0	1	0	2	2	9	–	11
		01/23/20	0	0	2	2	0	0	3	0	0	0	2	0	2	0	11		
		04/02/20	0	2	2	0	0	0	0	0	0	3	0	0	2	2	11		
		08/04/20	0	2	2	0	0	0	0	0	0	0	0	0	2	2	8		
		11/18/20	0	2	2	0	0	0	0	2	0	0	2	0	2	2	12		
		02/03/21	0	2	2	0	0	0	3	2	0	0	2	0	2	2	15		
		05/14/21	0	2	2	0	0	0	3	2	0	–	0	0	2	2	13		
MW-303	Dexter Ave N ROW, E side	10/21/19	0	2	2	0	0	0	0	0	0	3	2	0	0	0	9	–	7
		01/24/20	0	2	2	0	0	0	0	0	–	–	2	2	0	0	8		
		05/07/20	0	2	2	0	0	0	0	0	0	0	2	0	0	0	6		
		07/27/20	0	2	2	0	0	0	0	0	0	0	1	0	0	0	5		
MW-307	Roy St ROW, S side	10/11/19	0	2	2	0	0	0	0	2	0	3	2	0	2	2	15	–	9
		01/15/20	0	2	2	0	0	0	0	0	0	3	2	0	2	0	11		
		04/28/20	0	2	2	0	0	0	0	0	0	0	2	0	0	0	6		
		07/29/20	0	2	0	0	0	0	0	0	0	0	1	0	0	0	3		
MW-309	Alley E of Seattle Roy Aloha Shops	10/14/19	0	2	2	0	0	0	0	0	0	0	0	2	2	2	10	–	12
		01/16/20	0	2	2	0	0	0	0	0	0	3	2	0	2	2	13		
		04/08/20	0	2	2	0	0	0	0	0	0	3	2	0	2	2	13		
		07/06/20	0	2	2	0	0	0	0	0	0	3	2	0	2	2	13		
MW-311	Alley E of Seattle Roy Aloha Shops	10/10/19	1	2	2	0	0	0	3	2	0	3	1	2	2	2	20	–	21
		01/14/20	1	2	2	2	0	0	3	2	0	3	2	2	2	2	23		
		04/23/20	1	2	2	2	0	0	0	2	0	0	1	2	2	2	16		
		07/16/20	1	2	2	2	0	3	3	2	0	3	2	2	2	2	26		
MW-314	Alley E of Seattle Roy Aloha Shops	10/10/19	0	2	2	0	0	3	0	2	0	3	0	2	2	2	18	–	20
		01/15/20	0	2	2	0	0	0	0	0	0	3	1	2	2	2	14		

Table 17

Groundwater Natural Attenuation Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	Preliminary EPA Anaerobic Biodegradation Screening Score																
			Alk	Cl^-	NO_3^-	SO_4^{2-}	TOC	Fe^{2+}	CH_4	Ethane/ Ethene	pH	DO	ORP	TCE	cDCE	VC	Total Score	Pre EVO	Post EVO
MW-314 (continued)		04/22/20	1	2	2	0	0	3	3	3	0	3	1	2	2	2	24		
		07/16/20	1	2	2	0	0	3	3	3	0	3	1	2	2	2	24		
MW-316	Mercer St ROW, N side	10/02/19	1	2	2	0	0	3	0	0	0	3	0	0	0	0	11	–	9
		01/16/20	1	2	2	0	0	0	0	0	0	3	1	0	0	0	9		
		04/21/20	1	2	2	0	0	0	0	0	0	3	0	0	0	0	8		
		07/24/20	1	2	2	0	0	0	0	0	0	3	0	0	0	0	8		
MW-318	9th Ave N ROW, W side	10/08/19	1	2	2	0	0	3	0	2	0	3	1	0	2	2	18	–	19
		01/16/20	1	2	2	0	0	3	3	2	0	0	1	0	2	2	18		
		04/27/20	1	2	2	2	0	3	3	2	0	3	1	0	2	2	23		
		07/30/20	1	2	2	2	0	3	3	0	0	0	1	0	2	2	18		
MW-322	9th Ave N ROW, W side	10/07/19	1	2	2	0	0	0	3	2	0	3	1	2	2	2	20	–	22
		01/21/20	1	2	2	2	0	3	3	3	0	3	1	2	2	2	26		
		04/29/20	1	2	2	0	0	3	3	2	–	0	0	2	2	2	19		
		07/07/20	1	2	2	0	0	3	3	2	0	3	2	2	2	2	24		
MW-334	900 Roy St, S end	04/24/20	1	2	2	2	0	3	3	0	0	0	1	0	0	0	14	–	16
		07/07/20	1	2	2	2	0	3	3	0	0	3	1	0	0	0	17		
MW-335	Mercer St ROW, N side	05/01/20	0	2	2	0	0	0	0	0	0	3	0	2	2	0	11	–	12
		07/08/20	0	2	2	0	0	0	0	0	0	3	1	2	2	0	12		
MW-338	Lake Union Park, N end	05/07/20	1	2	2	2	0	3	3	0	0	3	2	0	0	0	18	–	15
		07/23/20	1	0	2	2	0	3	3	0	0	0	1	0	0	0	12		
MW-340	Lake Union Park, S end	05/12/20	1	2	2	2	0	3	3	0	0	0	2	0	0	0	15	–	15
		07/17/20	1	2	2	2	0	3	3	0	0	0	1	0	0	0	14		
MW-345	SDOT Mercer Parcels	06/01/21	0	2	2	0	0	0	0	0	0	0	2	2	2	2	12		12
MW-346	SDOT Mercer Parcels	06/02/21	0	2	2	0	0	0	0	2	0	0	2	2	2	2	14		14
MW-347	SDOT Mercer Parcels	06/01/21	0	2	2	0	0	0	0	2	0	3	1	2	2	2	16		16
MW-348	SDOT Mercer Parcels	06/01/21	0	2	2	0	0	0	0	2	0	0	1	2	2	2	13		13
MW-349	SDOT Mercer Parcels	06/01/21	0	2	2	0	0	0	0	0	0	3	1	2	2	2	14		14
MW-350	SDOT Mercer Parcels	06/01/21	0	2	2	0	0	0	0	2	0	3	2	0	0	0	11		11
W-MW-01	8th Ave N ROW, W side	03/30/17	0	2	2	0	0	0	0	0	0	0	0	2	2	2	10	12	16
		06/19/17	0	2	2	0	0	0	0	0	0	0	1	0	2	2	9		

Table 17

Groundwater Natural Attenuation Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	Preliminary EPA Anaerobic Biodegradation Screening Score																
			Alk	Cl^-	NO_3^-	SO_4^{2-}	TOC	Fe^{2+}	CH_4	Ethane/ Ethene	pH	DO	ORP	TCE	cDCE	VC	Total Score	Pre EVO	Post EVO
W-MW-01 (continued)		04/13/18	0	2	2	0	0	0	3	0	0	3	0	2	2	2	16		
		01/25/19	0	2	2	0	0	3	0	0	0	0	1	2	2	2	14		
		07/23/19	0	2	2	0	0	0	0	0	0	3	2	2	2	2	15		
		10/15/19	0	2	2	0	0	0	0	0	0	3	2	2	2	2	15		
		01/27/20	0	2	2	0	0	0	0	0	0	3	2	2	2	2	15		
		04/03/20	0	2	2	0	0	0	0	0	0	3	2	2	2	2	15		
		07/31/20	0	2	2	0	0	0	0	0	0	0	1	2	2	2	11		
		11/24/20	0	2	2	0	0	0	3	0	0	3	1	2	2	2	17		
		02/03/21	0	2	2	2	2	0	3	0	0	3	1	2	2	2	21		
		05/17/21	0	2	2	2	2	0	3	0	0	0	0	2	2	2	17		
W-MW-02	8th Ave N ROW, W side	12/16/13	0	2	2	0	0	0	0	0	0	3	1	2	2	2	14	20	22
		03/27/17	1	2	2	2	2	3	3	0	0	3	0	2	2	2	24		
		06/19/17	1	2	2	2	2	3	3	0	0	0	1	0	2	2	20		
		06/12/18	1	2	2	2	2	3	3	2	0	0	1	0	2	2	22		
		01/25/19	1	2	2	2	2	3	3	0	0	0	1	0	2	2	20		
		04/23/19	1	2	2	2	2	0	3	2	0	0	1	2	2	2	21		
		07/23/19	1	2	2	2	2	3	3	2	0	0	0	0	2	2	21		
		10/18/19	1	2	2	2	2	3	3	2	0	3	1	0	2	2	25		
		01/28/20	1	2	2	2	2	3	3	2	0	–	1	0	2	2	22		
		04/01/20	1	2	2	2	2	3	3	2	0	3	0	0	2	2	24		
		07/31/20	1	2	2	2	2	0	3	2	0	0	1	2	2	2	21		
Deep Water-Bearing Zone																			
FMW-129	SDOT Mercer Parcels, NE quadrant	04/10/17	0	2	2	0	0	0	0	2	0	0	2	2	2	0	12	14	16
		06/23/17	0	2	2	0	0	3	0	2	0	0	1	2	2	2	16		
		07/16/19	0	2	2	0	0	0	0	0	0	3	0	2	2	2	13		
		10/21/19	0	2	2	0	0	0	0	0	0	3	0	2	2	2	13		
		01/14/20	0	2	2	0	0	0	0	0	0	3	0	2	2	0	11		
		05/06/20	0	2	2	0	0	0	0	2	0	3	1	2	2	2	16		
		07/10/20	1	2	2	0	0	3	0	2	0	3	1	2	2	2	20		
		11/10/20	1	2	2	0	0	3	0	2	0	3	2	2	2	2	21		
		02/10/21	1	2	2	2	0	3	0	0	0	0	0	2	2	0	14		
		05/26/21	1	2	2	0	0	3	0	2	0	3	2	2	2	0	19		

Table 17

Groundwater Natural Attenuation Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	Preliminary EPA Anaerobic Biodegradation Screening Score														Total Score	Pre EVO	Post EVO
			Alk	Cl^-	NO_3^-	SO_4^{2-}	TOC	Fe^{2+}	CH_4	Ethane/ Ethene	pH	DO	ORP	TCE	cDCE	VC			
FMW-131	Block 37, SE quadrant	03/24/17	0	0	2	2	0	0	0	0	0	0	1	0	2	0	7	7	15
		06/23/17	0	2	2	0	0	0	0	0	0	0	1	0	2	0	7		
		10/21/19	0	0	2	2	0	0	0	0	0	3	1	0	2	2	12		
		01/22/20	0	0	2	2	0	0	3	0	0	0	0	0	2	2	11		
		04/29/20	1	2	2	2	0	3	3	0	0	3	1	0	2	2	21		
		07/30/20	0	0	2	2	0	0	3	0	0	3	1	0	2	2	15		
FMW-137	Alley E of Block 38 West	11/06/19	1	2	2	0	0	0	0	0	0	3	0	0	2	0	10	–	12
		01/22/20	0	2	2	0	0	0	0	0	0	3	0	0	2	0	9		
		05/06/20	1	2	2	2	0	3	0	0	0	3	1	0	0	0	14		
		07/31/20	1	2	2	2	0	3	0	0	0	0	1	0	2	0	13		
FMW-140	900 Roy St, S end	10/31/19	1	2	2	2	0	0	3	2	0	3	1	0	2	2	20	–	20
		01/22/20	1	2	2	0	0	3	3	3	0	3	1	0	2	2	22		
		04/28/20	1	2	2	0	0	3	3	2	0	0	0	0	2	2	17		
		07/07/20	1	2	2	0	0	3	3	2	0	3	1	0	2	2	21		
GEI-2	Block 37, NW quadrant	03/24/17	1	2	2	2	0	0	0	0	0	0	1	0	2	2	12	18	21
		06/23/17	1	2	2	2	0	3	3	2	0	3	1	0	2	2	23		
		07/16/19	1	2	2	0	0	3	3	2	0	3	1	0	2	2	21		
		10/21/19	1	2	2	0	2	3	3	2	0	3	1	0	2	2	23		
		01/22/20	1	2	2	0	0	3	3	0	0	3	1	2	2	0	19		
		04/29/20	1	2	2	2	0	3	0	0	0	3	2	0	2	2	19		
		07/30/20	1	2	2	2	0	3	3	2	0	3	1	0	2	2	23		
MW102	Valley Street ROW, S side	04/25/18	0	0	2	2	0	3	0	0	0	3	0	0	0	0	10	8	6
		01/24/19	0	0	2	2	0	0	0	0	0	0	2	0	0	0	6		
		05/01/19	0	0	2	2	0	0	0	0	0	0	0	0	0	0	4		
		07/18/19	0	0	2	2	0	0	0	0	0	3	1	0	0	0	8		
		11/14/19	0	0	2	2	0	0	0	0	0	0	0	0	0	0	4		
		01/23/20	0	0	2	2	0	0	0	0	0	3	2	0	0	0	9		
		04/02/20	0	0	2	2	0	0	0	0	0	3	0	0	0	0	7		
		08/04/20	0	0	2	2	0	0	0	0	0	3	1	0	0	0	8		
		11/18/20	0	0	2	2	0	0	0	0	0	0	2	0	0	0	6		
		02/03/21	0	0	2	2	0	0	0	0	0	0	2	0	0	0	6		
		05/14/21	0	0	2	2	0	0	0	0	0	0	2	0	0	0	6		

Table 17

Groundwater Natural Attenuation Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	Preliminary EPA Anaerobic Biodegradation Screening Score															Total Score	Pre EVO	Post EVO
			Alk	Cl^-	NO_3^-	SO_4^{2-}	TOC	Fe^{2+}	CH_4	Ethane/ Ethene	pH	DO	ORP	TCE	cDCE	VC				
MW103	Alley E of Seattle Roy Aloha Shops	12/18/13	1	2	2	2	0	3	0	2	-2	3	0	2	2	2	19	17	15
		03/23/17	1	2	2	0	0	0	0	2	0	0	0	2	2	2	13		
		06/14/17	1	2	2	0	0	0	3	2	0	3	1	2	2	2	20		
		10/14/19	0	2	2	0	0	0	0	2	0	3	1	0	2	2	14		
		01/16/20	0	2	2	0	0	3	0	2	0	3	2	0	2	2	18		
		04/23/20	0	2	2	2	0	3	0	2	0	3	2	2	2	2	22		
		07/06/20	0	0	2	2	0	0	0	0	0	0	1	2	2	2	11		
		11/02/20	0	0	2	2	0	0	0	0	0	3	1	2	2	2	14		
		02/10/21	0	0	2	2	0	0	0	0	0	0	2	2	2	2	12		
		05/03/21	0	0	2	2	0	0	0	2	0	3	2	2	2	2	17		
MW104	8th Ave N ROW, W side	12/17/13	0	2	2	0	0	3	0	0	0	3	0	0	2	0	12	13	16
		03/30/17	0	2	2	2	0	0	0	0	0	0	0	0	2	0	8		
		06/30/17	0	0	2	2	0	0	0	0	0	3	2	2	2	0	13		
		04/09/18	0	2	2	2	0	0	0	0	0	3	1	2	2	2	16		
		02/01/19	0	0	2	2	0	0	3	2	-2	3	2	2	2	2	18		
		04/23/19	0	2	2	2	0	0	0	2	-2	3	0	2	2	2	15		
		07/22/19	0	2	2	2	0	0	0	2	-2	3	2	2	2	2	17		
		10/18/19	0	2	2	2	0	0	0	2	0	3	2	2	2	2	19		
		01/29/20	0	2	2	2	2	0	0	2	-2	–	2	2	2	2	16		
		04/01/20	0	0	2	2	0	0	0	0	0	3	1	2	2	2	14		
		07/31/20	0	0	2	2	0	–	0	0	0	3	1	2	2	2	14		
		11/17/20	0	0	2	2	0	0	0	0	0	3	2	2	2	2	15		
		02/10/21	0	0	2	2	0	0	0	0	0	0	1	2	2	2	11		
MW105	Roy Street ROW, S side	12/29/13	1	2	2	0	0	3	0	0	0	0	0	0	0	2	10	12	16
		04/11/18	0	2	2	2	0	0	3	0	–	0	1	0	2	2	14		
		01/23/19	0	2	2	2	0	0	0	0	0	0	0	2	2	2	12		
		04/23/19	0	2	2	2	0	0	3	0	0	3	1	0	2	2	17		
		07/17/19	0	2	2	2	0	0	3	0	0	3	0	0	2	2	16		
		10/22/19	1	2	2	2	0	3	3	0	0	0	2	0	2	2	19		
		01/20/20	0	2	2	2	0	3	0	0	0	0	2	2	2	2	17		
		05/12/20	0	2	2	2	0	0	0	0	0	0	1	2	2	0	11		
		07/27/20	0	2	2	2	0	3	0	0	0	0	1	2	2	2	16		
		11/17/20	0	2	2	2	0	3	0	0	0	0	1	2	2	2	16		

Table 17

Groundwater Natural Attenuation Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	Preliminary EPA Anaerobic Biodegradation Screening Score														Total Score	Pre EVO	Post EVO
			Alk	Cl^-	NO_3^-	SO_4^{2-}	TOC	Fe^{2+}	CH_4	Ethane/ Ethene	pH	DO	ORP	TCE	cDCE	VC			
MW105 (continued)		02/11/21	0	2	2	2	0	3	0	0	0	0	2	2	2	2	17		
		06/07/21	0	2	2	2	0	3	0	0	0	0	0	2	2	2	15		
MW106	SDOT Mercer Parcels, NW quadrant	04/14/17	0	2	2	2	0	0	0	0	-2	0	1	0	0	0	5	8	8
		06/30/17	0	2	2	2	0	0	0	0	0	3	2	0	0	0	11		
		05/04/18	0	2	2	2	0	0	0	2	0	0	0	0	0	0	8		
		04/26/19	0	2	2	2	0	0	0	0	0	0	1	0	0	0	7		
		07/19/19	0	2	2	2	0	0	0	0	0	0	0	0	0	0	6		
		10/18/19	0	2	2	2	0	0	0	0	0	3	1	0	0	0	10		
		01/14/20	0	2	2	2	0	0	0	0	0	0	1	0	0	0	7		
		05/06/20	0	2	2	2	0	0	0	0	0	0	1	0	0	0	7		
		07/10/20	0	2	2	2	0	0	0	0	0	0	1	0	0	0	7		
		11/10/20	0	2	2	2	0	0	0	0	0	3	2	0	0	0	11		
		02/12/21	0	2	2	2	0	0	0	0	0	0	1	0	0	0	7		
		05/13/21	0	2	2	2	0	0	0	0	–	0	2	0	0	0	8		
MW113	9th Ave N ROW, W side	12/19/13	0	2	2	2	0	0	0	0	-2	3	0	2	2	2	13	18	18
		03/22/17	1	2	2	0	2	3	0	0	0	0	1	2	2	2	17		
		06/16/17	1	2	2	0	0	3	3	3	0	0	1	2	2	2	21		
		02/07/19	1	2	2	0	0	3	3	2	0	0	0	2	2	2	19		
		07/17/19	0	2	2	2	0	0	3	2	0	0	0	2	2	2	17		
		10/22/19	1	2	2	0	0	3	3	3	0	3	0	0	2	2	21		
		01/14/20	1	2	2	0	0	0	3	3	0	0	2	0	2	2	17		
		04/27/20	1	2	2	0	0	3	3	2	0	3	1	0	2	2	21		
		07/28/20	1	2	2	0	0	0	3	2	0	3	1	2	2	2	20		
		11/24/20	1	2	2	0	0	0	3	2	0	3	1	2	2	2	20		
		02/10/21	1	2	2	2	0	0	0	0	0	-3	0	2	2	2	10		
		05/25/21	1	2	2	0	0	0	3	2	0	3	2	2	2	2	21		
MW122	Alley E of Seattle Roy Aloha Shops	10/14/19	0	0	2	2	0	0	0	0	0	0	0	0	0	0	4	–	7
		01/17/20	0	0	2	2	0	0	0	0	0	3	1	0	0	0	8		
		04/07/20	0	0	2	2	0	0	0	0	0	3	1	0	0	0	8		
		07/24/20	0	0	2	2	0	0	0	0	0	3	1	0	0	0	8		
MW123	Westlake Ave N ROW, W side	10/18/19	1	2	2	2	0	3	3	0	0	3	1	0	0	0	17	–	15
		01/22/20	1	2	2	0	0	3	3	0	0	0	1	0	0	0	12		

Table 17

Groundwater Natural Attenuation Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	Preliminary EPA Anaerobic Biodegradation Screening Score														Total Score	Pre EVO	Post EVO
			Alk	Cl^-	NO_3^-	SO_4^{2-}	TOC	Fe^{2+}	CH_4	Ethane/ Ethene	pH	DO	ORP	TCE	cDCE	VC			
MW123 (continued)		05/05/20	1	2	2	0	0	3	3	0	0	3	2	0	0	0	16		
		07/30/20	1	2	2	2	0	3	3	0	0	3	0	0	0	0	16		
MW124	Valley Street ROW, S side	12/26/13	0	0	0	2	0	0	0	0	0	0	0	2	2	0	6	5	6
		04/13/18	0	0	2	2	0	0	0	0	0	0	0	0	0	0	4		
		10/11/19	0	0	2	2	0	0	0	0	0	-3	1	0	0	0	2		
		01/30/20	0	0	2	2	0	0	0	0	0	–	2	0	0	0	6		
		04/03/20	0	0	2	2	0	0	0	0	0	3	0	0	0	0	7		
		08/03/20	0	0	2	2	0	0	0	0	0	3	1	0	0	0	8		
MW128	Westlake Ave N ROW, E side	03/29/17	1	2	2	2	0	3	3	2	0	0	1	0	2	2	20	20	22
		06/21/17	1	2	2	2	0	0	3	2	0	3	1	0	2	2	20		
		07/18/19	1	2	2	2	0	0	3	2	0	3	2	0	2	2	21		
		10/11/19	1	2	2	0	0	3	3	2	0	3	1	0	2	2	21		
		01/20/20	1	2	2	2	0	3	3	2	0	3	1	0	2	2	23		
		04/27/20	1	2	2	2	0	3	3	2	0	3	1	0	2	2	23		
		06/29/20	1	2	2	2	0	3	3	2	0	3	2	0	2	2	24		
MW-133	Property, SW quadrant	04/25/18	0	0	2	2	0	3	3	2	0	3	1	2	2	2	22	22	–
		Decommissioned March 2019																	
MW-137	Property, SW quadrant	04/12/18	0	2	2	2	0	0	3	0	-2	3	2	0	2	2	16	16	–
		Decommissioned March 2019																	
MW-138	Dexter Ave N ROW, E side	04/11/18	0	2	2	0	0	0	0	0	0	3	1	0	0	0	8	7	9
		01/03/19	0	2	2	0	0	0	0	0	0	0	1	0	0	0	5		
		04/22/19	0	2	2	0	0	0	0	0	0	3	1	0	0	0	8		
		07/19/19	0	2	2	0	0	0	0	0	0	3	2	0	0	0	9		
		10/21/19	0	2	2	0	0	0	0	0	0	0	2	0	0	0	6		
		01/27/20	0	2	2	0	0	0	3	0	0	3	2	0	0	0	12		
		05/08/20	0	0	2	0	0	0	0	0	0	0	1	0	0	0	3		
		07/27/20	0	2	2	0	0	3	0	0	0	3	0	0	0	0	10		
		11/18/20	0	2	2	0	0	3	0	0	0	3	1	0	0	0	11		
		02/11/21	0	2	2	0	0	3	0	0	0	3	1	0	0	0	11		
		06/07/21	0	2	2	0	0	3	0	0	0	0	2	0	2	2	13		
MW-140	Roy St ROW, N side	04/12/18	0	2	2	2	0	0	0	0	0	3	2	2	2	2	17	17	–
		Decommissioned March 2019																	

Table 17

Groundwater Natural Attenuation Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	Preliminary EPA Anaerobic Biodegradation Screening Score																
			Alk	Cl^-	NO_3^-	SO_4^{2-}	TOC	Fe^{2+}	CH_4	Ethane/ Ethene	pH	DO	ORP	TCE	cDCE	VC	Total Score	Pre EVO	Post EVO
MW-141	Property, SE quadrant	04/12/18	0	0	2	2	0	0	3	0	0	3	1	2	2	2	17	17	–
		Decommissioned March 2019																	
MW-153	Roy St ROW, S side	05/01/18	0	2	2	0	0	0	0	0	0	3	0	0	2	2	11	10	9
		01/22/19	0	0	2	2	0	0	0	0	0	0	0	0	2	2	8		
		04/24/19	0	0	2	2	0	0	0	0	0	3	0	0	2	2	11		
		07/22/19	0	0	2	2	0	0	0	0	0	0	1	2	2	2	11		
		10/15/19	0	0	2	2	0	0	0	0	0	3	0	0	0	0	7		
		01/21/20	0	0	2	2	0	0	0	0	0	3	2	0	0	0	9		
		04/30/20	0	0	2	2	0	0	0	0	0	3	1	0	0	0	8		
		07/15/20	0	0	2	2	0	0	0	0	0	0	1	0	0	0	5		
		11/09/20	0	0	2	2	0	0	0	0	0	0	2	0	0	2	8		
		02/09/21	0	0	2	2	0	0	0	0	0	0	1	0	2	2	9		
		05/10/21	0	0	2	2	0	0	0	0	0	0	2	0	2	2	10		
MW-158A	8th Ave N ROW, E side	04/30/18	1	2	2	0	2	0	0	2	0	3	0	2	2	2	18	16	16
		01/24/19	1	2	2	0	0	0	0	0	0	0	2	2	2	2	13		
		04/25/19	1	2	2	0	0	0	0	0	0	3	1	2	2	2	15		
		07/19/19	1	2	2	2	0	0	0	0	0	3	2	2	2	2	18		
		10/16/19	1	2	2	0	0	0	0	2	0	0	1	2	2	2	14		
		01/21/20	0	2	2	2	0	0	0	0	0	3	2	0	0	2	13		
		04/24/20	1	2	2	2	0	0	0	0	0	0	0	2	2	2	13		
		07/15/20	1	2	2	2	0	0	0	0	0	3	2	2	2	2	18		
		11/23/20	1	2	2	2	0	0	3	0	0	0	2	2	2	2	18		
		02/02/21	1	2	2	2	0	0	3	0	0	0	2	2	2	2	18		
		05/10/21	1	2	2	2	0	0	3	0	0	0	2	2	2	2	18		
MW-160	8th Ave N ROW, W side	05/21/18	0	0	2	2	0	0	0	2	0	3	2	2	2	0	15	16	13
		01/25/19	0	0	2	2	0	0	3	2	0	3	0	2	2	0	16		
		05/01/19	0	0	2	2	0	0	3	0	0	3	2	2	2	0	16		
		07/23/19	0	0	2	2	0	0	3	0	0	0	0	0	2	2	11		
		10/17/19	0	0	2	2	0	0	3	0	0	0	2	0	2	0	11		
		01/29/20	0	0	2	2	0	0	0	0	0	–	2	2	2	2	12		
		04/01/20	0	0	2	2	0	0	3	0	0	3	0	2	2	0	14		
		08/03/20	0	0	2	2	0	0	3	0	0	0	0	2	2	2	13		
		11/30/20	0	0	2	2	0	0	0	0	0	3	1	2	2	2	14		

Table 17

Groundwater Natural Attenuation Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	Preliminary EPA Anaerobic Biodegradation Screening Score																
			Alk	Cl^-	NO_3^-	SO_4^{2-}	TOC	Fe^{2+}	CH_4	Ethane/ Ethene	pH	DO	ORP	TCE	cDCE	VC	Total Score	Pre EVO	Post EVO
MW-160 (continued)		02/05/21	0	0	2	2	0	0	0	0	0	0	2	2	2	2	12		
		05/12/21	0	0	2	2	0	0	0	0	0	3	0	2	2	2	13		
MW-161	8th Ave N ROW, W side	05/21/18	0	2	2	2	0	0	0	0	0	3	2	2	2	0	15	13	15
		01/25/19	0	2	2	2	0	0	0	0	0	0	0	2	2	0	10		
		05/01/19	0	2	2	2	0	0	0	0	0	3	1	2	2	0	14		
		07/18/19	0	2	2	2	0	0	0	0	0	3	1	2	2	0	14		
		10/14/19	0	2	2	2	0	0	0	0	0	3	2	2	2	0	15		
		01/28/20	0	2	2	2	0	0	0	0	0	0	2	2	2	2	14		
		04/03/20	0	2	2	2	0	0	3	0	0	3	2	2	2	2	20		
		07/31/20	0	2	2	2	0	0	0	0	0	3	1	2	2	2	16		
		12/01/20	0	2	2	2	0	0	0	0	0	3	1	2	2	2	16		
		02/05/21	0	2	2	2	0	0	0	0	0	0	2	2	2	2	14		
		05/25/21	0	2	2	2	0	0	0	0	0	3	0	2	2	2	15		
MW-304	Dexter Ave N ROW, E side	10/21/19	0	2	2	2	0	0	0	0	0	0	2	0	0	0	8	–	6
		01/27/20	0	0	2	2	0	0	0	0	0		2	0	0	0	6		
		05/07/20	0	0	2	2	0	0	0	0	0	0	2	0	0	0	6		
		07/27/20	0	0	2	2	0	0	0	0	0	0	1	0	0	0	5		
MW-319	9th Ave N ROW, W side	10/08/19	0	2	2	0	0	3	0	0	0	3	0	2	2	2	16	–	16
		01/16/20	0	2	2	0	0	3	0	0	0	3	1	2	2	2	17		
		04/27/20	0	2	2	0	0	0	0	0	0	3	0	2	2	2	13		
		07/27/20	0	2	2	0	0	3	0	0	0	3	0	2	2	2	16		
MW-323	9th Ave N ROW, W side	10/09/19	0	0	0	2	0	0	0	2	0	3	2	2	2	2	15	–	16
		01/20/20	1	2	2	0	0	3	0	2	0	0	1	2	2	2	17		
		04/23/20	0	2	2	0	0	3	0	0	–	3	0	0	2	2	14		
		07/07/20	1	2	2	0	0	3	0	0	0	3	1	2	2	2	18		
MW-324	9th Ave N ROW, N side	10/02/19	1	2	2	0	0	3	3	2	0	3	0	2	2	2	22	–	22
		01/20/20	1	2	2	0	0	3	3	2	0	3	1	0	2	2	21		
		04/24/20	1	2	2	0	0	3	3	3	0	3	1	0	2	2	22		
		07/07/20	1	2	2	0	0	3	3	2	0	3	1	0	2	2	21		
MW-326	Mercer St ROW, N side	10/03/19	0	2	2	0	0	0	0	2	0	3	0	2	2	0	13	–	14
		01/17/20	0	2	2	0	0	0	0	0	0	3	1	2	2	0	12		

Table 17

Groundwater Natural Attenuation Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	Preliminary EPA Anaerobic Biodegradation Screening Score														Total Score	Pre EVO	Post EVO
			Alk	Cl^-	NO_3^-	SO_4^{2-}	TOC	Fe^{2+}	CH_4	Ethane/ Ethene	pH	DO	ORP	TCE	cDCE	VC			
MW-326 (continued)		04/21/20	0	2	2	0	0	3	0	0	0	3	0	0	2	2	14		
		07/23/20	0	2	2	0	0	3	0	0	0	3	1	2	2	2	17		
MW-328	Lake Union Park, S end	10/02/19	1	2	2	2	0	3	3	2	0	3	1	0	2	2	23	–	23
		01/17/20	1	2	2	2	0	3	3	2	0	3	1	0	2	2	23		
		04/08/20	1	2	2	2	0	3	3	2	0	3	1	0	2	2	23		
		07/07/20	1	2	2	2	0	3	3	2	0	3	2	0	2	2	24		
MW-329	Westlake Ave N ROW, E side	10/03/19	1	2	2	2	0	3	3	2	0	3	2	0	2	2	24	–	23
		01/20/20	1	2	2	2	0	3	3	2	0	3	1	0	2	2	23		
		04/27/20	1	2	2	2	0	3	3	2	0	0	1	0	2	2	20		
		08/03/20	1	2	2	2	0	3	3	2	0	3	1	0	2	2	23		
MW-336	Mercer St ROW, N side	05/05/20	1	2	2	0	0	3	0	0	0	0	1	2	2	2	15	–	17
		07/08/20	1	2	2	0	0	3	0	0	0	3	1	2	2	2	18		
MW-341	Lake Union Park, S end	05/12/20	1	2	2	2	0	3	3	2	0	0	2	0	2	2	21	–	23
		07/07/20	1	2	2	2	0	3	3	0	0	3	2	2	2	2	24		
MW-342	Valley St ROW, S side	05/04/20	0	2	2	2	0	0	3	0	0	3	1	0	2	2	17	–	17
		07/30/20	0	0	2	2	0	3	3	0	0	3	0	0	2	2	17		
MW-343	Valley St ROW, S side	05/04/20	1	2	2	2	0	3	0	0	0	0	2	0	0	0	12	–	11
		07/30/20	1	2	2	2	0	3	0	0	0	0	0	0	0	0	10		
Perimeter Injection Zone A																			
PRB-A1	8th Ave N ROW, W side	09/15/20	1	2	2	0	0	3	3	2	0	3	1	2	2	2	23	–	23
PRB-A5	8th Ave N ROW, W side	09/17/20	1	2	2	0	0	3	3	2	0	3	0	2	2	2	22	–	22
PRB-A11	8th Ave N ROW, W side	09/16/20	0	2	2	0	0	3	3	2	0	3	0	2	2	2	21	–	21
PRB-A14	Roy St ROW, N side	09/17/20	0	2	2	0	0	0	0	2	0	0	1	2	2	2	13	–	13
PRB-A17	Roy St ROW, N side	09/15/20	0	2	2	0	0	3	3	2	0	0	0	2	2	2	18	–	18
PRB-A19	Roy St ROW, N side	09/14/20	0	2	2	0	0	3	3	0	0	0	1	2	2	2	17	–	17
PRB-A23	Roy St ROW, N side	09/14/20	1	2	2	2	2	3	3	3	0	3	0	2	0	2	25	–	25
Perimeter Injection Zone B																			
PRB-B1	8th Ave N ROW, W side	09/15/20	0	2	2	0	0	3	3	0	0	3	0	2	2	2	19	–	19
PRB-B4	8th Ave N ROW, W side	09/17/20	1	2	2	0	2	3	3	3	0	3	1	2	2	2	26	–	26
PRB-B11	8th Ave N ROW, W side	09/16/20	1	2	2	0	0	3	3	3	0	0	0	2	2	2	20	–	20

Table 17

Groundwater Natural Attenuation Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	Preliminary EPA Anaerobic Biodegradation Screening Score																
			Alk	Cl^-	NO_3^-	SO_4^{2-}	TOC	Fe^{2+}	CH_4	Ethane/ Ethene	pH	DO	ORP	TCE	cDCE	VC	Total Score	Pre EVO	Post EVO
PRB-B14	Roy St ROW, N side	09/14/20	1	2	2	0	0	0	3	3	0	3	0	2	2	2	20	–	20
PRB-B17	Roy St ROW, N side	09/15/20	0	2	2	0	0	0	3	0	0	0	1	2	2	2	14	–	14
PRB-B19	Roy St ROW, N side	09/18/20	0	2	2	0	0	0	0	0	0	0	0	2	2	2	10	–	10
PRB-B23	Roy St ROW, N side	09/18/20	1	2	2	0	2	0	3	3	0	0	0	0	2	2	17	–	17
Perimeter Injection Zone C																			
PRB-C1	8th Ave N ROW, W side	09/15/20	0	2	2	2	0	0	3	0	0	0	0	2	2	2	15	–	15
PRB-C5	8th Ave N ROW, W side	09/17/20	1	2	2	0	0	3	3	3	0	3	0	2	2	2	23	–	23
PRB-C11	8th Ave N ROW, W side	09/16/20	0	2	2	0	0	0	3	0	0	0	0	2	2	2	13	–	13
PRB-C14	Roy St ROW, N side	09/17/20	0	2	2	0	0	0	0	0	0	0	0	2	2	2	10	–	10
PRB-C17	Roy St ROW, N side	09/15/20	0	2	2	0	0	0	3	0	-2	0	0	2	2	2	11	–	11
PRB-C19	Roy St ROW, N side	09/14/20	0	2	2	2	0	0	0	0	0	3	0	0	2	2	13	–	13
PRB-C23	Roy St ROW, N side	09/14/20	0	2	2	0	0	0	3	0	0	3	0	0	0	0	10	–	10
Perimeter Injection Zone D																			
PRB-D1	8th Ave N ROW, W side	09/15/20	0	2	2	0	0	0	3	0	0	0	1	2	2	2	14		14
PRB-D4	8th Ave N ROW, W side	09/17/20	1	2	2	0	2	3	3	3	0	3	1	2	2	2	26		26
PRB-D11	8th Ave N ROW, W side	09/16/20	0	2	2	0	0	0	3	2	0	0	0	0	2	2	13		13
PRB-D13	Roy St ROW, N side	09/18/20	0	2	2	0	0	0	0	0	0	0	0	2	2	2	10		10
PRB-D17	Roy St ROW, N side	09/21/20	0	2	2	0	0	3	3	3	0	0	0	2	2	2	19		19
PRB-D20	Roy St ROW, N side	09/18/20	0	2	2	0	0	0	0	0	0	0	0	2	2	2	10		10
PRB-D23	Roy St ROW, N side	09/18/20	0	2	2	2	0	0	0	0	0	3	1	0	2	0	12		12
PRB-D23 (dup)	Roy St ROW, N side	09/18/20	0	2	2	2	0	0	0	3	0	3	1	0	0	0	13		13
Treatment Zone A																			
MW-165	Property, NE quadrant	11/04/19	1	2	2	0	2	3	3	3	0	3	2	2	2	2	27	–	26
		01/30/20	1	2	2	2	2	3	3	3	0	0	2	0	0	2	22		
		05/01/20	1	2	2	2	2	3	3	2	0	0	1	2	2	2	24		
		07/09/20	1	2	2	2	2	3	3	3	0	3	2	2	2	2	29		

Table 17

Groundwater Natural Attenuation Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	Preliminary EPA Anaerobic Biodegradation Screening Score																
			Alk	Cl^-	NO_3^-	SO_4^{2-}	TOC	Fe^{2+}	CH_4	Ethane/ Ethene	pH	DO	ORP	TCE	cDCE	VC	Total Score	Pre EVO	Post EVO
MW-165 (continued)		11/05/20	1	2	2	2	2	3	3	3	0	3	2	2	2	2	29		
		05/06/21	1	2	2	2	2	3	3	3	0	3	2	0	2	2	27		
MW-169	Property, SW quadrant	11/05/19	1	2	2	2	0	3	3	3	0	3	1	2	2	2	26	–	24
		01/23/20	1	2	2	2	0	3	3	3	0	3	2	2	0	2	25		
		05/05/20	1	2	2	2	0	3	3	3	0	3	2	0	0	2	23		
		07/10/20	1	2	2	2	0	3	3	3	0	3	2	2	0	2	25		
		11/03/20	1	2	2	0	2	3	3	3	0	3	2	2	0	2	25		
		05/07/21	1	2	2	2	0	3	3	2	0	0	2	2	0	2	21		
MW-173	Property, SE quadrant	11/01/19	1	2	2	0	0	3	3	3	0	3	2	2	2	2	25	–	23
		01/28/20	1	2	2	0	0	3	0	3	–	0	2	2	0	2	17		
		05/01/20	1	2	2	2	2	3	3	3	0	3	2	0	0	2	25		
		07/09/20	1	2	2	2	0	3	3	3	0	3	1	2	0	2	24		
MW-177	Property, SW quadrant	11/06/19	1	2	2	0	2	3	3	3	0	3	1	2	2	2	26	–	23
		01/24/20	1	2	2	0	0	0	3	3	0	0	1	2	2	2	18		
		04/01/20	1	2	2	0	2	3	3	3	0	0	2	2	2	2	24		
		07/10/20	1	2	2	0	2	3	3	3	0	3	1	2	2	2	26		
		11/03/20	1	2	2	0	0	3	3	3	0	3	1	2	2	2	24		
		05/06/21	1	2	2	0	0	3	3	3	0	0	2	2	2	2	22		
MW-181	Property, SW quadrant	11/08/19	1	2	2	2	2	3	3	3	0	3	0	0	2	2	25	–	26
		01/27/20	1	2	2	2	2	3	3	3	0	3	2	0	2	2	27		
		04/01/20	1	2	2	2	2	3	3	3	0	3	1	0	2	2	26		
		07/08/20	1	2	2	2	2	3	3	3	0	0	2	0	2	2	24		
		11/04/20	1	2	2	2	2	3	3	3	0	3	2	2	2	2	29		
		05/06/21	1	2	2	2	2	3	3	3	0	3	0	0	2	2	25		
MW-185	Property, SE quadrant	10/31/19	1	2	2	0	2	3	3	3	0	3	2	2	2	2	27		25
		01/29/20	1	2	2	2	2	3	3	3	0	3	2	0	0	2	25		
		04/02/20	1	2	2	2	2	3	3	3	0	3	2	0	0	2	25		
		07/08/20	1	2	2	2	0	3	3	3	0	0	2	2	0	2	22		
Treatment Zone B																			
MW-166	Property, NE quadrant	11/04/19	1	2	2	2	2	3	3	3	0	3	2	2	2	2	29	–	27
		01/30/20	1	2	2	2	2	3	3	3	0	–	2	0	2	2	24		
		05/01/20	1	2	2	2	2	3	3	3	0	3	2	0	2	2	27		

Table 17

Groundwater Natural Attenuation Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	Preliminary EPA Anaerobic Biodegradation Screening Score																
			Alk	Cl^-	NO_3^-	SO_4^{2-}	TOC	Fe^{2+}	CH_4	Ethane/ Ethene	pH	DO	ORP	TCE	cDCE	VC	Total Score	Pre EVO	Post EVO
MW-166 (continued)		07/09/20	1	2	2	2	0	3	3	3	0	3	2	2	2	2	27		
		11/05/20	1	2	2	2	2	3	3	3	0	3	2	2	2	2	29		
		05/05/21	1	2	2	2	2	3	3	3	0	3	2	0	2	2	27		
MW-170	Property, SW quadrant	11/05/19	1	2	2	0	2	3	3	3	0	3	1	2	2	2	26	–	26
		01/23/20	1	2	2	0	0	3	3	3	0	3	2	2	2	2	25		
		04/02/20	1	2	2	0	0	3	3	3	0	3	2	2	2	2	25		
		07/09/20	1	2	2	2	0	3	3	3	0	3	2	2	2	2	27		
		11/03/20	1	2	2	0	0	3	3	3	0	3	2	2	2	2	25		
		05/07/21	1	2	2	2	0	3	3	3	0	3	2	0	2	2	25		
MW-174	Property, SE quadrant	11/01/19	1	2	2	2	0	3	3	3	0	3	2	0	0	2	23	–	22
		01/28/20	1	2	2	2	0	3	3	3	0	0	2	0	0	2	20		
		05/01/20	1	2	2	2	0	3	3	2	0	3	2	0	0	2	22		
		07/09/20	1	2	2	2	0	3	3	2	0	3	1	2	0	2	23		
MW-178	Property, SW quadrant	11/06/19	1	2	2	2	2	3	3	3	0	3	1	0	0	2	24	–	24
		01/24/20	1	2	2	2	2	3	3	3	0	0	2	0	0	2	22		
		04/02/20	1	2	2	2	2	3	3	3	0	0	2	0	0	2	22		
		07/10/20	1	2	2	2	2	3	3	3	0	3	2	2	0	2	27		
		11/03/20	1	2	2	2	2	3	3	3	0	0	1	2	0	2	23		
		05/06/21	1	2	2	2	2	3	3	3	0	3	0	0	2	2	25		
MW-182	Property, SW quadrant	11/08/19	1	2	2	2	2	3	3	3	0	3	2	2	2	2	29	–	28
		01/27/20	1	2	2	0	2	3	3	3	0	3	2	2	2	2	27		
		04/01/20	1	2	2	0	2	3	3	3	0	3	2	2	2	2	27		
		07/08/20	1	2	2	2	2	3	3	3	0	3	1	2	2	2	28		
		11/04/20	1	2	2	2	2	3	3	3	0	3	2	2	2	2	29		
		05/06/21	1	2	2	2	2	3	3	3	0	3	2	2	2	2	29		
MW-186	Property, SE quadrant	10/31/19	0	2	2	0	0	0	3	2	0	0	1	0	2	2	14	–	20
		01/29/20	0	2	2	0	0	3	3	2	0	0	2	0	2	2	18		
		04/02/20	1	2	2	2	0	3	3	2	0	3	2	0	2	2	24		
		07/08/20	0	2	2	2	0	3	3	2	0	3	2	2	2	2	25		
Treatment Zone C																			
MW-167	Property, NE quadrant	11/04/19	1	2	2	0	0	0	3	3	0	3	2	2	2	2	22	–	22
		01/28/20	1	2	2	2	0	0	3	2	0	3	2	0	2	2	21		

Table 17

Groundwater Natural Attenuation Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	Preliminary EPA Anaerobic Biodegradation Screening Score														Total Score	Pre EVO	Post EVO
			Alk	Cl^-	NO_3^-	SO_4^{2-}	TOC	Fe^{2+}	CH_4	Ethane/ Ethene	pH	DO	ORP	TCE	cDCE	VC			
MW-167 (continued)		05/01/20	1	2	2	2	0	0	3	2	0	3	2	0	2	2	21		
		07/09/20	1	2	2	2	0	–	3	2	0	3	2	2	2	2	23		
MW-171	Property, SW quadrant	11/05/19	0	2	2	0	0	3	0	2	0	3	0	0	2	2	16	–	22
		01/23/20	0	2	2	2	0	0	3	2	0	0	2	2	2	2	19		
		04/02/20	0	2	2	2	0	3	3	2	0	3	2	0	2	2	23		
		07/09/20	0	2	2	2	0	3	3	2	0	3	2	2	2	2	25		
		11/03/20	0	2	2	2	0	3	3	3	0	3	2	2	2	2	26		
		05/07/21	0	2	2	0	0	3	3	3	0	3	2	0	2	2	22		
MW-175	Property, SE quadrant	11/01/19	1	2	2	0	2	0	3	3	0	3	2	2	2	2	24	–	19
		01/28/20	0	2	2	2	0	0	3	2	–	0	2	0	2	2	17		
		05/01/20	0	2	2	2	0	0	3	0	0	3	1	0	0	2	15		
		07/09/20	0	0	2	2	0	0	3	2	0	3	2	2	2	2	20		
MW-179	Property, SW quadrant	11/06/19	1	2	2	0	2	3	3	3	0	3	0	2	2	2	25	–	25
		01/27/20	1	2	2	2	2	3	3	2	0	–	2	2	2	2	25		
		04/02/20	1	2	2	2	2	3	3	2	0	0	2	2	2	2	25		
		07/10/20	1	2	2	0	2	3	3	0	0	3	1	2	2	2	23		
		11/03/20	1	2	2	2	2	3	3	3	0	0	1	2	2	2	25		
		05/06/21	1	2	2	2	2	3	3	3	0	3	0	2	2	2	27		
MW-183	Property, SW quadrant	11/08/19	0	2	2	2	0	0	3	0	0	3	0	2	2	2	18	–	18
		01/27/20	0	2	2	2	0	0	3	2	0	3	2	0	2	2	20		
		04/02/20	0	0	2	2	0	0	3	2	0	3	2	0	2	2	18		
		07/08/20	0	0	2	2	0	0	3	2	0	3	2	2	2	2	20		
		11/04/20	0	0	2	0	0	0	3	2	0	3	1	2	2	2	17		
		05/06/21	0	0	2	0	0	0	3	3	0	3	2	0	2	2	17		
MW-187	Property, SE quadrant	11/01/19	0	2	2	0	2	3	0	0	0	3	2	0	2	2	18	–	14
		01/29/20	0	2	2	2	0	0	0	0	0	0	2	0	2	2	12		
		04/02/20	0	2	2	2	0	0	0	0	0	3	2	0	2	0	13		
		07/08/20	0	2	2	2	0	0	0	0	0	3	1	0	2	0	12		
Treatment Zone D																			
MW-168	Property, NE quadrant	11/04/19	0	0	2	2	0	0	0	0	0	0	1	0	0	0	5	–	11
		01/31/20	0	0	2	2	0	0	0	0	0	–	2	0	0	0	6		

Table 17

Groundwater Natural Attenuation Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	Preliminary EPA Anaerobic Biodegradation Screening Score															Total Score	Pre EVO	Post EVO
			Alk	Cl^-	NO_3^-	SO_4^{2-}	TOC	Fe^{2+}	CH_4	Ethane/ Ethene	pH	DO	ORP	TCE	cDCE	VC				
MW-168 (continued)		05/01/20	0	2	2	2	0	0	3	0	0	3	2	0	0	0	14			
		07/09/20	0	0	2	2	0	3	3	2	0	3	2	0	2	0	19			
MW-172	Property, SW quadrant	11/05/19	0	2	2	0	0	0	0	0	0	0	0	2	2	2	10	–	14	
		01/23/20	0	2	2	0	0	0	0	2	0	0	1	2	2	0	11			
		04/02/20	0	2	2	0	0	0	0	0	0	3	2	2	2	0	13			
		07/09/20	0	2	2	0	0	0	0	0	0	3	1	2	2	2	14			
		11/03/20	0	2	2	0	0	0	3	2	0	3	1	2	2	2	19			
		05/07/21	0	2	2	0	0	0	3	0	0	3	0	2	2	2	16			
MW-176	Property, SE quadrant	11/01/19	1	2	2	2	0	0	0	0	0	0	1	0	0	0	8	–	9	
		01/28/20	0	0	2	2	0	0	0	0	–	0	1	0	0	0	5			
		05/01/20	0	0	2	2	0	0	0	0	0	3	1	0	0	0	8			
		07/09/20	0	0	2	2	0	3	0	0	0	3	2	0	2	0	14			
MW-180	Property, SW quadrant	11/06/19	1	2	2	0	2	3	3	2	0	3	1	2	2	2	25	–	23	
		01/24/20	1	2	2	0	2	3	3	3	0	0	1	2	2	2	23			
		04/01/20	1	2	2	0	2	0	3	0	0	0	2	0	2	2	16			
		07/10/20	1	2	2	0	2	3	3	0	0	3	1	2	2	2	23			
		11/03/20	1	2	2	0	2	3	3	2	0	3	2	2	2	2	26			
		05/06/21	1	2	2	0	2	3	3	2	0	3	0	2	2	2	24			
MW-184	Property, SW quadrant	11/08/19	0	0	2	2	0	0	0	0	0	0	0	2	2	0	8	–	14	
		01/27/20	0	0	2	2	0	0	0	0	0	0	1	2	2	2	11			
		04/01/20	0	0	2	2	0	3	0	0	0	3	2	0	2	0	14			
		07/08/20	0	0	2	2	0	0	3	0	0	3	1	2	2	2	17			
		11/04/20	0	0	2	0	0	0	3	0	0	3	1	2	2	2	15			
		05/06/21	0	0	2	2	0	0	3	2	0	3	0	2	2	2	18			

Table 17

Groundwater Natural Attenuation Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	Preliminary EPA Anaerobic Biodegradation Screening Score														Total Score	Pre EVO	Post EVO
			Alk	Cl^-	NO_3^-	SO_4^{2-}	TOC	Fe^{2+}	CH_4	Ethane/ Ethene	pH	DO	ORP	TCE	cDCE	VC			
MW-188	Property, SE quadrant	10/31/19	0	2	2	0	0	0	0	0	0	0	1	0	0	0	5	–	8
		01/29/20	0	2	2	0	0	0	0	0	0	0	1	0	0	0	5		
		04/02/20	0	2	2	0	0	3	0	0	0	3	2	0	0	0	12		
		07/08/20	0	2	2	0	0	0	0	0	0	3	1	0	0	0	8		

Notes:

Screening based on Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water (Publication EPA/600/R-98/128), September 1998.

Samples from 2013 were collected by SoundEarth Strategies, Inc. All other samples were collected by PES Environmental, Inc.

Alk = alkalinity; Cl^- = chloride; NO_3^- = nitrate; SO_4^{2-} = sulfate; TOC = total organic carbon; Fe^{2+} = ferrous iron; DO = dissolved oxygen; ORP = oxidation/reduction potential.
TCE = trichloroethene; cDCE = cis-1,2-dichloroethene; VC = vinyl chloride

– = Data not available.

Beginning October 2020, select locations were sampled for an abbreviated analyte list (Sulfate, TOC, Total Iron, Total Manganese, Methane, Ethane, and Ethene). Samples with an abbreviated list use the most recently available sample result to score for Alkalinity, Chloride, Nitrate, and Ferrous Iron.

Grey shading indicates the compound was not analyzed. Numerical scoring result is from the most recently available analysis date.

Evaluation of total screening score:

0 - 5	Inadequate evidence for anaerobic biodegradation of CVOCs.	15 - 20	Adequate evidence for anaerobic biodegradation of CVOCs.
6 - 14	Limited evidence for anaerobic biodegradation of CVOCs.	>20	Strong evidence for anaerobic biodegradation of CVOCs.

Pre EVO = Average score prior to completion of On-Property Injection (prior to April 2019).

Post EVO = Average score after completion of On-Property Injection (after March 2019).

Table 18

Soil Vapor CVOC Results
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North Seattle, Washington

Sample Probe	Location Description	Sample Name	Sample Date	Analytical Results (micrograms per cubic meter)									
				PCE		TCE		cDCE		tDCE		VC	
			Screening Level	**320**		**11**		**–**		**610**		**9.5**	
SV01	8th Ave N	SV01-20130311	03/11/13	**1.5**		0.16	U	**0.31**		0.58	U	**0.71**	
(30.4 to 29.9)		SV01-092518	09/25/18	2.72	UJ	2.14	U	1.59	U	1.59	U	1.02	U
(duplicate)		SV01-092518-D	09/25/18	**137**	**J**	2.14	U	1.59	U	1.59	U	1.02	U
		SV01-020619	02/06/19	2.72	U	2.14	U	1.59	U	1.59	U	1.02	U
		SV01-042919	04/29/19	2.72	U	2.14	U	1.59	U	1.59	U	1.02	U
(duplicate)		SV01-042919-D	04/29/19	2.72	U	2.14	U	1.59	U	1.59	U	1.02	U
		SV-01-071919	07/19/19	2.72	U	2.14	U	1.59	U	1.59	U	1.02	U
(duplicate)		SV-01-071919-D	07/19/19	2.72	U	2.14	U	1.59	U	1.59	U	1.02	U
		SV01-110119	11/01/19	1.36	UJ	1.07	U	0.793	U	0.793	U	0.511	U
(duplicate)		SV01-110119-D	11/01/19	**2.75**	**J**	1.07	U	0.793	U	0.793	U	0.511	U
		SV01-012720	01/27/20	1.36	U	1.07	U	0.793	U	0.793	U	0.511	U
(duplicate)		SV01-012720-D	01/27/20	1.36	U	1.07	U	0.793	U	0.793	U	0.511	U
		SV01-040120	04/01/20	**1.66**		1.07	U	0.793	U	0.793	U	0.511	U
(duplicate)		SV01-040120-D	04/01/20	1.36	U	1.07	U	0.793	U	0.793	U	0.511	U
		SV01-071520	07/15/20	**1.79**		1.07	U	0.793	U	0.793	U	0.511	U
		SV-01-110820	11/08/20	**1.55**		1.07	U	0.793	U	0.793	U	0.511	U
		SV01-020721	02/07/21	1.36	U	1.07	U	**1.09**		0.793	U	**180**	
		SV01-051221	05/12/21	**2.76**		1.07	U	**8.60**		0.793	U	**409**	
(duplicate)		SV-907-051121	05/12/21	**2.97**		**1.19**		**9.99**		**0.816**		**473**	
SV02	8th Ave N	SV02-20130311	03/11/13	**2.3**		0.17	U	0.12	U	0.61	U	0.04	U
(32.1 to 31.6)		SV02-092518	09/25/18	2.72	U	2.14	U	1.59	U	1.59	U	1.02	U
		SV02-020619	02/06/19	2.72	U	2.14	U	1.59	U	1.59	U	1.02	U
		SV02-042919	04/29/19	2.72	U	2.14	U	1.59	U	1.59	U	1.02	U
		SV-02-071919	07/19/19	**31.3**		2.14	U	1.59	U	1.59	U	1.02	U
		SV02-110119	11/01/19	**14.5**		1.07	U	0.793	U	0.793	U	0.511	U
		SV02-071720	07/17/20	**9.51**		1.07	U	0.793	U	0.793	U	0.511	U
SV03	8th Ave N	SV03-20130311	03/11/13	**4.6**		**0.39**		0.12	U	0.58	U	0.037	U
(31.8 to 31.3)		SV03-092518	09/25/18	2.72	U	2.14	U	1.59	U	1.59	U	1.02	U
		SV03-020619	02/06/19	2.72	U	2.14	U	1.59	U	1.59	U	1.02	U
		SV03-042919	04/29/19	2.72	U	2.14	U	1.59	U	1.59	U	1.02	U
SV-04	Roy St	SV-04-071620	07/16/20	**31.8**		1.07	U	0.793	U	0.793	U	0.511	U
(38.6 to 38.1)		SV-04-111020	11/10/20	**21.8**		1.07	U	0.793	U	0.793	U	0.511	U
SV-05	Roy St	SV-05-071620	07/16/20	**34.5**		1.07	U	0.793	U	0.793	U	0.511	U
(31.6 to 31.1)		SV-05-111020	11/10/20	**55.2**		1.07	U	0.793	U	0.793	U	0.511	U
SV-06	Roy St	SV-06-071620	07/16/20	**105**		1.07	U	0.793	U	0.793	U	0.511	U
(47.9 to 47.4)		SV-06-111020	11/10/20	**79.4**		1.07	U	0.793	U	0.793	U	0.511	U
		SV-06-020321	02/03/21	**58.3**		1.07	U	0.793	U	0.793	U	0.511	U
		SV-06-050621	05/06/21	**61.8**		1.07	U	0.793	U	0.793	U	0.511	U
SV-07	Roy St	SV-07-071620	07/16/20	**43.5**		1.07	U	0.793	U	0.793	U	0.511	U
(duplicate)		SV-901-071620	07/16/20	**42.5**		**1.18**		0.793	U	0.793	U	0.511	U
(38.9 to 38.4)		SV-07-111020	11/10/20	**51.6**		**1.32**		0.793	U	0.793	U	0.511	U
		SV-07-020321	02/03/21	**30.3**		1.07	U	0.793	U	0.793	U	0.511	U
		SV-07-050621	05/06/21	**26.4**		1.07	U	0.793	U	0.793	U	0.511	U
SV-08	8th Ave N	SV-08-071420	07/14/20	**2.91**		1.07	U	0.793	U	0.793	U	0.511	U
(31.4 to 30.9)		SV-08-110220	11/02/20	**14.6**		1.07	U	0.793	U	0.793	U	0.511	U
		SV-08-020321	02/03/21	**6.26**		1.07	U	0.793	U	0.793	U	0.511	U
		SV-08-050521	05/05/21	**7.06**		1.07	U	0.793	U	0.793	U	0.511	U

Table 18

Soil Vapor CVOC Results
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North Seattle, Washington

Sample Probe	Location Description	Sample Name	Sample Date	Analytical Results (micrograms per cubic meter)									
				PCE		TCE		cDCE		tDCE		VC	
			Screening Level	320		11		–		610		9.5	
SV-09	8th Ave N	SV-09-071420	07/14/20	**20.2**		1.07	U	0.793	U	0.793	U	0.511	U
(duplicate)		SV-900-071420	07/14/20	**28.3**		1.07	U	0.793	U	0.793	U	0.511	U
(35.3 to 34.8)		SV-09-110220	11/02/20	**9.30**		**17.4**		0.793	U	0.793	U	0.511	U
		SV-09-020321	02/03/21	**6.99**		1.07	U	0.793	U	0.793	U	0.511	U
(duplicate)		SV-904-020321	02/03/21	**6.93**		1.07	U	0.793	U	0.793	U	0.511	U
		SV-09-050521	05/05/21	**12.6**		1.07	U	0.793	U	0.793	U	0.511	U
SV-10	Valley St	SV-10-071620	07/16/20	**7.13**		1.07	U	0.793	U	0.793	U	0.511	U
(46.3 to 45.8)		SV-10-110820	11/08/20	**5.17**		1.07	U	0.793	U	0.793	U	0.511	U
		SV-10-020521	02/05/21	**1.89**		1.07	U	0.793	U	0.793	U	0.511	U
		SV-10-050521	05/05/21	**3.27**		1.07	U	0.793	U	0.793	U	0.511	U
SV-11	Valley St	SV-11-071620	07/16/20	**55.8**		**1.43**		0.793	U	0.793	U	0.511	U
(37.4 to 36.9)		SV-11-110820	11/08/20	1.36	U	1.07	U	0.793	U	0.793	U	0.511	U
(duplicate)		SV-902-110820	11/08/20	1.36	U	1.07	U	0.793	U	0.793	U	0.511	U
		SV-11-020621	02/06/21	1.36	U	1.07	U	0.793	U	0.793	U	0.511	U
		SV-11-050521	05/05/21	**3.03**		1.07	U	0.793	U	0.793	U	0.511	U
SV-12	Valley St	SV-12-071620	07/16/20	**7.40**		1.07	U	0.793	U	0.793	U	0.511	U
(39.1 to 38.6)		SV-12-110820	11/08/20	**3.19**		**2.14**		**1.20**		0.793	U	0.511	U
		SV-12-020521	02/05/21	**1.72**		1.07	U	0.793	U	0.793	U	0.511	U
		SV-12-050221	05/02/21	**2.41**		1.07	U	0.793	U	0.793	U	0.511	U
SV-13	Valley St	SV-13-071620	07/16/20	**3.23**		1.07	U	0.793	U	0.793	U	0.511	U
(32.9 to 32.4)		SV-13-110820	11/08/20	**3.46**		1.07	U	0.793	U	0.793	U	0.511	U
		SV-13-020521	02/05/21	**2.62**		1.07	U	0.793	U	0.793	U	0.511	U
SV-14	Roy St	SV-14-071620	07/16/20	**3.61**		1.07	U	0.793	U	0.793	U	0.511	U
(35.4 to 34.9)		SV-14-120220	12/02/20	1.36	U	1.07	U	0.793	U	0.793	U	0.511	U
		SV-14-020321	02/03/21	1.36	U	1.07	U	0.793	U	0.793	U	0.511	U
		SV-14-050421	05/04/21	**1.42**		1.07	U	0.793	U	0.793	U	0.511	U
SV-15	Roy St	SV-15-071620	07/16/20	1.36	U	1.07	U	0.793	U	0.793	U	0.511	U
(28.5 to 28.0)		SV-15-120220	12/02/20	1.36	U	1.07	U	0.793	U	0.793	U	0.511	U
		SV-15-020321	02/03/21	1.36	U	1.07	U	0.793	U	0.793	U	0.511	U
		SV-15-050421	05/04/21	1.36	U	1.07	U	0.793	U	0.793	U	**31.7**	
SV-16	8th Ave N	SV-16-071520	07/15/20	**6.86**		1.07	U	0.793	U	0.793	U	0.511	U
(37.5 to 37.0)		SV-16-111920	11/19/20	**4.20**		1.07	U	0.793	U	0.793	U	0.511	U
		SV-16-020721	02/07/21	**2.83**		1.07	U	0.793	U	0.793	U	0.511	U
		SV-16-051021	05/10/21	**153**		**12.8**		**1.17**		**1.29**		0.511	U
SV-17	8th Ave N	SV-17-071620	07/16/20	**4.80**		1.07	U	0.793	U	0.793	U	0.511	U
(36.6 to 36.1)		SV-17-110220	11/02/20	**6.65**		1.07	U	0.793	U	0.793	U	0.511	U
		SV-17-020721	02/07/21	**1.51**		1.07	U	0.793	U	0.793	U	0.511	U
		SV-17-050621	05/06/21	**1.79**		1.07	U	0.793	U	0.793	U	0.511	U
SV-18	8th Ave N	SV-18-071620	07/16/20	1.36	U	1.07	U	0.793	U	0.793	U	0.511	U
(36.6 to 36.1)		SV-18-110220	11/02/20	1.36	U	1.07	U	0.793	U	0.793	U	0.511	U
		SV-18-020721	02/07/21	1.36	U	1.07	U	0.793	U	0.793	U	0.511	U
		SV-18-050621	05/06/21	1.36	U	1.07	U	0.793	U	0.793	U	0.511	U
SV-19	9th Ave N	SV-19-071520	07/15/20	**46.7**		1.07	U	0.793	U	0.793	U	0.511	U
(29.7 to 29.2)		SV-19-110820	11/08/20	**15.1**		1.07	U	0.793	U	0.793	U	0.511	U
		SV-19-020721	02/07/21	**20.4**		1.07	U	0.793	U	0.793	U	0.511	U
		SV-19-050421	05/04/21	**29.8**		1.07	U	0.793	U	0.793	U	0.511	U
SV-20	9th Ave N	SV-20-071520	07/15/20	**74.7**		1.07	U	0.793	U	0.793	U	0.511	U
(25.7 to 25.2)		SV-20-110820	11/08/20	**99.8**		1.07	U	0.793	U	0.793	U	0.511	U
		SV-20-020721	02/07/21	1.36	U	1.07	U	0.793	U	0.793	U	0.511	U
		SV-20-050521	05/05/21	**49.4**		1.07	U	0.793	U	0.793	U	0.511	U

Table 18

Soil Vapor CVOC Results
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North Seattle, Washington

Sample Probe	Location Description	Sample Name	Sample Date	Analytical Results (micrograms per cubic meter)									
				PCE		TCE		cDCE		tDCE		VC	
			Screening Level	320		11		–		610		9.5	
SV-21	Alley Between 8th & 9th	SV-21-071520	07/15/20	**36.4**		1.07	U	0.793	U	0.793	U	0.511	U
(29.8 to 29.3)		SV-21-110920	11/09/20	**19.8**		1.07	U	0.793	U	0.793	U	0.511	U
		SV-21-020321	02/03/21	**7.81**		**6.38**		0.793	U	0.793	U	0.511	U
		SV-21-050421	05/04/21	**13.6**		1.07	U	0.793	U	0.793	U	0.511	U
(duplicate)		SV-906-050421	05/04/21	**13.8**		1.07	U	0.793	U	0.793	U	0.511	U
SV-22	Alley Between 8th & 9th	SV-22-071520	07/15/20	**14.9**		1.07	U	0.793	U	0.793	U	0.511	U
(25.7 to 25.2)		SV-22-110920	11/09/20	**11.1**		1.07	U	0.793	U	0.793	U	0.511	U
		SV-22-020321	02/03/21	**8.08**		1.07	U	0.793	U	0.793	U	0.511	U
		SV-22-050421	05/04/21	**7.26**		1.07	U	0.793	U	0.793	U	0.511	U
SV-23	Alley Between 8th & 9th	SV-23-071420	07/14/20	**9.30**		1.07	U	0.793	U	0.793	U	0.511	U
(27.9 to 27.4)		SV-23-110920	11/09/20	**5.97**		1.07	U	0.793	U	0.793	U	0.511	U
		SV-23-020321	02/03/21	**3.23**		1.07	U	0.793	U	0.793	U	0.511	U
		SV-23-050421	05/04/21	**3.98**		1.07	U	0.793	U	0.793	U	0.511	U
SV-24	Alley Between 8th & 9th	SV-24-071420	07/14/20	1.36	U	1.07	U	0.793	U	0.793	U	0.511	U
(23.8 to 23.3)		SV-24-110920	11/09/20	1.36	U	1.07	U	0.793	U	0.793	U	0.511	U
		SV-24-020321	02/03/21	1.36	U	1.07	U	0.793	U	0.793	U	0.511	U
		SV-24-050421	05/04/21	1.36	U	1.07	U	0.793	U	0.793	U	0.511	U
SV-25	Dexter Ave N	SV-25-071520	07/15/20	**215**		1.07	U	0.793	U	0.793	U	0.511	U
(52.7 to 52.2)		SV-25-110920	11/09/20	**14.8**	**J**	1.07	U	0.793	U	0.793	U	0.511	U
(duplicate)		SV-903-110920	11/09/20	**54.0**	**J**	1.07	U	0.793	U	0.793	U	0.511	U
		SV-25-020621	02/06/21	**73.3**		1.07	U	0.793	U	0.793	U	0.511	U
		SV-25-050521	05/05/21	**121**		1.07	U	0.793	U	0.793	U	0.511	U
SV-26	Dexter Ave N	SV-26-071520	07/15/20	**66.9**		**2.61**		0.793	U	0.793	U	0.511	U
(46.7 to 46.2)		SV-26-111120	11/11/20	**105**		**2.37**		0.793	U	0.793	U	0.511	U
		SV-26-050621	05/06/21	**51.6**		1.07	U	0.793	U	0.793	U	0.511	U
SV-27	Dexter Ave N	SV-27-071520	07/15/20	**95.7**		1.07	U	0.793	U	0.793	U	0.511	U
(44.1 to 43.6)		SV-27-110920	11/09/20	**87.6**		1.07	U	0.793	U	0.793	U	0.511	U
		SV-27-020621	02/06/21	1.36	U	1.07	U	0.793	U	0.793	U	0.511	U
(duplicate)		SV-905-020621	02/06/21	1.36	U	1.07	U	0.793	U	0.793	U	0.511	U
		SV-27-050521	05/05/21	**65.9**		1.07	U	0.793	U	0.793	U	0.511	U
SV-28	Dexter Ave N	SV-28-071720	07/17/20	**31.6**		1.07	U	0.793	U	0.793	U	0.511	U
(53.1 to 52.6)		SV-28-110920	11/09/20	**79.4**		1.07	U	0.793	U	0.793	U	0.511	U
		SV-28-020621	02/06/21	**36.0**		1.07	U	0.793	U	0.793	U	0.511	U
		SV-28-050521	05/05/21	**55.7**		1.07	U	0.793	U	0.793	U	0.511	U

Notes:

Laboratory analyses conducted by Air Toxics Ltd. of Folsom, CA (2013 samples) and ESC/Pace Analytical of Mount Juliet, TN (2018-2021 samples).

VOCs analyzed by U.S. Environmental Protection Agency Method TO-15 or Modified TO-15 Selective Ion.

Screen Elevation is shown beneath Probe Location in parentheses. Screen Elevation is relative to NAVD88 Vertical Datum. Survey data is from 06/16/2020-07/31/2020.

Screening levels based on CLARC, July 2021, Vapor Intrusion Method B table, Sub-Slab Soil Gas Screening Levels (if available), or Method B Indoor Air Cleanup Levels with a 10x vapor attenuation factor if a sub-slab cleanup level is not available.

– = Screening level not established.

U = Not detected at a concentration exceeding the laboratory reporting limit.

Detected results shown in **bold**, detections exceeding MTCA Method B sub-slab screening levels shown in **bold** and highlighted in gray.

PCE = Perchloroethylene (Tetrachloroethene).

TCE = Trichloroethene.

cDCE = cis-1,2-Dichloroethene.

tDCE = trans-1,2-Dichloroethene.

VC = Vinyl chloride.

(duplicate) = Field duplicate. Samples collected concurrently.

Table 19

Vadose Zone Soil COPC Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Analyte Name	CAS Number	IA and RI Laboratory PQLs (mg/kg)		Number of Samples Analyzed[a]	Number of Detected Results	FOD[f]	Max Detected Concentration (mg/kg)	Vadose Soil PCUL[b]	Number of Detections Above the Soil PCUL	Max Detected/ PCUL[c,e,f]	COPC Evaluation							Comments
											Frequency of Exceedance		95 UCL[d]	95 UCL/ PCUL[e]	3-Part Rule[e]	FOD ≤ 5%, Max ≤ 10x PCUL[f]	COPC?[g]	
		Min	Max								Detections	All Samples[e]						
1,1,1,2-Tetrachloroethane	630-20-6	0.0010	0.0073	506	0	–	–	0.0098	0	–	–	–	–	–	–	–	No	Not detected
1,1,1-Trichloroethane (TCA)	71-55-6	0.0010	0.0031	506	2	0%	0.00172 J	1.5	0	0.0011	–	–	–	–	–	–	No	Max detected concentration < PCUL
1,1,2,2-Tetrachloroethane	79-34-5	0.0010	0.0073	497	0	–	–	0.0040	0	–	–	–	–	–	–	–	No	Not detected
1,1,2-Trichloroethane	79-00-5	0.0010	0.0073	506	1	0.2%	0.00199 J	0.017	0	0.12	–	–	–	–	–	–	No	Max detected concentration < PCUL
1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1	0.0010	–	198	0	–	–	7,600	0	–	–	–	–	–	–	–	No	Not detected
1,1-Dichloroethane	75-34-3	0.0010	0.0073	506	1	0.2%	0.000609 J	0.041	0	0.01	–	–	–	–	–	–	No	Max detected concentration < PCUL
1,1-Dichloroethene	75-35-4	0.0010	0.0073	506	0	–	–	0.046	0	–	–	–	–	–	–	–	No	Not detected
1,1-Dichloropropene	563-58-6	0.0011	0.0031	506	0	–	–	na	0	–	–	–	–	–	–	–	No	No Ecology provided PCUL
1,2,3-Trichlorobenzene	87-61-6	0.0010	0.0223	506	1	0.2%	0.00121 J	0.20	0	0.006	–	–	–	–	–	–	No	Max detected concentration < PCUL
1,2,3-Trichloropropane	96-18-4	0.0027	0.0154	506	0	–	–	2.4	0	–	–	–	–	–	–	–	No	Not detected
1,2,3-Trimethylbenzene	526-73-8	0.0010	0.0062	198	50	25%	0.166	1.3	0	0.13	–	–	–	–	–	–	No	Max detected concentration < PCUL
1,2,4-Trichlorobenzene	120-82-1	0.0010	0.0364	391	1	0.3%	0.0199	0.56	0	0.04	–	–	–	–	–	–	No	Max detected concentration < PCUL
1,2,4-Trimethylbenzene	95-63-6	0.0010	0.0062	506	71	14%	15	1.3	5	12	7%	1%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
1,2-Dibromo-3-Chloropropane	96-12-8	0.0054	0.0308	506	0	–	–	0.0013	0	–	–	–	–	–	–	–	No	Not detected
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.0011	0.0031	492	0	–	–	0.00027	0	–	–	–	–	–	–	–	No	Not detected
1,2-Dichlorobenzene	95-50-1	0.0011	0.0062	308	3	1%	0.0345	7.0	0	0.0049	–	–	–	–	–	–	No	Max detected concentration < PCUL
1,2-Dichloroethane (EDC)	107-06-2	0.0010	0.0073	391	0	–	–	0.023	0	–	–	–	–	–	–	–	No	Not detected
1,2-Dichloropropane	78-87-5	0.0010	0.0146	506	0	–	–	0.025	0	–	–	–	–	–	–	–	No	Not detected
1,3,5-Trimethylbenzene	108-67-8	0.0010	0.0062	391	40	10%	5.70	1.3	2	4.4	5%	0.5%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
1,3-Dichlorobenzene	541-73-1	0.0010	0.0146	506	2	0.4%	0.00129 J	na	0	0.14	–	–	–	–	–	–	No	No Ecology provided PCUL
1,3-Dichloropropane	142-28-9	0.0011	0.0062	506	0	–	–	0.88	0	–	–	–	–	–	–	–	No	Not detected
1,4-Dichlorobenzene	106-46-7	0.0011	0.0062	506	2	0%	0.00813	1.2	0	0.0068	–	–	–	–	–	–	No	Max detected concentration < PCUL
2,2-Dichloropropane	594-20-7	0.0011	0.0031	506	0	–	–	na	0	–	–	–	–	–	–	–	No	No Ecology provided PCUL
2-Butanone (Methyl ethyl ketone)	78-93-3	0.0108	0.1230	263	57	22%	0.254 J	20	0	0.013	–	–	–	–	–	–	No	Max detected concentration < PCUL
2-Chlorotoluene	95-49-8	0.0011	0.0031	506	0	–	–	1.9	0	–	–	–	–	–	–	–	No	Not detected
2-Hexanone	591-78-6	0.0010	0.0073	247	1	0.4%	0.0122 J	0.17	0	0.072	–	–	–	–	–	–	No	Max detected concentration < PCUL
4-Chlorotoluene	106-43-4	0.0011	0.0062	506	0	–	–	na	0	–	–	–	–	–	–	–	No	No Ecology provided PCUL
4-Isopropyltoluene (p-Isopropyltoluene)	99-87-6	0.0011	0.0062	391	32	8%	2.51	na	0	–	–	–	–	–	–	–	No	No Ecology provided PCUL
Acetone	67-64-1	0.0252	0.0617	247	54	22%	0.667 J	29	0	0.023	–	–	–	–	–	–	No	Max detected concentration < PCUL
Acrylonitrile	107-13-1	0.0100	0.0364	198	0	–	–	0.030	0	–	–	–	–	–	–	–	No	Not detected
Benzene	71-43-2	0.0010	0.0029	506	78	15%	3.50	0.027	18	130	23%	4%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
Bromobenzene	108-86-1	0.0011	0.0154	391	0	–	–	0.56	0	–	–	–	–	–	–	–	No	Not detected
Bromochloromethane	74-97-5	0.0054	0.0062	198	0	–	–	na	0	–	–	–	–	–	–	–	No	No Ecology provided PCUL
Bromoform	75-25-2	0.0011	0.0308	391	0	–	–	0.36	0	–	–	–	–	–	–	–	No	Not detected
Bromomethane	74-83-9	0.0054	0.0154	391	0	–	–	0.050	0	–	–	–	–	–	–	–	No	Not detected
Carbon disulfide	75-15-0	0.0010	0.0154	198	22	11%	0.0239	5.0	0	0.0048	–	–	–	–	–	–	No	Max detected concentration < PCUL
Carbon Tetrachloride	56-23-5	0.0011	0.0062	506	0	–	–	0.042	0	–	–	–	–	–	–	–	No	Not detected
Chlorobenzene	108-90-7	0.0011	0.0031	506	1	0.2%	0.00224 J	0.86	0	0.0026	–	–	–	–	–	–	No	Max detected concentration < PCUL
Chlorodibromomethane	124-48-1	0.0010	0.0045	441	0	–	–	0.028	0	–	–	–	–	–	–	–	No	Not detected
Chloroethane (Ethyl Chloride)	75-00-3	0.0050	0.0062	506	0	–	–	na	0	–	–	–	–	–	–	–	No	No Ecology provided PCUL
Chloroform	67-66-3	0.0025	0.0073	506	24	5%	0.0159	0.074	0	0.2	–	–	–	–	–	–	No	Max detected concentration < PCUL
Chloromethane	74-87-3	0.0023	0.0154	506	0	–	–	na	0	–	–	–	–	–	–	–	No	No Ecology provided PCUL
cis-1,2-Dichloroethene (cDCE)	156-59-2	0.0010	0.0031	506	34	7%	0.192	0.078	1	2.5	3%	0.2%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
Cis-1,3-Dichloropropene	10061-01-5	0.0011	0.0031	391	0	–	–	0.0023	0	–	–	–	–	–	–	–	No	Not detected
Dibromomethane	74-95-3	0.0011	0.0062	391	0	–	–	0.42	0	–	–	–	–	–	–	–	No	Not detected
Dichlorobromomethane	75-27-4	0.0011	0.0031	506	0	–	–	0.036	0	–	–	–	–	–	–	–	No	Not detected
Dichlorodifluoromethane (CFC-12)	75-71-8	0.0029	0.0054	391	0	–	–	38	0	–	–	–	–	–	–	–	No	Not detected

Table 19

Vadose Zone Soil COPC Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Analyte Name	CAS Number	IA and RI Laboratory PQLs (mg/kg) Min	IA and RI Laboratory PQLs (mg/kg) Max	Number of Samples Analyzed[a]	Number of Detected Results	FOD[f]	Max Detected Concentration (mg/kg)	Vadose Soil PCUL[b]	Number of Detections Above the Soil PCUL	Max Detected/ PCUL[c,e,f]	COPC Evaluation: Frequency of Exceedance: Detections	Frequency of Exceedance: All Samples[e]	95 UCL[d]	95 UCL/ PCUL[e]	3-Part Rule[e]	FOD ≤ 5%, Max ≤ 10x PCUL[f]	COPC?[g]	Comments
di-Isopropyl ether	108-20-3	0.0011	0.0012	198	0	–	–	na	0	–	–	–	–	–	–	–	No	No Ecology provided PCUL
Ethylbenzene	100-41-4	0.0010	0.0031	506	67	13%	3.90	5.9	0	0.66	–	–	–	–	–	–	No	Max detected concentration < PCUL
Gasoline Range Organics (GRO) w/ benzene	na	5	5	315	23	7%	1,200	30	10	40	43%	3%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
Hexachlorobutadiene	87-68-3	0.0011	0.0308	506	0	–	–	0.60	0	–	–	–	–	–	–	–	No	Not detected
Hexane (n-Hexane)	110-54-3	0.0010	0.0062	247	70	28%	0.967	72	0	0.013	–	–	–	–	–	–	No	Max detected concentration < PCUL
Iodomethane (Methyl Iodide)	74-88-4	0.0109	0.0154	198	0	–	–	na	0	–	–	–	–	–	–	–	No	No Ecology provided PCUL
Isopropylbenzene (Cumene)	98-82-8	0.0010	0.0031	391	23	6%	0.970	15	0	0.065	–	–	–	–	–	–	No	Max detected concentration < PCUL
Methyl isobutyl ketone (4-Methyl-2-pentanone)	108-10-1	0.0100	0.0308	247	1	0.4%	0.00621 J	2.7	0	0.0023	–	–	–	–	–	–	No	Max detected concentration < PCUL
Methyl tert-butyl ether (MTBE)	1634-04-4	0.0010	0.0012	391	3	1%	0.000635 J	0.10	0	0.0064	–	–	–	–	–	–	No	Max detected concentration < PCUL
Methylene chloride	75-09-2	0.0050	0.0446	506	59	12%	0.210 J	0.040	11	5.3	19%	2%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
Naphthalene	91-20-3	0.0050	0.0154	446	42	9%	1.90	4.5	0	0.42	–	–	–	–	–	–	No	Max detected concentration < PCUL
n-Butylbenzene	104-51-8	0.0010	0.0154	342	6	2%	2.20	14	0	0.16	–	–	–	–	–	–	No	Max detected concentration < PCUL
n-Propylbenzene	103-65-1	0.0010	0.0062	391	26	7%	3.00	16	0	0.19	–	–	–	–	–	–	No	Max detected concentration < PCUL
sec-Butylbenzene	135-98-8	0.0010	0.0154	391	8	2%	0.420	25	0	0.017	–	–	–	–	–	–	No	Max detected concentration < PCUL
Styrene	100-42-5	0.0011	0.0154	391	5	1%	0.00169 J	2.2	0	0.00077	–	–	–	–	–	–	No	Max detected concentration < PCUL
tert-Butylbenzene	98-06-6	0.0010	0.0062	391	1	0.3%	0.0180	19	0	0.00095	–	–	–	–	–	–	No	Max detected concentration < PCUL
Tetrachloroethene (PCE)	127-18-4	0.0010	0.0073	506	136	27%	2.44	0.050	34	49	25%	7%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
Toluene	108-88-3	0.0050	0.0062	506	86	17%	0.382	4.5	0	0.085	–	–	–	–	–	–	No	Max detected concentration < PCUL
Diesel Range Organics (DRO)	na	na	na	283	14	5%	906	2,000	0	0.45	–	–	–	–	–	–	No	Max detected concentration < PCUL
Oil Range Organics/Lube Oil (ORO)	na	na	na	283	29	10%	1,500	2,000	0	0.75	–	–	–	–	–	–	No	Max detected concentration < PCUL
Total DRO+ORO	na	na	na	285	31	11%	1,860	2,000	0	0.93	–	–	–	–	–	–	No	Max detected concentration < PCUL
trans-1,2-Dichloroethene (tDCE)	156-60-5	0.0010	0.0062	506	4	1%	0.0162	0.52	0	0.031	–	–	–	–	–	–	No	Max detected concentration < PCUL
Trans-1,3-Dichloropropene	10061-02-6	0.0011	0.0062	391	0	–	–	0.0023	0	–	–	–	–	–	–	–	No	Not detected
trans-1,4-Dichloro-2-butene	110-57-6	0.0027	0.0062	198	2	1%	0.0202	na	0	–	–	–	–	–	–	–	No	No Ecology provided PCUL
Trichloroethene (TCE)	79-01-6	0.0010	0.0029	506	31	6%	0.969	0.025	4	39	13%	1%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
Trichlorofluoromethane (CFC-11)	75-69-4	0.0025	0.0031	506	5	1%	0.00358	23	0	0.00016	–	–	–	–	–	–	No	Max detected concentration < PCUL
Vinyl Acetate	108-05-4	0.0258	0.0154	396	1	0.3%	0.0588 J	33	0	0.0018	–	–	–	–	–	–	No	Max detected concentration < PCUL
Vinyl Chloride	75-01-4	0.0014	0.0073	506	2	0%	0.00371 J	0.0040	0	0.93	–	–	–	–	–	–	No	Max detected concentration < PCUL
Xylenes, Total	1330-20-7	0.0030	0.0080	505	60	12%	7.00	14	0	0.50	–	–	–	–	–	–	No	Max detected concentration < PCUL

Abbreviations

PCUL = Preliminary cleanup level.
FOD = Frequency of Detection.
Max = Maximum.
95UCL = 95 percent upper confidence limit.
COPC = Contaminant of potential concern.
na = Not available.
– = Not applicable.

Data Notes

mg/kg = milligrams per kilogram.
GRO results qualified with "z" are not included in the number of detections above the soil PCUL.
J = The identification of the analyte is acceptable; the reported value is an estimate.
Number of Samples Analyzed includes all samples collected Quarter 1 2017 through Quarter 2 2021, including sample data from other consultants, excluding duplicates and other QC samples.
IA and RI Laboratory PQLs = The minimum and maximum PQL values reported for undiluted samples during the Interim Action (IA) and Remedial Investigation (RI) sampling period.
Reported PQL values are for both the vadose and saturated zone.

COPC Evaluation:

a = Number of Samples Analyzed includes all samples collected Quarter 1 2017 through Quarter 2 2021, including sample data from other consultants, excluding duplicates and other QC samples.
b = Most stringent PCUL soil PCUL vadose, no surface water from Ecology table, 29Dec2021, in milligrams per kilogram (mg/kg). Ecology also provided adjusted PCULs for select analytes using PQLS for the dataset (italicized).
c = If Max Detected/PCUL ≤ 1 then analyte is not a COPC.
d = 95UCL is only calculated when maximum detection ≤2x PCUL and FOD < 10%.
e = 3-part rule: Maximum concentration ≤ 2xPCUL, not more than 10% or results > PCUL, and 95UCL ≤ PCUL.
f = If analyte fails the 3-part rule, the FOD and ratio of maximum detection to PCUL are evaluated.
g = Analyte is a COPC if max detected/PCUL ≥1 AND it fails the 3-Part Rule AND either FOD ≥ 5% or max detected/PCUL ≥ 10X PCUL. The COPC evaluation indicates a COPC with **Yes, in bold, and highlighted.**

Table 20

Saturated Zone Soil COPC Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Analyte Name	CAS Number	IA and RI Laboratory PQLs (mg/kg) Min	IA and RI Laboratory PQLs (mg/kg) Max	Number of Samples Analyzed[a]	Number of Detected Results	FOD[f]	Max Detected Concentration (mg/kg)	Saturated Soil PCUL[b]	Number of Detections Above the Soil PCUL	COPC Evaluation: Max Detected/ PCUL[c,e,f]	COPC Evaluation: Frequency of Exceedance: Detections	COPC Evaluation: Frequency of Exceedance: All Samples[e]	COPC Evaluation: 95 UCL[d]	COPC Evaluation: 95 UCL/ PCUL[e]	COPC Evaluation: 3-Part Rule[e]	COPC Evaluation: FOD ≤ 5%, Max ≤ 10x PCUL[f]	COPC Evaluation: COPC?[g]	Comments
1,1,1,2-Tetrachloroethane	630-20-6	0.0010	0.0073	1,467	5	0.3%	0.000757 J	0.0040	0	0.19	–	–	–	–	–	–	No	Max detected concentration < PCUL
1,1,1-Trichloroethane (TCA)	71-55-6	0.0010	0.0031	1,467	0	–	–	0.084	0	–	–	–	–	–	–	–	No	Not detected
1,1,2,2-Tetrachloroethane	79-34-5	0.0010	0.0073	1,464	4	0.3%	0.000889 J	0.0040	0	0.22	–	–	–	–	–	–	No	Max detected concentration < PCUL
1,1,2-Trichloroethane	79-00-5	0.0010	0.0073	1,466	2	0.1%	0.00189 J	0.0040	0	0.47	–	–	–	–	–	–	No	Max detected concentration < PCUL
1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1	0.0010	–	1,366	0	–	–	120	0	–	–	–	–	–	–	–	No	Not detected
1,1-Dichloroethane	75-34-3	0.0010	0.0073	1,468	3	0.2%	0.00317	0.0040	0	0.79	–	–	–	–	–	–	No	Max detected concentration < PCUL
1,1-Dichloroethene	75-35-4	0.0010	0.0073	1,468	290	20%	1.04	0.0040	98	260	34%	7%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
1,1-Dichloropropene	563-58-6	0.0011	0.0031	1,468	0	–	–	na	0	–	–	–	–	–	–	–	No	No Ecology provided PCUL
1,2,3-Trichlorobenzene	87-61-6	0.0010	0.0223	1,468	2	0.1%	0.00174 J	0.030	0	0.058	–	–	–	–	–	–	No	Max detected concentration < PCUL
1,2,3-Trichloropropane	96-18-4	0.0027	0.0154	1,468	0	–	–	1.5	0	–	–	–	–	–	–	–	No	Not detected
1,2,3-Trimethylbenzene	526-73-8	0.0010	0.0062	1,365	75	5%	5.03	0.073	11	69	15%	1%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
1,2,4-Trichlorobenzene	120-82-1	0.0010	0.0364	1,442	3	0.2%	0.0271	0.030	0	0.90	–	–	–	–	–	–	No	Max detected concentration < PCUL
1,2,4-Trimethylbenzene	95-63-6	0.0010	0.0062	1,467	153	10%	17.0	0.072	13	236	8%	1%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
1,2-Dibromo-3-Chloropropane	96-12-8	0.0054	0.0308	1,468	0	–	–	0.00008	0	–	–	–	–	–	–	–	No	Not detected
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.0011	0.0031	1,462	0	–	–	0.000018	0	–	–	–	–	–	–	–	No	Not detected
1,2-Dichlorobenzene	95-50-1	0.0011	0.0062	1,391	2	0.1%	0.196	0.40	0	0.49	–	–	–	–	–	–	No	Max detected concentration < PCUL
1,2-Dichloroethane (EDC)	107-06-2	0.0010	0.0073	1,442	2	0.1%	0.0128	0.0040	2	3.2	100%	0.1%	–	–	Fail	Pass	No	Fails 3-Part Rule but FOD ≤5% and max ≤10x PCUL
1,2-Dichloropropane	78-87-5	0.0010	0.0146	1,467	4	0.3%	1.13	0.0090	3	126	75%	0.2%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
1,3,5-Trimethylbenzene	108-67-8	0.0010	0.0062	1,440	66	5%	6.20	0.071	8	87	12%	0.6%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
1,3-Dichlorobenzene	541-73-1	0.0010	0.0146	1,467	1	0.1%	0.0133 J	na	1	1.5	100%	0.1%	UTC	–	Pass	–	No	No Ecology provided PCUL
1,3-Dichloropropane	142-28-9	0.0011	0.0062	1,467	0	–	–	0.057	0	–	–	–	–	–	–	–	No	Not detected
1,4-Dichlorobenzene	106-46-7	0.0011	0.0062	1,468	2	0%	0.0559	0.068	0	0.82	–	–	–	–	–	–	No	Max detected concentration < PCUL
2,2-Dichloropropane	594-20-7	0.0011	0.0031	1,468	5	0%	0.00316 J	na	0	–	–	–	–	–	–	–	No	No Ecology provided PCUL
2-Butanone (Methyl Ethyl Ketone)	78-93-3	0.0108	0.1230	1,378	259	19%	0.213	1.4	0	0.15	–	–	–	–	–	–	No	Max detected concentration < PCUL
2-Chlorotoluene	95-49-8	0.0011	0.0031	1,466	0	–	–	0.11	0	–	–	–	–	–	–	–	No	Not detected
2-Hexanone	591-78-6	0.0010	0.0073	1,367	10	0.7%	0.0928	0.012	4	7.7	40%	0.3%	–	–	Fail	Pass	No	Fails 3-Part Rule but FOD ≤5% and max ≤10x PCUL
4-Chlorotoluene	106-43-4	0.0011	0.0062	1,466	1	0.1%	0.00193 J	na	0	–	–	–	–	–	–	–	No	No Ecology provided PCUL
4-Isopropyltoluene (p-Isopropyltoluene)	99-87-6	0.0011	0.0062	1,441	57	4%	3.20	na	0	–	–	–	–	–	–	–	No	No Ecology provided PCUL
Acetone	67-64-1	0.0252	0.0617	1,380	411	30%	11.3 J	2.1	3	5.4	1%	0.2%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
Acrylonitrile	107-13-1	0.0100	0.0364	1,366	4	0.3%	0.0289	0.030	0	0.96	–	–	–	–	–	–	No	Max detected concentration < PCUL
Benzene	71-43-2	0.0010	0.0029	1,482	228	15%	0.304	0.0020	67	152	29%	5%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
Bromobenzene	108-86-1	0.0011	0.0154	1,441	0	–	–	0.033	0	–	–	–	–	–	–	–	No	Not detected
Bromochloromethane	74-97-5	0.0054	0.0062	1,351	0	–	–	na	0	–	–	–	–	–	–	–	No	No Ecology provided PCUL
Bromoform	75-25-2	0.0011	0.0308	1,442	0	–	–	0.023	0	–	–	–	–	–	–	–	No	Not detected
Bromomethane	74-83-9	0.0054	0.0154	1,442	0	–	–	0.0033	0	–	–	–	–	–	–	–	No	Not detected
Carbon Disulfide	75-15-0	0.0010	0.0154	1,353	430	32%	0.0240	0.27	0	0.089	–	–	–	–	–	–	No	Max detected concentration < PCUL
Carbon Tetrachloride	56-23-5	0.0011	0.0062	1,466	0	–	–	0.0022	0	–	–	–	–	–	–	–	No	Not detected
Chlorobenzene	108-90-7	0.0011	0.0031	1,468	5	0.3%	0.0633	0.051	1	1.2	20%	0.1%	0.00047	0.0092	Pass	–	No	Data complies with 3-Part Rule
Chlorodibromomethane	124-48-1	0.0010	0.0045	1,442	3	0.2%	0.000852 J	0.0040	0	0.21	–	–	–	–	–	–	No	Max detected concentration < PCUL
Chloroethane (Ethyl chloride)	75-00-3	0.0050	0.0062	1,465	28	2%	0.0282	na	0	–	–	–	–	–	–	–	No	No Ecology provided PCUL
Chloroform	67-66-3	0.0025	0.0073	1,468	131	9%	0.00244	0.0070	0	0.35	–	–	–	–	–	–	No	Max detected concentration < PCUL
Chloromethane	74-87-3	0.0023	0.0154	1,466	18	1%	0.0575	na	0	–	–	–	–	–	–	–	No	No Ecology provided PCUL
cis-1,2-Dichloroethene (cDCE)	156-59-2	0.0010	0.0031	1,524	954	63%	329	0.0052	704	63269	74%	46.2%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
cis-1,3-Dichloropropene	10061-01-5	0.0011	0.0031	1,442	1	0.1%	0.000791 J	0.00014	1	5.7	100%	0.1%	–	–	Fail	Pass	No	Fails 3-Part Rule but FOD ≤5% and max ≤10x PCUL
Dibromomethane	74-95-3	0.0011	0.0062	1,440	0	–	–	0.028	0	–	–	–	–	–	–	–	No	Not detected
Dichlorobromomethane	75-27-4	0.0011	0.0031	1,468	0	–	–	0.0024	0	–	–	–	–	–	–	–	No	Not detected
Dichlorodifluoromethane (CFC-12)	75-71-8	0.0029	0.0054	1,442	0	–	–	0.53	0	–	–	–	–	–	–	–	No	Not detected
di-Isopropyl ether	108-20-3	0.0011	0.0012	1,365	1	0.1%	0.000791 J	na	0	–	–	–	–	–	–	–	No	No Ecology provided PCUL

Table 20

Saturated Zone Soil COPC Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Analyte Name	CAS Number	IA and RI Laboratory PQLs (mg/kg) Min	IA and RI Laboratory PQLs (mg/kg) Max	Number of Samples Analyzed[a]	Number of Detected Results	FOD[f]	Max Detected Concentration (mg/kg)	Saturated Soil PCUL[b]	Number of Detections Above the Soil PCUL	COPC Evaluation: Max Detected/ PCUL[c,e,f]	COPC Evaluation: Frequency of Exceedance: Detections	COPC Evaluation: Frequency of Exceedance: All Samples[e]	COPC Evaluation: 95 UCL[d]	COPC Evaluation: 95 UCL/ PCUL[e]	COPC Evaluation: 3-Part Rule[e]	COPC Evaluation: FOD ≤ 5%, Max ≤ 10x PCUL[f]	COPC?[g]	Comments
Ethylbenzene	100-41-4	0.0010	0.0031	1,482	106	7%	4.74	0.34	6	14	6%	0%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
Gasoline Range Organics (GRO) w/ benzene	na	5	5	251	117	47%	1200	30	17	40	15%	7%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
Hexachlorobutadiene	87-68-3	0.0011	0.0308	1,466	0	–	–	0.030	0	–	–	–	–	–	–	–	No	Not detected
Hexane (n-Hexane)	110-54-3	0.0010	0.0062	1,367	418	31%	3.06	1.8	2	1.7	0.5%	0.1%	0.023	0.0128	Pass	–	No	Data complies with 3-Part Rule
Iodomethane (Methyl Iodide)	74-88-4	0.0109	0.0154	1,353	0	–	–	na	0	–	–	–	–	–	–	–	No	No Ecology provided PCUL
Isopropylbenzene (Cumene)	98-82-8	0.0010	0.0031	1,441	47	3%	4.94	0.79	5	6.3	11%	0.3%	–	–	Fail	Pass	No	Fails 3-Part Rule but FOD ≤5% and max ≤10x PCUL
Methyl isobutyl ketone (4-Methyl-2-pentanone)	108-10-1	0.0100	0.0308	1,379	1	0.1%	0.00267	0.19	0	0.014	–	–	–	–	–	–	No	Max detected concentration < PCUL
Methyl tert-butyl ether (MTBE)	1634-04-4	0.0010	0.0012	1,441	37	3%	0.554 J	0.0072	14	77	38%	1%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
Methylene Chloride	75-09-2	0.0050	0.0446	1,468	104	7%	1.15	0.040	5	29	5%	0%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
Naphthalene	91-20-3	0.0050	0.0154	1,451	54	4%	5.21	0.24	7	22	13%	0%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
n-Butylbenzene	104-51-8	0.0010	0.0154	1,427	36	3%	5.35	0.71	5	7.5	14%	0.4%	–	–	Fail	Pass	No	Fails 3-Part Rule but FOD ≤5% and max ≤10x PCUL
n-Propylbenzene	103-65-1	0.0010	0.0062	1,440	57	4%	21.2	0.88	6	24	11%	0.4%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
sec-Butylbenzene	135-98-8	0.0010	0.0154	1,440	35	2%	1.93	1.3	3	1.5	9%	0.2%	0.041	0.032	Pass	–	No	Data complies with 3-Part Rule
Styrene	100-42-5	0.0011	0.0154	1,441	6	0.4%	0.00349	0.12	0	0.029	–	–	–	–	–	–	No	Max detected concentration < PCUL
Tert-Butylbenzene	98-06-6	0.0010	0.0062	1,441	11	0.8%	0.105	1.0	0	0.11	–	–	–	–	–	–	No	Max detected concentration < PCUL
Tetrachloroethene (PCE)	127-18-4	0.0010	0.0073	1,524	921	60%	16,400	0.0050	732	3,280,000	79%	48%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
Toluene	108-88-3	0.0050	0.0062	1,482	439	30%	0.852	0.27	4	3.2	1%	0.3%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
Diesel Range Organics (DRO)	na	na	na	88	3	3%	99.0	2,000	0	0.050	–	–	–	–	–	–	No	Max detected concentration < PCUL
Oil Range Organics/Lube Oil (ORO)	na	na	na	91	2	2%	162	2,000	0	0.081	–	–	–	–	–	–	No	Max detected concentration < PCUL
Total DRO+ORO	na	na	na	91	3	3%	261	2,000	0	0.13	–	–	–	–	–	–	No	Max detected concentration < PCUL
trans-1,2-Dichloroethene (tDCE)	156-60-5	0.0010	0.0062	1,481	337	23%	0.700	0.032	26	22	8%	2%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
Trans-1,3-Dichloropropene	10061-02-6	0.0011	0.0062	1,440	2	0.1%	0.00731 J	0.00014	2	52	100%	0.1%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
trans-1,4-Dichloro-2-butene	110-57-6	0.0027	0.0062	1,351	8	1%	0.456	na	0	–	–	–	–	–	–	–	No	No Ecology provided PCUL
Trichloroethene (TCE)	79-01-6	0.0010	0.0029	1,523	800	53%	113	0.0020	627	56,500	78%	41%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
Trichlorofluoromethane (CFC-11)	75-69-4	0.0025	0.0031	1,467	35	2%	0.0638 J	0.79	0	0.0808	–	–	–	–	–	–	No	Max detected concentration < PCUL
Vinyl Acetate	108-05-4	0.0258	0.0154	1,428	6	0.4%	0.0194 J	2.3	0	0.0084	–	–	–	–	–	–	No	Max detected concentration < PCUL
Vinyl Chloride	75-01-4	0.0014	0.0073	1,522	520	34%	17.0	0.0040	349	4,250	67%	23%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
Xylenes, Total	1330-20-7	0.0030	0.0080	1,482	85	6%	6.02	0.83	4	7.3	5%	0.3%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL

Abbreviations

PCUL = Preliminary cleanup level
FOD = Frequency of Detection
Max = Maximum
95UCL = 95 percent upper confidence limit.
COPC = Contaminant of potential concern
na = Not available.
– = Not applicable.

Data Notes

mg/kg = milligrams per kilogram
GRO results qualified with "z" are not included in the number of detections above the soil PCUL.
J = The identification of the analyte is acceptable; the reported value is an estimate.
Number of Samples Analyzed includes all samples collected Quarter 1 2017 through Quarter 2 2021, including sample data from other consultants, excluding duplicates and other QC samples.
IA and RI Laboratory PQLs = The minimum and maximum PQL values reported for undiluted samples during the Interim Action (IA) and Remedial Investigation (RI) sampling period.
Reported PQL values are for both the vadose and saturated zone.

COPC Evaluation:

a = Number of Samples Analyzed includes all samples collected Quarter 1 2017 through Quarter 2 2021, including sample data from other consultants, excluding duplicates and other QC samples.
b = Most stringent PCUL soil PCUL vadose, no surface water from Ecology table, 29Dec2021, in milligrams per kilogram (mg/kg). Ecology also provided adjusted PCULs for select analytes using PQLS for the dataset (italicized).
c = If Max Detected/PCUL ≤ 1 then analyte is not a COPC.
d = 95UCL is only calculated when maximum detection ≤2x PCUL and FOD < 10%
e = 3-part rule: Maximum concentration ≤ 2xPCUL, not more than 10% or results > PCUL, and 95UCL ≤ PCUL.
f = If analyte fails the 3-part rule, the FOD and ratio of maximum detection to PCUL are evaluated.
g = Analyte is a COPC if max detected/PCUL ≥1 AND it fails the 3-Part Rule AND either FOD ≥ 5% or max detected/PCUL ≥ 10X PCUL. The COPC evaluation indicates a COPC with **Yes, in bold, and highlighted.**

Table 21

Groundwater COPC Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Analyte Name	CAS Number	IA and RI Laboratory PQLs (µg/L) Min	IA and RI Laboratory PQLs (µg/L) Max	Number of Samples Analyzed[a]	Number of Detected Results	FOD[f]	Max Detected Concentration (µg/L)		GW PCUL[b]	Number of Detections Above the GW PCUL	COPC Evaluation: Max Detected/ PCUL[c,e,f]	COPC Evaluation: Frequency of Exceedance: Detections	COPC Evaluation: Frequency of Exceedance: All Samples[e]	COPC Evaluation: 95 UCL[d]	COPC Evaluation: 95 UCL/ PCUL[e]	COPC Evaluation: 3-Part Rule[e]	COPC Evaluation: FOD ≤ 5%, Max ≤ 10x PCUL[f]	COPC Evaluation: COPC?[g]	Comments
1,1,1,2-Tetrachloroethane	630-20-6	0.100	0.500	1,265	0	0%	–		1.7	0	–	0%	0%	–	–	–	–	No	Analyte not detected
1,1,1-Trichloroethane (TCA)	71-55-6	0.100	0.500	1,270	13	1%	0.302	J	200	0	0.0015	0%	0%	–	–	–	–	No	Max detected concentration < PCUL
1,1,2,2-Tetrachloroethane	79-34-5	0.100	0.500	1,270	0	0%	–		0.22	0	–	0%	0%	–	–	–	–	No	Analyte not detected
1,1,2-Trichloroethane	79-00-5	0.100	0.500	1,270	0	0%	–		3.0	0	–	0%	0%	–	–	–	–	No	Analyte not detected
1,1,2-Trichlorotrifluoroethane (CFC 113)	76-13-1	0.100	0.500	1,221	17	1%	0.631		240,000	0	0.0000026	0%	0%	–	–	–	–	No	Max detected concentration < PCUL
1,1-Dichloroethane	75-34-3	0.100	0.500	1,270	86	7%	2.60		7.7	0	0.34	0%	0%	–	–	–	–	No	Max detected concentration < PCUL
1,1-Dichloroethene	75-35-4	0.100	0.500	1,270	394	31%	268		7.0	125	38	32%	9.8%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
1,1-Dichloropropene	563-58-6	0.100	0.500	1,270	0	0%	–		na	0	–	–	–	–	–	–	–	No	Analyte not detected
1,2,3-Trichlorobenzene	87-61-6	0.500	0.500	1,270	2	0.2%	0.456		6.4	0	0.071	0%	0%	–	–	–	–	No	Max detected concentration < PCUL
1,2,3-Trichloropropane	96-18-4	0.500	2.50	1,270	0	0%	–		0.00038	0	–	0%	0%	–	–	–	–	No	Analyte not detected
1,2,3-Trimethylbenzene	526-73-8	0.200	0.500	1,225	61	5%	119		80	2	1.5	3%	0.2%	1.78	0.022	Pass	–	No	Data complies with 3-Part Rule
1,2,4-Trichlorobenzene	120-82-1	0.500	1.00	1,240	0	0%	–		15	0	–	0%	0%	–	–	–	–	No	Analyte not detected
1,2,4-Trimethylbenzene	95-63-6	0.200	0.500	1,270	114	9%	157		80	2	2.0	2%	0.2%	1.25	0.016	Pass	–	No	Data complies with 3-Part Rule
1,2-Dibromo-3-Chloropropane	96-12-8	1.00	2.50	1,270	0	0%	–		0.2	0	–	0%	0%	–	–	–	–	No	Analyte not detected
1,2-Dibromoethane	106-93-4	0.100	0.500	1,240	0	0%	–		0.05	0	–	0%	0%	–	–	–	–	No	Analyte not detected
1,2-Dichlorobenzene	95-50-1	0.200	0.500	1,270	4	0%	0.172	J+	600	0	0.00029	0%	0%	–	–	–	–	No	Max detected concentration < PCUL
1,2-Dichloroethane (EDC)	107-06-2	0.100	0.500	1,240	50	4%	3.1	J	4.8	0	0.65	0%	0%	–	–	–	–	No	Max detected concentration < PCUL
1,2-Dichloropropane	78-87-5	0.200	0.500	1,270	24	2%	1.20		5.0	0	0.24	0%	0%	–	–	–	–	No	Max detected concentration < PCUL
1,3,5-Trimethylbenzene	108-67-8	0.200	0.500	1,240	43	3%	13.2		80	0	0.17	0%	0%	–	–	–	–	No	Max detected concentration < PCUL
1,3-Dichlorobenzene	541-73-1	0.200	0.500	1,270	1	0.1%	0.133	J	na	0	–	–	–	–	–	–	–	No	No Ecology provided PCUL
1,3-Dichloropropane	142-28-9	0.200	0.500	1,270	0	0%	–		160	0	–	0%	0%	–	–	–	–	No	Analyte not detected
1,4-Dichlorobenzene	106-46-7	0.200	0.500	1,270	1	0.1%	0.144	J	75	0	0.0019	0%	0%	–	–	–	–	No	Max detected concentration < PCUL
2,2-Dichloropropane	594-20-7	0.100	0.500	1,270	2	0.2%	0.128	J	na	0	–	–	–	–	–	–	–	No	No Ecology provided PCUL
2-Butanone (MEK)	78-93-3	0.500	5.00	1,223	78	6%	456		4,800	0	0.10	0%	0%	–	–	–	–	No	Max detected concentration < PCUL
2-Chlorotoluene	95-49-8	0.100	0.500	1,270	0	0%	–		160	0	–	0%	0%	–	–	–	–	No	Analyte not detected
2-Hexanone	591-78-6	2.50	5.00	775	5	1%	3.36	J	40	0	0.084	0%	0%	–	–	–	–	No	Max detected concentration < PCUL
4-Chlorotoluene	106-43-4	0.200	0.500	1,269	0	0%	–		na	0	–	–	–	–	–	–	–	No	Analyte not detected
4-Methyl-2-pentanone (MIBK)	108-10-1	1.00	5.00	1,222	17	1%	8.50		640	0	0.013	0%	0%	–	–	–	–	No	Max detected concentration < PCUL
Acetone	67-64-1	0.500	25	1,222	419	34%	5,380	J	7,200	0	0.75	0%	0%	–	–	–	–	No	Max detected concentration < PCUL
Acrylonitrile	107-13-1	0.500	5.00	1,221	0	0%	–		0.081	0	–	0%	0%	–	–	–	–	No	Analyte not detected
Allyl chloride	107-05-1	1.00	1.00	440	0	0%	–		2.1	0	–	0%	0%	–	–	–	–	No	Analyte not detected
Benzene	71-43-2	0.0400	0.500	1,269	409	32%	257		5.0	62	51	15%	4.9%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
Bromobenzene	108-86-1	0.500	0.500	1,239	0	0%	–		64	0	–	0%	0.0%	–	–	–	–	No	Analyte not detected
Bromodichloromethane	75-27-4	0.100	0.500	1,269	1	0.1%	1.76		7.1	0	0.25	0%	0%	–	–	–	–	No	Max detected concentration < PCUL
Bromoform	75-25-2	0.500	1.00	1,239	0	0%	–		55	0	–	0%	0%	–	–	–	–	No	Analyte not detected
Bromomethane	74-83-9	0.500	2.50	1,239	0	0%	–		11	0	–	0%	0%	–	–	–	–	No	Analyte not detected
Carbon disulfide	75-15-0	0.500	0.500	780	177	23%	38.3		800	0	0.048	0%	0%	–	–	–	–	No	Max detected concentration < PCUL
Carbon tetrachloride	56-23-5	0.0400	0.500	1,269	3	0.2%	0.273	J	5.0	0	0.055	0%	0%	–	–	–	–	No	Max detected concentration < PCUL
Chlorobenzene	108-90-7	0.100	0.500	1,269	1	0.1%	0.278	J+	100	0	0.0028	0%	0%	–	–	–	–	No	Max detected concentration < PCUL
Chlorodibromomethane	124-48-1	0.100	0.500	1,270	0	0%	–		5.2	0	–	0%	0%	–	–	–	–	No	Analyte not detected
Chloroethane (ethyl chloride)	75-00-3	0.200	2.50	1,270	107	8%	50.2		na	0	–	–	–	–	–	–	–	No	No Ecology provided PCUL
Chloroform	67-66-3	0.100	0.500	1,270	78	6%	20.9		14	1	1.49	1%	0.1%	2.49	0.178	Pass	–	No	Data complies with 3-Part Rule
Chloromethane	74-87-3	0.500	1.25	1,270	7	1%	7.95		na	0	–	–	–	–	–	–	–	No	No Ecology provided PCUL
cis-1,2-Dichloroethene (cDCE)	156-59-2	0.100	0.500	1,349	1003	74%	131,000		16	471	8,188	47%	35%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
cis-1,3-Dichloropropene	10061-01-5	0.100	0.500	1,240	0	0%	–		0.44	0	–	0%	0%	–	–	–	–	No	Analyte not detected
Dibromomethane	74-95-3	0.200	0.500	1,240	0	0%	–		80.0	0	–	0%	0%	–	–	–	–	No	Analyte not detected
Dichlorodifluoromethane (CFC-12)	75-71-8	0.100	2.50	1,227	0	0%	–		1,600	0	–	0%	0%	–	–	–	–	No	Analyte not detected
di-Isopropyl ether	108-20-3	0.0400	0.500	1,221	76	6%	1.45		na	0	–	–	–	–	–	–	–	No	No Ecology provided PCUL

Table 21

Groundwater COPC Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Analyte Name	CAS Number	IA and RI Laboratory PQLs (µg/L) Min	IA and RI Laboratory PQLs (µg/L) Max	Number of Samples Analyzed[a]	Number of Detected Results	FOD[f]	Max Detected Concentration (µg/L)		GW PCUL[b]	Number of Detections Above the GW PCUL	COPC Evaluation: Max Detected/ PCUL[c,e,f]	COPC Evaluation: Frequency of Exceedance: Detections	COPC Evaluation: Frequency of Exceedance: All Samples[e]	COPC Evaluation: 95 UCL[d]	COPC Evaluation: 95 UCL/ PCUL[e]	COPC Evaluation: 3-Part Rule[e]	COPC Evaluation: FOD ≤ 5%, Max ≤ 10x PCUL[f]	COPC Evaluation: COPC?[g]	Comments
Ethyl ether	60-29-7	0.100	0.100	440	52	12%	16.1		1,600	0	0.010	0%	0%	–	–	–	–	No	Max detected concentration < PCUL
Ethylbenzene	100-41-4	0.100	0.500	1,270	176	14%	307		700	0	0.44	0%	0%	–	–	–	–	No	Max detected concentration < PCUL
Hexachloro-1,3-butadiene	87-68-3	1.00	1.00	1,270	0	0%	–		0.56	0	–	0%	0%	–	–	–	–	No	Analyte not detected
Hexane (n-hexane)	110-54-3	1.00	5.00	781	22	3%	65.1		480	0	0.14	0%	0%	–	–	–	–	No	Max detected concentration < PCUL
Iodomethane	74-88-4	0.500	10.0	1,221	3	0.2%	0.659		na	0	–	–	–	–	–	–	–	No	No Ecology provided PCUL
Isopropylbenzene (cumene)	98-82-8	0.100	0.500	1,240	63	5%	149		800	0	0.19	0%	0%	–	–	–	–	No	Max detected concentration < PCUL
Methyl tert-Butyl ether (MTBE)	1634-04-4	0.0400	0.500	1,239	21	2%	1.18		24	0	0.049	0%	0%	–	–	–	–	No	Max detected concentration < PCUL
Methylene chloride	75-09-2	0.500	2.50	1,269	9	1%	89.3	J	5.0	7	18	78%	0.6%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
Naphthalene	91-20-3	0.500	2.50	1,248	67	5%	115	J	160	0	0.72	0%	0%	–	–	–	–	No	Max detected concentration < PCUL
n-Butylbenzene	104-51-8	0.500	0.500	1,237	21	2%	14.2		400	0	0.036	0%	0%	–	–	–	–	No	Max detected concentration < PCUL
n-Propylbenzene	103-65-1	0.200	0.500	1,239	52	4%	359		800	0	0.45	0%	0%	–	–	–	–	No	Max detected concentration < PCUL
p-Isopropyltoluene	99-87-6	0.200	0.500	1,240	21	2%	2.50		na	0	–	–	–	–	–	–	–	No	No Ecology provided PCUL
sec-Butylbenzene	135-98-8	0.500	0.500	1,238	33	3%	15.6		800	0	0.020	0%	0%	–	–	–	–	No	Max detected concentration < PCUL
Styrene	100-42-5	0.500	0.500	1,239	8	1%	0.273	J	100	0	0.0027	0%	0%	–	–	–	–	No	Max detected concentration < PCUL
tert-Butylbenzene	98-06-6	0.200	0.500	1,239	12	1%	1.89		800	0	0.0024	0%	0%	–	–	–	–	No	Max detected concentration < PCUL
Tetrachloroethene (PCE)	127-18-4	0.100	0.500	1,349	516	38%	97,200		5.0	269	19,440	52%	20%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
Tetrahydrofuran	109-99-9	0.500	0.500	439	64	15%	124		7,200	0	0.017	0%	0%	–	–	–	–	No	Max detected concentration < PCUL
Toluene	108-88-3	0.200	0.500	1,270	462	36%	17.7		640	0	0.028	0%	0%	–	–	–	–	No	Max detected concentration < PCUL
Gasoline range organics (GRO)	na	100	100	518	196	38%	2,320	J+	800	4	2.9	2%	0.8%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
trans-1,2-Dichloroethene (tDCE)	156-60-5	0.200	0.500	1,348	480	36%	781		100	31	7.8	6%	2%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
trans-1,3-Dichloropropene	10061-02-6	0.200	0.500	1,239	0	0%	–		0.44	0	–	0%	0%	–	–	–		No	Analyte not detected
trans-1,4-Dichloro-2-Butene	110-57-6	0.200	5.00	1,224	6	0%	0.131	J	na	0	–	–	–	–	–	–	–	No	No Ecology provided PCUL
Trichloroethene (TCE)	79-01-6	0.0400	0.500	1,349	630	47%	20,100		4.0	322	5,025	51%	24%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
Trichlorofluoromethane (CFC-11)	75-69-4	0.100	2.50	1,270	0	0%	–		2,400	0	–	0%	0%	–	–	–		No	Analyte not detected
Vinyl chloride (VC)	75-01-4	0.100	0.500	1,349	839	62%	31,300		0.29	776	107,931	92%	58%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x PCUL
Xylenes	1330-20-7	0.260	1.50	1,270	204	16%	181		1,600	0	0.11	0%	0%	–	–	–	–	No	Max detected concentration < PCUL

Abbreviations

PCUL = Preliminary cleanup level.
FOD = Frequency of Detection.
Max = Maximum.
95UCL = 95 percent upper confidence limit.
COPC = Contaminant of potential concern.
na = Not available.
– = Not applicable.

Data Notes

µg/L = micrograms per liter.
GRO results qualified with "z" are not included in the number of detections above the GW PCUL.
J = The identification of the analyte is acceptable; the reported value is an estimate.
J+ = The result is an estimated quantity, but the result may be biased high.

COPC Evaluation:

Note: the 3-part rule refers to the process of determining statistical compliance for contaminants in soil and groundwater, in which 1) the upper one-sided 95 percent confidence limit on the mean is less than the cleanup level, 2) no single sample concentration is more than 2 times the cleanup level, and 3) less than 10 percent of the sample concentrations are greater than the cleanup level. For soil compliance, this applies to the distribution of soil data across the site (see WAC 173-340-740[7][c][iii]). For groundwater compliance, this applies to data for each individual well or monitoring location (see WAC 173-340-720[9][c][iv]). For the purpose of COPC selection, the soil and groundwater data across the Site have been used and other factors are considered to determine whether retaining a compound as a COPC will have any impact on cleanup decisions for the site.

a = Number of Samples Analyzed includes all samples collected Quarter 1 2017 through Quarter 2 2021, including sample data from other consultants, excluding duplicates and other QC samples.
b = Most stringent PCUL including no surface water, no vapor intrusion, GW#s 1,5 from Ecology table, 29Dec2021, column "D", in micrograms per liter (µg/L). PCUL for di-isopropyl ether is not provided. PCUL for tetrahydrofuran is the MTCA Method B Cleanup Level for noncancer from Ecology Cleanup Levels and Risk Calculation (CLARC) tables, July, 2021.
c = If Max Detected/PCUL ≤ 1 then analyte is not a COPC.
d = 95UCL is only calculated when maximum detection ≤2x PCUL and FOD < 10%; the calculated 95UCL for 1,2,3-Trimethylbenzene and chloroform excludes non-detect results (NDs) - unable to calculate with NDs. The calculated 95UCL for 1,2,4-Trimethylbenzene includes non-detect values.
e = 3-part rule: Maximum concentration ≤ 2xPCUL, not more than 10% or results > PCUL, and 95UCL ≤ PCUL.
f = If analyte fails the 3-part rule, the FOD and ratio of maximum detection to PCUL are evaluated.
g = Analyte is a COPC if max detected/PCUL ≥1 AND it fails the 3-Part Rule AND either FOD ≥ 5% or max detected/PCUL ≥ 10X PCUL. The COPC evaluation indicates a COPC with **Yes, in bold, and highlighted.**

Table 22

Soil Vapor COPC Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Analyte Name	CAS Number	Number of Samples Analyzed[a]	Number of Detected Results	FOD[f]	Max Detected Concentration (µg/m3)		Soil Vapor SL[b]	Number of Detections Above the SL	Max Detected/ SL[c,e,f]	COPC Evaluation							Comments
										Frequency of Exceedance		95 UCL[d]	95 UCL/ SL[e]	3-Part Rule[e]	FOD ≤ 5%, Max ≤ 10x SL[f]	COPC?[g]	
										Detections	All Samples[e]						
1,1,1-Trichloroethane	71-55-6	113	34	30%	115		76,000	0	0.0015	–	–	–	–	–	–	No	Max detected concentration < SL
1,1,2,2-Tetrachloroethane	79-34-5	113	0	–	–		1.4	0	–	–	–	–	–	–	–	No	Not detected
1,1,2-Trichloroethane	79-00-5	113	0	–	–		3.0	0	–	–	–	–	–	–	–	No	Not detected
1,1,2-Trichlorotrifluoroethane	76-13-1	113	2	2%	1.60		76,000	0	0.000021	–	–	–	–	–	–	No	Max detected concentration < SL
1,1-Dichloroethane	75-34-3	113	11	10%	14.1		52	0	0.27	–	–	–	–	–	–	No	Max detected concentration < SL
1,1-Dichloroethene	75-35-4	113	1	0.9%	0.923		3,000	0	0.00031	–	–	–	–	–	–	No	Max detected concentration < SL
1,2,4-Trimethylbenzene	95-63-6	113	64	57%	448	J	910	0	0.49	–	–	–	–	–	–	No	Max detected concentration < SL
1,3,5-Trimethylbenzene	108-67-8	113	18	16%	127	J	910	0	0.14	–	–	–	–	–	–	No	Max detected concentration < SL
1,4-Dichlorobenzene	106-46-7	113	2	2%	1.90		7.6	0	0.25	–	–	–	–	–	–	No	Max detected concentration < SL
1,4-Dioxane	123-91-1	113	18	16%	14.9		17	0	0.88	–	–	–	–	–	–	No	Max detected concentration < SL
2,2,4-Trimethylpentane	540-84-1	113	28	25%	7,990		na	0	–	–	–	–	–	–	–	No	No SL available
2-Butanone (MEK)	78-93-3	113	29	26%	277		76,000	0	0.0036	–	–	–	–	–	–	No	Max detected concentration < SL
2-Chlorotoluene	95-49-8	113	3	3%	4.19		na	0	–	–	–	–	–	–	–	No	No SL available
2-Propanol (isopropanol)	67-63-0	113	45	40%	50.8		na	0	–	–	–	–	–	–	–	No	No SL available
4-Ethyltoluene	622-96-8	113	24	21%	108	J	na	0	–	–	–	–	–	–	–	No	No SL available
Acetone	67-64-1	113	106	94%	114		470,000	0	0.00024	–	–	–	–	–	–	No	Max detected concentration < SL
Benzene	71-43-2	113	29	26%	273	J	11	2	25	7%	2%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x SL
Bromodichloromethane	75-27-4	113	3	3%	2.75		2.3	1	1.2	33%	1%	1.39	0.60	Pass	–	No	Data complies with 3-Part Rule
Bromomethane	74-83-9	113	1	1%	1.45		76	0	0.019	–	–	–	–	–	–	No	Max detected concentration < SL
Carbon disulfide	75-15-0	113	84	74%	140		11,000	0	0.013	–	–	–	–	–	–	No	Max detected concentration < SL
Carbon tetrachloride	56-23-5	113	9	8%	7.43		14	0	0.53	–	–	–	–	–	–	No	Max detected concentration < SL
Chloroform	67-66-3	113	18	16%	84.2		3.6	13	23	72%	12%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x SL
Chloromethane	74-87-3	113	43	38%	24.2		1,400	0	0.017	–	–	–	–	–	–	No	Max detected concentration < SL
cis-1,2-Dichloroethene (cDCE)	156-59-2	116	5	4.3%	9.99		na	0	–	–	–	–	–	–	–	No	No SL available
Cyclohexane	110-82-7	113	34	30%	78.9		91,000	0	0.00087	–	–	–	–	–	–	No	Max detected concentration < SL
Dichlorodifluoromethane	75-71-8	113	94	83%	53.9		1,500	0	0.036	–	–	–	–	–	–	No	Max detected concentration < SL
Ethanol	64-17-5	113	113	100%	447	J	na	0	–	–	–	–	–	–	–	No	No SL available
Ethylbenzene	100-41-4	113	32	28%	166	J	15,000	0	0.011	–	–	–	–	–	–	No	Max detected concentration < SL
Heptane	142-82-5	113	22	19%	67.1	J	6,100	0	0.011	–	–	–	–	–	–	No	Max detected concentration < SL
Isopropylbenzene (cumene)	98-82-8	113	1	1%	10.6	J	6,100	0	0.0017	–	–	–	–	–	–	No	Max detected concentration < SL
Methyl methacrylate	80-62-6	113	2	2%	23.9		11,000	0	0.0022	–	–	–	–	–	–	No	Max detected concentration < SL
Methylene chloride	75-09-2	113	51	45%	24.9		2,200	0	0.011	–	–	–	–	–	–	No	Max detected concentration < SL
Naphthalene	91-20-3	113	3	3%	44.8	J	2.5	3	18	100%	3%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x SL
n-Hexane (hexane)	110-54-3	113	35	31%	127	J	11,000	0	0.012	–	–	–	–	–	–	No	Max detected concentration < SL
Propene	115-07-1	113	19	17%	480		na	0	–	–	–	–	–	–	–	No	No SL available
Styrene	100-42-5	113	2	2%	1.42		15,000	0	0.000095	–	–	–	–	–	–	No	Max detected concentration < SL
Tetrachloroethene (PCE)	127-18-4	116	85	73%	215		320	0	0.67	–	–	–	–	–	–	No	Max detected concentration < SL
Tetrahydrofuran	109-99-9	113	25	22%	120		30,000	0	0.0040	–	–	–	–	–	–	No	Max detected concentration < SL
Toluene	108-88-3	113	67	59%	535		76,000	0	0.0070	–	–	–	–	–	–	No	Max detected concentration < SL
trans-1,2-Dichloroethene (tDCE)	156-60-5	116	1	1%	1.29		610	0	0.0021	–	–	–	–	–	–	No	Max detected concentration < SL
Trichloroethene (TCE)	79-01-6	116	9	8%	17.4		11	2	1.6	22%	2%	0.45	0.041	Pass	–	No	Data complies with 3-Part Rule

Table 22

Soil Vapor COPC Screening
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Analyte Name	CAS Number	Number of Samples Analyzed[a]	Number of Detected Results	FOD[f]	Max Detected Concentration (µg/m3)	Soil Vapor SL[b]	Number of Detections Above the SL	Max Detected/ SL[c,e,f]	COPC Evaluation							Comments
									Frequency of Exceedance		95 UCL[d]	95 UCL/ SL[e]	3-Part Rule[e]	FOD ≤ 5%, Max ≤ 10x SL[f]	COPC?[g]	
									Detections	All Samples[e]						
Trichlorofluoromethane	75-69-4	113	77	68%	80.9	11,000	0	0.0074	–	–	–	–	–	–	No	Max detected concentration < SL
Vinyl chloride	75-01-4	116	4	3%	473	9.5	3	50	75%	3%	–	–	Fail	Fail	**Yes**	Fails 3-Part Rule and FOD > 5% or Max > 10x SL
Xylenes, Total	1330-20-7	113	49	43%	770 J	1,500	0	0.51	–	–	–	–	–	–	No	Max detected concentration < SL

Abbreviations

SL = Screening level.
FOD = Frequency of Detection.
Max = Maximum.
FOE = Frequency of Exceedance.
95UCL = 95 percent uppder confidence limit.
COPC = Contaminant of potential concern.
na = No screening level available.
– = Not applicable.

Data Notes

Analytical results in micrograms per cubic meter (µg/m3).
J = The identification of the analyte is acceptable; the reported value is an estimate.
Xylenes, Total is the sum of detected m&-p isomers and o-isomers. When results for all isomers are non-detect, the highest reporting limit is reported.

COPC Evaluation:

Note: the 3-part rule refers to the process of determining statistical compliance for contaminants in soil and groundwater, in which 1) the upper one-sided 95 percent confidence limit on the mean is less than the cleanup level, 2) no single sample concentration is more than 2 times the cleanup level, and 3) less than 10 percent of the sample concentrations are greater than the cleanup level. For soil compliance, this applies to the distribution of soil data across the site (see WAC 173-340-740[7][c][iii]). For groundwater compliance, this applies to data for each individual wellor monitoring location (see WAC 173-340-720[9][c][iv]). For the purpose of COPC selection, the soil and groundwater data across the Site have been used and other factors are considered to determine whether retaining a compound as a COPC will have any impact on cleanup decisions for the site.

a = Number of Samples Analyzed includes all samples collected 2013 through Quarter 2 2021, including sample data from other consultants, excluding duplicates and other QC samples.
b = Soil vapor screening level is the Sub-Slab Soil Gas Method B Cleanup Level from Ecology Cleanup Levels and Risk Calculation (CLARC) table, July 2021. When more than one value is provided, the more conservative value is used for the screening level.
c = If Max Detected/SL ≤ 1 then analyte is not a COPC.
d = 95UCL is only calculated when maximum detection ≤2x SL and FOD < 10%.
e = 3-part rule: Maximum concentration ≤ 2x SL, Not more than 10% or results > SL, and 95UCL ≤ SL.
f = If analyte fails the 3-part rule, the FOD and ratio of maximum detection to SL are evaluated.
g = Analyte is a COPC if max detected/SL ≥1 AND it fails the 3-Part Rule AND either FOD ≥ 5% or max detected/SL ≥ 10X SL. The COPC evaluation indicates a COPC with Yes, in bold, and highlighted.

Table 23

Summary of Proposed COC Cleanup Levels
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Chemical Name	CAS Number	Soil			Groundwater		Soil Vapor		
		Proposed Cleanup Level (mg/kg)							
		Vadose Zone	Saturated Zone	Proposed Cleanup Level Basis	Proposed Cleanup Level (µg/L)	Proposed Cleanup Level Basis	Groundwater Screening Level for Soil Vapor (µg/L)	Indoor Air Cleanup Level (µg/m³)	Soil Vapor Screening Level (µg/m³)
Proposed COCs									
1,1-Dichloroethene	75-35-4	0.046	0.0040	Protection of GW/GW↑PQL	7	MCL	130	91	3,000
cis-1,2-Dichloroethene (cDCE)	156-59-2	0.078	0.0052	Protection of GW	16	MCL↓HQ = 1	–	–	–
Tetrachloroethene (PCE)	127-18-4	0.050	0.0050	Protection of GW/GW↑PQL	5	MCL	25	9.6	320
trans-1,2-Dichloroethene (tDCE)	156-60-5	0.52	0.032	Protection of GW	100	MCL	77	18	610
Trichloroethene (TCE)	79-01-6	0.025	0.0020	Protection of GW/GW↑PQL	4	MCL ↓ HQ = 1	1.4	0.33	11
Vinyl Chloride (VC)	75-01-4	0.0040	0.0040	Protection of GW↑PQL	0.29	Risk = $1x10^{-5}$	0.33	0.28	9.5
Retained COPC									
Benzene	71-43-2	0.0270	0.0020	Protection of GW/GW↑PQL	5	MCL	2.4	0.32	11

Notes:

Due to the presence of benzene in groundwater and associated deeper saturated soil near and downgradient of sources off of the Property, benzene has been carried forward as a Retained COPC

CAS # = Chemical Abstracts Service Registry Number.

mg/kg = Milligrams per kilogram.

µg/L = Micrograms per liter.

µg/m³ = Micrograms per cubic meter.

Soil vapor screening levels from July 2022 Ecology Cleanup Levels and Risk Calculation update.

MCL = Drinking water maximum contaminant level (Federal = 40 CFR 141; Washington State = 246-290 WAC).

GW = Groundwater.

↑PQL = proposed cleanup level raised to the practical quantitation limit.

– = Screening level not available.

Risk = Cancer risk level shown.