



State of Washington  
POLLUTION LIABILITY INSURANCE AGENCY  
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August 28, 2019

Mr. Ross LaGrandeur  
Arcadis US Inc.  
1100 Olive Way, Suite 800  
Seattle, WA 98101

**Re: No Further Action at the Following Site:**

- **Name:** ARCO 6067
- **Property Address:** 8009 164th Ave NE, Redmond, WA 98052
- **Facility/Site No.:** 33365629
- **PTAP Project No.:** PNW098

Dear Mr. LaGrandeur:

The Washington State Pollution Liability Insurance Agency (PLIA) received your request for an opinion on your independent cleanup of the ARCO 6067 (Site) by Arcadis US Inc.

This letter constitutes an advisory opinion regarding a review of submitted documents/reports pursuant to the substantive requirements of the Model Toxics Control Act (MTCA), Chapter 70.105D RCW and WAC 173-340-515 (Independent Remedial Actions), for characterizing and addressing releases discussed below at the Site.

**Issue Presented and Opinion**

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Is further remedial action necessary to clean up contamination at the Site?

**No. PLIA has determined that no further remedial action is necessary to clean up contamination at the Site.**

This opinion is based on an analysis of whether the remedial action meets the substantive requirements of MTCA, Chapter 70.105D RCW, and its implementing regulations, Chapter 173-340 WAC (collectively "substantive requirements of MTCA"). The analysis is provided below.

## **Description of the Site**

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This opinion applies only to the Site located at 8009 164th Ave NE, Redmond, WA 98052 and comprises one King County parcel described below (Fig. 1). This opinion does not apply to any other release(s) that may affect the Properties. Any such sites, if known, are identified separately below.

### **1. Description of the Properties and Tax Parcels within the Site.**

The Properties include the following tax parcel in King County, affected by the Site and addressed by your cleanup (Fig. 1):

- Tax Parcel No.: **022505-9030**

### **2. Description of the Site.**

The tax parcel that makes up the Site is defined by the nature and extent of contamination associated with the following release (Figs. 2 to 10, Table 1):

- Total petroleum hydrocarbons in the diesel/oil/gasoline range (TPH-d, TPH-o, and TPH-g) and potential associated BTEX, naphthalenes, PCE, PCBs, cPAHs, methylene chloride, MTBE, EDB, EDC, and lead into the soil/groundwater/air-vapor.

### **3. Identification of Other Sites that may affect the Property.**

Please note, a parcel of real property can be affected by multiple sites. At this time, we have no information that this Property was affected by other sites.

**Enclosure A** includes a detailed description and diagram of the Site, as currently known to PLIA.

## **Basis for the Opinion**

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This opinion is based on the information contained in the following documents:

1. Cleanup Action Report, BP Facility No. 6067, 8009 164th Avenue NE, Redmond, Washington, FS ID: 33365629, CS ID: 8752, PTAP No.: PNW098, by Arcadis US Inc., May 29, 2019.
2. Remedial Excavation Work Plan, BP Facility No. 6067, 8009 164th Avenue NE, Redmond, Washington, FS ID: 33365629, CS ID: 8752, PTAP No.: PNW098, by Arcadis US Inc., October 19, 2018.
3. 2017 Annual Site Status Report, ARCO Facility No. 6067 (FS ID: 33365629 and Cleanup Site ID: 8752), Site Address: 8009 164th Avenue, NE, Redmond, WA, 98052, by Arcadis US Inc., February 9, 2018 .

4. Site Closure Report for ARCO Facility No. 6067, VCP Project No. NW2736, ARCO Facility No. 6067, 8009 164th Avenue NE, Redmond, WA 98052, By Innovex Environmental Management, Inc., August 7, 2014.

Documents submitted to PLIA are subject to the Public Records Act (Chapter 42.56 RCW). To request public records, please email [pliamail@plia.wa.gov](mailto:pliamail@plia.wa.gov).

This opinion is void if any information contained in those documents is materially false or misleading.

## Analysis of the Cleanup

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### 1. Cleanup of the Site

PLIA has concluded that **no further remedial action** is necessary to clean up contamination at the Site. That conclusion is based on the following analysis:

#### a. Characterization of the Site

PLIA has determined that the characterization of the Site was sufficient to establish cleanup standards and select a cleanup action.

##### **1991-1992 underground storage tanks (USTs) Removal Excavation:**

In 1991 and 1992, soil borings B1 through B4 (B-3 and B-4 being angled borings) were advanced to the north of the station building and to the east of the 1991 excavation limits to further assess Site conditions near and under the building (Fig. 3). Soil samples were collected and analyzed for TPH-d, PCB, acetone, phenols, and toxicity characteristic leaching procedure for metals and benzene. Laboratory analytical results were below MTCA Method A cleanup levels (CULs) (Fig. 3 and Table 1).

##### **1993-1994 Monitoring Well Installations and Investigation:**

Seven soil samples were collected during the piping upgrade in 1993 and analyzed for TPH-g, heavy oil, BTEX, lead, and halogenated VOCs. Soil samples contained concentrations above the MTCA Method A CULs for TPH-g, heavy oil and BTEX. Five monitoring wells were installed in 1993 and 1994, soil samples were collected from the borings and analyzed for TPH-g, heavy oil, BTEX, and lead. Lab results were non-detect (Fig. 3 and Table 1).

##### **2014 Investigation:**

In 2014, six soil borings (O-2i, O-2n, W-3i, W-3n, O-6i, and O-6n) were advanced to 6.5' below ground surface (bgs) in proximity to areas of historical detections in the area of the former waste oil and heating oil USTs to confirm concentrations of previously detected impacts. The samples were analyzed for TPH-d, heavy oil, BTEX, EDC, naphthalenes, PAHs, lead, and PCE.

Four (O-2i, O-2n, W-3i, and W-3n) of the six boring locations contained PCE concentrations in soil samples above MTCA Method A CULs. **(Remaining impacted soil was excavated during 2019 cleanup action).**

**b. Past Remedial Actions**

**1991-1992 USTs Removal Excavation:**

In 1991, the heating oil and waste oil USTs were removed from the Site. The excavation extended to a maximum depth of 14' bgs and approximately 220 cubic yards of petroleum contaminated soil (PCS) were removed from the Site. Soil excavation limits were constrained by the building foundations to the north and the east (Fig. 3). Soil samples were collected from the excavation and analyzed for TPH-g/o/d, BTEX, PAHs, VOCs, PCB, and lead. Five samples were over-excavated and ten remained in place (Fig. 3 and Table 1). Soil sample concentrations were observed above MTCA Method A CULs for heavy oil, BTEX, lead, PCE, methylene chloride, and 1,1,1-trichloroethane (1,1,1 TCA). **(Residual PCS was excavated in 2019 cleanup action).** Groundwater was not encountered during the excavation.

**2018 Cleanup Action:**

In November 2018, four USTs (three 12,000-gallon gasoline USTs and one 550-gallon waste oil UST) were decommissioned by removal. The removed USTs were observed to be intact and no staining or hydrocarbon impacts were noted on the surrounding soil. The 2018 UST excavation was approximately 40' by 50' and 12' bgs. A total of 14 soil samples from bottom, sidewall, and stockpile were collected and analyzed for TPH-g/d/o and BTEX. Analytical results were reported both below the laboratory reporting levels (RLs) and the respective MTCA Method A CULs (Fig. 5 and Table 1).

In November and December 2018, fuel dispenser islands and associated product piping were removed. Ten soil samples were collected from beneath the dispenser islands and three samples from beneath the former fuel pipes that connected the USTs to the former fuel dispenser islands. Soil samples were analyzed for TPH-g/d/o and BTEX. Analytical results were reported both below the laboratory RLs and the respective MTCA Method A CULs (Fig. 5 and Table 1).

**2019 Cleanup Action:**

The 2019 remedial excavations were conducted in the following three areas:

- Area 1: Area 1 was excavated to a maximum depth of 9.5' bgs to remove PCS associated with the 1973 waste oil UST. Confirmation soil samples were collected from the bottom and sidewalls of the excavation and analyzed for TPH-g/d, VOCs, cPAH, PCBs, and total lead (Fig. 6 and Table 1).

- Area 2: Area 2 was excavated to a maximum depth of 8' bgs to remove PCS associated with the 1993 pump island upgrade. Confirmation soil samples were collected from the bottom and sidewalls of the excavation and analyzed for TPH-g/d, BTEX, MTBE, EDB, and EDC and total lead (Fig. 6 and Table 1).
- Area 3: Area 3 was excavated to a maximum depth of 6' bgs to remove historical total xylenes soil exceedance associated with the 1991 waste oil UST. A confirmation soil sample was collected from the bottom of the excavation and analyzed for TPH-g/d, BTEX, cPAH, Naphthalenes, EDC and total lead. Area 3 was bounded by samples from the 1991 excavation and 2018 characterization (Fig. 6 and Table 1).

### **Conceptual Site Model (CSM)**

#### **i. Soil (Direct Contact):**

PCS at this Site is associated with three 12,000-gallon USTs formerly containing unleaded gasoline, the five fuel dispenser islands, associated fuel dispensary piping, and one 550-gallon waste oil tank. PCS detected at this Site above the MTCA Method A CULs was within the range of 6' to 12' bgs. The location of the PCS was within the depths (0 to 15' bgs) that humans (utility workers and property developers) may come in contact with.

**Result: The direct contact exposure pathway was a concern at the Site.**

- #### **ii. Vapor Exposure:**
- The Former ARCO Station 6067 building was demolished. Other building footprints are outside the lateral inclusion zone of 30' from the edge of a contamination source. The lateral inclusion zone is defined as the area surrounding a contaminant source through which vapor phase contamination might travel and intrude into buildings (ITRC 2018, EPA 2018, Ecology Draft VI Guidance update 2018).

**Result: The vapor exposure pathway is not a concern at the Site.**

- #### **iii. Groundwater:**
- Groundwater elevations measured in monitoring wells MW-1 through MW-5 and SVE-1 have ranged from 28.56' to 20.29' NAVD88 (10.10' to 17.09' below top of casing). Groundwater was not observed during excavation activities at the Site. Groundwater monitoring conducted at the Site between 1994 and 2017 has shown that the constituents analyzed in groundwater samples have been

measured either below the laboratory report limits (RLs) or less than the respective MTCA Method A CULs (Fig. 4 and Table 2).

**Result: The groundwater pathway is not a concern at the Site.**

- iv. **Surface water:** The Sammamish River is approximately 0.42 miles to the southwest of the Site.

**Result: Surface water is not a concern at the Site.**

c. **Establishment of cleanup standards.**

PLIA has determined the cleanup levels and points of compliance (POC) you established for the Site meet the substantive requirements of MTCA.

i. **Cleanup Levels**

Table 1. The COCs and cleanup levels are:

Contaminants of Concern (COCs)	Soil Cleanup Level mg/kg ( <b>Method A</b> ) <u>Un-restricted Land Use</u>	Groundwater Cleanup Level ug/l (Method A)	Sub-slab/soil gas Screening Levels ug/m <sup>3</sup> (Method B SL)	Indoor/Air Cleanup Levels ug/m <sup>3</sup> (Method B CUL)
TPH-d	2,000	500	-	-
TPH-o	2,000	500	-	-
TPH-g	100/30	1000/800	-	-
Benzene (carcinogen)	0.03	5	-	0.321
Toluene	7	1000	-	2290
Ethylbenzene	6	700	-	457
Xylenes, -m, -o	9	1000	-	45.7
Naphthalene ( <b>carcinogen</b> ) (does <u>not</u> include 1-methyl and 2-methyl naphthalene)	-	-		0.0735
Total Petroleum Hydrocarbon	-	-	-	140
APH [EC5-8 Aliphatics]	-	-	-	2,700
APH [EC9-12 Aliphatics]	-	-	-	140
APH [EC9-10 Aromatics]	-	-	-	180
Arsenic	20	5	-	-

\* Based on the current attenuation factor of 0.03.

**ii. Points of Compliance.**

The proposed Points of Compliance are:

**Soil Direct Contact:** For cleanup levels based on human exposure via direct contact, the standard point of compliance is: *"...throughout the Site from ground surface to 15 feet below the ground surface."* This is in compliance with WAC 173-340-740(6)(d) and represents a reasonable estimate of the depth of soil that could be excavated and distributed at the soil surface as a result of Site development activities.

**Groundwater:** For groundwater, the standard POC as established under WAC 173-340-720(8) is: *"...throughout the site from the uppermost level of the saturated zone extending vertically to the lowest most depth which could potentially be affected by the site."*

**Vapor:** Cleanup levels need to be attained in the ambient air throughout the Site, including indoor air (WAC 173-340-750[6]).

**c. Selection of cleanup action.**

PLIA has determined the cleanup action you selected for the Site meets the substantive requirements of MTCA.

**Decommissioning of former UST**

**1991-1992 USTs Removal Excavation:**

- Removed 2 USTs and 220 cubic yards of soil from the Site.

**2018-2019 Cleanup Action:**

- Decommissioned four USTs (three 12,000-gallon gasoline USTs and one 550-gallon waste oil UST) by removal. The excavation was approximately 40' by 50' and 12' bgs. A total of 14 soil samples from the bottom, sidewall, and stockpile were collected and analyzed.
- In November and December 2018, fuel dispenser islands and associated product piping were removed. Ten soil samples were collected from beneath the dispenser islands and three samples from beneath the former fuel pipes that connected the USTs to the former fuel dispenser islands.
- The three 2019 remedial excavations were conducted in Area 1 (excavated to a maximum depth of 9.5' bgs), Area 2 (excavated to a maximum depth of 8' bgs), and Area 3 (excavated to a maximum depth of 6' bgs). A total of 307.28 tons of soil was

excavated and transported to Republic Services transfer facility located at 3rd and Lander in Seattle, Washington pending transfer and disposal at the Roosevelt Regional Landfill in Roosevelt, Washington.

**d. Cleanup.**

PLIA has determined the cleanup action you performed at the Site meets the substantive requirements of MTCA.

**Soil Direct Contact**

**Final Cleanup Action and Points of Compliance (2019):** For the soil, POC is bounded by the extent of PCS confirmation sampling results below the MTCA Method A CULs

- Area 1: For Area 1, the POC to the north is bounded by Borings ARE-NSW1-5.5 and ARE-NSW2-5.5 at 5.5' bgs; to the east, by Borings ARE-ESW-4.5 at 4.5' bgs; to the south, by Borings ARE-SSW-4.5 at 4.5' bgs; to the west, by Borings ARE-WSW1-5.5 and ARE-WSW2-5.5 at 5.5' bgs; and at the base, by Borings ARE-B1-9.5 and ARE-B2-9.5 at 9.5' bgs (Figs. 6, 8 to 10 and Table 1).
- Area 2: For Area 2, the POC is bounded to the north by Borings ARE2-NSW-4.5 at 4.5' bgs; to the east, by Borings ARE2-ESW-5.5 at 5.5' bgs; to the south, by Borings ARE2-SSW-5.5 at 5.5' bgs; to the west, by Borings ARE2-WSW-5.5 at 5.5' bgs; and at the base, by Borings ARE2-B-8.0 at 8' bgs (Figs. 6, 8 to 10 and Table 1).
- Area 3: For Area 3, the POC is bounded by ARE3-B-6.0 at 6' bgs, H-1 at 10' bgs, EX2-NSW-4 at 4' bgs, EX2-ESW-4 at 4' bgs, and EX2-T4B-6 at 6' bgs (Figs. 6, 8 to 10 and Table 1).

**Result: The soil direct contact pathway is no longer a concern at this Site.**

**Limitations of the Opinion**

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**1. Opinion does not settle liability with the state.**

Under the MTCA, liable persons are strictly liable, jointly and severally, for all remedial action costs and for all natural resource damages resulting from the release(s) of hazardous substances at the Site. This opinion **does not**:

- Change the boundaries of the Site.
- Resolve or alter a person's liability to the state.
- Protect liable persons from contribution claims by third parties.

To settle liability with the state and obtain protection from contribution claims, a person must enter into a consent decree with the Office of the Attorney General and



the Department of Ecology under RCW 70.105D.040 (4).

**2. Opinion does not constitute a determination of substantial equivalence.**

To recover remedial action costs from other liable persons under MTCA, one must demonstrate that the action is the substantial equivalent of an Ecology-conducted or Ecology-supervised action. This opinion does not determine whether the action you performed is equivalent. Courts make that determination (RCW 70.105D.080 and WAC 173-340-545).

**3. State is immune from liability.**

The state, PLIA, and its officers and employees are immune from all liability, and no cause of action of any nature may arise from any act or omission in providing this opinion.

**Termination of Agreement**

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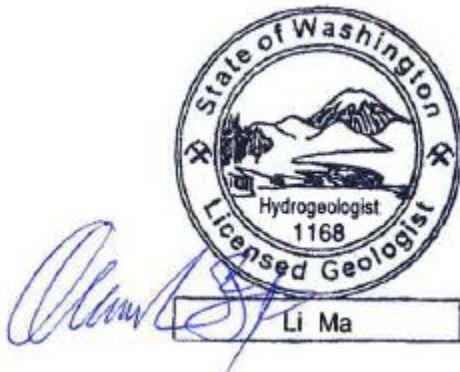
Thank you for choosing to cleanup your Property under the Petroleum Technical Assistance Program (PTAP). This opinion terminates the PTAP Agreement governing Project #PNW098.

## Contact Information

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If you have any questions about this opinion, please contact us by phone at 1-800-822-3905, or by email at [li.ma@plia.wa.gov](mailto:li.ma@plia.wa.gov).

Sincerely,



Li Ma, PHD, LHG, CGWP  
Hydrogeologist

Enclosure A: Site Description  
Figure 1: Site Location Map  
Figure 2: Site Plan  
Figure 3: Historical Soil Status  
Figure 4: Groundwater Contour Map  
Figure 5: 2018 Site Infrastructure Removal  
Figure 6: 2019 Remedial Excavation Soil Status  
Figure 7: Post-2019 Cleanup Site Soil Status  
Figure 8: Cross-Section Location Map  
Figure 9: Cross-Section A-A' and B-B'  
Figure 10: Cross-Section C-C'  
Table 1: Soil Analytical Data  
Table 2: Groundwater Analytical Data

cc:

Mr. Hatem Shalabi, Harbor Olympic Land 6067 LLC  
Mr. Nnamdi Madakor, PLIA (email only)  
Ms. Kristin Evered, PLIA (email only)

## **Enclosure A:**

### **Site Description**

The Site is currently an inactive ARCO facility located at 8009 164th Avenue NE, Redmond, WA. The Property is situated in the southeast quarter, Section 2, Township 25, Range 5 in King County, Washington (47° 40' 30.22" N, -122° 7' 18.84" W, NAD83). The Property is approximately 0.9 acre. Former Site structures consisted of a station building, five fuel dispenser islands with associated canopy structures, three 12,000-gallon USTs formerly containing unleaded gasoline, associated fuel dispensary piping, and one 550-gallon waste oil tank. The four USTs were located southwest of the station building.

The Site is located in Redmond within the Puget Sound lowlands. The Site is underlain by unconsolidated sediments composed of holocene alluvium deposits, with occasional storm channel deposits. Two subtypes were encountered beneath the Site. The upper subtype is present from 5' to 10' bgs and consists of sand, gravel, and silty sand. This subtype is typically poorly-graded, grey to black and slightly moist. The lower subtype is mainly sand and gravel and was encountered at the depth of 8' to 15.5' bgs. It is typically well graded, light brown to dark brown and moist to very moist.

Based on monitoring records, the depth to groundwater has ranged from 11' bgs to 18' bgs. Groundwater flow primarily to the west-northwest and west at a gradient of approximately 0.001 ft/ft. The Site is located within an area identified by the City of Redmond as an aquifer recharge area of high significance. Based on City of Redmond public information, Redmond currently operates five water supply wells in the area and extracts three to four million gallons of water from the shallow aquifer daily. The aquifer beneath Redmond does not have a confining layer. During the subsurface investigation conducted by Geraghty and Miller in 1993, five water supply wells were identified within a half mile radius from the Site. An Ecology well log search confirmed the existence for these water supply wells. The Site water table fluctuates both yearly and seasonally; potentially in response to the pumping cycles of nearby water supply wells.

Sammamish River, the nearest natural surface water body, is located approximately 0.42 mile west and southwest of the Site.

### Figure 1: Site Location Map

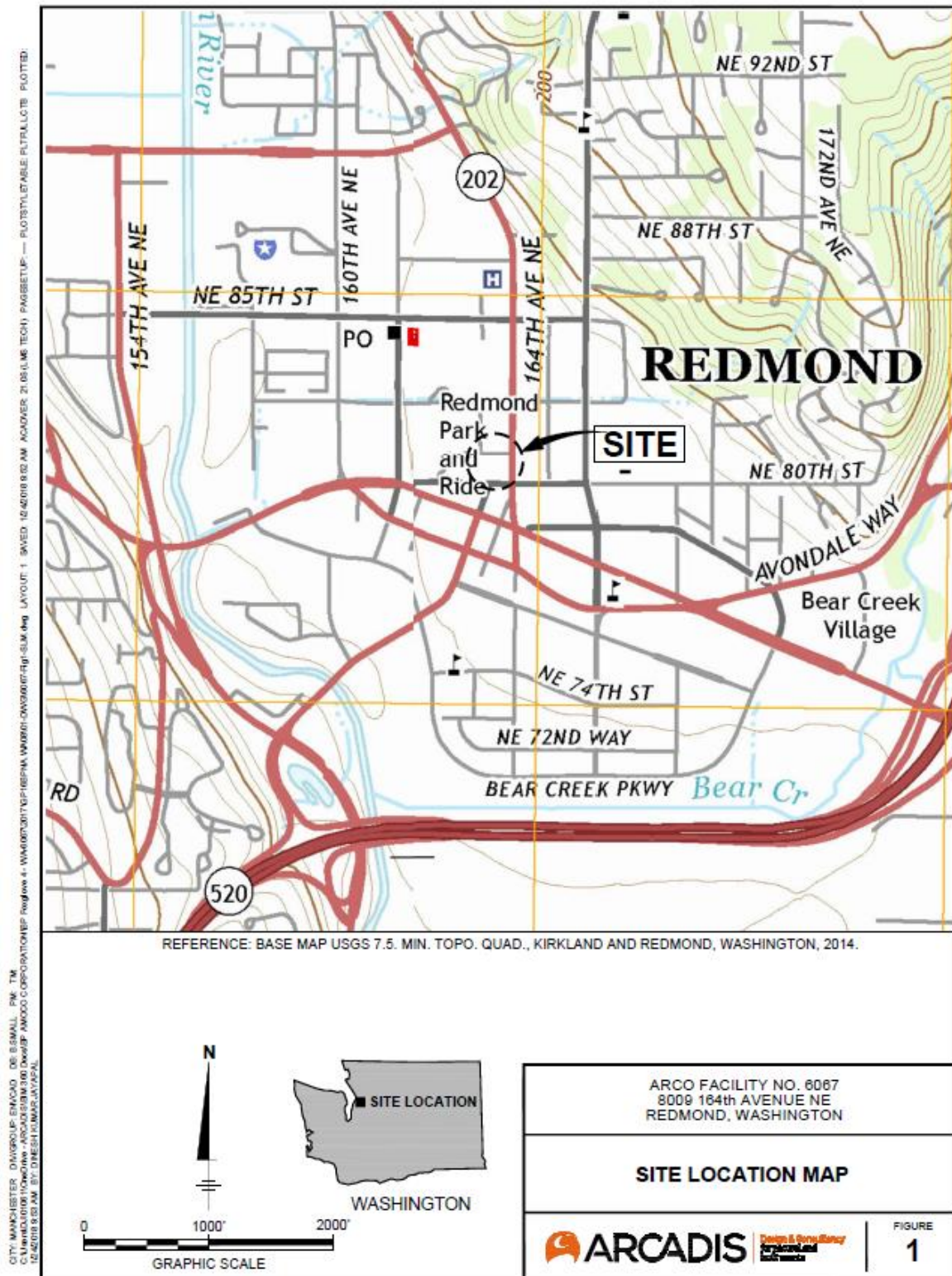


Figure 2: Site Plan

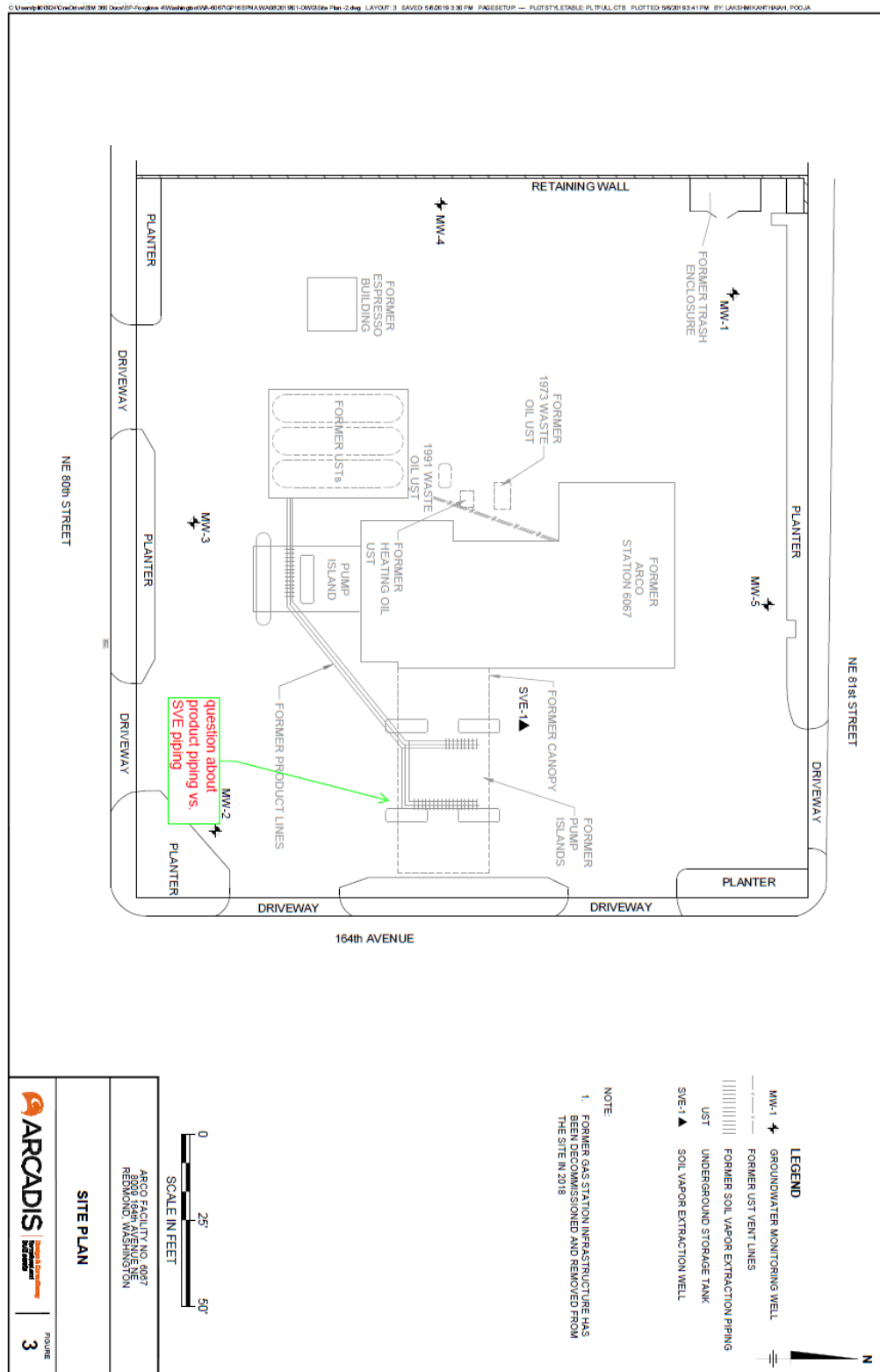
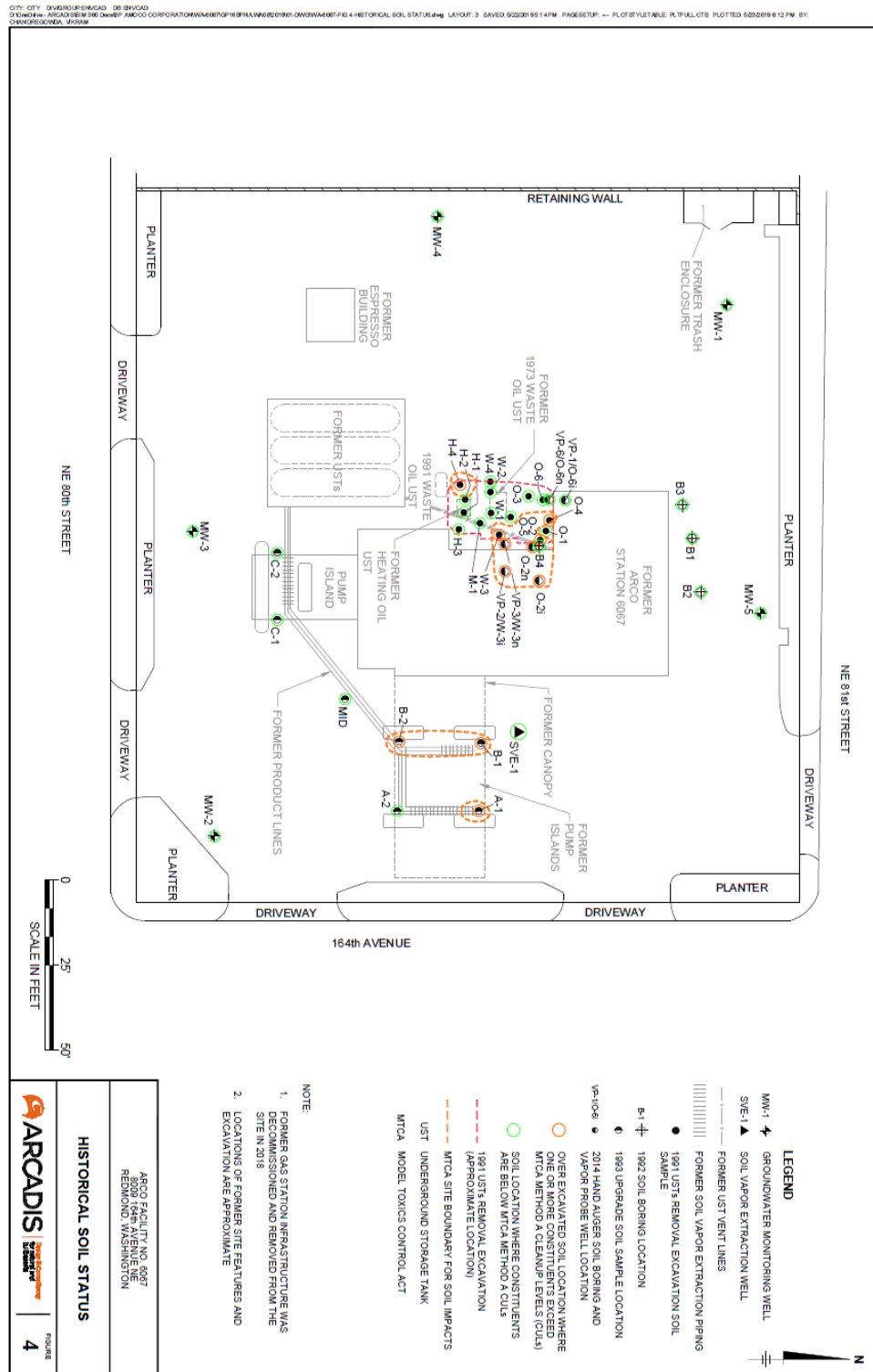


Figure 3: Historical Soil Status



### Figure 4: Groundwater Contour Map

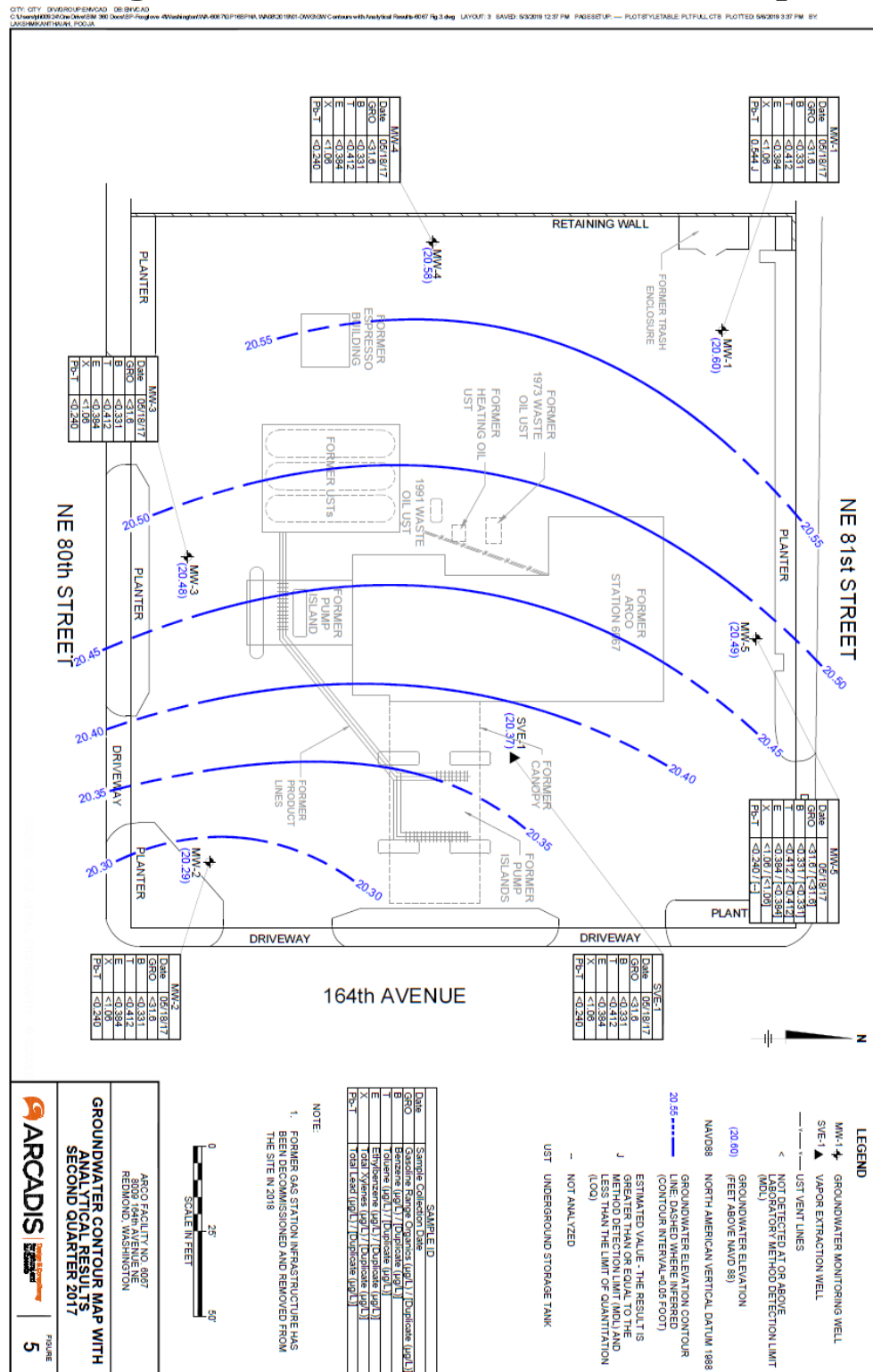
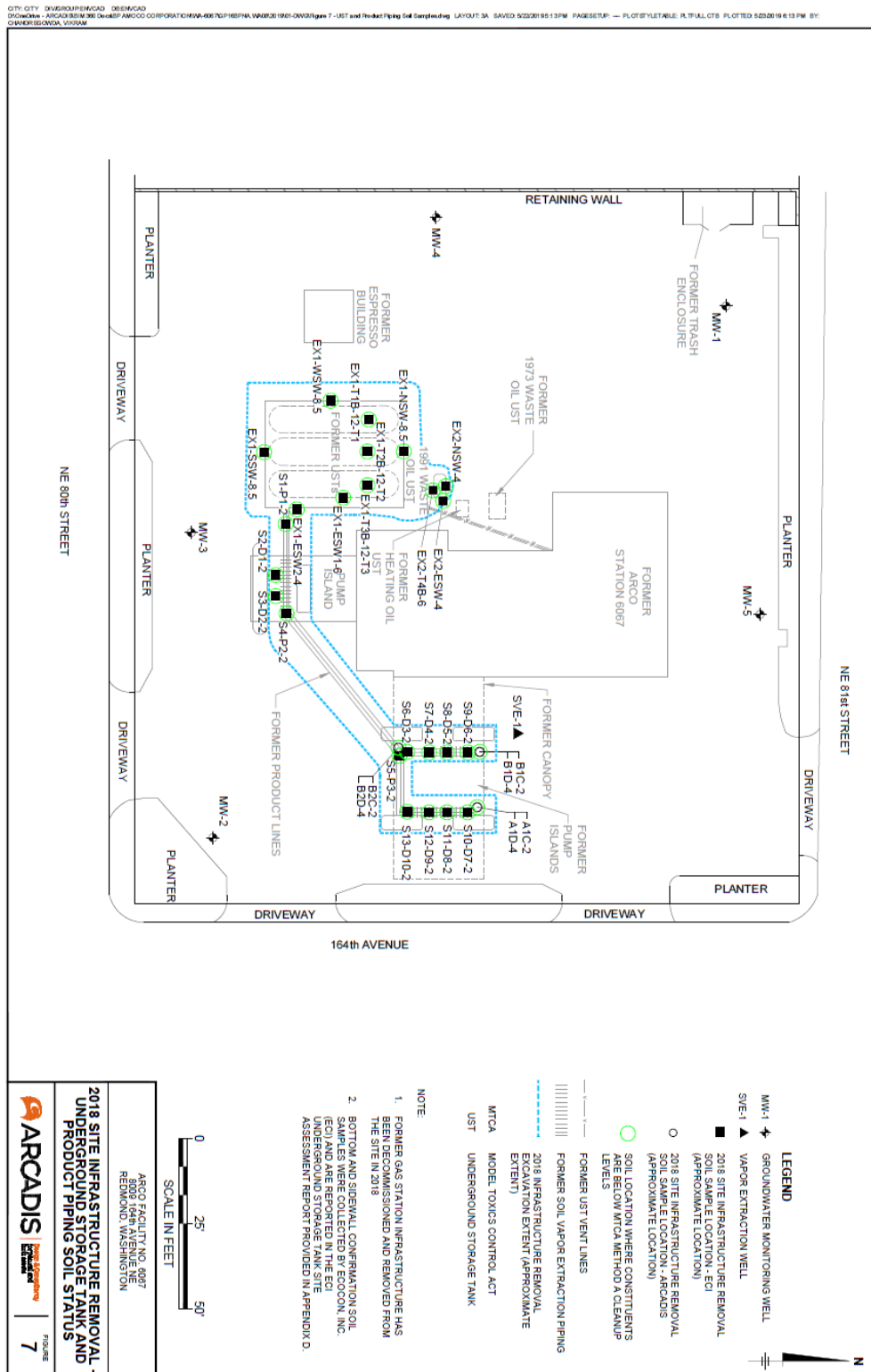


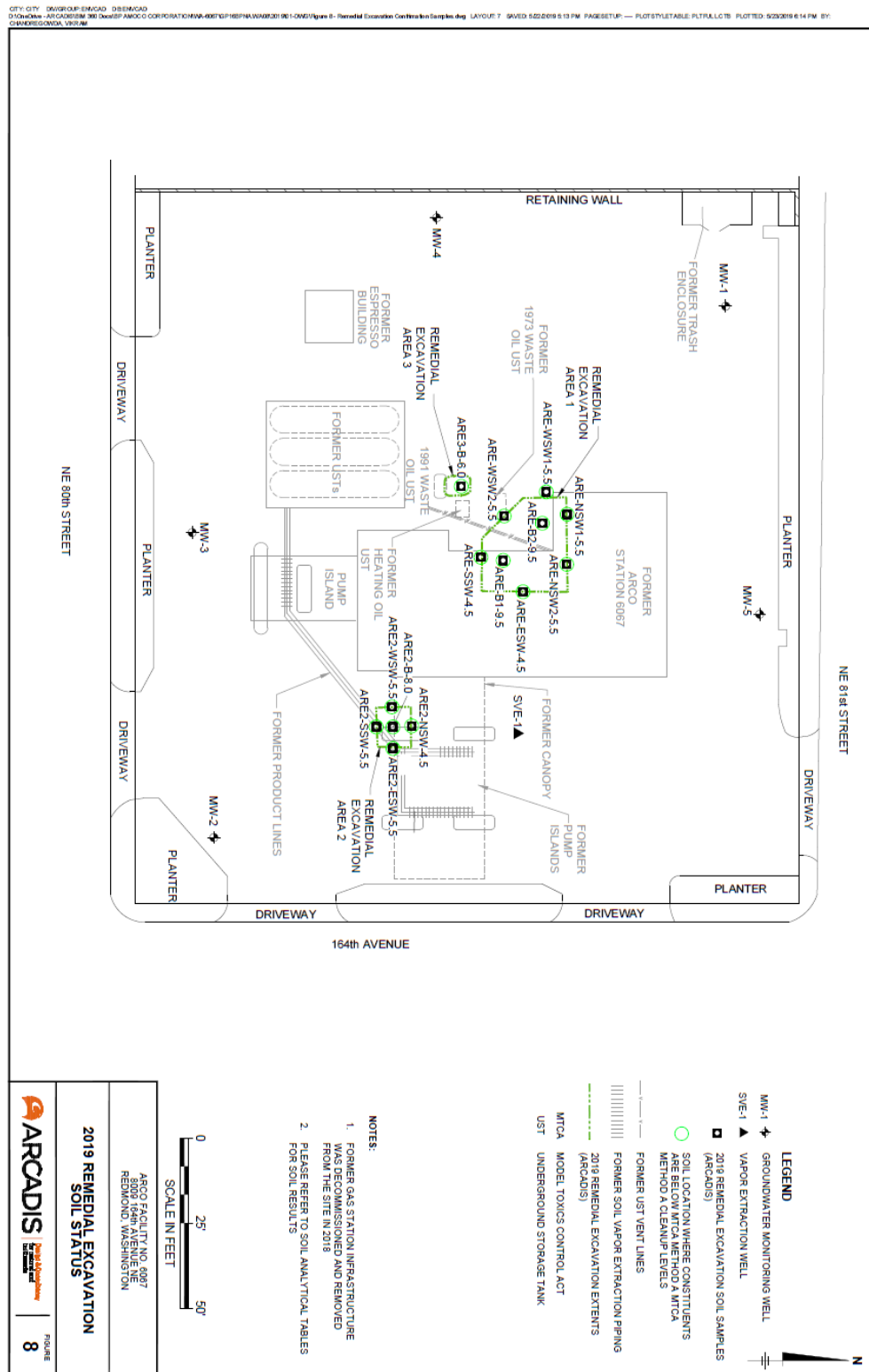


Figure 5: 2018 Site Infrastructure Removal

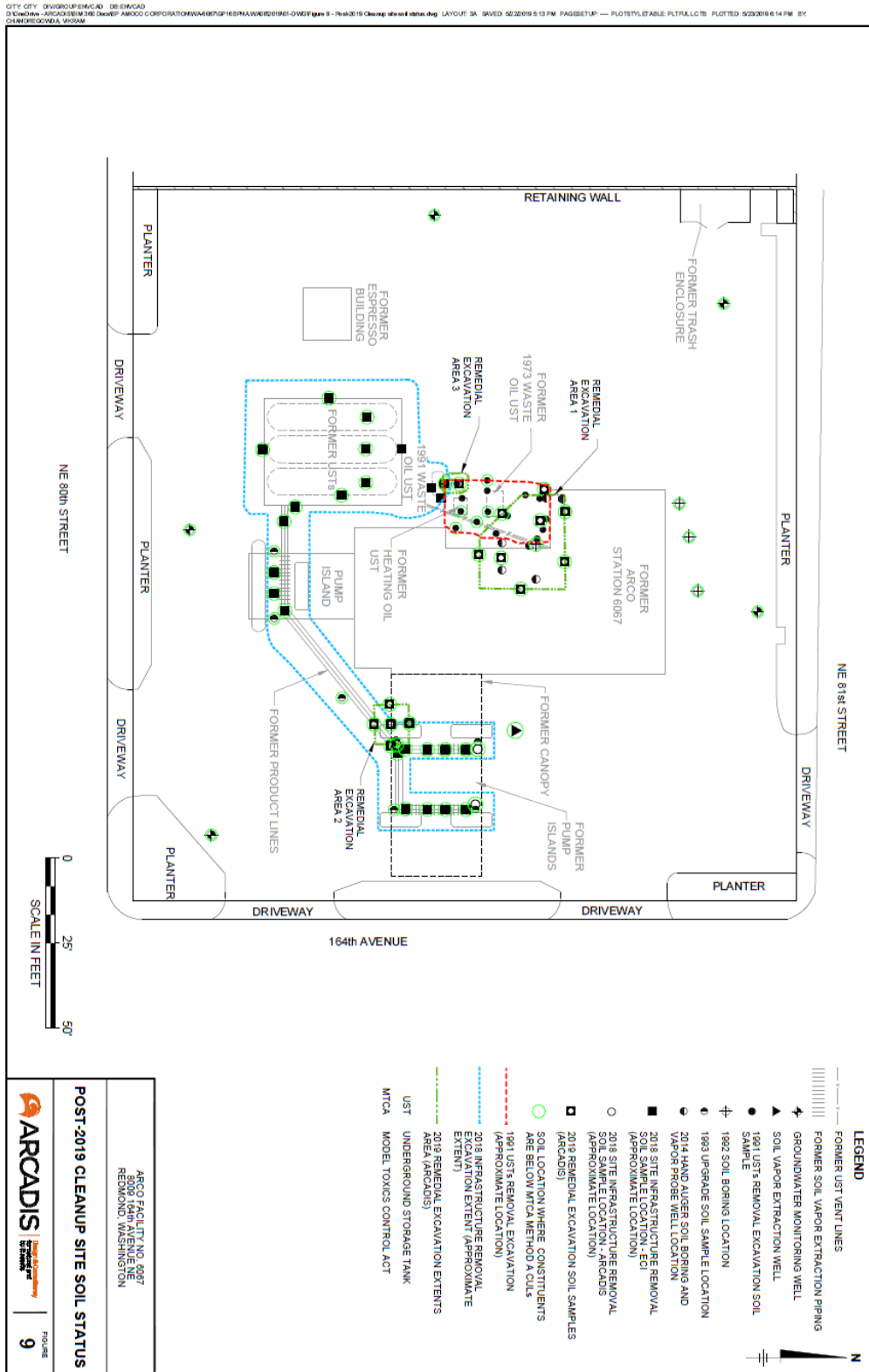




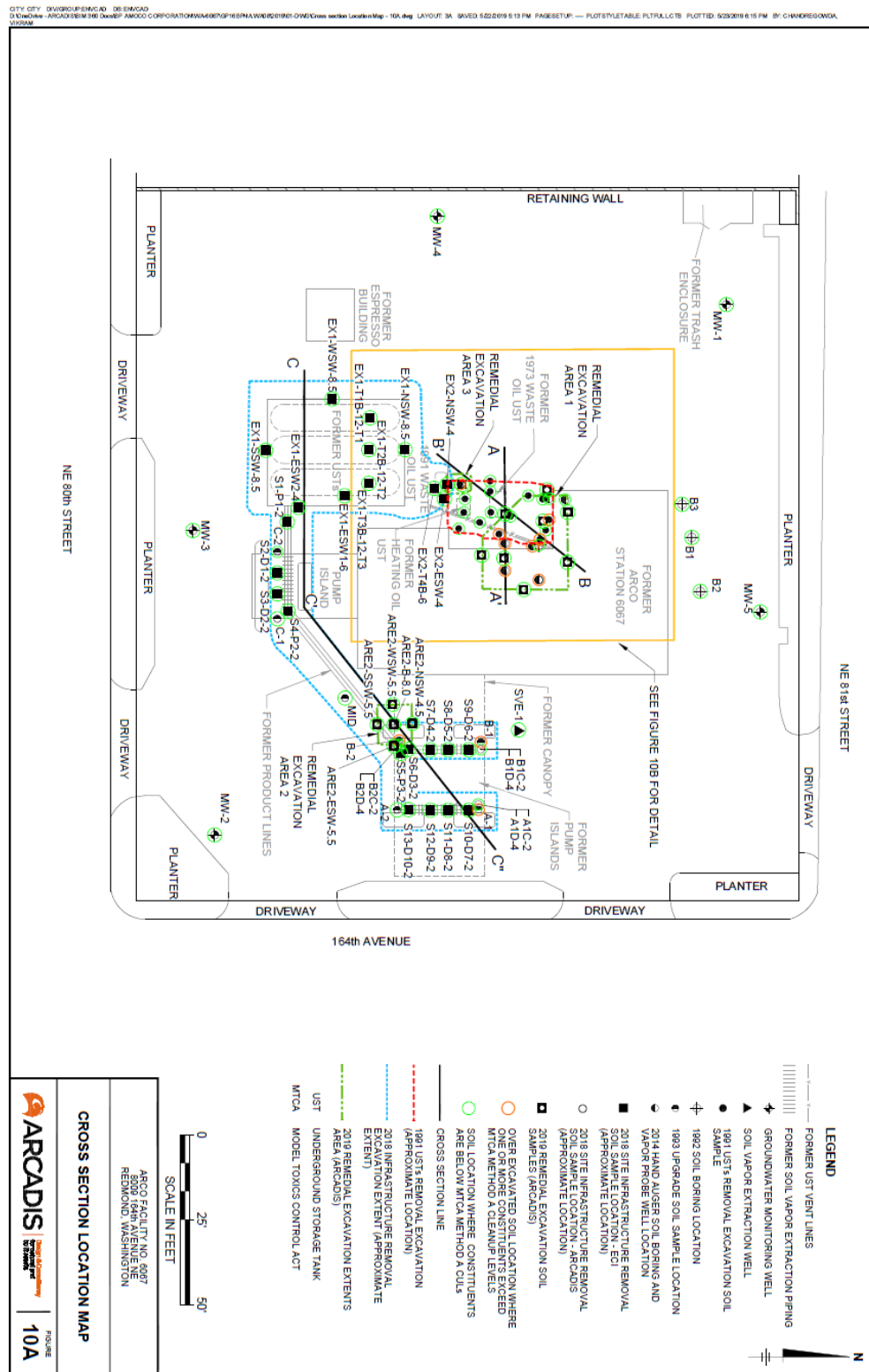
### Figure 6: 2019 Remedial Excavation Soil Status



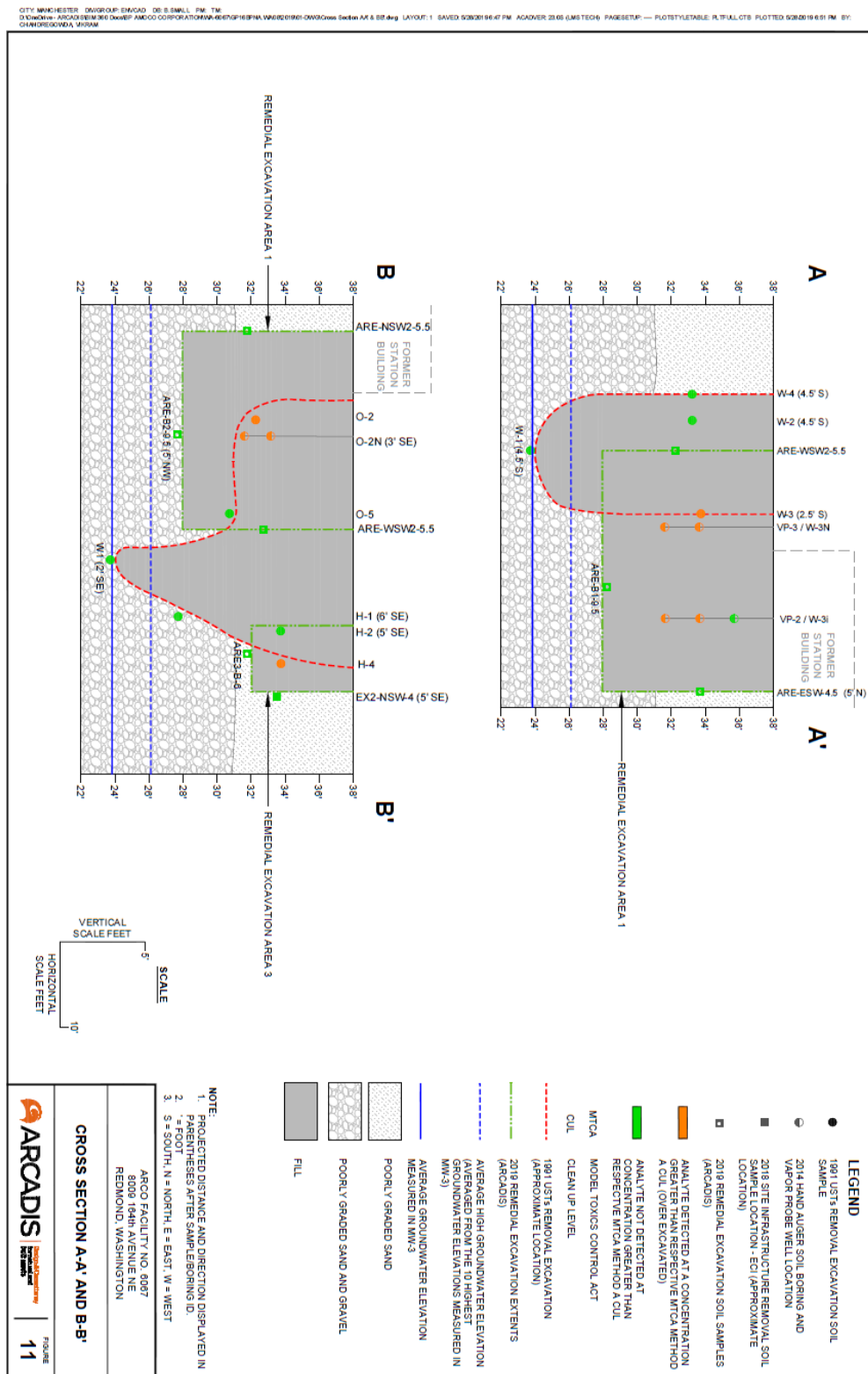
### Figure 7: Post-2019 Cleanup Site Soil Status



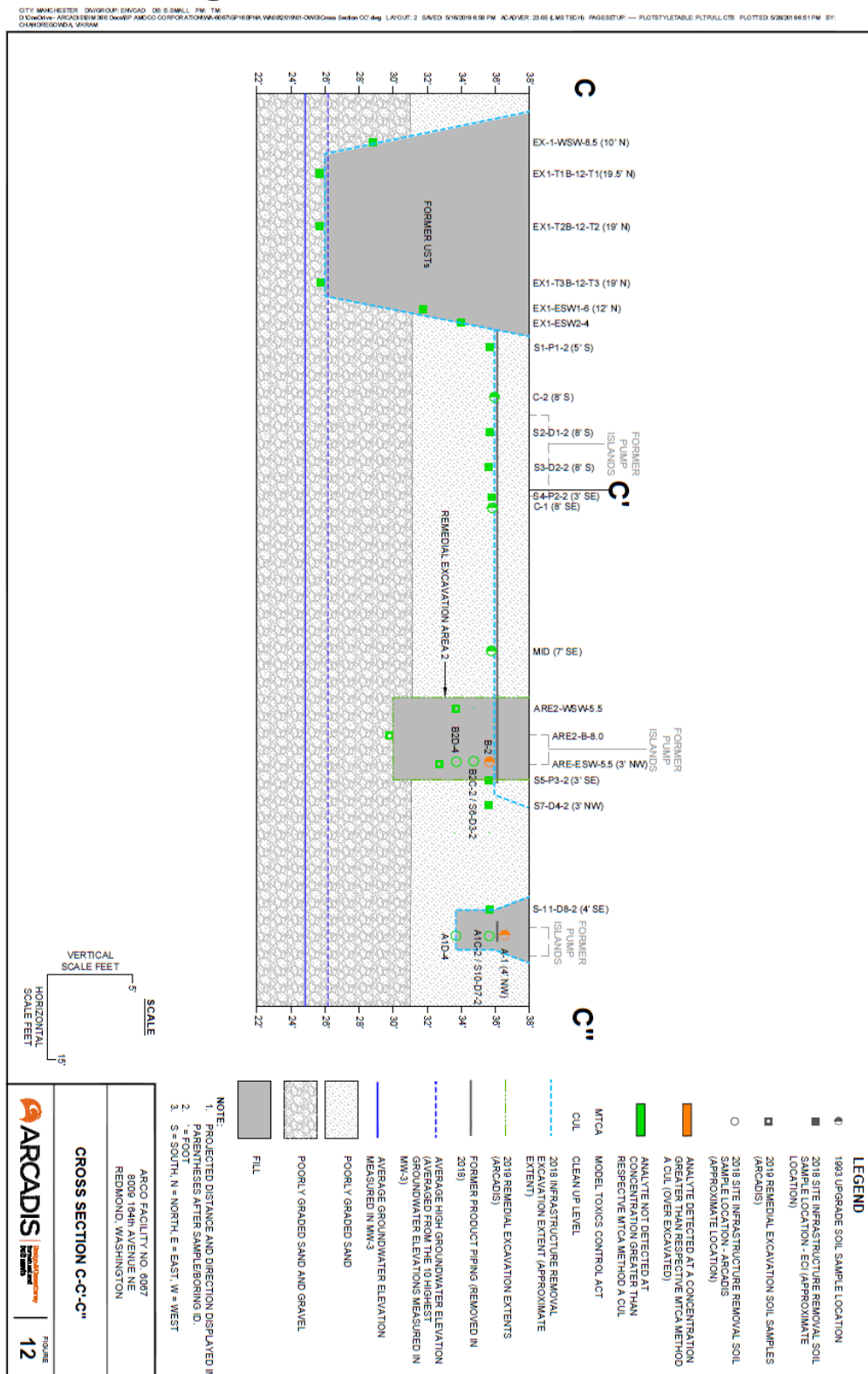
### Figure 8: Cross-Section Location Map



### Figure 9: Cross-Section A-A' and B-B'



**Figure 10: Cross-Section C-C'**



**Table 1: Soil Analytical Data**

<p><b>Table 3</b> <b>Summary of Select Soil Analytical Data</b> 8009 164th Ave NE, Redmond, Washington WA 98067</p> <p>All Concentrations are in milligrams per kilogram (mg/Kg)</p>															
Sample ID	Date	Depth	GRO	DRO	HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Naphthalenes	CPAHs	Lead
<p>1991 Method A Soil Cleanup Levels</p>															
			30/100	2,000	2,000	0.03	7	6	9	0.1	0.005	--	5	0.1	250
1991 Waste Oil and Heating Oil USTs Excavation															
M-1	6/11/1991	11	<10	<10	<10	<0.010	<0.010	<0.010	<0.010	--	--	--	--	--	<3
O-1**	6/12/1991	5	<10	<10	117	<0.005	<0.005	<0.005	0.68	--	--	--	--	<0.0755	5
O-2**	6/12/1991	3.5	<50	<50	32,000	1.5	26	9.9	55	--	--	--	--	<0.6550	1,240
O-3**	6/12/1991	3	<10	<10	129	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	88
O-4**	6/12/1991	3	<10	<10	87	<0.005	<0.005	<0.005	<0.005	--	--	--	--	0.1395	34
O-5	6/15/1991	6.5	<10	<10	<10	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	<5
O-6**	6/15/1991	1.5	<10	<10	<10	<0.005	<0.005	<0.005	<0.005	--	--	--	--	0.0680	25
W-1	6/12/1991	14	<10	<10	114	<0.005	<0.005	<0.005	<0.005	--	--	--	--	<0.0755	<3
W-2**	6/12/1991	4	<10	<10	601	<0.005	<0.005	<0.005	0.02	--	--	--	--	--	23
W-3**	6/15/1991	4	<10	<10	34,300	<0.005	<0.005	0.007	<0.005	--	--	--	--	--	39
W-4	6/15/1991	5	<10	<10	<10	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	<5
H-1	6/12/1991	10	<10	<10	<10	<0.005	<0.005	<0.005	<0.005	--	--	--	--	<0.6550	<3
H-2**	6/12/1991	5	<10	<10	1,090	--	--	--	--	--	--	--	--	--	9
H-3	6/12/1991	4	<10	<10	<10	--	--	--	--	--	--	--	--	--	<3
H-4**	6/15/1991	4.5	<5	<10	<10	<0.005	<0.005	<0.005	15	--	--	--	--	<0.0755	<3
1991-1992 Soil Investigation															
B1	7/15/1991	7.5	--	<10	--	--	--	--	--	--	--	--	--	--	--
B1	7/15/1991	12.5	--	<10	--	--	--	--	--	--	--	--	--	--	--
B2	7/15/1991	5	--	<10	--	--	--	--	--	--	--	--	--	--	--
B2	7/15/1991	15	--	<10	--	--	--	--	--	--	--	--	--	--	--
B3	2/18/1992	5	--	300	--	--	--	--	--	--	--	--	--	--	--
B3	2/18/1992	11	--	17	--	--	--	--	--	--	--	--	--	--	--
B4	2/18/1992	10	--	23	--	--	--	--	--	--	--	--	--	--	--
B4	2/18/1992	15	--	20	--	--	--	--	--	--	--	--	--	--	--
1993 Product Line Upgrade															
A-1**	7/20/1993	--	12,000	--	1,100	23	300	92	1,100	--	--	--	--	--	<15
A-2	7/20/1993	--	2.3	--	700	<0.05	<0.05	<0.05	<0.1	--	--	--	--	--	65
B-1**	7/20/1993	--	28,000	--	<100	200	1,600	400	3,100	--	--	--	--	--	<15
B-2**	7/20/1993	--	<0.1	--	9,100	<0.05	<0.05	<0.05	<0.1	--	--	--	--	--	33
C-1**	7/20/1993	--	<0.1	--	<100	<0.05	<0.05	<0.05	<0.1	--	--	--	--	--	<15
C-2**	7/20/1993	--	<0.1	--	2,000	<0.05	<0.05	<0.05	<0.1	--	--	--	--	--	<15
MID**	7/20/1993	--	<0.1	--	<100	<0.05	<0.05	<0.05	<0.1	--	--	--	--	--	29
1993-1994 Monitoring Well Installations															
SVE-1	10/11/1993	10	<1	--	<100	<0.05	<0.05	<0.05	<0.1	--	--	--	--	--	<10
MW-1	10/11/1993	5	<1	--	<100	<0.05	<0.05	<0.05	<0.1	--	--	--	--	--	<10
MW-1	10/11/1993	10	<1	--	<100	<0.05	<0.05	<0.05	<0.1	--	--	--	--	--	<10
MW-2	10/11/1993	5	<1	--	<100	<0.05	<0.05	<0.05	<0.1	--	--	--	--	--	<10
MW-2	10/11/1993	10	<1	--	<100	<0.05	<0.05	<0.05	<0.1	--	--	--	--	--	19

**Table 3**  
**Summary of Select Soil Analytical Data**  
8009 164th Ave NE, Redmond, Washington  
WA-6067  
All Concentrations are in milligrams per kilogram (mg/kg)

Sample ID	Date	Depth	GRO	DRO	HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Naphthalenes	cPAHs	Lead
<b>MTCA Method A Soil Cleanup Levels</b>															
MW-3	10/11/1993	5	<1	--	<100	<0.05	<0.05	<0.05	<0.1	--	--	--	--	--	<10
MW-3	10/11/1993	10	<1	--	<100	<0.05	<0.05	<0.05	<0.1	--	--	--	--	--	<10
MW-4	4/8/1994	5	<1	--	--	<0.05	<0.05	<0.05	<0.1	--	--	--	--	--	<10
MW-4	4/8/1994	10	<1	--	--	<0.05	<0.05	<0.05	<0.1	--	--	--	--	--	<10
MW-5	4/8/1994	5	<1	--	--	<0.05	<0.05	<0.05	<0.1	--	--	--	--	--	17
<b>2014 Investigation</b>															
O-2H**	1/23/2014	3.5-4.0	--	<0.2	20 J B	<0.012	<0.031	<0.031	<0.062	--	--	<0.031	--	--	10
O-2H**	1/23/2014	5.0-5.5	--	<0.4	18 J B	<0.005	<0.021	<0.021	<0.043	--	--	<0.021	--	--	3.8
O-2H**	1/23/2014	6.0-6.5	--	<0.2	18 J B	<0.0045	<0.011	<0.011	<0.022	--	--	<0.011	--	--	5.0
O-2H**	1/24/2014	3.5-4.0	--	<0.6	21 J B	<0.0056	<0.014	<0.014	<0.028	--	--	<0.014	<0.00315	0.0079	--
O-2H**	1/24/2014	4.5-4.0	--	<0.9	17 J B	<0.0051	<0.013	<0.013	<0.026	--	--	<0.013	<0.00305	<0.0013	--
O-2H**	1/24/2014	5.5-6.0	--	<0.5	22 J B	<0.0050	<0.012	<0.012	<0.025	--	--	<0.012	<0.00315	0.0014	--
W-3H**	1/23/2014	2.0-2.5	--	<0.8	14 J B	--	--	--	--	--	--	<0.023	--	--	--
W-3H**	1/23/2014	4.0-4.5	--	<0.2	19 J B	--	--	--	--	--	--	<0.027	--	--	--
W-3H**	1/23/2014	5.5-6.0	--	<0.3	19 J B	--	--	--	--	--	--	<0.024	--	--	--
W-3H**	1/24/2014	4.0-4.5	--	<0.1	20 J B	--	--	--	--	--	--	<0.013	--	--	--
W-3H**	1/24/2014	5.5-6.0	--	39 Y	280 B	--	--	--	--	--	--	<0.013	--	--	--
O-6H**	1/23/2014	1.4-2.0	--	--	--	--	--	--	--	--	--	--	<0.00315	0.0081	--
O-6H**	1/23/2014	3.7-4.3	--	--	--	--	--	--	--	--	--	--	<0.0029	<0.0012	--
O-6H**	1/23/2014	5.8-6.5	--	--	--	--	--	--	--	--	--	--	<0.00305	0.0005	--
O-6H**	1/24/2014	1.5-2.0	--	--	--	--	--	--	--	--	--	--	<0.00305	0.0024	19
O-6H**	1/24/2014	4.0-4.5	--	--	--	--	--	--	--	--	--	--	<0.00315	<0.0013	3.8
O-6H**	1/24/2014	5.5-6.0	--	--	--	--	--	--	--	--	--	--	<0.00315	<0.0013	4.6
<b>2018 USTs Removal (Site Assessor/ECI)</b>															
SP1	11/28/2018	stockpile	<5.0	<50	<250	<0.02	<0.02	<0.02	<0.06	--	--	--	--	--	--
SP2	11/28/2018	stockpile	<5.0	<50	<250	<0.02	<0.02	<0.02	<0.06	--	--	--	--	--	--
SP3	11/28/2018	stockpile	<5.0	<50	<250	<0.02	<0.02	<0.02	<0.06	--	--	--	--	--	--
EX1-SSW-8.5	11/28/2018	8.5	<5.0	<50	<250	<0.02	<0.02	<0.02	<0.06	--	--	--	--	--	--
EX1-NSW-8.5	11/28/2018	8.5	<5.0	<50	<250	<0.02	<0.02	<0.02	<0.06	--	--	--	--	--	--
EX1-MSW-8.5	11/28/2018	8.5	<5.0	<50	<250	<0.02	<0.02	<0.02	<0.06	--	--	--	--	--	--
EX1-T1B-12	11/28/2018	12	<5.0	<50	<250	<0.02	<0.02	<0.02	<0.06	--	--	--	--	--	--
EX1-T2B-12	11/28/2018	12	<5.0	<50	<250	<0.02	<0.02	<0.02	<0.06	--	--	--	--	--	--
EX1-T3B-12	11/28/2018	12	<5.0	<50	<250	<0.02	<0.02	<0.02	<0.06	--	--	--	--	--	--
EX2-T1B-6	11/28/2018	6	<5.0	<50	<250	<0.02	<0.02	<0.02	<0.06	--	--	--	--	--	--
EX2-NSW-4	11/28/2018	4	<5.0	<50	<250	<0.02	<0.02	<0.02	<0.06	--	--	--	--	--	--
EX1-ES1-4	11/28/2018	4	<5.0	<50	<250	<0.02	<0.02	<0.02	<0.06	--	--	--	--	--	--
EX1-ESW2-6	11/28/2018	6	<5.0	<50	<250	<0.02	<0.02	<0.02	<0.06	--	--	--	--	--	--
EX2-ESW-4	11/28/2018	4	<5.0	<50	<250	<0.02	<0.02	<0.02	<0.06	--	--	--	--	--	--



**Table 3**  
**Summary of Select Soil Analytical Data**  
WA-6067  
8009 164th Ave NE, Redmond, Washington  
All Concentrations are in milligrams per kilogram (mg/Kg)

Sample ID	Date	Depth	GRO	DRO	HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Naphthalenes	cPAHs	Lead
MTCA Method A Soil Cleanup Levels			30/100	2,000	2,000	0.03	7	6	9	0.1	0.005	--	5	0.1	250
<b>2018 Product Piping Removal (Site Assessor/ECL)</b>															
S1-P1-2	11/28/2018	2	<5.0	<50	<250	<0.02	<0.02	<0.02	<0.06	--	--	--	--	--	--
S2-D1-2	11/28/2018	2	<5.0	<50	<250	<0.02	<0.02	<0.02	<0.06	--	--	--	--	--	--
S3-D2-2	11/28/2018	2	<5.0	<50	<250	<0.02	<0.02	<0.02	<0.06	--	--	--	--	--	--
S4-P2-2	12/11/2018	2	<5.0	<50	<250	<0.02	<0.02	<0.02	<0.06	--	--	--	--	--	--
S5-P3-2	12/11/2018	2	<5.0	<50	<250	<0.02	<0.02	<0.02	<0.06	--	--	--	--	--	--
S6-D3-2**	12/11/2018	2	<5.0	<50	<250	<0.02	<0.02	<0.02	<0.06	--	--	--	--	--	--
S7-D4-2	12/11/2018	2	<5.0	<50	<250	<0.02	<0.02	<0.02	<0.06	--	--	--	--	--	--
S8-D5-2	12/11/2018	2	<5.0	<50	<250	<0.02	<0.02	<0.02	<0.06	--	--	--	--	--	--
S9-D6-2	12/11/2018	2	<5.0	<50	<250	<0.02	<0.02	<0.02	<0.06	--	--	--	--	--	--
S10-D7-2	12/11/2018	2	<5.0	<50	<250	<0.02	<0.02	<0.02	<0.06	--	--	--	--	--	--
S11-D8-2	12/11/2018	2	<5.0	<50	<250	<0.02	<0.02	<0.02	<0.06	--	--	--	--	--	--
S12-D9-2	12/11/2018	2	<5.0	<50	<250	<0.02	<0.02	<0.02	<0.06	--	--	--	--	--	--
S13-D10-2	12/11/2018	2	<5.0	<50	<250	<0.02	<0.02	<0.02	<0.06	--	--	--	--	--	--
<b>2018 Product Piping Removal (Arcadis)</b>															
A1C-2**	12/11/2018	2	<8.1	<31	<83	<0.0014	<0.0068	<0.0014	<0.0041	--	<0.0014	<0.0014	--	--	<8.3
A1D-4	12/11/2018	4	<8.1	<34	<86	<0.0013	<0.0065	<0.0013	<0.0039	--	<0.0013	<0.0013	--	--	<8.8
B1C-2**	12/11/2018	2	<7.0	<29	<58	<0.0012	<0.0059	<0.0012	<0.0036	--	<0.0012	<0.0012	--	--	<8.5
B1D-4	12/11/2018	4	<7.0	<31	<82	<0.0012	<0.0060	<0.0012	<0.0036	--	<0.0012	<0.0012	--	--	<8.2
B2C-2**	12/11/2018	2	<8.7	<33	<88	<0.0014	<0.0072	<0.0014	<0.0043	--	<0.0014	<0.0014	--	--	<8.5
B2D-4	12/11/2018	4	<7.2	<31	<82	<0.0013	<0.0066	<0.0013	<0.0039	--	<0.0013	<0.0013	--	--	<8.2
<b>2019 Remedial Excavation - Area 1 (Arcadis)</b>															
ARE-SSW-4.5	1/04/2019	4.5	<7.0	<29	<58	<0.0012	<0.0058	<0.0012	<0.0035	<0.0012	<0.0012	<0.0012	<0.0116	<0.0058	<5.8
ARE-SSW-4.5	1/04/2019	4.5	<8.6	<33	<80	<0.0011	<0.0055	<0.0011	<0.0033	<0.0011	<0.0011	<0.0011	<0.0120	<0.0060	<6.0
ARE-WSW1-5.5	1/04/2019	5.5	<8.3	<30	<77	<0.0011	<0.0054	<0.0011	<0.0033	<0.0011	<0.0011	<0.0011	<0.0118	<0.0060	<5.9
ARE-WSW2-5.5	1/04/2019	5.5	<7.0	<30	<60	<0.0012	<0.0056	<0.0012	<0.0036	<0.0012	<0.0012	<0.0012	<0.0120	<0.0060	<6.0
ARE-NSW1-5.5	1/04/2019	5.5	<8.0	<29	<76	<0.0011	<0.0053	<0.0011	<0.0032	<0.0011	<0.0011	<0.0011	<0.0116	<0.0058	<5.8
ARE-NSW2-5.5	1/04/2019	5.5	<5.4	<27	<70	<0.00096	<0.0046	<0.00096	<0.00296	<0.00096	<0.00096	<0.00096	<0.0107	<0.0054	<5.4
ARE-B1-9.5	1/04/2019	9.5	<8.1	<28	<59	<0.0011	<0.0057	<0.0011	<0.0034	<0.0011	<0.0011	<0.0011	<0.0113	<0.0057	<5.7
ARE-B2-9.5	1/04/2019	9.5	<5.4	<26	<52	<0.0010	<0.0051	<0.0010	<0.0030	<0.0010	<0.0010	<0.0010	<0.0105	<0.0053	<5.2
<b>2019 Remedial Excavation - Area 2 (Arcadis)</b>															
ARE2-SSW-5.5	1/04/2019	5.5	<8.6	<30	<59	<0.0010	<0.0052	<0.0010	<0.0031	<0.0010	<0.0010	<0.0010	--	--	<5.9
ARE2-ESW-5.5	1/04/2019	5.5	<8.6	<31	<61	<0.0011	<0.0054	<0.0011	<0.0032	<0.0011	<0.0011	<0.0011	--	--	<6.1
ARE2-NSW-4.5	1/04/2019	4.5	<8.7	<33	<62	<0.0011	<0.0057	<0.0011	<0.0034	<0.0011	<0.0011	<0.0011	--	--	<6.2
ARE2-WSW-5.5	1/04/2019	5.5	<8.3	<30	<60	<0.0011	<0.0052	<0.0010	<0.0031	<0.0010	<0.0010	<0.0010	--	--	<6.0
ARE2-B-8.0	1/04/2019	8	<8.0	<27	<54	<0.0010	<0.0051	<0.0010	<0.0030	<0.0010	<0.0010	<0.0010	--	--	<5.4



**Table 3**  
**Summary of Select Soil Analytical Data**  
WA-6067  
8009 164th Ave NE, Redmond, Washington

All Concentrations are in milligrams per kilogram (mg/Kg)

Sample ID	Date	Depth	GRO	DRO	HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Naphthalenes	cPAHs	Lead
MTCA Method A Soil Cleanup Levels			30/100	2,000	2,000	0.03	7	6	9	0.1	0.005	--	5	0.1	250
2019 Remedial Excavation - Area 3 (Arcadis)															
ARE3-B-6.0	1/04/2019	6	<5.3	<28	<58	<0.0033	<0.0046	<0.0033	<0.00283	--	--	--	<0.0113	<0.0057	<5.8

Notes:

-- = Not applicable or not analyzed

**BOLD and highlighted values are greater than their respective MTCA Method A cleanup level**

**BOLD values are non-detect above the laboratory detection limit where the detection limit is higher than the MTCA Method A cleanup level**

**\*\* = Sample was over excavated**

< = Not detected at or above laboratory method detection limit (MDL) for the given analysis, value shown is MDL

Depth = Depth of sample in feet below ground surface (bgs)

GRO = Total petroleum hydrocarbons (TPH) - Gasoline range Organics analyzed by Ecology Method NWTPH-Gx

DRO = TPH - Diesel Range Organics analyzed by Ecology Method NWTPH-Dx

HO = TPH - Heavy Oil Range Organics analyzed by Ecology Method NWTPH-Hx

MTBE = Methyl Tertiary Butyl Ether

EDB = Ethylene dibromide

EDC = 1,2-Dichloroethane

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value mg/kg

B = Compound was found in the blank and sample

Y = The chromatographic response resembles a typical fuel pattern

Volatile Organic Compounds (BTEX, MTBE, EDB and EDC) analyzed by EPA Method 8260C

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

Soil Cleanup Level for gasoline mixtures (GRO) without benzene and the total of toluene, ethylbenzene, and xylenes are less than 1% of the gasoline mixture is 100 mg/kg. For all other gasoline mixtures, the GRO Soil Cleanup Level is 30 mg/kg.

Polycyclic aromatic hydrocarbons (PAHs), including the seven carcinogenic PAHs (cPAHs) and Naphthalenes, by EPA Method 8270

Naphthalenes is a sum total of 1-methyl-naphthalene, 2-methyl-naphthalene, and naphthalene (per MTCA Cleanup Regulation Table 720-1 [d] and [f]). If one or more constituents were reported as Non-Detect, half of the reporting limit was used in calculations.

Total cPAHs calculated by summing the concentrations of benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene and adjusted for toxicity to represent a total benzo(a)pyrene concentration according to Washington State Administrative Code 173-340-708(8). If one or more adjusted cPAH constituents were reported as Non-Detect, half of the reporting limit was used in calculations.

Table 2: Groundwater Analytical Data

Well	Date	Notes	TOC	DTW	NAPL	GWE	GRO	DRO	HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Total Lead	Disclosed
Model Toxics Control Act (MTC) Method A Cleanup Levels (CLLs) in µg/L																		
WW-1	11/2/1964	P	37.55	16.47	--	21.08	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	39	--
WW-1	2/21/1965	NS	37.55	12.15	--	25.4	--	--	--	--	--	--	--	--	--	--	--	--
WW-1	5/4/1965	NS	37.55	13.81	--	23.74	--	--	--	--	--	--	--	--	--	--	--	--
WW-1	8/1/1965	NS	37.55	18.54	--	21.61	--	--	--	--	--	--	--	--	--	--	--	--
WW-1	11/2/1965	NS	37.55	16.55	--	22	--	--	--	--	--	--	--	--	--	--	--	--
WW-1	2/22/1966	NS	37.55	8.92	--	26.23	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
WW-1	3/23/1966	NS	37.55	12.53	--	25	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
WW-1	5/3/1966	NS	37.55	12.68	--	23.88	--	--	--	--	--	--	--	--	--	--	--	--
WW-1	11/8/1967	NS	37.55	NM	--	26.87	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
WW-1	3/17/1967	NP	37.55	10.88	--	22.38	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
WW-1	8/13/1967	NP	37.55	16.27	--	24.21	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
WW-1	3/12/1968	NP	37.55	13.54	--	20.74	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
WW-1	8/17/1968	NP	37.55	16.81	--	20.74	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
WW-1	3/17/1969	NP	37.55	10.89	--	26.86	<50.0	--	--	<0.500	<0.500	<0.500	<1.000	--	--	--	<2.000	--
WW-1	8/10/1969	NP	37.55	16.25	--	21.3	<50.0	--	--	<0.500	<0.500	<0.500	<1.000	--	--	--	<2.000	--
WW-1	3/22/2000	NP	37.55	12.60	--	24.95	<50.0	--	--	<0.500	<0.500	<0.500	<1.000	--	--	--	<2.000	--
WW-1	3/13/2001	NP	37.55	14.75	--	22.8	<50.0	--	--	<0.500	<0.500	<0.500	<1.000	--	--	--	<2.000	--
WW-1	2/26/2002	NP	37.55	11.16	--	26.39	<50.0	--	--	<0.500	<0.500	<0.500	<1.000	--	--	--	<2.000	--
WW-1	1/28/2003	NP	37.55	12.75	--	24.8	<50.0	--	--	<0.500	<0.500	<0.500	<1.000	--	--	--	<2.000	--
WW-1	3/11/2004	NP	37.55	12.59	--	24.98	<50.0	--	--	<0.500	<0.500	<0.500	<1.05	--	--	--	<2.000	--
WW-1	3/4/2006	NP	37.55	14.17	--	23.38	<50.0	--	--	<0.500	<0.500	<0.500	<1.000	--	--	--	<2.000	--
WW-1	3/2/2006	NP	37.55	12.61	--	24.64	<50.0	--	--	<0.500	<0.500	<0.500	<1.000	--	--	--	<2.000	--
WW-1	4/23/2007	NP	37.55	13.11	--	24.44	<50.0	--	--	<0.500	<0.500	<0.500	<1.000	--	--	--	<2.000	--
WW-1	4/14/2008	NP	37.55	12.95	--	24.6	<50.0	--	--	<0.500	<0.500	<0.500	<1.000	--	--	--	<2.000	--
WW-1	2/26/2009	L.F. a	37.55	14.02	--	22.83	<50.0	<28	<472	<0.200	<0.200	<0.200	<0.750	<1.000	<0.010	<0.200	<2.000	<2.000
WW-1	6/22/2010	NP	37.55	12.61	--	24.94	<50.0	--	--	<1.000	<1.000	<1.000	<3.000	<1.000	<0.010	<1.000	<2.000	<2.000
WW-1	4/6/2011	NP	37.55	11.76	--	26.79	<50	--	--	<1.0	<1.0	<1.0	<2.0	<1.0	<0.010	<1.0	<2.0	<2.0
WW-1	4/18/2012	NP	37.55	12.76	--	24.79	<50	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	<0.010	<1.0	<2.0	<2.0
WW-1	6/4/2013	L.F	37.55	13.98	--	23.57	<50	--	--	<0.500	<0.500	<0.500	<1.0	<1.0	<0.006	<0.500	<10.0	<10.0
WW-1	6/5/2013	L.F	37.55	14.04	--	23.51	<50	--	--	--	--	--	--	--	--	--	--	--
WW-1	8/20/2013	L.F	37.55	14.78	--	22.75	<50	--	--	<0.500	<0.500	<0.500	<1.0	<1.0	<0.008	<0.500	<10	<10
WW-1	11/19/2013	L.F	37.55	18.83	--	20.89	<10	--	--	<0.14	0.45 J	0.18 J	0.74 J	<1.0	--	--	<0.17	<0.17
WW-1	10/1/2014	L.F	37.55	16.24	0.00	21.31	<50	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	<0.17	<0.17
WW-1	3/15/2015	L.F	37.55	13.53	0.00	23.4	<27	--	--	<0.42	<0.44	<0.51	<0.82	--	--	--	<0.17	<0.17
WW-1	4/22/2015	L.F	37.55	13.55	0.00	21.25	<27	--	--	<0.42	<0.44	<0.51	<0.82	--	--	--	<0.17	<0.17
WW-1	7/27/2015	L.F	37.55	16.30	--	21.25	<27	--	--	<0.42	<0.44	<0.51	<0.82	--	--	--	<0.17	<0.17
WW-1	10/22/2015	L.F	37.55	15.39	--	22.2	<27	--	--	<0.42	<0.44	<0.51	<0.82	--	--	--	<0.17	<0.17
WW-1	1/21/2016	L.F	37.55	12.59	--	24.95	<27	--	--	<0.42	<0.44	<0.51	<0.82	--	--	--	<0.17	<0.17
WW-1	4/12/2016	L.F	37.55	13.61	--	23.64	<27	--	--	<0.42	<0.48	<0.21	<0.79	--	--	--	<0.17	<0.17
WW-1	5/18/2017	L.F	37.55	18.95	0.00	20.60	<1.8	--	--	<0.331	<0.412	<0.384	<1.06	--	--	--	0.544 J	--
WW-2	11/2/1964	P	37.38	15.99	--	21.39	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	85	--
WW-2	2/21/1965	P	37.38	11.35	--	26.03	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
WW-2	5/4/1965	P	37.38	13.2	--	24.18	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
WW-2	8/1/1965	P	37.38	15.39	--	21.95	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
WW-2	11/2/1965	P	37.38	14.95	--	22.43	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
WW-2	2/22/1966	P	37.38	8.71	--	28.67	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
WW-2	5/2/1966	NS	37.38	11.88	--	26.50	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--

Table 1  
Groundwater Gauging Data and Analytical Results  
8009 164TH AVE NE, REDMOND, WA 98052  
WA 6067  
All analytical results are presented in micrograms per liter (µg/L)

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8009 164TH AVE NE, REDMOND, WA 98052  
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Well	Date	Notes	TOC	DTW	NAPL	GWE	GRO	DRO	HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Total Lead	Dissolved Lead
Model Toxics Control Act (MTCAL) Method A Cleanup Levels (CULs) in µg/L							800/1,000	500	500	5	1,000	700	1,000	20	0.01	5	15	15
MW-2	8/8/1986	NS	37.38	16.02	--	23.26	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--
MW-2	11/8/1986	P	37.38	14.10	--	23.26	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	8.38	--
MW-2	3/17/1987	NS	37.38	11.98	--	26.50	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--
MW-2	8/13/1987	NS	37.38	14.75	--	22.83	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	--	<2.0
MW-2	3/12/1988	NS	37.38	12.77	--	26.61	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	8/17/1988	NS	37.38	16.28	--	21.09	--	--	--	--	<0.500	<0.500	<1.00	--	--	--	--	--
MW-2	3/17/1989	NP	37.38	10.21	--	21.78	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	--	--	--	<1.00
MW-2	8/10/1989	NS	37.38	15.60	--	25.48	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--
MW-2	3/22/2000	NP	37.38	11.90	--	23.23	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	<1.00	--	--	--	--
MW-2	3/13/2001	NP	37.38	14.15	--	25.83	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	<1.00	--	--	--	--
MW-2	2/26/2002	NP	37.38	10.45	--	26.63	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	<1.00	--	--	--	--
MW-2	1/28/2003	NP	37.38	12.05	--	26.33	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	<1.00	--	--	--	--
MW-2	3/11/2004	NP	37.38	11.80	--	26.62	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	<1.00	--	--	--	--
MW-2	3/4/2006	NP	37.38	13.43	--	23.95	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	<2.00	--	--	--	--
MW-2	3/2/2006	NP	37.38	11.90	--	25.48	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	<1.00	--	--	--	--
MW-2	4/23/2007	NP	37.38	12.43	--	24.95	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	<1.00	--	--	--	--
MW-2	4/14/2008	NP	37.38	12.27	--	26.11	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	<1.00	--	--	--	--
MW-2	2/25/2009	LF, a	37.38	13.81	--	25.57	<50.0	<238	<472	<0.200	<0.200	<0.200	<0.750	<1.00	<0.010	<0.200	<1.00	<1.00
MW-2	6/22/2010	NP	37.38	12.11	--	26.27	<50.0	--	--	<1.00	<1.00	<1.00	<3.00	<1.00	<0.010 b	<1.00	<2.00	<2.00
MW-2	4/6/2011	NP	37.38	11.22	--	26.16	<50	--	--	<1.0	<1.0	<1.0	<2.0	<1.0	<0.008	<1.0	<2.0	<2.0
MW-2	4/19/2012	NP	37.38	12.15	--	26.23	<50	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	<0.008	<1.0	<10.0	<10.0
MW-2	6/4/2013	LF	37.38	13.38	--	24.00	<50	--	--	<0.50	<0.50	<0.50	<1.0	<0.50	<0.006	<0.50	<10.0	<10.0
MW-2	8/30/2013	LF	37.38	15.87	--	21.51	<50	--	--	<0.50	<0.50	<0.50	<1.0	<0.50	<0.006	<0.50	<10	<10
MW-2	11/19/2013	LF	37.38	14.42	--	22.96	<50	--	--	<0.50	<0.50	<0.50	<1.0	<0.50	<0.006	<0.50	<10	<10
MW-2	7/7/2014	LF	37.38	16.44	0.00	20.94	<10	--	--	<0.14	0.28 J	<0.13	0.47 J8	<0.17	<0.16	<0.16	<0.17	<0.17
MW-2	10/1/2014	LF	37.38	15.51	0.00	21.87	<50	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	<2.0	<2.0
MW-2	1/9/2015	LF	37.38	11.35	0.00	26.03	22 J8	--	--	<0.14	<0.16	<0.13	<0.12	<0.17	--	--	<0.17	<0.17
MW-2	4/22/2015	LF	37.38	12.99	0.00	24.39	<27	--	--	<0.42	<0.44	<0.51	<0.62	--	--	--	<0.17	<0.17
MW-2	7/27/2015	LF	37.38	15.85	--	21.53	<27	--	--	<0.42	<0.44	<0.51	<0.62	--	--	--	<0.17	<0.17
MW-2	10/22/2015	LF	37.38	14.89	--	22.49	<27	--	--	<0.42	<0.44	<0.51	<0.62	--	--	--	<0.17	<0.17
MW-2	1/21/2016	LF	37.38	12.03	--	26.35	<27	--	--	<0.42	<0.44	<0.51	<0.62	--	--	--	<0.17	<0.17
MW-2	4/12/2016	LF	37.38	12.99	--	24.39	<27	--	--	<0.42	<0.44	<0.51	<0.62	--	--	--	<0.17	<0.17
MW-2	5/18/2017	LF	37.38	17.09	0.00	20.29	<31.6	--	--	<0.331	<0.412	<0.21	<1.08	--	--	--	<0.17	<0.17
MW-3	11/21/1984	P	37.92	16.67	--	21.25	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	57	--
MW-3	2/21/1985	P	37.92	12.21	--	26.71	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
MW-3	5/4/1986	P	37.92	13.98	--	23.94	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
MW-3	8/11/1986	P	37.92	16.10	--	21.82	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
MW-3	11/21/1986	P	37.92	15.72	--	22.20	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
MW-3	2/22/1989	P	37.92	9.49	--	28.43	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
MW-3	5/21/1989	NS	37.92	12.66	--	26.26	--	--	--	--	--	--	--	--	--	--	<2.0	--
MW-3	8/8/1989	P	37.92	15.80	--	22.12	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
MW-3	11/8/1989	P	37.92	14.85	--	23.07	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	1.04	--
MW-3	3/17/1987	NP	37.92	11.87	--	28.05	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
MW-3	8/13/1987	NP	37.92	15.48	--	22.44	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	--	<2.0
MW-3	3/12/1988	NP	37.92	13.54	--	24.38	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	--	<2.0
MW-3	8/17/1988	NP	37.92	16.95	--	20.97	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	--	<1.00
MW-3	3/17/1989	NP	37.92	11.02	--	28.90	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	--	--	--	<1.00

**Table 1**  
**Groundwater Gauging Data and Analytical Results**  
WA 6067  
8009 164TH AVE NE, REDMOND, WA 98052  
All analytical results are presented in micrograms per liter ( $\mu\text{g/L}$ )

Well	Date	Notes	TOC	DTW	NAPL	GWE	GNO	DRO	HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Total Lead	Disposal Lead
Model Toxics Control Act (MCA) Method A Cleanup Levels (CULS) in µg/L																		
MW-3	6/10/1994	NP	37.92	16.38	--	21.54	<50.0	--	--	<0.500	1.000	<0.500	<1.00	--	--	--	--	<1.00
MW-3	3/22/2001	NP	37.92	12.71	--	25.21	<50.0	<0.500	--	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--
MW-3	3/13/2001	NP	37.92	14.80	--	23.02	<50.0	<0.500	--	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--
MW-3	1/26/2003	NP	37.92	11.26	--	26.67	<50.0	<0.500	--	<0.500	0.989	<0.500	<1.00	--	--	--	--	--
MW-3	3/11/2004	NP	37.92	12.98	--	24.54	636	--	--	<0.500	4.37	<0.500	<1.00	--	--	--	--	--
MW-3	3/4/2005	NP	37.92	12.70	--	25.22	<50.0	<0.500	--	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--
MW-3	3/22/2006	NP	37.92	14.31	--	23.61	<80.0	<0.500	--	<0.500	<0.500	<0.500	<1.00	<2.00	--	--	--	--
MW-3	4/23/2007	NP	37.92	12.76	--	25.17	<50.0	<0.500	--	<0.500	<0.500	<0.500	<1.00	<1.00	--	--	--	--
MW-3	4/14/2008	NP	37.92	13.24	--	24.88	<50.0	<0.500	--	<0.500	<0.500	<0.500	<3.00	--	--	--	--	--
MW-3	2/26/2009	LF, a	37.92	13.11	--	24.51	<50.0	<0.500	<472	<0.500	0.2	<0.500	<3.00	--	--	--	--	--
MW-3	6/22/2010	NP	37.92	14.77	--	23.85	<50.0	<238	--	<0.500	<0.500	<0.500	<0.750	<1.00	<0.010	<2.00	<1.00	<1.00
MW-3	4/8/2011	NP	37.92	12.85	--	25.67	<50.0	--	--	<1.00	<1.00	<1.00	<3.00	<1.00	<0.010	<2.00	<2.00	<2.00
MW-3	4/8/2012	NP	37.92	12.87	--	25.62	<50.0	--	--	<1.0	<1.0	<1.0	<2.0	<1.0	<0.010	<1.0	<2.0	<2.0
MW-3	6/4/2013	NP	37.92	14.17	--	23.76	<50.0	<0.500	--	<1.0	<1.0	<1.0	<3.0	<1.0	<0.008	<1.0	<1.00	<1.00
MW-3	8/30/2013	LF	37.92	16.67	--	21.36	<50.0	<0.500	--	<0.500	<0.500	<0.500	<1.0	<0.500	<0.006	<0.500	<1.00	<1.00
MW-3	1/1/9/2013	LF	37.92	15.04	--	22.88	<50.0	<0.500	--	<0.500	<0.500	<0.500	<1.0	<0.500	<0.005	<0.500	<1.00	<1.00
MW-3	7/7/2013	LF	37.92	17.08	0.00	20.84	<10	<0.13	--	<0.14	0.25 J	<0.500	<0.48 J	<0.17 J	--	<0.16	<0.17 J	<2.0
MW-3	10/1/2014	LF	37.92	18.13	0.00	21.79	<10	<0.13	--	<0.14	<1.0	<1.0	<0.13	<0.17 J	--	<0.17 J	<0.17 J	<0.17 J
MW-3	1/8/2016	LF	37.92	12.11	0.00	26.81	20 JB	<0.13	--	<0.14	<0.16	<0.13	<0.12	<0.16	--	--	<0.17 J	<0.17 J
MW-3	4/22/2016	LF	37.92	13.76	0.00	24.17	<27	<0.42	--	<0.42	<0.44	<0.51	<0.82	<0.17	--	--	<0.17 J	<0.17 J
MW-3	7/27/2016	LF	37.92	16.63	--	22.39	<27	<0.42	--	<0.42	<0.44	<0.51	<0.82	<0.17	--	--	<0.17 J	<0.17 J
MW-3	10/22/2016	LF	37.92	18.83	--	22.36	<27	<0.42	--	<0.42	<0.44	<0.51	<0.82	<0.17	--	--	<0.17 J	<0.17 J
MW-3	11/21/2016	LF	37.92	12.83	--	25.09	<27	<0.42	--	<0.42	<0.44	<0.51	<0.82	<0.17	--	--	<0.17 J	<0.17 J
MW-3	4/12/2019	LF	37.92	13.79	--	24.13	<27	<0.42	--	<0.42	<0.44	<0.51	<0.82	<0.17	--	--	<0.17 J	<0.17 J
MW-3	6/18/2017	LF	37.92	17.44	0.00	20.48	<10	<0.13	--	<0.14	<0.16	<0.13	<0.12	<0.16	--	--	<0.17 J	<0.17 J
MW-4	11/21/1994	P	38.82	17.77	--	25.47	<50.0	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	35	--
MW-4	2/21/1995	P	38.82	13.36	--	26.47	<50.0	<0.5	--	<0.5	<0.5	<0.5	<1.0	--	--	--	2.2	--
MW-4	5/4/1996	P	38.82	15.06	--	23.78	<50.0	<0.5	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
MW-4	8/1/1996	P	38.82	16.63	--	22.28	<50.0	<0.5	--	<0.5	<0.5	<0.5	<1.0	--	--	--	11	--
MW-4	11/21/1996	P	38.82	16.80	--	22.02	<50.0	<0.5	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
MW-4	2/22/1998	NS	38.82	NM	--	NM	<50.0	P	--	<0.5	--	<0.5	<1.0	--	--	--	3.3	--
MW-4	5/21/1998	P	38.82	13.76	--	26.07	<50.0	<0.5	--	<0.5	<0.5	<0.5	<1.0	--	--	--	7.82	--
MW-4	8/8/1998	NS	38.82	16.89	--	21.93	<50.0	<0.5	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
MW-4	11/8/1998	P	38.82	15.96	--	22.87	<50.0	<0.5	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
MW-4	11/8/1998	P	38.82	15.96	--	22.87	<50.0	<0.5	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
MW-4	3/17/1997	NP	38.82	12.94	--	26.88	<50.0	<0.5	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
MW-4	8/13/1997	NP	38.82	16.66	--	22.26	<50.0	<0.5	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
MW-4	3/12/1998	NP	38.82	14.62	--	24.20	<50.0	<0.5	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<1.0	--
MW-4	8/17/1998	NS	38.82	NM	--	NM	<50.0	--	--	<0.5	--	<0.5	<1.0	--	--	--	<1.0	--
MW-4	3/17/1999	NS	38.82	NM	--	NM	<50.0	--	--	<0.5	--	<0.5	<1.0	--	--	--	<1.0	--
MW-4	8/10/1999	DRY	38.82	DRY	--	DRY	<50.0	--	--	<0.5	--	<0.5	<1.0	--	--	--	<1.0	--
MW-4	3/22/2000	DRY	38.82	DRY	--	DRY	<50.0	--	--	<0.5	--	<0.5	<1.0	--	--	--	<1.0	--
MW-4	3/13/2001	DRY	38.82	DRY	--	DRY	<50.0	--	--	<0.5	--	<0.5	<1.0	--	--	--	<1.0	--
MW-4	2/26/2002	NP	38.82	12.40	--	26.42	<50.0	<0.500	--	<0.500	1.01	<0.500	<1.00	<1.00	--	--	<1.00	--
MW-4	1/26/2003	DRY	38.82	DRY	--	DRY	<50.0	--	--	<0.500	--	<0.500	<1.00	--	--	--	<1.00	--
MW-4	3/11/2004	DRY	38.82	13.78	--	26.06	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	--	--	<1.00	--
MW-4	3/4/2005	DRY	38.82	DRY	--	DRY	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	--	--	<1.00	--

Table 1  
Groundwater Gauging Data and Analytical Results  
8009 164TH AVE NE, REDMOND, WA 98052  
WA 6067  
All analytical results are presented in micrograms per liter (µg/L)

Well	Date	Notes	TOC	DTW	NAPL	GME	GRO	DRO	HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Total Lead	Dissolved Lead
Model Toxics Control Act (MTCAL) Method A Cleanup Levels (CULS) in µg/L							800/1,000	500	500	5	1,000	700	1,000	20	0.01	5	15	15
MW-4	3/2/2006	DRY	38.82	DRY	--	DRY	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	4/23/2007	NP	38.82	14.36	--	24.46	<50.0	--	--	<0.500	<0.500	<0.500	<3.00	--	--	--	--	--
MW-4	4/14/2008	NP	38.82	14.18	--	24.64	<50.0	--	--	<0.500	<0.500	<0.500	<3.00	--	--	--	--	--
MW-4	2/25/2009	LF, a	38.82	15.64	--	22.88	<50.0	<238	<472	<0.200	<0.200	<0.200	<0.750	<1.00	<0.010	<0.200	<1.00	<1.00
MW-4	6/22/2010	NP	38.82	13.88	--	24.64	<50.0	--	--	<1.00	<1.00	<1.00	<3.00	<1.00	<0.010	<1.00	<2.00	<2.00
MW-4	4/6/2011	NP	38.82	13.06	--	26.78	<50.0	--	--	<1.0	<1.0	<1.0	<2.0	<1.0	<0.008	<1.0	<2.0	<2.0
MW-4	4/16/2012	NP	38.82	14.05	--	24.77	<50.0	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	<0.008	<1.0	<10.0	<10.0
MW-4	6/4/2013	LF	38.82	15.25	--	23.57	<50.0	--	--	<0.50	<0.50	<0.50	<1.0	<0.50	<0.006	<0.50	<10.0	<10.0
MW-4	6/6/2013	LF	38.82	15.30	--	23.52	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	8/20/2013	LF	38.82	17.82	--	21.20	<50.0	--	--	<0.50	<0.50	<0.50	<1.0	<0.50	<0.007	<0.50	<10.0	<10.0
MW-4	11/18/2013	LF	38.82	16.05	--	22.77	<50.0	--	--	<0.50	0.80	<0.50	<1.0	<0.50	<0.006	<0.50	<10.0	<10.0
MW-4	7/7/2014	LF	38.82	19.10	0.00	30.72	<10	--	--	<0.14	<0.16	<0.13	0.18/8	<0.17	--	<0.16	<0.17	0.17/1
MW-4	10/1/2014	LF	38.82	17.23	0.00	21.94	<50	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	<2.0	<2.0
MW-4	1/9/2015	LF	38.82	13.11	0.00	26.71	17.38	--	--	<1.0	<0.16	<0.13	<0.12	--	--	--	<2.0	<2.0
MW-4	4/22/2015	LF	38.82	14.63	0.00	23.66	<27	--	--	<0.42	<0.44	<0.51	<0.62	--	--	--	<0.17	<0.17
MW-4	7/27/2015	LF	38.82	17.57	--	21.26	<27	--	--	<0.42	<0.44	<0.51	<0.62	--	--	--	<0.17	<0.17
MW-4	10/22/2015	LF	38.82	16.61	--	22.21	<27	--	--	<0.42	<0.44	<0.51	<0.62	--	--	--	<0.17	<0.17
MW-4	1/2/2016	LF	38.82	13.88	--	24.64	<27	--	--	<0.42	<0.44	<0.51	<0.62	--	--	--	<0.17	<0.17
MW-4	4/12/2016	LF	38.82	14.90	--	23.92	<27	--	--	<0.42	<0.18	<0.21	<0.78	--	--	--	<0.17	<0.17
MW-4	5/18/2017	LF	38.82	18.24	0.00	20.58	<31.6	--	--	<0.331	<0.412	<0.384	<1.06	--	--	--	<0.240	--
MW-5	11/2/1984	P	38.31	17.09	--	21.22	<50	--	--	<0.5	<0.5	<0.5	<3.0	--	--	--	90	--
MW-5	2/21/1985	P	38.31	12.65	--	25.68	320	--	--	<0.5	<0.5	<0.5	3.8	--	--	--	<2.0	--
MW-5	5/4/1985	P	38.31	14.35	--	23.98	<50	--	--	<0.5	<0.5	<0.5	1.3	--	--	--	<2.0	--
MW-5	8/1/1985	P	38.31	16.53	--	21.78	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
MW-5	11/2/1985	P	38.31	16.14	--	22.17	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
MW-5	2/22/1986	P	38.31	9.80	--	28.41	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
MW-5	5/21/1986	NS	38.31	13.03	--	26.28	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	8/8/1986	P	38.31	16.17	--	22.14	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
MW-5	11/8/1986	P	38.31	15.25	--	23.00	97.6	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	8.05	--
MW-5	3/17/1987	NP	38.31	12.28	--	26.02	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
MW-5	8/13/1987	NP	38.31	15.88	--	22.45	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
MW-5	3/12/1988	NS	38.31	13.82	--	24.38	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	8/17/1988	NP	38.31	17.41	--	20.90	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<1.0	<1.0
MW-5	3/17/1989	NP	38.31	11.48	--	26.85	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	--	--	<1.00	<1.00
MW-5	8/10/1989	NS	38.31	16.80	--	21.51	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	3/22/2000	NP	38.31	13.17	--	26.14	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	<1.00	--	--	--	--
MW-5	3/13/2001	NP	38.31	15.30	--	23.01	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	<1.00	--	--	--	--
MW-5	2/25/2002	NP	38.31	11.75	--	26.86	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	<1.00	--	--	--	--
MW-5	1/29/2003	NP	38.31	13.22	--	26.08	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	<1.00	--	--	--	--
MW-5	3/1/2004	NP	38.31	13.06	--	26.22	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	<1.00	--	--	--	--
MW-5	3/4/2005	NP	38.31	14.67	--	23.64	<50.0	--	--	<0.200	<0.500	<0.500	<1.00	<1.00	--	--	--	--
MW-5	3/2/2006	NP	38.31	13.04	--	26.27	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	<1.00	--	--	--	--
MW-5	4/23/2007	NP	38.31	13.64	--	24.67	<50.0	--	--	<0.500	<0.500	<0.500	<3.00	--	--	--	--	--
MW-5	4/14/2008	NP	38.31	13.48	--	24.82	<50.0	--	--	<0.500	<0.500	<0.500	<3.00	--	--	--	--	--
MW-5	2/25/2009	LF, a	38.31	15.05	--	23.28	<50.0	<238	<472	<0.200	<0.200	<0.200	<0.750	<1.00	<0.010	<0.200	<1.00	<1.00
MW-5	6/22/2010	NP	38.31	13.20	--	26.11	<50.0	--	--	<1.00	<1.00	<1.00	<3.00	<1.00	<0.010	<1.00	<2.00	<2.00
MW-5	4/6/2011	NP	38.31	12.55	--	26.98	<50	--	--	<1.0	<1.0	<1.0	<2.0	<1.0	<0.008	<1.0	<10.0	<10.0
MW-5	4/16/2012	NP	38.31	13.30	--	26.01	<50	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	<0.008	<1.0	<10.0	<10.0

Table 1  
Groundwater Gauging Data and Analytical Results  
8009 164TH AVE NE, REDMOND, WA 98052  
WA 6067  
All analytical results are presented in micrograms per liter (µg/L)

Well	Date	Notes	TOC	DTW	NAPL	GWE	GRO	DRO	HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Total Lead	Dissolved Lead
<b>Model Toxics Control Act (MTCOA) Method A Cleanup Levels (CULs) in µg/L</b>																		
MM-5	6/4/2013	LF	38.31	14.65	--	23.76	<50	--	--	<0.50	0.5	<0.50	<1.0	<0.50	<0.0067	<0.50	<10.0	<10.0
MM-5	8/50/2013	LF	38.31	16.98	--	21.33	<50	--	--	<0.50	<0.50	<0.50	<1.0	<0.50	<0.0067	<0.50	<10.0	<10.0
MM-5	11/19/2013	LF	38.31	15.46	--	22.85	<50	--	--	<0.50	<0.50	<0.50	<1.0	<0.50	<0.0067	<0.50	<10.0	<10.0
MM-5	7/7/2014	LF	38.31	17.52	0.00	20.79	<10	--	--	<0.14	<0.16	<0.13	0.18 LB	<0.17	--	<0.16	<0.17	<2.0
MM-5	10/1/2014	LF	38.31	17.00	0.00	21.31	<50	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	<2.0	<2.0
MM-5	1/6/2015	LF	38.31	12.40	0.00	25.81	15. LB	--	--	<0.14	<0.16	<0.13	<0.12	--	--	--	<0.17	<0.17
MM-5	4/2/2015	LF	38.31	14.13	0.00	24.18	<27	--	--	<0.42	<0.44	<0.51	<0.62	--	--	--	6	<0.17
MM-5	7/27/2015	LF	38.31	16.95	--	21.36	<27	--	--	<0.42	<0.44	<0.51	<0.62	--	--	--	<0.17	<0.17
MM-5	10/22/2015	LF	38.31	15.66	--	22.32	<27	--	--	<0.42	<0.44	<0.51	<0.62	--	--	--	<0.17	<0.17
MM-5	11/1/2016	LF	38.31	13.19	--	25.12	<27	--	--	<0.42	<0.44	<0.51	<0.62	--	--	--	0.37 J	<0.17
MM-5	4/12/2016	LF	38.31	14.15	--	24.16	<27	--	--	<0.42	<0.18	<0.21	<0.79	--	--	--	0.50 J	<0.17
MM-5	5/18/2017	LF	38.31	17.82	0.00	20.48	<31.6	--	--	<0.331	<0.412	<0.394	<1.06	--	--	--	<0.240	--
MM-5	5/18/2017	LF, DUP	38.31	17.82	0.00	20.48	<31.6	--	--	<0.331	<0.412	<0.394	<1.06	--	--	--	--	--
SVE-1	11/2/1964	P	38.06	17.33	--	21.33	<60	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
SVE-1	2/21/1965	P	38.06	12.74	--	26.62	270	--	--	<0.5	<0.5	0.67	4.3	--	--	--	<2.0	--
SVE-1	5/4/1965	P	38.06	14.5	--	24.16	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
SVE-1	8/1/1965	P	38.06	16.74	--	21.92	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
SVE-1	11/2/1965	P	38.06	18.36	--	22.31	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
SVE-1	2/22/1966	P	38.06	10.10	--	28.66	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
SVE-1	5/21/1966	P	38.06	13.25	--	26.41	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
SVE-1	8/8/1966	P	38.06	16.39	--	22.27	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
SVE-1	11/8/1966	P	38.06	15.45	--	23.21	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<2.0	--
SVE-1	3/17/1967	NS	38.06	12.40	--	26.26	--	--	--	--	--	--	--	--	--	--	--	--
SVE-1	8/13/1967	NS	38.06	16.09	--	22.67	--	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<1.0	<1.0
SVE-1	3/12/1968	NP	38.06	14.10	--	24.66	<60	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<1.0	<1.0
SVE-1	8/17/1968	NP	38.06	17.58	--	21.02	<60	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--	<1.0	<1.0
SVE-1	3/17/1968	NP	38.06	11.58	--	21.08	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	--	--	<1.00	<1.00
SVE-1	8/10/1968	NS	38.06	17.05	--	21.61	--	--	--	--	--	--	--	--	--	--	--	--
SVE-1	3/22/2000	NP	38.06	13.27	--	26.38	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	--	--	<1.00	<1.00
SVE-1	3/19/2001	NP	38.06	16.50	--	23.16	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	<1.00	--	--	<1.00	<1.00
SVE-1	2/25/2002	NP	38.06	11.85	--	26.81	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	<1.00	--	--	<1.00	<1.00
SVE-1	11/29/2003	NP	38.06	13.37	--	26.29	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	<1.00	--	--	<1.00	<1.00
SVE-1	3/11/2004	NP	38.06	13.22	--	26.44	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	<2.00	--	--	<1.00	<1.00
SVE-1	3/4/2005	NP	38.06	14.91	--	23.75	<80.0	--	--	<0.500	<0.500	<0.500	<1.00	<2.00	--	--	<1.00	<1.00
SVE-1	3/2/2006	NP	38.06	13.30	--	26.36	<50.0	--	--	<0.500	<0.500	<0.500	<3.00	<1.00	--	--	<1.00	<1.00
SVE-1	4/23/2007	NP	38.06	13.77	--	24.89	<50.0	--	--	<0.500	<0.500	<0.500	<3.00	<1.00	--	--	<1.00	<1.00
SVE-1	4/14/2008	NP	38.06	13.62	--	26.04	<50.0	--	--	<0.500	<0.500	<0.500	<3.00	<1.00	--	--	<1.00	<1.00
SVE-1	2/25/2009	LF, a	38.06	15.13	--	23.63	<50.0	<38	<472	<1.00	<1.00	<1.00	<0.750	<1.00	<0.010	<0.200	<1.00	<1.00
SVE-1	6/22/2010	NP	38.06	13.42	--	26.24	<50.0	--	--	<1.0	<1.00	<1.00	<3.00	<1.00	<0.010	<1.00	<2.00	<2.00
SVE-1	4/8/2011	NP	38.06	12.52	--	26.14	<50	--	--	<1.0	<1.0	<1.0	<2.0	<1.0	<0.007	<1.0	<2.0	<2.0
SVE-1	4/18/2012	NP	38.06	13.45	--	26.21	<50	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	<0.007	<1.0	<2.0	<2.0
SVE-1	6/4/2013	LF	38.06	14.68	--	23.68	<50	--	--	<0.50	<0.50	<0.50	<1.0	<0.50	<0.006	<0.50	<10.0	<10.0
SVE-1	8/30/2013	LF	38.06	17.24	--	21.42	<50	--	--	<0.50	<0.50	<0.50	<1.0	<0.50	<0.006	<0.50	<10.0	<10.0
SVE-1	11/19/2013	LF	38.06	16.72	--	22.64	<50	--	--	<0.50	0.82	<0.50	<1.0	<0.50	<0.006	<0.50	<10.0	<10.0
SVE-1	7/7/2014	LF	38.06	17.78	0.00	20.83	<10	--	--	<0.14	<0.16	<0.13	0.14 LB	<0.17	--	--	<0.17	<0.17
SVE-1	10/1/2014	LF	38.06	17.10	0.00	21.63	<10	--	--	<0.14	<0.16	<0.13	<0.12	<0.17	--	--	<0.17	<0.17
SVE-1	1/6/2015	LF	38.06	12.64	0.00	23.02	14. LB	--	--	<0.14	<0.16	<0.13	<0.12	<0.17	--	--	<0.17	<0.17
SVE-1	4/2/2015	LF	38.06	14.3	0.00	24.38	<27	--	--	<0.42	<0.44	<0.51	<0.62	<0.17	--	--	<0.17	<0.17



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WA 6067  
8009 164TH AVE NE, REDMOND, WA 98052  
All analytical results are presented in micrograms per liter (µg/L)

Well	Date	Notes	TOC	DTW	NAPL	GWE	GRO	DRO	HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Total Lead	Dissolved Lead
Model Toxics Control Act (MTCOA) Method A Cleanup Levels (CULs) in µg/L																		
SVE-1	7/27/2016	LF	38.66	17.20	--	21.46	<27	--	--	<0.42	<0.44	<0.51	<0.62	--	--	--	<0.034	<0.17
SVE-1	10/22/2016	LF	38.66	16.22	--	22.44	<27	--	--	<0.42	<0.44	<0.51	<0.62	--	--	--	<0.17	<0.17
SVE-1	1/21/2016	LF	38.66	13.32	--	26.34	<27	--	--	<0.42	<0.44	<0.51	<0.62	--	--	--	<0.17	<0.17
SVE-1	4/12/2016	LF	38.66	14.33	--	24.33	<27	--	--	<0.42	<0.18	<0.21	<0.79	--	--	--	<0.17	<0.17
SVE-1	6/18/2017	LF	38.66	18.29	0.00	20.37	<31.8	--	--	<0.331	<0.412	<0.384	<1.06	--	--	--	<0.240	--

Notes:  
-- = Not analyzed/not applicable  
< = Analytical result is less than reporting limit shown  
**BOLD** = constituent detected above MTCOA Cleanup Levels  
TOC = Top of casing in feet North American Vertical Datum of 1988 (NAVD 88)  
DTW = Depth to water in feet below TOC  
NAPL = Non-aqueous phase liquid thickness in feet  
GWE = Groundwater elevation in feet NAVD 88  
GRO = Gasoline Range Organics analyzed by Ecology Method NMTPH-Gx  
DRO = Diesel Range Organics analyzed by Ecology Method NMTPH-Dx  
HO = Heavy Oil Range Organics analyzed by Ecology Method NMTPH-Dx  
MTBE = Methyl tertiary butyl ether  
EDB = Ethylene dibromide  
EDC = 1,2-Dichloroethane  
8001.000 = GRO MTCOA Method A CUL with benzene present is 800 µg/L and without is 1,000 µg/L  
NS = Not sampled  
NM = Not Measured  
LF/LFP = Low flow (purge) sample  
DUP = Duplicate sample  
J = estimated value - The result is greater than or equal to the Method Detection Limit (MDL) and less than the Limit of Quantitation (LOQ)  
B = Compound was found in the blank and sample  
P = Purge sample  
NP = No purge sample  
a = Drawdown greater than 3 feet observed during sampling  
b = Analyzed outside of the method specified holding time due to laboratory oversight  
GRO, DRO, HO analyzed by Ecology Northwest Methods: Benzene, toluene, ethylbenzene, and total xylenes (BTEx), MTBE, and EDB by 8280B; Lead by U.S. Environmental Protection Agency (EPA) 8000/7000 Series; EDC by EPA 8011  
FI = MS and/or MSD Recovery is outside acceptance limits.