



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

June 13, 2022

Mr. Scott Koppelman
AMLI Residential Partners
425 Pontius Avenue North, Suite 400
Seattle, Washington 98109

SUBJECT: REMEDIAL INJECTION AND GROUNDWATER MONITORING WORK PLAN
AMLI Wallingford Property
3400 Wallingford Avenue North
Seattle, Washington 98103
Project No.: 0789-004

Dear Mr. Koppelman:

SoundEarth Strategies, Inc. (SoundEarth) has prepared this work plan to present the scope of work for supplemental injections to remediate chlorinated volatile organic compounds (CVOCs) in groundwater at the AMLI Wallingford property located at 3400 Wallingford Avenue North in Seattle, Washington (the Property). This scope of work also includes pre- and post-injection groundwater monitoring events to evaluate the effectiveness of the supplemental remedial injections. The Property is currently enrolled in the Washington State Department of Ecology (Ecology) Voluntary Cleanup Program (VCP Project No. NW2739, Facility/Site No. 71755531). The work is being performed in support of pursuing a No Further Action determination.

BACKGROUND

The Property consists of six tax parcels on the northern and southern sides of North 34th Street (King County Parcel Nos. 4083306660, 4083306670, 4083306695, 4083307105, 4083307155, and 4083307160) that encompass a total of approximately 87,894 square feet (2.02 acres) of land. The three parcels north of North 34th Street (King County Parcel Nos. 4083306660, 4083306670, and 4083306695) are collectively known as the North Block. The three parcels south of North 34th Street (King County Parcel Nos. 4083307105, 4083307155, and 4083307160) are collectively known as the South Block.

Multiple phases of remedial investigation activities have been conducted at the Property by SoundEarth since 2012. Based on the data gathered during these investigations, the Site, which is defined by the nature and extent of contamination associated with one or more releases of hazardous substances prior to the implementation of remediation activities, includes soil contaminated with trichloroethene (TCE), tetrachloroethene (PCE), lead, and polycyclic aromatic hydrocarbons and groundwater contaminated with TCE. The identified TCE and PCE impacts likely resulted from a release associated with the Avtech Corporation manufacturing facility formerly located on the North Block of the Property. The field activities and findings of these investigations are included in SoundEarth's *Draft Remedial Investigation and Feasibility Study Report, Avtech Property, 3400 Wallingford Avenue North, Seattle, Washington* dated January 10, 2014, and SoundEarth's letter to Mr. Koppelman, AMLI Residential Partners regarding

SoundEarth's RI/FS/CAP Addendum, Avtech Corporation Property, 3400 Wallingford Avenue North, Seattle, Washington, dated August 6, 2014.

In 2014, SoundEarth initiated interim cleanup actions at the Site, which included source removal by excavation in conjunction with the construction of the existing buildings on the Property, the installation and operation of a soil vapor extraction (SVE) system beneath the newly constructed building on the North Block to mitigate potential vapor intrusion, and in situ chemical oxidation to address residual groundwater contamination beneath the Property and adjacent rights-of-way (ROWS). Interim cleanup actions conducted between 2014 and 2016, including remedial excavation activities; installation of injection wells; potassium permanganate injection events conducted in March 2015, July 2016, and December 2016; and installation of the SVE system in March 2015, are documented in SoundEarth's letter to Mr. Koppelman of AMLI Residential Partners regarding SoundEarth's Cleanup Action Report, AMLI Wallingford Property, 3400 Wallingford Avenue North, Seattle, Washington, dated June 19, 2017 (2017 Cleanup Action Report).

Groundwater monitoring has been conducted at the Site during most quarters since the second quarter of 2012. Groundwater monitoring activities and results through the third quarter of 2017 have been documented in SoundEarth groundwater monitoring reports, the most recent of which is the letter from SoundEarth regarding our Third Quarter 2017 Groundwater Monitoring Report, Former Avtech Property (AMLI Wallingford), 3400 Wallingford Avenue North, Seattle, Washington, dated October 18, 2017 (Third Quarter 2017 Groundwater Monitoring Report).

Additional groundwater monitoring and remedial injection activities conducted at the Site since the completion of SoundEarth's 2017 Cleanup Action Report and Third Quarter 2017 Groundwater Monitoring Report are summarized in the following sections.

Summary of Groundwater Monitoring Events: Fourth Quarter 2017 through Fourth Quarter 2021

The table on the following page provides a summary of the results from the groundwater monitoring events conducted at the Site between the fourth quarter of 2017 and the fourth quarter of 2021. During this time frame, groundwater samples were collected from monitoring and injection wells and analyzed for CVOCs by US Environmental Protection Agency (EPA) Method 8260C or 8260D. During the third and fourth quarters of 2021, groundwater samples from select monitoring wells were analyzed for total manganese to assess chemical oxidant attenuation associated with previous injections of potassium permanganate. Monitoring wells in which TCE was detected at concentrations exceeding the Washington State Model Toxics Control Act (MTCA) Method A cleanup level for groundwater are noted in the table.

Full groundwater analytical results for all groundwater sampling events conducted to date are included in the attached Table 1. Groundwater analytical results for sampling events conducted between the third quarter of 2018 and the fourth quarter of 2021 are depicted on Figure 1. A groundwater contour map depicting the groundwater flow direction at the Site during the fourth quarter of 2021 is depicted on Figure 2.

Year	Quarter of Groundwater Sampling Event	Sample Date(s)	Monitoring or Injection Wells Sampled	Chemicals Analyzed	Wells Containing Concentration of TCE Exceeding MTCA
2017	Fourth Quarter	12/4/17 and 12/06/17	MW05, MW12, MW16A, MW18, and IW08	CVOCs	MW05, MW12, and MW16A
2018	First Quarter	03/27/18	MW05, MW12, MW16A, MW18, and IW08	CVOCs	MW12
	Second Quarter	06/12/18	MW05 and MW16A	CVOCs	MW16A
	Third Quarter	09/12/18	MW05, MW12, and MW16A	CVOCs	MW05 and MW12
	Fourth Quarter	12/27/18	MW05, MW12, MW16A, and IW08	CVOCs	MW05, MW12, and MW16A
2019	First Quarter	03/21/19	MW05, MW12, and MW16A	CVOCs	MW12
	Second Quarter	06/12/19	MW05, MW12, MW16A, and IW08	CVOCs	MW12
	Third Quarter	09/19/19	MW05, MW12, MW16A, and IW08	CVOCs	MW05 and MW16A
	Fourth Quarter	12/12/19	MW05, MW12, and MW16A	CVOCs	MW05 and MW12
2020	First Quarter	03/24/20	MW05, MW12, MW16A, and IW08	CVOCs	MW12
	Second Quarter	07/06/20	MW05, MW12, MW16A, and IW08	CVOCs	MW05 and MW12
	Third Quarter	09/17/20	MW05, MW12, MW16A, and IW08	CVOCs	MW05 and MW12
	Fourth Quarter	12/16/20	MW05 and MW12	CVOCs	MW05 and MW12
2021	Third Quarter	09/22/21	MW05 and MW12	CVOCs	MW12
			MW05, MW12, and MW18	Total manganese	
	Fourth Quarter	12/28/21	MW05 and MW12	CVOCs	MW05 and MW12
			MW05, MW12, MW17, and MW18	Total manganese	

Since the implementation of interim cleanup actions beginning in 2014, concentrations of TCE in groundwater have declined to levels below the MTCA Method A cleanup level throughout the majority of the Site. However, TCE concentrations in groundwater remain above the cleanup level in the vicinities of monitoring wells MW05, in the Burke Avenue North ROW, and MW12, in the North 34th Street ROW.

Summary of Remedial Injection Events: April 2019 and May 2021

Since 2015, five remedial injection events have been conducted to address TCE concentrations in groundwater beneath the Site. The injection of the potassium permanganate has promoted the chemical oxidation of CVOCs. Injections of potassium permanganate conducted in March 2016, July 2016, and December 2016 are described in SoundEarth's 2017 Cleanup Action Report. The following provides a summary of the additional injection events conducted in April 2019 and May 2021.

- **April 2019 Injection Event.** On April 24 and 25, 2019, potassium permanganate was injected into injection wells IW12, IW53, and IW58. These injection wells are located proximate to monitoring wells MW16A, MW05, and MW12, respectively, where concentrations of TCE

remained above the MTCA Method A cleanup level prior to the injection event. A total of 1,325 gallons of potassium permanganate treatment compound was injected into the subsurface.

- **May 2021 Injection Event.** On May 12 and 13, 2021, potassium permanganate was injected into monitoring wells MW05 and MW12 and injection wells IW58 and IW03. The injections were performed to reduce residual TCE in monitoring wells MW05 and MW12 to concentrations below the MTCA Method A cleanup level. The potassium permanganate solution was injected into MW05 (640 gallons), MW12 (480 gallons), IW58 (160 gallons), and IW03 (160 gallons) for a total of 1,440 gallons.

Since this injection event, TCE at concentrations exceeding the MTCA Method A cleanup level continues to be detected in groundwater samples from monitoring wells MW05 and MW12.

REMEDIAL INJECTION SCOPE OF WORK

Since 2014, performance groundwater monitoring has indicated a decrease in TCE to concentrations below the MTCA Method A cleanup level throughout the majority of the Site. However, TCE concentrations remain above the cleanup level in groundwater samples from monitoring wells MW05 and MW12. SoundEarth plans to conduct a supplemental targeted injection event to further reduce the TCE concentrations in these areas of the Site. The supplemental injection event will utilize a sodium permanganate injectate to chemically oxidize the residual TCE.

Comparatively, the sodium-based permanganate (liquid-based form; 40 percent stock solution) can be prepared at a higher injectate concentrations than potassium based permanganate (solid based form; up to 5% solution per solubility limits). It is anticipated that delivery of a higher concentration permanganate-based injection solution will overcome the natural organic demand associated with fine-grained material present in the vicinity of monitoring wells MW05 and MW12.

In general, the injection program will consist of the following:

- Prior to the injection event, an update to the existing Underground Injection Control (UIC) registration will be completed.
- A 40 percent sodium permanganate stock solution will be mixed with potable water in an aboveground tank to prepare a dilute sodium permanganate injection solution (up to 20 percent by volume).
- The prepared sodium permanganate solution will be injected into existing injection wells IW03, IW53, and IW58 and monitoring wells MW05 and MW12 under gravity or moderate injection pressure (Figure 1). Based on previous injection events, it is anticipated that up to 750 gallons will be injected per well.
- During the injection process, adjacent monitoring or injection wells will be periodically monitored for changes in groundwater elevation (via water-level measurements) and visual indicators (i.e., sodium permanganate imparts a pink/purple color).

It is assumed the injections will be completed over the course of 4 days.

PRE- AND POST-INJECTION GROUNDWATER MONITORING EVENTS

Prior to the supplemental injection event, SoundEarth will conduct a pre-injection groundwater monitoring event to establish pre-injection geochemical conditions, assess chemical oxidant attenuation (i.e., manganese) from the May 2021 injection event, and provide additional data to support the update to the existing UIC registration and remedial design (e.g., chemical oxidant loading). The pre-injection groundwater monitoring event will consist of measuring water levels and collecting groundwater samples from monitoring wells MW05, MW12, MW17, and MW18 using low-flow sampling techniques for field parameter measurements (pH, temperature, electrical conductivity, dissolved oxygen, and oxidation-reduction potential) and laboratory analysis of total manganese by EPA Method 200.8.

Following the supplemental injection event, SoundEarth will conduct two performance groundwater monitoring events to evaluate the treatment effectiveness of the sodium permanganate injections. The performance groundwater monitoring events will be completed approximately 3 and 6 months following the completion of the injections. The performance groundwater monitoring events will consist of measuring water levels and collecting groundwater samples from monitoring wells MW05, MW12, MW17, and MW18 using low-flow sampling techniques for field parameter measurements and chemical analysis. In general, monitoring wells MW17 and MW18 are located downgradient of the injection areas.

Groundwater samples collected from monitoring wells MW05 and MW12 will be submitted for analysis for CVOCs by EPA Method 8260C. Groundwater samples collected from all four monitoring wells will be submitted for analysis of total manganese by EPA Method 200.8 to evaluate chemical oxidant attenuation.

PRELIMINARY SCHEDULE

The sodium permanganate injection and groundwater monitoring schedule are predicated on Ecology's designation of a Site Manager under the VCP program. Based on communication with Sonia Fernandez, Ecology VCP Coordinator, the Site is listed as the fourth project in the VCP queue.

The preliminary monitoring items and schedule is as follows:

VCP Groundwater Monitoring Item	Schedule or Condition
Assignment of a VCP Site Manager	To be determined by Ecology
Approval of the Work Plan	Following Ecology's designation of a Site Manager
Pre-Injection Groundwater Monitoring Event	June 2022
Update to Existing UIC Registration	Following approval of the Work Plan
Sodium Permanganate Injections	1 month following UIC registration update
Performance Groundwater Monitoring Events	3 and 6 months following sodium permanganate injections

CLOSING

SoundEarth appreciates the opportunity to work with you on this project. Please contact the undersigned at (206) 306-1900 if you have any questions or require additional information.

Respectfully,

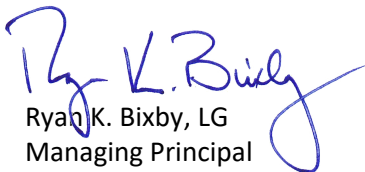
SoundEarth Strategies, Inc.



Clare Tochilin, LG
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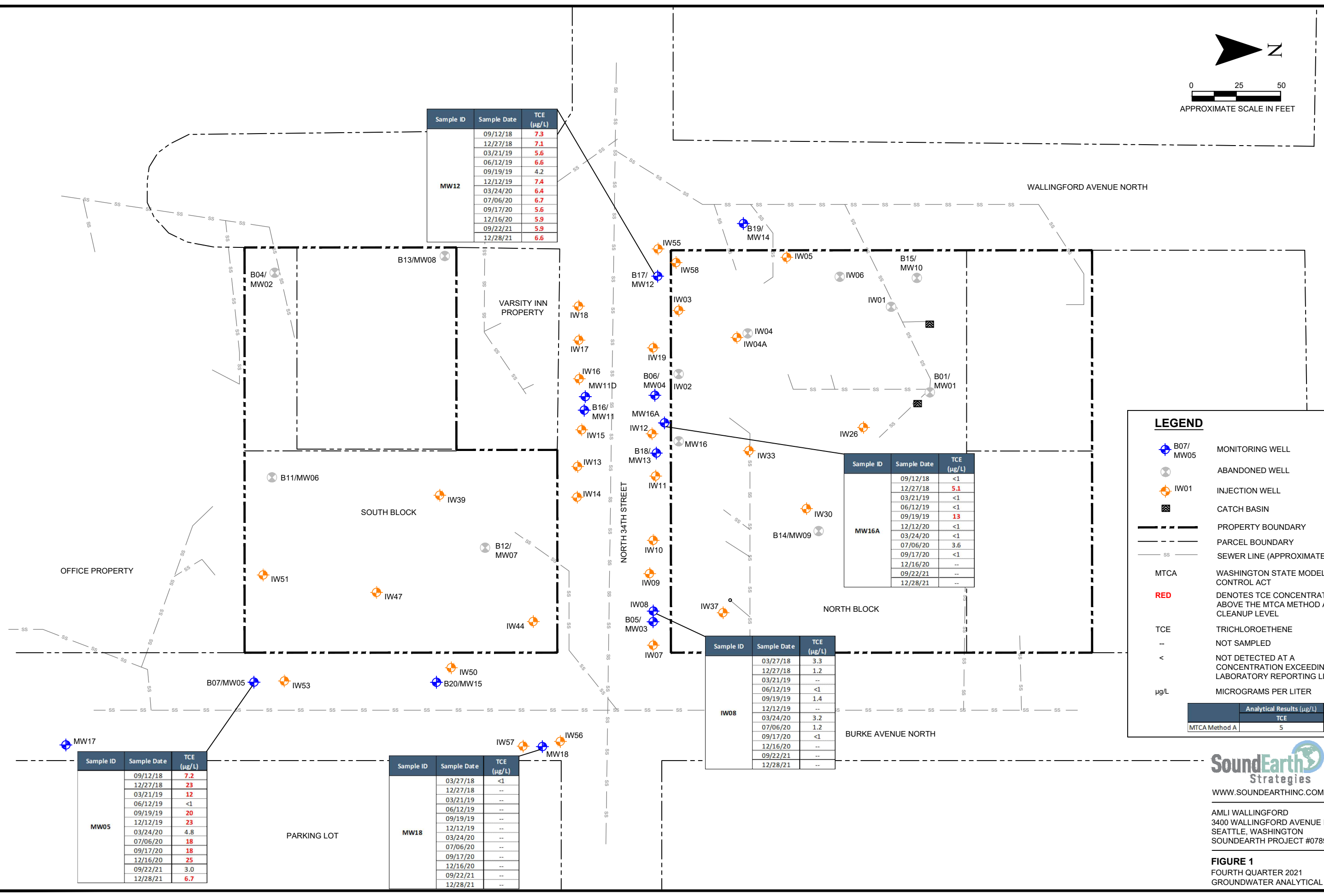


Ryan K. Bixby, LG
Managing Principal

Attachments: Figure 1, Fourth Quarter 2021 Groundwater Analytical Results
Figure 2, Fourth Quarter 2021 Groundwater Contour Map
Table 1, Summary of Groundwater Data

CJT:kar

FIGURES



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AMLI WALLINGFORD
3400 WALLINGFORD AVENUE NORTH
SEATTLE, WASHINGTON
SOUNDEARTH PROJECT #0789-004

FIGURE 1
FOURTH QUARTER 2021
GROUNDWATER ANALYTICAL RESULTS



TABLE

Table 1
Summary of Groundwater Data
Former Avtech Property (AMLI Wallingford)
3400 Wallingford Avenue North
Seattle, Washington

Sample ID and TOC Elevation	Sample Date	Depth to Groundwater ⁽¹⁾ (feet)	Groundwater Elevation ⁽²⁾ (feet)	DRPH ⁽³⁾	ORPH ⁽³⁾	Benzene ⁽⁴⁾	Toluene ⁽⁴⁾	Ethylbenzene ⁽⁴⁾	Total Xylenes ⁽⁴⁾	Vinyl Chloride ⁽⁴⁾	cis-1,2-DCE ⁽⁴⁾	TCE ⁽⁴⁾	PCE ⁽⁴⁾	Naphthalene ⁽⁴⁾	Dissolved Chromium ⁽⁵⁾	Dissolved Arsenic ⁽⁵⁾	Dissolved Selenium ⁽⁵⁾	Dissolved Silver ⁽⁵⁾	Dissolved Cadmium ⁽⁵⁾	Dissolved Barium ⁽⁵⁾	Dissolved Lead ⁽⁵⁾	Dissolved Mercury ⁽⁶⁾	Total Manganese ⁽⁶⁾
MW01 84.44	01/17/12	27.59	56.85	<50	<250	<0.35	<1	<1	<3	<0.2 ^{PT}	<1	<1	<1	<1	1.58	1.43	<1	<1	<1	3.94	<1	<0.1	--
	05/01/12	25.02	59.42	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	01/11/13	26.25	58.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/25/13	24.75	59.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/10/13	25.55	58.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/10/13	27.43	57.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/25/14	27.67	56.77	--	--	--	--	--	--	<0.2	<1	2.3	<1	--	--	--	--	--	--	--	--	--	--
Well Decommissioned On October 29, 2014																							
MW02 69.73	01/17/12	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/27/12	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/11/13	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/25/13	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/10/13	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/10/13	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Well Decommissioned On October 29, 2014																							
MW03 75.48	01/17/12	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/27/12	31.18	44.30	--	--	--	--	--	--	<0.2	2.2	83	<1	--	--	--	--	--	--	--	--	--	--
	05/08/12	31.06	44.42	--	--	--	--	--	--	<0.2	1.9	64	<1	--	1.69	1.44	<1	<1	<1	11.9	<1	<0.1	--
	01/14/13	31.78	43.70	--	--	--	--	--	--	<0.2	1.7	71	<1	--	--	--	--	--	--	--	--	--	--
	04/24/13	30.96	44.52	--	--	--	--	--	--	<0.2	1.8	76	<1	--	--	--	--	--	--	--	--	--	--
	07/10/13	Inaccessible																					
	10/10/13	Inaccessible																					
	06/29/15	36.15	39.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/14/15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/02/15	31.72	43.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/18/16	31.10	44.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW04 79.47	05/27/16	32.55	42.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/27/16	34.48	41.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/17/12	36.70	42.77	--	--	<0.35	<1	<1	<3	<0.2 ^{PT}	<1	110	<1	<1	18.6	<1	<1	<1	<1	4.33	<1	<0.1	--
	04/27/12	36.09	43.38	--	--	--	--	--	--	<0.2	<1	170	<1	--	--	--	--	--	--	--	--	--	--
	01/11/13	36.44	43.03	--	--	--	--	--	--	<0.2	<1	85	<1	--	--	--	--	--	--	--	--	--	--
	04/24/13	35.93	43.54	--	--	--	--	--	--	<0.2	<1	290	<1	--	--	--	--	--	--	--	--	--	--
	07/10/13	36.15	43.32	--	--	--	--	--	--	<0.2	<1	150	<1	--	--	--	--	--	--	--	--	--	--
	10/10/13	36.90	42.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW04 (Field Dup) 79.47	09/19/17	36.38	43.09	--	--	--	--	--	--	<0.2	<1	4.0	<1	--	--	--	--	--	--	--	--	--	--
	12/04/17	36.83	42.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/17/12	36.70	42.77	--	--	<0.35	<1	<1	<3	<0.2 ^{PT}	<1	120	<1	<1	18.6	<1	<1	<1	<1	4.65	<1	<0.1	--
	04/27/12	36.09	43.38	--	--	--	--	--	--	<0.2	<1	170	<1	--	--	--	--	--	--	--	--	--	--
MTCA Method A Cleanup Level for Groundwater ⁽⁷⁾				500	500	5	1,000	700	1,000	0.2	NE	5	5	160	50	5	NE	NE	5	NE	15	2	NE

Table 1
Summary of Groundwater Data
Former Avtech Property (AMLI Wallingford)
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Seattle, Washington

Sample ID and TOC Elevation	Sample Date	Depth to Groundwater ⁽¹⁾ (feet)	Groundwater Elevation ⁽²⁾ (feet)	DRPH ⁽³⁾	ORPH ⁽³⁾	Benzene ⁽⁴⁾	Toluene ⁽⁴⁾	Ethylbenzene ⁽⁴⁾	Total Xylenes ⁽⁴⁾	Vinyl Chloride ⁽⁴⁾	cis-1,2-DCE ⁽⁴⁾	TCE ⁽⁴⁾	PCE ⁽⁴⁾	Naphthalene ⁽⁴⁾	Dissolved Chromium ⁽⁵⁾	Dissolved Arsenic ⁽⁵⁾	Dissolved Selenium ⁽⁵⁾	Dissolved Silver ⁽⁵⁾	Dissolved Cadmium ⁽⁵⁾	Dissolved Barium ⁽⁵⁾	Dissolved Lead ⁽⁵⁾	Dissolved Mercury ⁽⁶⁾	Total Manganese ⁽⁵⁾
MW05 55.61	01/17/12	24.90	30.71	--	--	<0.35	<1	<1	<3	<0.2 ^{PT}	<1	3.3	<1	<1	<1	5.31	3.55	<1	<1	22.6	<1	<0.1	--
	05/01/12	23.40	32.21	--	--	--	--	--	--	<0.2	<1	1.9	<1	--	--	--	--	--	--	--	--	--	--
	01/14/13	24.34	31.27	--	--	--	--	--	--	<0.2	<1	3.3	<1	--	--	--	--	--	--	--	--	--	--
	04/24/13	22.86	32.75	--	--	--	--	--	--	<0.2	<1	3.0	<1	--	--	--	--	--	--	--	--	--	--
	07/10/13	23.71	31.90	--	--	--	--	--	--	<0.2	<1	1.9	<1	--	--	--	--	--	--	--	--	--	--
	10/10/13	25.57	30.04	--	--	--	--	--	--	<0.2	1.1	8.2	<1	--	--	--	--	--	--	--	--	--	--
	10/28/13	--	--	--	--	--	--	--	--	<0.2	1.1	8.4	<1	--	--	--	--	--	--	--	--	--	--
	03/25/14	25.77	29.84	--	--	--	--	--	--	<0.2	2.1	9.9	<1	--	--	--	--	--	--	--	--	--	--
	06/29/15	Inaccessible																					
	09/14/15	24.82	30.79	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	12/03/15	25.24	30.37	--	--	--	--	--	--	<0.2	2.8	27	<1	--	--	--	--	--	--	--	--	--	--
	02/22/16	24.66	30.95	--	--	--	--	--	--	<0.2	2.5	23	<1	--	--	--	--	--	--	--	--	--	--
	05/27/16	24.52	31.09	--	--	--	--	--	--	<0.2	2.1	21	<1	--	--	--	--	--	--	--	--	--	--
	09/29/16	24.85	30.76	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	12/27/16	24.04	31.57	--	--	--	--	--	--	<0.2	<1	7.9	<1	--	--	--	--	--	--	--	--	--	--
	03/21/17	22.95	32.66	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	05/24/17	22.23	33.38	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	09/18/17	23.80	31.81	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	12/04/17	24.31	31.30	--	--	--	--	--	--	<0.2	<1	11	<1	--	--	--	--	--	--	--	--	--	--
	03/27/18	23.53	32.08	--	--	--	--	--	--	<0.2	<1	2.0	<1	--	--	--	--	--	--	--	--	--	--
	06/12/18	23.45	32.16	--	--	--	--	--	--	<0.2	<1	2.4	<1	--	--	--	--	--	--	--	--	--	--
	09/12/18	24.41	31.20	--	--	--	--	--	--	<0.2	<1	7.2	<1	--	--	--	--	--	--	--	--	--	--
	12/27/18	24.81	30.80	--	--	--	--	--	--	<0.2	1.9	23	<1	--	--	--	--	--	--	--	--	--	--
	03/21/19	24.40	31.21	--	--	--	--	--	--	<0.2	1.0	12	<1	--	--	--	--	--	--	--	--	--	--
	06/12/19	24.29	31.32	--	--	--	--	--	--	<0.2	1.0	<1	<1	--	--	--	--	--	--	--	--	--	--
	09/19/19	26.17	29.44	--	--	--	--	--	--	<0.2	1.7	20	<1	--	--	--	--	--	--	--	--	--	--
	12/12/19	25.09	30.52	--	--	--	--	--	--	<0.2	2.3	23	<1	--	--	--	--	--	--	--	--	--	--
	03/24/20	23.95	31.66	--	--	--	--	--	--	<0.2	1.7	4.8	<1	--	--	--	--	--	--	--	--	--	--
	07/06/20	24.50	31.11	--	--	--	--	--	--	<0.2	1.9	18	<1	--	--	--	--	--	--	--	--	--	--
	09/17/20	24.86	30.75	--	--	--	--	--	--	<0.2	2.2	18	<1	--	--	--	--	--	--	--	--	--	--
	12/16/20	24.90	30.71	--	--	--	--	--	--	<0.2	3.4	25	<1	--	--	--	--	--	--	--	--	--	--
	09/22/21	24.61	31.00	--	--	--	--	--	--	<0.2	<1	3.0	<1	--	--	--	--	--	--	--	--	--	2,540
	12/28/21	24.37	31.24	--	--	--	--	--	--	<0.02	<1	6.7	<1	--	--	--	--	--	--	--	--	--	1,300
MW06 68.39	04/25/12	31.84	36.55	--	--	--	--	--	--	<0.2	<1	3.2	<1	--	--	--	--	--	--	--	--	--	--
	01/14/13	31.86	36.53	--	--	--	--	--	--	<0.2	<1	2.4	<1	--	--	--	--	--	--	--	--	--	--
	04/26/13	30.85	37.54	--	--	--	--	--	--	<0.2	<1	4.5	<1	--	--	--	--	--	--	--	--	--	--
	07/11/13	32.01	36.38	--	--	--	--	--	--	<0.2	<1	3.2	<1	--	--	--	--	--	--	--	--	--	--
	10/11/13	33.61	34.78	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	04/17/14	--	--	--	--	--	--	--	--	<0.2	<1	3.9	<1	--	--	--	--	--	--	--	--	--	--
Well Decommissioned On October 29, 2014																							
MW07 76.78	04/25/12	37.43	39.35	--	--	--	--	--	--	<0.2	<1	3.3	<1	--	--	--	--	--	--	--	--	--	--
	01/11/13	37.59	39.19	--	--	--	--	--	--	<0.2	<1	3.5	<1	--	--	--	--	--	--	--	--	--	--
	04/25/13	36.52	40.26	--	--	--	--	--	--	<0.2	<1	6.1	<1	--	--	--	--	--	--	--	--	--	--
	07/11/13	36.97	39.81	--	--	--	--	--	--	<0.2	<1	11	<1	--	--	--	--	--	--	--	--	--	--
	10/10/13	37.97	38.81	--	--	--	--	--	--	<0.2	<1	6.5	<1	--	--	--	--	--	--	--	--	--	--
	03/25/14	38.32	38.46	--	--	--	--	--	--	<0.2	<1	6.4	<1	--	--	--	--	--	--	--	--	--	--
Well Decommissioned On October 29, 2014																							
MTCA Method A Cleanup Level for Groundwater ⁽⁷⁾				500	500	5	1,000	700	1,000	0.2	NE	5	5	160	50	5	NE	NE	5	NE	15	2	NE



Table 1
Summary of Groundwater Data
Former Avtech Property (AMLI Wallingford)
3400 Wallingford Avenue North
Seattle, Washington

Sample ID and TOC Elevation	Sample Date	Depth to Groundwater ⁽¹⁾ (feet)	Groundwater Elevation ⁽²⁾ (feet)	DRPH ⁽³⁾	ORPH ⁽³⁾	Benzene ⁽⁴⁾	Toluene ⁽⁴⁾	Ethylbenzene ⁽⁴⁾	Total Xylenes ⁽⁴⁾	Vinyl Chloride ⁽⁴⁾	cis-1,2-DCE ⁽⁴⁾	TCE ⁽⁴⁾	PCE ⁽⁴⁾	Naphthalene ⁽⁴⁾	Dissolved Chromium ⁽⁵⁾	Dissolved Arsenic ⁽⁵⁾	Dissolved Selenium ⁽⁵⁾	Dissolved Silver ⁽⁵⁾	Dissolved Cadmium ⁽⁵⁾	Dissolved Barium ⁽⁵⁾	Dissolved Lead ⁽⁵⁾	Dissolved Mercury ⁽⁶⁾	Total Manganese ⁽⁵⁾
MW08 76.61	04/25/12	37.86	38.75	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	01/11/13	37.34	39.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/25/13	Inaccessible																					
	07/10/13	Inaccessible																					
	10/10/13	Inaccessible																					
Well Decommissioned On October 29, 2014																							
MW09 81.17	05/01/12	23.19	57.98	--	--	--	--	--	--	<0.2	<1	2.0	<1	--	--	--	--	--	--	--	--	--	--
	01/14/13	24.00	57.17	--	--	--	--	--	--	<0.2	1.5	42	<1	--	--	--	--	--	--	--	--	--	--
	04/24/13	22.87	58.30	--	--	--	--	--	--	<0.2	<1	24	<1	--	--	--	--	--	--	--	--	--	--
	07/10/13	23.65	57.52	--	--	--	--	--	--	<0.2	<1	36	<1	--	--	--	--	--	--	--	--	--	--
	10/10/13	25.52	55.65	--	--	--	--	--	--	<0.2	1.5	43	<1	--	--	--	--	--	--	--	--	--	--
	03/25/14	25.72	55.45	--	--	--	--	--	--	<0.2	2.4	51	<1	--	--	--	--	--	--	--	--	--	--
Well Decommissioned On October 29, 2014																							
MW10 85.50	05/01/12	21.90	63.60	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	01/11/13	22.56	62.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/25/13	21.49	64.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/10/13	22.63	62.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/10/13	24.75	60.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/25/14	24.82	60.68	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
Well Decommissioned On October 29, 2014																							
MW11 78.80	04/30/12	44.56	34.24	--	--	--	--	--	--	<0.2	<1	14	<1	--	--	--	--	--	--	--	--	--	--
	05/08/12	44.52	34.28	--	--	--	--	--	--	<0.2	<1	29	<1	--	--	--	--	--	--	--	--	--	--
	01/11/13	44.74	34.06	--	--	--	--	--	--	<0.2	<1	78	<1	--	--	--	--	--	--	--	--	--	--
	04/25/13	43.56	35.24	--	--	--	--	--	--	<0.2	<1	39	<1	--	--	--	--	--	--	--	--	--	--
	07/10/13	43.90	34.90	--	--	--	--	--	--	<0.2	<1	56	<1	--	--	--	--	--	--	--	--	--	--
	10/10/13	44.59	34.21	--	--	--	--	--	--	<0.2	<1	35	<1	--	--	--	--	--	--	--	--	--	--
	03/25/14	44.86	33.94	--	--	--	--	--	--	<0.2	<1	48	<1	--	--	--	--	--	--	--	--	--	--
	06/29/15	41.43	37.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/14/15	42.24	36.56	Inaccessible																			
	12/03/15	42.40	36.40	--	--	--	--	--	--	<0.2	<1	16	<1	--	--	--	--	--	--	--	--	--	--
	02/18/16	41.15	37.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/27/16	--	--	Inaccessible																				
MW11D 76.01	04/30/14	43.74	NS	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	06/29/15	44.25	31.76	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	09/15/15	44.65	31.36	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	12/03/15	43.71	32.30	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	02/18/16	43.18	32.83	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	05/27/16	42.59	33.42	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
MTCA Method A Cleanup Level for Groundwater ⁽⁷⁾				500	500	5	1,000	700	1,000	0.2	NE	5	5	160	50	5	NE	NE	5	NE	15	2	NE

Table 1
Summary of Groundwater Data
Former Avtech Property (AMLI Wallingford)
3400 Wallingford Avenue North
Seattle, Washington

Sample ID and TOC Elevation	Sample Date	Depth to Groundwater ⁽¹⁾ (feet)	Groundwater Elevation ⁽²⁾ (feet)	DRPH ⁽³⁾	ORPH ⁽³⁾	Benzene ⁽⁴⁾	Toluene ⁽⁴⁾	Ethylbenzene ⁽⁴⁾	Total Xylenes ⁽⁴⁾	Vinyl Chloride ⁽⁴⁾	cis-1,2-DCE ⁽⁴⁾	TCE ⁽⁴⁾	PCE ⁽⁴⁾	Naphthalene ⁽⁴⁾	Dissolved Chromium ⁽⁵⁾	Dissolved Arsenic ⁽⁵⁾	Dissolved Selenium ⁽⁵⁾	Dissolved Silver ⁽⁵⁾	Dissolved Cadmium ⁽⁵⁾	Dissolved Barium ⁽⁵⁾	Dissolved Lead ⁽⁵⁾	Dissolved Mercury ⁽⁶⁾	Total Manganese ⁽⁵⁾
MW12 81.83	04/27/12	32.81	49.02	--	--	--	--	--	--	<0.2	<1	14	<1	--	--	--	--	--	--	--	--	--	--
	01/14/13	33.30	48.53	--	--	--	--	--	--	<0.2	<1	5.0	<1	--	--	--	--	--	--	--	--	--	--
	04/25/13	32.76	49.07	--	--	--	--	--	--	<0.2	<1	5.7	<1	--	--	--	--	--	--	--	--	--	--
	07/10/13	33.08	48.75	--	--	--	--	--	--	<0.2	<1	10	<1	--	--	--	--	--	--	--	--	--	--
	10/10/13	32.95	48.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/29/15	32.89	48.94	--	--	--	--	--	--	<0.2	<1	2.9	<1	--	--	--	--	--	--	--	--	--	--
	09/15/15	33.70	48.13	--	--	--	--	--	--	<0.2	<1	13	<1	--	--	--	--	--	--	--	--	--	--
	12/03/15	33.74	48.09	--	--	--	--	--	--	<0.2	<1	15	<1	--	--	--	--	--	--	--	--	--	--
	02/18/16	31.96	49.87	--	--	--	--	--	--	<0.2	<1	9.1	<1	--	--	--	--	--	--	--	--	--	--
	05/27/16	32.36	49.47	--	--	--	--	--	--	<0.2	<1	9.2	<1	--	--	--	--	--	--	--	--	--	--
	09/29/16	34.10	47.73	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	12/27/16	33.09	48.74	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	03/21/17	32.03	49.80	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	05/25/17	31.90	49.93	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	09/19/17	33.79	48.04	--	--	--	--	--	--	<0.2	<1	6.7	<1	--	--	--	--	--	--	--	--	--	--
	12/04/17	34.37	47.46	--	--	--	--	--	--	<0.2	<1	7.6	<1	--	--	--	--	--	--	--	--	--	--
	03/27/18	32.97	48.86	--	--	--	--	--	--	<0.2	<1	6.0	<1	--	--	--	--	--	--	--	--	--	--
	06/12/18	32.20	49.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/12/18	34.23	47.60	--	--	--	--	--	--	<0.2	<1	7.3	<1	--	--	--	--	--	--	--	--	--	--
	12/27/18	35.01	46.82	--	--	--	--	--	--	<0.2	<1	7.1	<1	--	--	--	--	--	--	--	--	--	--
	03/21/19	34.14	47.69	--	--	--	--	--	--	<0.2	<1	5.6	<1	--	--	--	--	--	--	--	--	--	--
	06/12/19	34.26	47.57	--	--	--	--	--	--	<0.2	<1	6.6	<1	--	--	--	--	--	--	--	--	--	--
	09/19/19	34.80	47.03	--	--	--	--	--	--	<0.2	<1	4.2	<1	--	--	--	--	--	--	--	--	--	--
	12/12/19	35.36	46.47	--	--	--	--	--	--	<0.2	<1	7.4	<1	--	--	--	--	--	--	--	--	--	--
	03/24/20	33.81	48.02	--	--	--	--	--	--	<0.2	<1	6.4	<1	--	--	--	--	--	--	--	--	--	--
	07/06/20	33.30	48.53	--	--	--	--	--	--	<0.2	<1	6.7	<1	--	--	--	--	--	--	--	--	--	--
	09/17/20	34.52	47.31	--	--	--	--	--	--	<0.2	<1	5.6	<1	--	--	--	--	--	--	--	--	--	--
	12/16/20	34.79	47.04	--	--	--	--	--	--	<0.2	<1	5.9	<1	--	--	--	--	--	--	--	--	--	--
	09/22/21	34.90	46.93	--	--	--	--	--	--	<0.2	<1	5.9	<1	--	--	--	--	--	--	--	--	--	19,800
	12/28/21	34.34	47.49	--	--	--	--	--	--	<0.02	<1	6.6	<1	--	--	--	--	--	--	--	--	--	14,500
MW13 78.94	04/27/12	34.97	43.97	--	--	--	--	--	--	<0.2	<1	1.0	<1	--	--	--	--	--	--	--	--	--	--
	05/07/12	34.94	44.00	--	--	--	--	--	--	<0.2	<1	2.0	<1	--	--	--	--	--	--	--	--	--	--
	04/24/13	34.88	44.06	--	--	--	--	--	--	<0.2	<1	2.5	<1	--	--	--	--	--	--	--	--	--	--
	07/10/13	35.15	43.79	--	--	--	--	--	--	<0.2	<1	37	<1	--	--	--	--	--	--	--	--	--	--
	10/10/13	35.73	43.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/29/15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/14/15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/18/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/27/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/27/16	39.67	39.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW14 84.60	04/30/12	29.99	54.61	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	01/11/13	30.95	53.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/25/13	Inaccessible																					
	07/10/13	30.56	54.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/10/13	32.00	52.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/29/15	32.00	52.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/14/15	33.18	51.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/18/16	Inaccessible																					
	05/27/16	31.35	53.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MTCA Method A Cleanup Level for Groundwater⁽⁷⁾				500	500	5	1,000	700	1,000	0.2	NE	5	5	160	50	5	NE	NE	5	NE	15	2	NE



Table 1
Summary of Groundwater Data
Former Avtech Property (AMLI Wallingford)
3400 Wallingford Avenue North
Seattle, Washington

Sample ID and TOC Elevation	Sample Date	Depth to Groundwater ⁽¹⁾ (feet)	Groundwater Elevation ⁽²⁾ (feet)	DRPH ⁽³⁾	ORPH ⁽³⁾	Benzene ⁽⁴⁾	Toluene ⁽⁴⁾	Ethylbenzene ⁽⁴⁾	Total Xylenes ⁽⁴⁾	Vinyl Chloride ⁽⁴⁾	cis-1,2-DCE ⁽⁴⁾	TCE ⁽⁴⁾	PCE ⁽⁴⁾	Naphthalene ⁽⁴⁾	Dissolved Chromium ⁽⁵⁾	Dissolved Arsenic ⁽⁵⁾	Dissolved Selenium ⁽⁵⁾	Dissolved Silver ⁽⁵⁾	Dissolved Cadmium ⁽⁵⁾	Dissolved Barium ⁽⁵⁾	Dissolved Lead ⁽⁵⁾	Dissolved Mercury ⁽⁶⁾	Total Manganese ⁽⁵⁾
MW15 66.09	04/30/12	27.37	38.72	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	01/14/13	27.76	38.33	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	04/24/13	26.69	39.40	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	07/10/13	Inaccessible																					
	10/28/13	28.02	38.07	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	04/16/14	28.38	37.71	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	06/29/15	32.76	33.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/14/15	29.14	36.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/03/15	29.65	36.44	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	02/18/16	28.75	37.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW16	05/27/16	29.11	36.98	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	12/27/16	28.45	37.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW16		04/16/14	40.18	NS	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
Well Destroyed By Earthwork Construction: February 2015																							
MW16A 81.97 ⁽⁸⁾	06/29/15	34.78	--	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	09/30/15	--	--	--	--	--	--	--	--	<0.2	<1	3.0	<1	--	--	--	--	--	--	--	--	--	--
	12/03/15	37.09	44.88	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	02/18/16	36.06	45.91	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	05/27/16	36.60	45.37	--	--	--	--	--	--	<0.2	<1	9.7	<1	--	--	--	--	--	--	--	--	--	--
	09/29/16	35.01	46.96	--	--	--	--	--	--	<0.2	<1	6.4	<1	--	--	--	--	--	--	--	--	--	--
	12/27/16	34.00	47.97	--	--	--	--	--	--	<0.2	<1	20	<1	--	--	--	--	--	--	--	--	--	--
	03/21/17	33.71	48.26	--	--	--	--	--	--	<0.2	<1	3.5	<1	--	--	--	--	--	--	--	--	--	--
	05/25/17	33.70	48.27	--	--	--	--	--	--	<0.2	<1	5.6	<1	--	--	--	--	--	--	--	--	--	--
	09/19/17	34.78	47.19	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	12/04/17	35.11	46.86	--	--	--	--	--	--	<0.2	<1	12	<1	--	--	--	--	--	--	--	--	--	--
	03/27/18	34.07	47.90	--	--	--	--	--	--	<0.2	<1	2.7	<1	--	--	--	--	--	--	--	--	--	--
	06/12/18	34.23	47.74	--	--	--	--	--	--	<0.2	<1	5.3	<1	--	--	--	--	--	--	--	--	--	--
	09/12/18	35.02	46.95	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	12/27/18	35.33	46.64	--	--	--	--	--	--	<0.2	<1	5.1	<1	--	--	--	--	--	--	--	--	--	--
	03/21/19	34.70	47.27	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	06/12/19	34.86	47.11	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	09/19/19	35.22	46.75	--	--	--	--	--	--	<0.2	<1	13	<1	--	--	--	--	--	--	--	--	--	--
	12/12/19	35.55	46.42	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	03/24/20	34.60	47.37	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	07/06/20	34.86	47.11	--	--	--	--	--	--	<0.2	<1	3.6	<1	--	--	--	--	--	--	--	--	--	--
	09/17/20	36.11	45.86	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	12/16/20	35.21	46.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MTCA Method A Cleanup Level for Groundwater ⁽⁷⁾				500	500	5	1,000	700	1,000	0.2	NE	5	5	160	50	5	NE	NE	5	NE	15	2	NE

Table 1
Summary of Groundwater Data
Former Avtech Property (AMLI Wallingford)
3400 Wallingford Avenue North
Seattle, Washington

Sample ID and TOC Elevation	Sample Date	Depth to Groundwater ⁽¹⁾ (feet)	Groundwater Elevation ⁽²⁾ (feet)	DRPH ⁽³⁾	ORPH ⁽³⁾	Benzene ⁽⁴⁾	Toluene ⁽⁴⁾	Ethylbenzene ⁽⁴⁾	Total Xylenes ⁽⁴⁾	Vinyl Chloride ⁽⁴⁾	cis-1,2-DCE ⁽⁴⁾	TCE ⁽⁴⁾	PCE ⁽⁴⁾	Naphthalene ⁽⁴⁾	Dissolved Chromium ⁽⁵⁾	Dissolved Arsenic ⁽⁵⁾	Dissolved Selenium ⁽⁵⁾	Dissolved Silver ⁽⁵⁾	Dissolved Cadmium ⁽⁵⁾	Dissolved Barium ⁽⁵⁾	Dissolved Lead ⁽⁵⁾	Dissolved Mercury ⁽⁶⁾	Total Manganese ⁽⁵⁾
MW17 43.95	06/29/15	12.51	31.44	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	07/17/15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	276
	09/14/15	13.36	30.59	--	--	--	--	--	--	<0.2	<1	1.2	<1	--	--	--	--	--	--	--	--	--	8.10
	12/03/15	12.83	31.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.00
	02/22/16	11.15	32.80	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	05/27/16	12.00	31.95	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	12/27/16	Inaccessible																					
	12/27/18	12.91	31.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/21/19	13.68	30.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/12/19	12.95	31.00	--	--	--	Mar	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/19/19	14.02	29.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/12/19	13.94	30.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/24/20	11.96	31.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/17/20	13.75	30.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/16/20	13.35	30.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/22/21	13.35	30.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/28/21	12.23	31.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.22
MW18 72.43	06/29/15	32.76	39.67	--	--	--	--	--	--	<0.2	4.9	46	<1	--	--	--	--	--	--	--	--	--	--
	07/16/15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	251
	09/15/15	33.94	38.49	--	--	--	--	--	--	<0.2	5.1	45	<1	--	--	--	--	--	--	--	--	--	25.6
	12/03/15	34.00	38.43	--	--	--	--	--	--	<0.2	8.2	69	<1	--	--	--	--	--	--	--	--	--	35.6
	02/19/16	33.31	39.12	--	--	--	--	--	--	<0.2	5.1	50	<1	--	--	--	--	--	--	--	--	--	--
	05/27/16	31.98	40.45	--	--	--	--	--	--	<0.2	4.2	36	<1	--	--	--	--	--	--	--	--	--	--
	09/29/16	33.06	39.37	--	--	--	--	--	--	<0.2	4.4	41	<1	--	--	--	--	--	--	--	--	--	--
	12/27/16	32.18	40.25	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	03/21/17	31.82	40.61	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	05/25/17	30.50	41.93	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	09/19/17	32.09	40.34	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	12/04/17	33.14	39.29	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	03/27/18	32.86	39.57	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	06/12/18	32.40	40.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/12/18	33.19	39.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/27/18	34.16	38.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/21/19	33.81	38.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/12/19	33.38	39.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/19/19	33.63	38.80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/12/19	34.12	38.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/24/20	33.54	38.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/17/20	33.25	39.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/16/20	33.91	38.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/22/21	33.52	38.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12,900
	12/28/21	33.65	38.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3,160
IW01	04/16/14	24.90	NS	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	Well Decommissioned On February 3, 2015																						
IW02	04/16/14	36.91	NS	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	Well Destroyed By Earthwork Construction: February 2015																						
IW03	04/16/14	33.20	NS	--	--	--	--	--	--	<0.2	<1	17	<1	--	--	--	--	--	--	--	--	--	--
MTCA Method A Cleanup Level for Groundwater ⁽⁷⁾				500	500	5	1,000	700	1,000	0.2	NE	5	5	160	50	5	NE	NE	5	NE	15	2	NE

Table 1
Summary of Groundwater Data
Former Avtech Property (AMLI Wallingford)
3400 Wallingford Avenue North
Seattle, Washington

Sample ID and TOC Elevation	Sample Date	Depth to Groundwater ⁽¹⁾ (feet)	Groundwater Elevation ⁽²⁾ (feet)	DRPH ⁽³⁾	ORPH ⁽³⁾	Benzene ⁽⁴⁾	Toluene ⁽⁴⁾	Ethylbenzene ⁽⁴⁾	Total Xylenes ⁽⁴⁾	Vinyl Chloride ⁽⁴⁾	cis-1,2-DCE ⁽⁴⁾	TCE ⁽⁴⁾	PCE ⁽⁴⁾	Naphthalene ⁽⁴⁾	Dissolved Chromium ⁽⁵⁾	Dissolved Arsenic ⁽⁵⁾	Dissolved Selenium ⁽⁵⁾	Dissolved Silver ⁽⁵⁾	Dissolved Cadmium ⁽⁵⁾	Dissolved Barium ⁽⁵⁾	Dissolved Lead ⁽⁵⁾	Dissolved Mercury ⁽⁵⁾	Total Manganese ⁽⁵⁾
IW04	04/16/14	30.05	NS	--	--	--	--	--	--	<0.2	<1	44	<1	--	--	--	--	--	--	--	--	--	--
Well Decommissioned On March 9, 2015																							
IW05	04/16/14	30.29	NS	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
IW06	04/16/14	28.75	NS	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
Well Decommissioned On February 5, 2015																							
IW08 75.90	07/16/15	--	NS	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	09/15/15	35.54	40.36	--	--	--	--	--	--	<0.2	<1	5.7	<1	--	--	--	--	--	--	--	--	--	--
	12/03/15	35.34	40.56	--	--	--	--	--	--	<0.2	<1	16	<1	--	--	--	--	--	--	--	--	--	--
	02/19/16	35.00	40.90	--	--	--	--	--	--	<0.2	<1	15	<1	--	--	--	--	--	--	--	--	--	--
	05/27/16	35.55	40.35	--	--	--	--	--	--	<0.2	<1	7.2	<1	--	--	--	--	--	--	--	--	--	--
	10/24/16	38.73	37.17	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	12/27/16	35.99	39.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/21/17	35.79	40.11	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	05/24/17	35.84	40.06	--	--	--	--	--	--	<0.2	<1	1.6	<1	--	--	--	--	--	--	--	--	--	--
	09/18/17	37.24	38.66	--	--	--	--	--	--	<0.2	<1	1.5	<1	--	--	--	--	--	--	--	--	--	--
	12/04/17	38.15	37.75	--	--	--	--	--	--	<0.2	<1	1.3	<1	--	--	--	--	--	--	--	--	--	--
	03/27/18	35.90	40.00	--	--	--	--	--	--	<0.2	<1	3.3	<1	--	--	--	--	--	--	--	--	--	--
	12/27/18	40.20	35.70	--	--	--	--	--	--	<0.2	<1	1.2	<1	--	--	--	--	--	--	--	--	--	--
	03/21/19	Inaccessible																					
	06/12/19	39.11	36.79	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	09/19/19	--	--	--	--	--	--	--	--	<0.2	<1	1.4	<1	--	--	--	--	--	--	--	--	--	--
	12/12/19	Inaccessible																					
	03/24/20	--	--	--	--	--	--	--	--	<0.2	<1	3.2	<1	--	--	--	--	--	--	--	--	--	--
	07/06/20	36.65	39.25	--	--	--	--	--	--	<0.2	<1	1.2	<1	--	--	--	--	--	--	--	--	--	--
	09/17/20	37.24	38.66	--	--	--	--	--	--	<0.2	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
	12/16/20	37.91	37.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MTCA Method A Cleanup Level for Groundwater ⁽⁷⁾				500	500	5	1,000	700	1,000	0.2	NE	5	5	160	50	5	NE	NE	5	NE	15	2	NE

NOTES:

Red denotes concentrations exceeding the MTCA Method A Cleanup Level.

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

TOC elevations surveyed by Triad Associates on May 3, 2012.

⁽¹⁾Measured in feet below a fixed spot on the top of the well casing rim.

⁽²⁾Elevation datum NAVD88, Seattle BM#2609CC 58A at 60.344' and BM#2609CC 55A at 32.066'.

⁽³⁾Analyzed by Method NWTPH-Dx.

⁽⁴⁾Analyzed by EPA Method 8260C or 8260D. All other 8260C analytes were not detected above the laboratory reporting limit.

⁽⁵⁾Analyzed by EPA Method 6020 or 200.8.

⁽⁶⁾Analyzed by EPA Method 1631E.

⁽⁷⁾MTCA Cleanup Regulation, Method A Cleanup Levels, Table 720-1 of Section 900 of Chapter 340 of Title 173 of the Washington Administrative Code, revised November 2007.

⁽⁸⁾Well casing was repaired, extended-up, and surveyed after the Third Quarter 2015 groundwater sampling event was performed.

⁽⁹⁾Well casing was rerouted with 45 degree PVC elbows in 2016.

Laboratory Note:

^{Pf}Sample received with incorrect preservation. Results should be considered an estimate.

-- = not analyzed/not measured

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

µg/L = micrograms per liter

cis-1,2-DCE = cis-1,2-dichloroethene

DRPH = diesel-range petroleum hydrocarbons

EPA = US Environmental Protection Agency

MTCA = Washington State Model Toxics Control Act

NAVD88 = North American Vertical Datum of 1988

NE = no MTCA Method A cleanup level established for this analyte

NS = well casing not surveyed

NWTPH = Northwest Total Petroleum Hydrocarbon

ORPH = oil-range petroleum hydrocarbons

PCE = tetrachloroethene

TCE = trichloroethene

TOC = top of casing elevation