

**GROUNDWATER MONITORING REPORT
(4th Quarter 2019 Event)**

**Phillips 66 Facility No. 2701476 (AOC #2063)
12660 First Avenue South
Seattle, Washington 98168
Washington State Department of Ecology LUST Program ID #5748
Washington State Department of Ecology VCP No. NW2718**

**Submitted to:
Ms. Diane Escobedo
Washington State Department of Ecology
3190 160th Avenue Southeast
Bellevue, Washington 98008-5452**

**Submitted on behalf of:
Ed Ralston
Phillips 66 Company
Remediation Management
76 Broadway
Sacramento, California 95818**

**Submitted by:
ATC Group Services LLC
6347 Seaview Avenue Northwest
Seattle, Washington 98107**

**ATC Project No. Z076000070
April 3, 2020**

**Joseph Teresi
Staff Scientist**

**Elisabeth Silver, L.G.
Senior Project Manager**

GROUNDWATER MONITORING REPORT**(4th Quarter 2019 Event)**

Phillips 66 Facility No. 2701476 (AOC #2063)

12660 First Avenue South

Seattle, Washington 98168

SITE INFORMATION:

ATC Contact Person:	Elisabeth Silver, L.G.
Date of previous sampling event:	09/12/19-09/13/19
Current remediation technique(s):	None. Above ground Vapor and Groundwater Extraction/Air Sparge System Components Decommissioned in September 2016.
Ecology VCP Number:	NW2718

FIELD ACTIVITY 12/11 – 12/12/19:

Date(s) monitored and/or sampled:	12/11/19-12/12/19
Wells monitored:	Nine: GW-10D, GW-13S, GW-13D, GW-14S, GW-14D, GW-15S, GW-15D, GW-18S, GW-18D
Wells sampled:	Eight wells (All wells sampled except well GW-18S due to insufficient water)
Purging method:	Wells were purged prior to sampling using low flow pumping via a submersible pump and dedicated tubing.
Sampling method:	Samples were collected using low flow pumping via a submersible pump and dedicated polyethylene tubing.

SITE HYDROGEOLOGY 12/11 – 12/12/19:

Minimum depth to groundwater (feet below top of casing [TOC]):	40.00 (GW-13S, upper water bearing zone).
Maximum depth to groundwater (feet below TOC):	79.00 (GW-10D, lower water bearing zone).
Average groundwater elevation (feet):	371.62 (Upper water bearing zone - GW-13S, GW-14S, GW-15S, and GW-18S) and 341.70 (Lower water bearing zone - GW-10D, GW-13D, GW-14D, GW-15D, and GW-18D)
Change in average groundwater elevation since previous monitoring event (feet):	+0.33 (upper water bearing zone); +0.38 (lower water bearing zone)
Approximate groundwater gradient/flow direction:	0.16 ft./ft. southwest (upper water bearing zone); 0.016 ft./ft. southwest, (lower water bearing zone)
Previous groundwater gradient/flow direction (09/12/19-09/13/19):	0.13 ft./ft. southwest (upper water bearing zone); 0.014 ft./ft. southwest (lower water bearing zone)

GROUNDWATER CONDITIONS 12/11 – 12/12/19:

Minimum dissolved phase gasoline-range hydrocarbon concentration excluding “non-detects” (micrograms per liter [µg/L]):	39.9J (GW-14D – lower water bearing zone)
Maximum dissolved phase gasoline-range hydrocarbon concentration (µg/L):	114,000 (GW-14S – upper water bearing zone)
Maximum dissolved phase gasoline-range hydrocarbon concentration (µg/L) observed previous sampling event (September, 2019):	93,400 (GW-14S – upper water bearing zone)
Minimum dissolved phase benzene concentration excluding “non-detects” (micrograms per liter [µg/L]):	0.32J (GW-18S – upper water bearing zone)
Maximum dissolved phase benzene concentration (µg/L):	693 (GW-14S – upper water bearing zone)
Maximum dissolved phase benzene concentration (µg/L) observed previous sampling event (September, 2019):	671 (GW-14D – lower water bearing zone)
Minimum dissolved phase toluene concentration excluding “non-detects” (micrograms per liter [µg/L]):	0.16J (GW-14D and GW-15D – lower water bearing zones)
Maximum dissolved phase toluene concentration (µg/L):	3,900 (GW-14S – upper water bearing zone)
Maximum dissolved phase toluene concentration (µg/L) observed previous sampling event (September, 2019):	3,660 (GW-14S – upper water bearing zone)
Minimum dissolved phase ethylbenzene concentration excluding “non-detects” (micrograms per liter [µg/L]):	0.15J (GW-15S – upper water bearing zone)
Maximum dissolved phase ethylbenzene concentration (µg/L):	2,430 (GW-14S – upper water bearing zone)

GROUNDWATER MONITORING REPORT

(4th Quarter 2019 Event)

Phillips 66 Facility No. 2701476 (AOC #2063)

12660 First Avenue South

Seattle, Washington 98168

Maximum dissolved phase ethylbenzene concentration (µg/L) observed previous sampling event (September, 2019):	2,840 (GW-14S – upper water bearing zone)
Minimum dissolved phase total xylenes concentration excluding “non-detects” (µg/L):	17.6 (GW-15S – upper water bearing zone)
Maximum dissolved phase total xylenes concentration (µg/L):	11,400 (GW-14S – upper water bearing zone)
Maximum dissolved phase total xylenes concentration (µg/L) observed previous sampling event (September, 2019):	13,700 (GW-14S – upper water bearing zone)
Minimum total lead concentration excluding “non-detects” (µg/L):	2.3J (GW-13S – upper water bearing zone)
Maximum total lead concentration (µg/L):	5.0J (GW-13D – lower water bearing zone)
Maximum total lead concentration (µg/L) observed previous sampling event (September, 2019):	11.1 (GW-14S – upper water bearing zone)
Minimum dissolved lead concentration excluding “non-detects” (µg/L):	All other wells “non-detect”
Maximum dissolved lead concentration (µg/L):	2.2J (GW-14S – upper water bearing zone)
Maximum dissolved lead concentration (µg/L) observed previous sampling event (September, 2019):	All wells “non-detect”

ADDITIONAL INFORMATION AND COMMENTS:

Based on historical quarterly data without exceedances of Model Toxics Control Act (MTCA) Method A Cleanup Levels (CULs), groundwater gauging and sampling were discontinued in the 3rd quarter 2019 in the following wells: GW7, GW8S, GW8D, GW9D, GW10S, GW11D, GW12D, GW16S, GW16D, GW17S, and GW17D.

Shallow Water Bearing Zone: During the December, 2019 event, gasoline-range hydrocarbons were detected at concentrations above MTCA Method A CULs in wells GW-13S and GW-14S. Benzene was detected at concentrations above the MTCA Method A CUL in GW-13S and GW-14S. Toluene, ethylbenzene, and total xylenes were detected at concentrations above MTCA Method A CULs in GW-14S, but were detected below MTCA Method A CULs in GW-13S. Gasoline-range hydrocarbons and BTEX (benzene, toluene, ethylbenzene, and xylenes) were detected below MTCA Method A CUL levels in GW-15S. Total lead was detected below the MTCA Method A CUL level in GW-13S and GW-14S and was detected below the laboratory reporting limit in GW-15S. Dissolved lead was detected below the MTCA Method A CUL level in GW-14S.

Deep Water Bearing Zone: Due to a prior anomalous diesel range detection in GW-10D in December 2014, diesel and heavy oil-range hydrocarbons were analyzed in the sample collected from GW-10D starting in the third quarter 2019. Diesel and heavy oil-range hydrocarbons were detected in GW-10D below the laboratory reporting limit. Gasoline-range hydrocarbons were detected in GW-13D, GW-14D, and GW-15D below the MTCA Method A CUL levels and below the laboratory reporting limit in GW-10D and GW-18D. Benzene was detected in GW-14D and GW-18D below the MTCA Method A CUL level and was not detected in the rest of the groundwater samples from the deep water bearing zone. Toluene and ethylbenzene were detected in GW-14D and GW-15D below the MTCA Method A CUL level and were not detected in the rest of the groundwater samples from the deep water bearing zone. Xylenes were not detected in any of the groundwater samples from the deep water bearing zone. Total lead was detected in GW-13D, GW-14D, GW-15D, and GW-18D below the MTCA Method A CUL level and was not detected in GW-10D. Dissolved lead was not detected in GW-10D, GW-13D, and GW-14D.

Dissolved lead samples were not collected from wells GW-13S, GW-15S, GW-15D, and GW-18D due to insufficient bottle ware.

Conclusions/Recommendations

Fourth quarter groundwater monitoring and sampling indicate that groundwater flow was to the southwest in both the upper and lower water bearing zones. Hydrocarbon-related impacts above Method A CULs are limited to the area to the south and southeast of the southern dispensers in the upper zone, and to the south and east of the southern dispensers in the lower water bearing zone. ATC will continue to monitor these observed trends in the monitoring well network to gain a better understanding of groundwater conditions at the Site.

ATTACHMENTS:

Figure 1 Groundwater Potentiometric Map – Upper Water Bearing Zone (12/11/19 – 12/12/19)

Figure 2 Groundwater Potentiometric Map – Lower Water Bearing Zone (12/11/19 – 12/12/19)

Figure 3 Analytical Results Map (12/11/19 – 12/12/19)

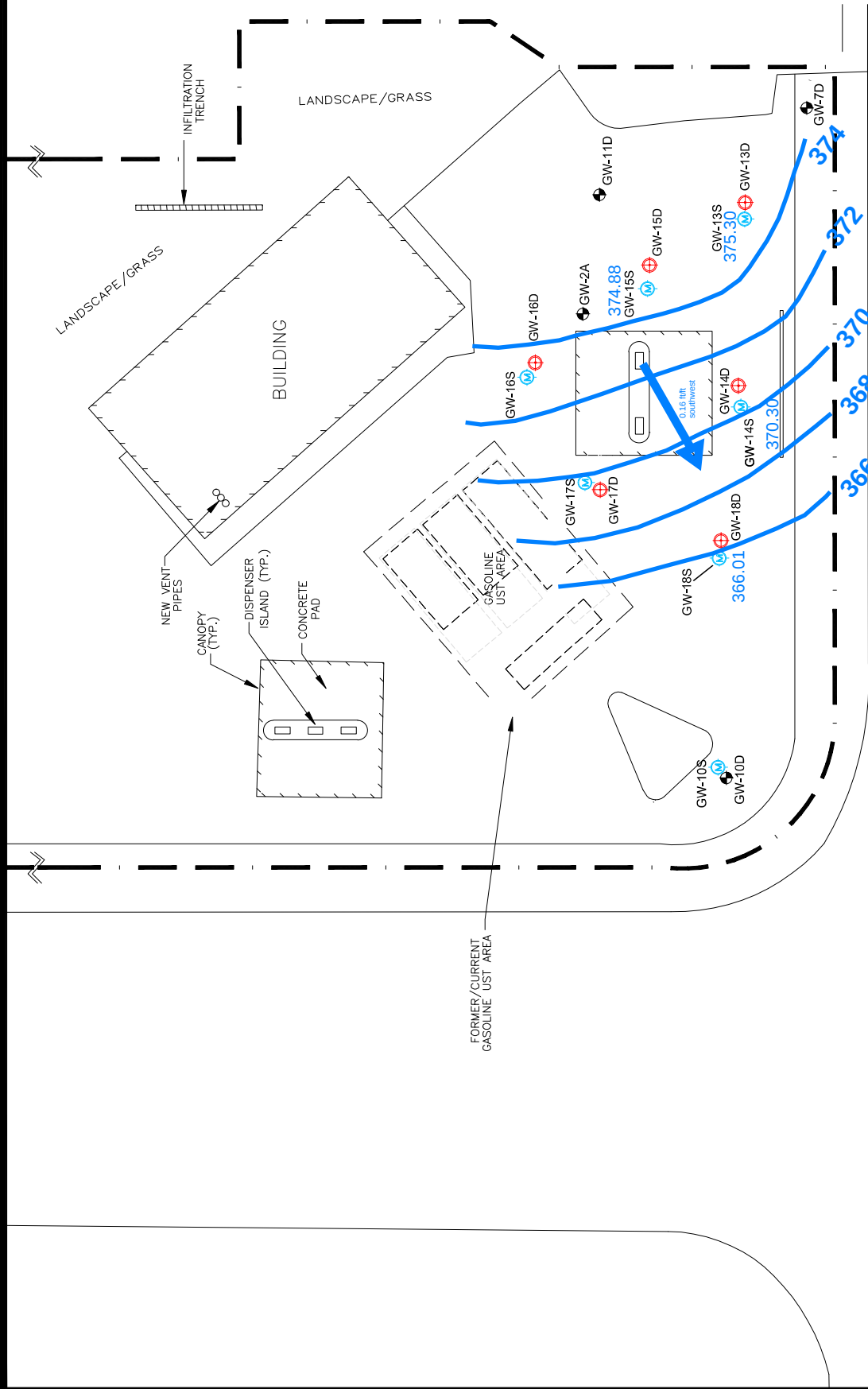
Table 1 Summary of Historical Groundwater Gauging and Laboratory Analytical Data

Appendix A Laboratory Analytical Data Reports and Chain of Custody Documents

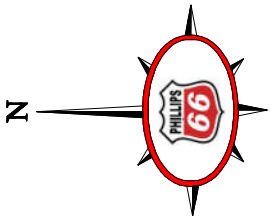
Appendix B Field Reports / Groundwater Gauging and Sampling Logs

Appendix C Non-hazardous Waste Documentation

FIGURES



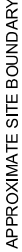
SOUTHWEST 128TH STREET

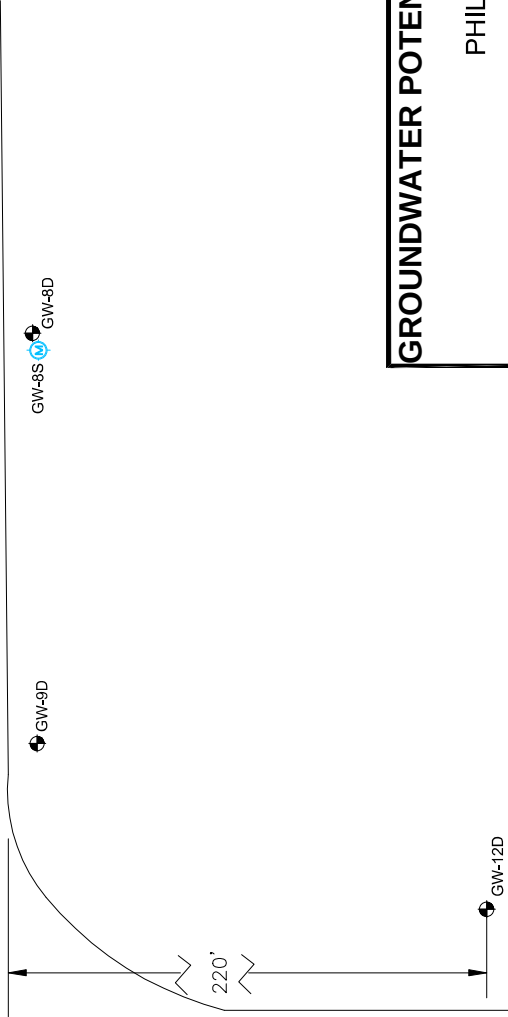


SCALE, FT

NOTE: ALL LOCATIONS ARE APPROXIMATE

LEGEND

-  SHALLOW MONITORING WELL
-  DEEP MONITORING WELL
-  APPROXIMATE SITE BOUNDARY
-  APPROXIMATE SITE BOUNDARY
-  369.05
-  370
-  GROUNDWATER ELEVATION CONTOUR
- 
INFERRED GROUNDWATER FLOW DIRECTION /
CALCULATED GROUNDWATER GRADIENT (FEET PER FOOT)
- 
0.16 ft/ft southwest



GROUNDWATER POTENTIOMETRIC MAP - UPPER WATER BEARING ZONE
(12/11/2019 – 12/12/2019)

PHILLIPS 66 FACILITY NO. 2701476 (AOC 2063)
12660 FIRST AVENUE SOUTH
SEATTLE, WASHINGTON

PROJECT NUMBER: 2076000070

DATE: 1/2/2020

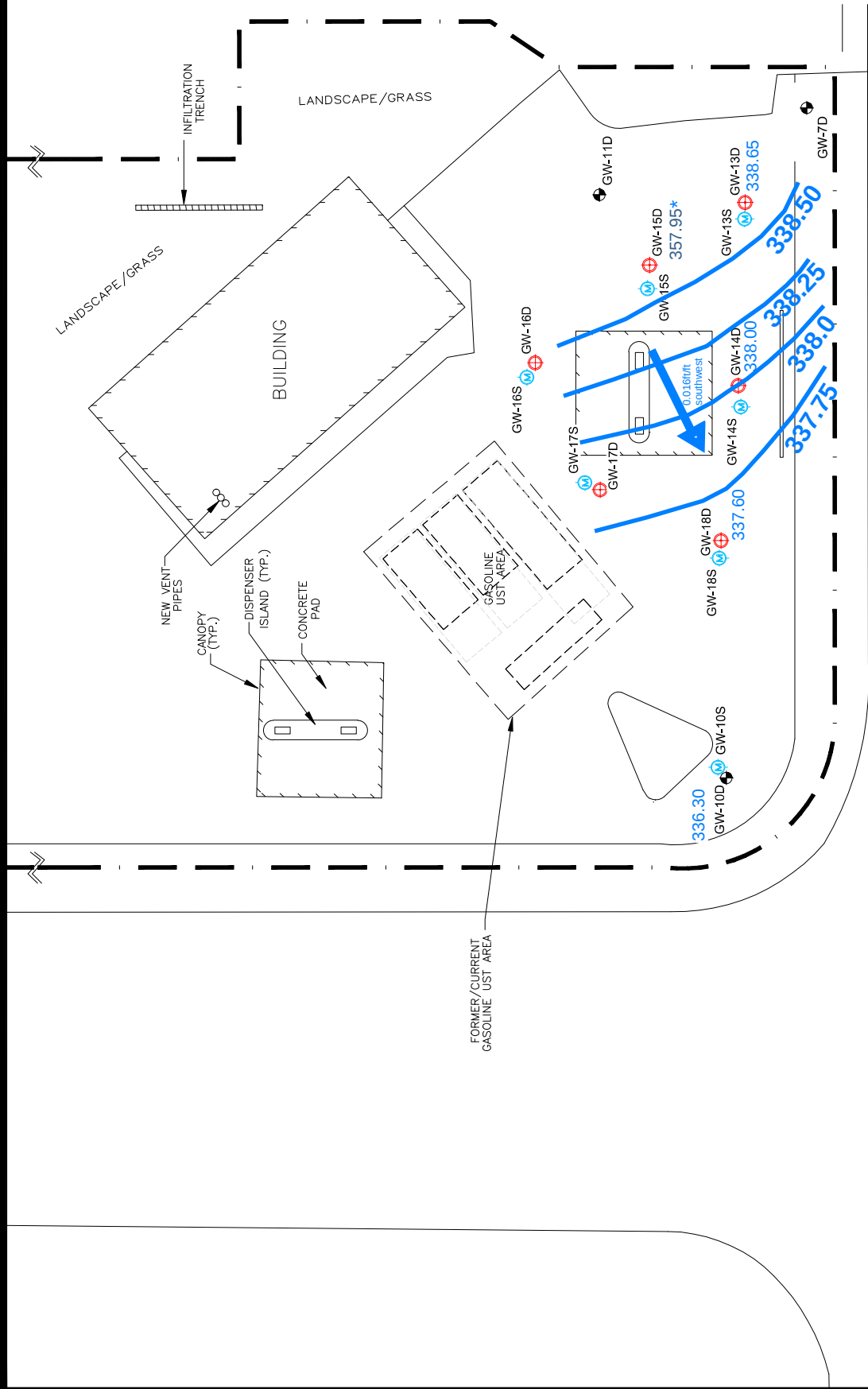
APPROVED BY: ES

DRAWN BY: JT

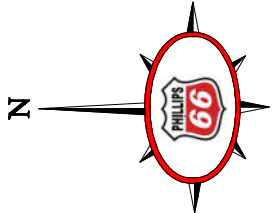
FIGURE 1



6347 Seaview Avenue NW
Seattle, Washington 98107
Ph: (206) 781-1449 *** Fax: (206) 781-1543



SOUTHWEST 128TH STREET



1ST AVENUE SOUTH



SCALE, FT

NOTE: ALL LOCATIONS ARE APPROXIMATE

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- APPROXIMATE SITE BOUNDARY
- GROUNDWATER ELEVATION
- GROUNDWATER ELEVATION (NOT USED FOR CONTOURING)
- GROUNDWATER ELEVATION CONTOUR
- INFERRED GROUNDWATER FLOW DIRECTION / CALCULATED GROUNDWATER GRADIENT (FEET PER FOOT)

GROUNDWATER POTENTIOMETRIC MAP - LOWER WATER BEARING ZONE
(12/11/2019 – 12/12/2019)
PHILLIPS 66 FACILITY NO. 2701476 (AOC 2063)
12660 FIRST AVENUE SOUTH
SEATTLE, WASHINGTON

PROJECT NUMBER: 2076000070

DATE: 1/2/2020

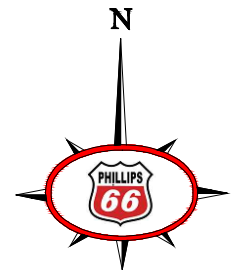
FIGURE 2

APPROVED BY: ES

DRAWN BY: JT

6347 Seaview Avenue NW
Seattle, Washington 98107
Ph: (206) 781-1449 *** Fax: (206) 781-1543

S:\Projects\7675000 COP\2063\GWA_121118.dwg



SCALE, FT

NOTE: ALL LOCATIONS ARE APPROXIMATE

1ST AVENUE SOUTH

SOUTHWEST 128TH STREET

FORMER/CURRENT
GASOLINE UST AREA

GW-10D

TPHg	<38.3
TPHd	<67.7
TPHo	<79.9
B	<0.10
T	<0.083
E	<0.14
X	<0.31
TOTAL Pb	<2.0
DISS Pb	<2.0

GW-18D

TPHg	<38.3
B	0.32J
T	<0.083
E	<0.14
X	<0.31
TOTAL Pb	3.4J

GW-14S

TPHg	114,000
B	693
T	3,900
E	2,430
X	11,400
TOTAL Pb	2.5J
DISS Pb	2.2J

GW-14D

TPHg	39.9J
B	1.5
T	0.16J
E	0.15J
X	<0.31
TOTAL Pb	4.4J
DISS Pb	<2.0

GW-15D

TPHg	61.8J
B	<0.10
T	0.16J
E	0.28J
X	<0.31
TOTAL Pb	2.4J

GW-15S

TPHg	470
B	0.65J
T	1.1
E	12.0
X	17.6
TOTAL Pb	<2.0

GW-13S

TPHg	6,150
B	34.2
T	9.9
E	144
X	257
TOTAL Pb	2.3J

GW-13D

TPHg	66.9J
B	<0.10
T	<0.083
E	<0.14
X	<0.31
TOTAL Pb	5.0J
DISS Pb	<2.0

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- DECOMMISSIONED MONITORING WELL
- AIR SPARGE WELL (1994)
- AIR SPARGE POINT (1998)
- MONITORING WELL (1992 and 1994/1995)

APPROXIMATE SITE BOUNDARY

TPHg	5,740	TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
B	6.9	BENZENE
T	1.8	TOLUENE
E	99.1	ETHYLBENZENE
X	190	TOTAL XYLENES
TOTAL Pb	<2.0	TOTAL LEAD
DISS Pb	<2.0	DISSOLVED LEAD

ALL ANALYTICAL RESULTS REPORTED IN MICROGRAMS PER LITER ($\mu\text{g/L}$)

BOLD CONCENTRATION EQUAL TO OR EXCEEDS MTCA METHOD-A CLEANUP LEVEL

(NS) NOT SAMPLED

J ESTIMATED CONCENTRATION ABOVE THE ADJUSTED METHOD DETECTION LIMIT
AND BELOW THE ADJUSTED REPORTING LIMIT

GROUNDWATER ANALYTICAL MAP
(12/11/2019 – 12/12/2019)

PHILLIPS 66 FACILITY NO. 2701476 (AOC 2063)
12660 FIRST AVENUE SOUTH
SEATTLE, WASHINGTON

PROJECT NUMBER: Z076000070	DATE: 1/2/2020	FIGURE
APPROVED BY: ES	DRAWN BY: JT	3

ATC 6347 Seaview Avenue NW
Seattle, Washington 98107
Ph: (206) 781-1449 *** Fax: (206) 781-1543

TABLE

TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA
 Phillips 66 Facility No. 2701476 (AOC 2063)
 12660 First Avenue South
 Seattle, Washington

Well ID TOC Elevation	Sample Date				Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Metals	
		DTW (feet)	LPH (feet)	GW Elev. (feet)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MTCA Method A Cleanup Levels					1,000/800 ^a	500	500	5	1,000	700	1,000	20	15	15
GW1 100.00	05/07/91	38.97	0.00	61.03	--	--	--	--	--	--	--	--	--	--
	05/08/92	41.28	0.00	58.72	--	--	--	--	--	--	--	--	--	--
	05/20/92	39.46	0.00	60.54	--	--	--	--	--	--	--	--	--	--
	03/10/94	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	05/02/94	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	11/11/94	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	02/17/95	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	05/16/95	47.30	0.00	52.70	30,000	--	--	6,300	4,900	638	3,920	--	30	--
	08/09/95	47.65	0.00	52.35	17,000	--	--	3,200	1,700	230	1,400	--	10	--
	11/06/95	48.86	0.00	51.14	--	--	--	--	--	--	--	--	--	--
	02/13/96	49.60	0.00	50.40	--	--	--	--	--	--	--	--	--	--
	02/21/96	49.54	0.00	50.46	--	--	--	--	--	--	--	--	--	--
	05/21/96	39.91	0.00	60.09	62,000	--	--	14,000	16,000	780	5,100	--	7	--
	06/06/96	39.78	0.00	60.22	--	--	--	--	--	--	--	--	--	--
	06/11/96	39.85	0.00	60.15	--	--	--	--	--	--	--	--	--	--
	09/24/96	42.14	0.00	57.86	75,000	--	--	14,000	15,000	890	5,400	--	4	--
	12/12/96	46.97	0.00	53.03	--	--	--	--	--	--	--	--	--	--
	03/24/97	34.84	0.00	65.16	170,000	--	--	29,000	44,000	2,000	14,000	--	18	--
	04/11/97	30.69	0.00	69.31	--	--	--	--	--	--	--	--	--	--
	06/18/97	29.13	0.00	70.87	230,000	--	--	46,000	72,000	3,600	21,000	--	13	--
	08/25/97	35.41	0.00	64.59	170,000	--	--	3,000	46,000	2,900	16,000	--	13	--
	11/19/97 ^a	41.87	0.00	58.13	170,000	--	--	25,000	39,000	3,200	17,000	--	14	--
	02/12/98 ^{NP}	43.10	0.00	56.90	82,000	--	--	20,000	12,000	2,300	210	--	<2	--
	05/14/98 ^{NP}	32.37	0.00	67.63 ^b	180,000	--	--	41,000	59,000	2,000	19,000	--	<2	--
	08/25/98 ^{NP}	26.81	0.00	73.19 ^b	140,000	--	--	27,000	37,000	1,700	16,000	--	22	--
	11/13/98 ^{NP}	29.49	0.00	70.51 ^b	63,000	--	--	12,000	12,000	320	9,200	--	9	--
	02/10/99	45.96	Trace	54.04 ^a	LPH Present	--	--	--	--	--	--	--	--	--
	05/28/99 ^{NP}	17.18	0.00	82.82 ^b	69,000	--	--	490	4,400	490	12,000	--	10	--
	08/18/99 ^{NP}	43.70	0.00	56.30 ^b	32,000	--	--	2,100	190	250	3,600	--	--	--
	11/11/99 ^{NP}	34.01	0.00	65.99	6,110	--	--	849	333	31.8	1,320	--	7.67	--
	02/09/00 ^{NP}	48.11	0.00	51.89	83,000	--	--	1,200	860	740	13,000	--	301	--
	05/24/00 ^{NP}	26.35	Trace	73.65	1,200	--	--	55.9	81.2	2.09	248	--	--	--
	09/11/00 ^{NP}	25.75	0.00	74.25	883	--	--	36.1	54.0	<0.690	161	--	--	--
	11/27/00	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	02/23/01	44.58	0.00	55.42	154	--	--	12.6	5.08	< 0.500	17.1	--	--	--
	05/16/01	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	08/30/01 ^{NP}	43.17	0.00	56.83	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	2.62	--
	11/19/01	NM	--	--	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	--
	05/04/02	40.32	0.00	59.68	<50.0	--	--	1.29	<0.500	<0.500	1.62	--	<1.00	--
	11/20/02	36.15	0.00	63.85	149	--	--	0.575	0.938	<0.500	12.5	--	2.67	<1.00
	05/21/03 ^{NP}	35.97	0.00	64.03	1,620	--	--	56.7	71.7	<5.00	511	--	8.58	4.98
	11/14/03 ^{NP}	33.91	0.00	66.09	528	--	--	15.0	9.9	1.1	47	--	11.2	<5.00
	5/13/04 ^{NP}	30.93	0.00	69.07	5,200	--	--	1,340	129	51.0	431	--	14.4	<5.00
	12/9/04 ^{NP}	35.99	0.00	64.01	3,800	--	--	1,030	201	<20	740	--	15.0	<10.0
	02/08/05	37.79	0.00	62.21	1,310	--	--	98.6	46.0	<5.0	275	--	<10.0	<10.0
	05/16/05	36.36	0.00	63.64	3,380	--	--	699.0	224.0	<10	676	12	<15	<15
	11/22/05	40.77	0.00	59.23	5,900	--	--	2,200.0	420.0	66.0	1,200	--	<8.4	--
	03/01/06	Dry	0.00	--	--	--	--	--	--	--	--	--	--	--
	05/30/06	47.26	0.00	52.74	860 ^d	--	--	96 ^d	8.6 ^d	12 ^d	120 ^d	--	144	<6.9
	08/28/06	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	11/14/06	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	02/21/07	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	05/22/07	39.18	0.00	60.82	160	--	--	92	4	2	5	<0.5	<6.9	<6.9
	08/20/07	45.01	0.00	54.99	110	--	--	12	2	1	5	<0.5	<6.9	<6.9
	11/19/07	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	02/19/08	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	05/19/08	Dry	--	--	--	--	--	--	--	--	--	--	--	--
414.74	08/18/08	49.56	0.00	365.18	Well not sampled due to low water column.									
	11/17/08	49.60	0.00	365.14	Well not sampled due to low water column.									
	02/04/09	51.20	0.00	363.54	--	--	--	--	--	--	--	--	--	--
	05/04/09	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	08/03/09	44.90	0.00	369.84	--	--	--	--	--	--	--	--	--	--
	11/03/09	48.74	0.00	366.00	Well gauged only this quarter.									
	02/08/10	49.48	0.00	365.26	Well gauged only this quarter.									
	05/03/10	43.45	0.00	371.29	Well gauged only this quarter.									
	09/07/10	45.99	0.00	368.75	Well gauged only this quarter.									
	12/01/10	48.84	0.00	365.90	Well gauged only this quarter.									
	02/10/11	45.91	0.00	368.83	Well gauged only this quarter.									
	05/18/11	35.25	0.00	379.49	Well gauged only this quarter.									
	09/02/11	43.42	0.00	371.32	Well gauged only this quarter.									
	12/07/11	dry	--	--	Well gauged only this quarter.									
	02/23/12	49.36	0.00	365.38	Well not sampled due to low water column.									
	05/22/12	39.57	0.00	375.17	<500	--	--	9.8	<1.0	<1.0	<3.0	--	0.81	<0.10
	08/01/12	43.70	0.00	371.04	<50	--	--	<1.0	<1.0	1.2	<3.0	--	0.21	1.0
	03/22/13	43.28	0.00	371.46	<100	--	--	4.6	<1.0	<1.0	<3.0	--	<3.0	<10.0
	09/20/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	12/18/14	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	04/29/15	42.89	0.00	371.85	<100	--	--	7.70	<1.0	<1.0	<3.0	--	<10.0	<10.0
	07/23/15	46.82	0.00	367.92	<100	--	--	1.2	<1.0	<1.0	<3.0	--	--	--
	10/15/15	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	09/27/16	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	09/20/17	46.03	0.00	368.71	<100	--	--	<1.0	<1.0	<1.0	<1.0	--	<10.0	<10.0
	09/04/18	48.59	0.00	366.15	Well not sampled due to low water column.									
Well Decommissioned in October 2018														
GW2 99.32	05/07/91	35.56	0.00	63.76	--	--	--	--	--	--	--	--	--	--
	05/08/92	36.53	0.00	62.79	--	--	--	--	--	--	--	--	--	--
	03/10/94	48.43	4.15	54.00	LPH Present	--	--	--	--	--	--	--	--	--
	05/02/94	--	0.20	--	LPH Present	--	--	--	--	--	--	--	--	--
	11/11/94	44.37	0.07	55.00	LPH Present	--	--	--	--	--	--	--	--	--
	02/17/95	44.92	0.03	54.42	LPH Present	--	--	--	--	--	--	--	--	--
	05/16/95	36.19	0.17	63.26	150,000	--	--	21,000	26,000	2,200	14,000	--	9	--
	08/09/95	39.16	0.31	60.39	LPH Present	--	--	--	--	--	--	--	--	--
	11/06/95	42.42	0.11	56.98	LPH Present	--	--	--	--	--	--	--	--	--
	02/13/96	36.62	0.12	62.79	LPH Present	--	--	--	--	--	--	--	--	--

TABLE 1 SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA Phillips 66 Facility No. 2701476 (AOC 2063) 12660 First Avenue South Seattle, Washington														
Well ID TOC Elevation	Sample Date				Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Metals	
		DTW (feet)	LPH (feet)	GW Elev. (feet)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MTCA Method A Cleanup Levels					1,000/800 ^a	500	500	5	1,000	700	1,000	20	15	15
GW2 (Cont)	02/21/96	36.68	0.13	62.74	LPH Present	--	--	--	--	--	--	--	--	--
	05/21/96	28.04	0.37	71.56	LPH Present	--	--	--	--	--	--	--	--	--
	06/06/96	29.09	0.41	70.54	LPH Present	--	--	--	--	--	--	--	--	--
	06/11/96	29.17	0.38	70.44	LPH Present	--	--	--	--	--	--	--	--	--
	09/24/96	37.45	0.41	62.18	LPH Present	--	--	--	--	--	--	--	--	--
	12/12/96	40.86	0.22	58.63	LPH Present ⁱ	--	--	--	--	--	--	--	--	--
	03/24/97	25.93	0.13	73.49	LPH Present ⁱ	--	--	--	--	--	--	--	--	--
	04/11/97	23.84	0.19	75.62	LPH Present	--	--	--	--	--	--	--	--	--
	06/18/97	25.87	0.02	73.47	LPH Present	--	--	--	--	--	--	--	--	--
	08/25/97	32.77	0.18	66.69	LPH Present	--	--	--	--	--	--	--	--	--
	11/19/97 ^j	37.67	0.07	61.70	LPH Present	--	--	--	--	--	--	--	--	--
	02/12/98 ^{NP}	32.81	0.03	66.53	LPH Present	--	--	--	--	--	--	--	--	--
	05/14/98 ^{NP}	26.37	0.04	72.98	LPH Present ⁱ	--	--	--	--	--	--	--	--	--
	08/25/98	Inaccessible - Lid Stuck			--	--	--	--	--	--	--	--	--	--
	11/13/98	Inaccessible - Lid Stuck			--	--	--	--	--	--	--	--	--	--
	02/10/99	Inaccessible - Lid Stuck			--	--	--	--	--	--	--	--	--	--
	05/28/99	Inaccessible - Lid Stuck			--	--	--	--	--	--	--	--	--	--
	08/18/99 ^{NP}	33.58	0.00	65.74 ^b	180,000	--	--	15,000	22,000	2,200	20,000	--	--	--
	11/11/99 ^{NP}	46.15	0.00	53.17	85,600	--	--	4,360	7,750	1,160	12,300	--	152	--
	02/09/00 ^{NP}	38.30	0.00	61.02	130,000	--	--	11,000	17,000	1,300	18,000	--	6	--
	05/24/00	Inaccessible - Lid Stuck			--	--	--	--	--	--	--	--	--	--
	09/11/00 ^{NP}	46.35	0.00	52.97	55,000	--	--	2,620	1,910	410	7,380	--	--	--
	11/27/00	43.56	Trace	55.76	76,100	--	--	6,030	8,660	1,050	10,500	--	148	--
	02/23/01	46.15	0.00	53.17	64,300	--	--	5,100	5,880	667	9,140	--	129	--
	05/16/01	42.48	0.00	56.84	83,300	--	--	4,620	8,480	1,060	10,200	--	248	--
	08/30/01 ^{NP}	42.07	0.01	57.26	LPH Present	--	--	--	--	--	--	--	--	--
	11/19/01	Inaccessible - Lid Stuck			--	--	--	--	--	--	--	--	--	--
	05/04/02	31.15	0.00	68.17	51,900	--	--	5,330	4,780	255	7,650	--	38.2	--
	11/20/02	46.25	0.00	53.07	50,900	--	--	3,010	5,600	800	8,110	--	3,850	<1.00
	05/21/03 ^{NP}	45.86	0.00	53.46	35,100	--	--	3,910	4,020	248	4,760	--	26.8	14.6
	11/14/03 ^{NP C}	44.35	0.00	54.97	1,760	--	--	96.2	11.0	1.0	73.1	--	<5.00	<5.00
	5/13/04 ^{NP}	28.97	0.00	70.35	7,370	--	--	446	705	30.4	983	--	8.28	<5.00
	12/9/04 ^{NP}	42.42	0.00	56.90	19,500	--	--	2,370	1,410	140	1,980	--	20.9	<10.0
	02/08/05	39.87	0.00	59.45	32,000	--	--	3,520	2,160	191	3,280	--	24.8	<10.0
	05/16/05	39.50	0.00	59.82	8,600	--	--	166	144	21	470	6.74	15.6	<15
	08/18/05	44.78	0.00	54.54	10,000	--	--	930	220	79	900	<5.0	283	--
	11/22/05	48.18	0.00	51.14	15,000	--	--	2,600	770	110	1,400	--	<8.4	--
	03/01/06	36.10	0.00	63.22	7,800	--	--	380	400	46	760	<0.5	<8.4	--
	05/30/06	42.90	0.00	56.42	3,500	--	--	160	65	23	280	--	26.2	<6.9
	08/28/06	44.20	0.00	55.12	4,800	--	--	390	120	43	460	0.9	<6.9	<6.9
	11/14/06	44.06	0.00	55.26	12,000	--	--	860	720	130	1,500	<1	<6.9	<6.9
	02/21/07	34.22	0.00	65.10	6,800	--	--	920	570	99	810	<1	70.4	62.2
	05/22/07	32.70	0.00	66.62	20,000	--	--	650	1,000	380	2,700	<1	<6.9	<6.9
	08/20/07	35.26	0.00	64.06	49,000	--	--	6,300	6,500	600	5,100	<5	<6.9	<6.9
	11/19/07	41.37	0.00	57.95	12,000	--	--	2,000	390	260	1,200	0.6	15.1	<6.9
413.94	02/19/08	38.17	0.00	61.15	21,000	--	--	2,400	980	440	2,500	<3	10.4	8.8
	05/19/08	35.80	0.00	378.14	35,000	--	--	4,600	3,100	670	4,500	<2.0	23.7	<6.9
	08/18/08	38.75	0.00	375.19	20,000	--	--	3,200	1,400	560	3,500	<3.0	<6.9	<6.9
	11/18/08	41.75	0.00	372.19	28,000	--	--	3,000	690	670	4,500	<3	14.40	<6.9
	02/04/09	39.85	0.00	374.09	28,700	2,800	<410	1,600	130	560	3,700	<1	1.34	--
	05/05/09	36.00	0.00	377.94	40,800	1,200	<420	3,590 2n	1,760	634	4,590	<1.0	3.3	<1.0
	08/03/09	36.60	0.00	377.34	40,300	--	--	6,710	2,440	959	7,180	<5.0	3.2	2.5
	11/03/09	41.22	0.00	372.72	28,700 1n, 22	--	--	2,880	673	644	3,460	<5.0	12.3	0.39
	02/08/10	37.04	0.00	376.90	42,600 1n	--	--	4,940	1,830	1,200	8,320	<1.0	24.7	1.2
	05/03/10	32.17	0.00	381.77	17,400	--	--	2,060	746	422	2,990	<1.0	4.1	0.36
	09/07/10	36.61	0.00	377.33	30,700	--	--	6,770	1,930	901	5,480	<1.0	12.9	0.22
	12/01/10	39.35	0.00	374.59	20,600	--	--	3,260	283	802	3,450	<1.0	9.2	0.14
	02/10/11	31.63	0.00	382.31	10,700	--	--	975	250	359	2,020	<1.0	--	--
	05/18/11	25.11	0.00	388.83	503	--	--	6.7	<1.0	2.3	35.0	--	0.46	0.30
	09/02/11	34.81	0.00	379.13	23,700	--	--	2,880	317	563	2,710	--	3.2	0.97
	12/07/11	40.12	0.00	373.82	15,300	--	--	1,280	64.8	430	1,210	<1.0	5.0	0.14
	02/23/12	39.98	0.00	373.96	18,400	--	--	1,110	53.7	356	1,360	--	1.1	--
	05/22/12	29.37	0.00	384.57	9,810	--	--	1,780	148	304	1,320	--	0.36	0.23
	08/01/12	33.91	0.00	380.03	11,200	--	--	1,820	97.4	428	1,470	--	0.26	0.19
	03/22/13	32.59	0.00	381.35	4,300	--	--	466	13.7	114	271	--	<3.0	<10.0
	09/20/13	34.58	0.00	379.36	19,600	--	--	3,960	130.0	760	220	--	16.70	<10.0
	12/19/14	39.91	0.00	374.03	13,000	120	<500	1,900	33.0	810	1,500	--	<5.0	<5.0
	04/29/15	30.61	0.00	383.33	13,600	--	--	1,830	42.6	599	1,300	--	<10.0	<10.0
	07/23/15	35.92	0.00	378.02	22,500	--	--	5,670	190	907	2,300	--	--	--
	10/15/15	40.35	0.00	373.59	10,700	--	--	1,460	26.3	449	537	--	--	--
	09/27/16	38.80	0.00	375.14	10,400	--	--	1,140	61.4	479	898	--	<10.0	<10.0
	09/20/17	35.11	0.00	378.83	2,860	--	--	327	22.0	174	294	--	<10.0	<10.0
	09/05/18	37.61	0.00	376.33	7,570	--	--	1,070	50.2	579	404	--	2.0 J	<2.0
Well Decommissioned in October 2018														
GW2A NE	12/9/04 ^{NP}	NM	--	NE	--	--	--	--	--	--	--	--	--	--
	02/08/05	NM	--	NE	--	--	--	--	--	--	--	--	--	--
	05/16/05	NM	--	NE	--	--	--	--	--	--	--	--	--	--
	08/18/05	NM	--	NE	--	--	--	--	--	--	--	--	--	--
	11/22/05	NM	--	NE	--	--	--	--	--	--	--	--	--	--
	03/01/06	NM	--	NE	--	--	--	--	--	--	--	--	--	--
	05/30/06	NM	--	NE	--	--	--	--	--	--	--	--	--	--
	08/28/06	NM	--	NE	--	--	--	--	--	--	--	--	--	--
	11/14/06	NM	--	NE	--	--	--	--	--	--	--	--	--	--
	02/21/07	NM	--	NE	--	--	--	--	--	--	--	--	--	--
	05/22/07	NM	--	NE	--	--	--	--	--	--	--	--	--	--
	08/20/07	NM	--	NE	--	--	--	--	--	--	--	--	--	--
	11/19/07	NM	--	NE	--	--	--	--	--	--	--	--	--	--
	02/19/08	NM	--	NE	--	--	--	--	--	--	--	--	--	--
414.5	05/19/08	NM	--	NE	--	--	--	--	--	--	--	--		

TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA
Phillips 66 Facility No. 2701476 (AOC 2063)
12660 First Avenue South
Seattle, Washington

Well ID TOC Elevation	Sample Date				Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Metals	
		DTW (feet)	LPH (feet)	GW Elev. (feet)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MTCA Method A Cleanup Levels					1,000/800 ^a	500	500	5	1,000	700	1,000	20	15	15
GW2A (Cont)	11/03/09	NM												
	02/08/10	NM												
	05/03/10	NM												
	09/07/10	NM												
	12/01/10	NM												
	02/10/11	NM												
	05/18/11	NM												
	09/02/11	NM												
	12/07/11	NM												
	08/01/12	NM												
	03/22/13	NM												
	09/20/13	NM												
	12/19/14	NM												
	04/29/15	NM												
	07/23/15	NM												
	10/15/15	NM												
	09/27/16	NM												
	09/19/17	NM												
	09/04/18	NM												
	12/11/18	NM												
GW3	05/02/94	71.02	0.00	31.93	--	--	--	--	--	--	--	--	--	--
102.95	11/11/94	82.85	0.00	20.10	<50	--	--	<0.5	<1	<1	<1	--	<2	--
102.78	02/17/95	82.81	0.00	19.97	<50	--	--	<0.5	<1	<1	<1	--	2	--
	05/16/95	82.02	0.00	20.76	<50	--	--	<0.5	<1	<1	<1	--	5	--
	08/09/95	81.33	0.00	21.45	<50	--	--	<0.5	<1	<1	<1	--	<2	--
	11/06/95	81.21	0.00	21.57	<50	--	--	<0.5	<1	<1	<1	--	<2	--
	02/13/96	84.06	0.00	18.72	<50	--	--	<0.5	<1	<1	<1	--	<2	--
	02/21/96	80.60	0.00	22.18	--	--	--	--	--	--	--	--	--	--
	05/21/96	79.24	0.00	23.54	--	--	--	--	--	--	--	--	--	--
	06/06/96	79.07	0.00	23.71	--	--	--	--	--	--	--	--	--	--
	06/11/96	78.97	0.00	23.81	<50	--	--	<0.5	<1	<1	<1	--	<2	--
	09/24/96	78.21	0.00	24.57	<50	--	--	0.7	2	<1	3	--	2	--
	12/12/96	78.64	0.00	24.14	216	--	--	21.6	54	2	11	--	<2	--
	03/24/97	77.93	0.00	24.85	<50	--	--	<0.5	<1	<1	<1	--	38	--
	04/11/97	77.40	0.00	25.38	--	--	--	--	--	--	--	--	--	--
	06/18/97	76.11	0.00	26.67	<50	--	--	<0.5	1	<1	<1	--	13	--
	08/25/97	75.68	0.00	27.10	<50	--	--	<0.5	<1	<1	<1	--	13	--
	11/19/97 ^a	76.58	0.00	26.20	<50	--	--	<0.5	<1	<1	<1	--	18	--
	02/12/98 ^{NP}	76.72	0.00	26.06	<50	--	--	<0.5	<1	<1	<1	--	<2	--
	05/14/98 ^{NP}	76.15	0.00	26.63	<50	--	--	<0.5	<1	<1	<1	--	<2	--
	08/25/98	76.35	0.00	26.43 ^b	--	--	--	--	--	--	--	--	--	--
	11/13/98	77.88	0.00	24.90 ^b	--	--	--	--	--	--	--	--	--	--
	02/10/99	78.98	0.00	23.80 ^b	--	--	--	--	--	--	--	--	--	--
	05/28/99 ^{NP}	79.68	0.00	23.10 ^c	<50	--	--	<0.5	<1	<1	<1	--	<2	--
	08/18/99 ^{NP}	76.45	0.00	26.33 ^b	--	--	--	--	--	--	--	--	--	--
	11/11/99 ^{NP}	79.18	0.00	23.60	--	--	--	--	--	--	--	--	--	--
	02/09/00 ^{NP}	78.42	0.00	24.36	--	--	--	--	--	--	--	--	--	--
	05/24/00 ^{NP}	77.46	0.00	25.32	352	--	--	<0.500	<0.500	<0.500	36.4	--	--	--
	09/11/00 ^{NP}	NM	--	--	--	--	--	--	--	--	--	--	--	--
	11/27/00	NM	--	--	--	--	--	--	--	--	--	--	--	--
	02/23/01	NM	--	--	--	--	--	--	--	--	--	--	--	--
	05/16/01	81.80	0.00	20.98	<50	--	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	--
	08/30/01	NM	--	--	--	--	--	--	--	--	--	--	--	--
	11/19/01	82.30	0.00	20.48	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	--
	05/04/02	81.10	0.00	21.68	94.9	--	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	--
	11/20/02	80.72	0.00	22.06	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	2.52	<1.00
	05/21/03 ^{NP}	81.15	0.00	21.63	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	<1.00
	11/14/03 ^{NP}	81.59	0.00	21.19	<50.0	--	--	<1.00	<1.00	<1.00	<1.50	--	<5.00	<5.00
	5/13/04 ^{NP}	81.35	0.00	21.43	<100	--	--	<1.00	<1.00	<1.00	<3.00	--	<5.00	<5.00
	12/9/04 ^{NP}	82.21	0.00	20.57	--	--	--	--	--	--	--	--	--	--
	02/08/05	82.54	0.00	20.24	<100	--	--	<0.5	<1.00	<1.00	<3.00	--	<10.0	--
	05/16/05	82.75	0.00	20.03	<100	--	--	<1	<1	<1	<3	<1	<15	<15
	08/18/05	82.56	0.00	20.22	<48	--	--	<0.2	<0.2	<0.2	<0.6	<0.3	<8.4	--
	11/22/05	82.51	0.00	20.27	<48	--	--	<0.2	<0.2	<0.2	<0.6	<0.3	<8.4	--
	03/01/06	82.40	0.00	20.38	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.8	<8.4	--
	05/30/06	81.72	0.00	21.06	<48	--	--	<0.2	<0.2	<0.2	<0.6	--	<6.9	<6.9
	08/28/06	81.10	0.00	21.68	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/14/06	81.50	0.00	21.28	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	02/21/07	81.05	0.00	21.73	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	64.5	62.2
	05/22/07	81.10	0.00	21.68	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	08/20/07	79.42	0.00	23.36	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/19/07	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	02/19/08	80.47	0.00	22.31	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	7.4
	05/19/08	80.52	0.00	337.22	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	08/18/08	80.80	0.00	336.94	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	7.0	<6.9
	11/17/08	81.19	0.00	336.55	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	02/04/09	81.50	0.00	336.24	--	--	--	--	--	--	--	--	--	--
	05/04/09	81.72	0.00	336.02	87.2 4n	<83	<420	<1.0	<1.0	<1.0	<1.0	<1.0	1.50	<1.0
	08/03/09	81.65	0.00	336.09	--	--	--	--	--	--	--	--	--	--
	11/03/09	81.95	0.00	335.79										
	02/08/10	82.22	0.00	335.52										
	05/03/10	81.60	0.00	336.14										
	09/07/10	80.72	0.00	337.02										
	12/01/10	81.18	0.00	336.56										
	02/10/11	78.17	0.00	339.57										
	05/18/11	79.56	0.00	338.18										
	09/02/11	78.65	0.00	339.09										
	12/07/11	79.10	0.00	338.64										
	02/23/12	79.91	0.00	337.83										
	05/22/12	79.81	0.00	337.93										
	08/01/12	NM	--	--	--	--	--	--	--	--	--	--	--	--
	03/22/13	NM	--	--	--	--	--	--	--	--	--	--	--	--
	09/20/13	NM	--	--	--	--	--	--	--	--	--	--	--	--
	12/19/14	80.86	--	336.88	<100	<100	<500	<0.50	<0.50	<0.50	<0.50	--	<5.0	<5.0
	04/29/15	80.70	--	337.04	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	07/23/15	80.19	--	337.55	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--
	10/15/15	80.61	--	337.13	<250	--	--	<0.50	<0.50	<0.50	<1.0	--	--	--
	09/27/16	79.00	--	338.74	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0

TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA
 Phillips 66 Facility No. 2701476 (AOC 2063)
 12660 First Avenue South
 Seattle, Washington

Well ID TOC Elevation	Sample Date				Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Metals	
		DTW (feet)	LPH (feet)	GW Elev. (feet)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MTCA Method A Cleanup Levels					1,000/800^a	500	500	5	1,000	700	1,000	20	15	15
GW3 Cont.	09/19/17	77.01	--	340.73	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
417.74	09/05/18	78.31	--	339.43	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
Well Decommissioned in October 2018														
GW4	05/02/94	DRY	--	--	--	--	--	--	--	--	--	--	--	--
101.84	11/11/94	DRY	--	--	--	--	--	--	--	--	--	--	--	--
	02/17/95	DRY	--	--	--	--	--	--	--	--	--	--	--	--
	05/16/95	DRY	--	--	--	--	--	--	--	--	--	--	--	--
	08/09/95	DRY	--	--	--	--	--	--	--	--	--	--	--	--
	11/06/95	DRY	--	--	--	--	--	--	--	--	--	--	--	--
	02/13/96	DRY	--	--	--	--	--	--	--	--	--	--	--	--
	02/21/96	DRY	--	--	--	--	--	--	--	--	--	--	--	--
	05/21/96	78.27	0.00	23.57	--	--	--	--	--	--	--	--	--	--
	06/06/96	78.10	0.00	23.74	--	--	--	--	--	--	--	--	--	--
	06/11/96	78.02	0.00	23.82	--	--	--	--	--	--	--	--	--	--
	09/24/96	DRY	--	--	--	--	--	--	--	--	--	--	--	--
	12/12/96	77.71	0.00	24.13	--	--	--	--	--	--	--	--	--	--
	03/24/97	76.88	0.00	24.96	<50	--	--	<50	<1	<1	<1	--	52	--
	04/11/97	76.36	0.00	25.48	--	--	--	--	--	--	--	--	--	--
	06/18/97	75.08	0.00	26.76	<50	--	--	<50	<1	<1	<1	--	4	--
	08/25/97	74.70	0.00	27.14	300	--	--	9.8	15	3	46	--	4	--
	11/19/97	75.61	0.00	26.23	<50	--	--	0.8	<1	<1	<1	--	18	--
	02/12/98 ^{NP}	75.90	0.00	25.94	<50	--	--	1	<1	<1	<1	--	27	--
	05/14/98 ^{NP}	75.18	0.00	26.66	<50	--	--	<0.5	<1	<1	<1	--	<2	--
	08/25/98 ^{NP}	75.45	0.00	26.39 ^b	<50	--	--	<0.5	<1	<1	<1	--	23	--
	11/13/98 ^{NP}	77.24	0.00	24.60 ^b	<50	--	--	<0.5	<1	<1	<1	--	103	--
	02/10/99	78.08	0.00	23.76 ^b	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	--	--
	05/28/99 ^{NP}	73.80	0.00	28.04 ^b	<50	--	--	<0.5	<1	<1	<1	--	<2	--
	08/18/99 ^{NP}	75.54	0.00	26.30 ^b	<50	--	--	0.5	<1	<1	2	--	--	--
	11/11/99 ^{NP}	DRY	--	--	--	--	--	--	--	--	--	--	--	--
	02/09/00 ^{NP}	77.50	0.00	24.34	<50	--	--	<0.5	<1	<1	<1	--	24	--
	05/24/00 ^{NP}	75.70	0.00	26.14	<50.0	--	--	<0.500	<0.500	<0.500	2.88	--	--	--
	09/11/00 ^{NP}	71.56	0.00	30.28	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	--	--
	11/27/00 ^{NP}	78.40	0.00	23.44	141	--	--	<0.500	1.10	<0.500	5.59	--	254	--
	02/23/01	DRY	--	--	--	--	--	--	--	--	--	--	--	--
	05/16/01	DRY	--	--	--	--	--	--	--	--	--	--	--	--
	08/30/01	DRY	--	--	--	--	--	--	--	--	--	--	--	--
	11/19/01	DRY	--	--	--	--	--	--	--	--	--	--	--	--
	05/04/02	DRY	--	--	--	--	--	--	--	--	--	--	--	--
	11/20/02	DRY	--	--	--	--	--	--	--	--	--	--	--	--
	05/21/03 ^{NP}	DRY	--	--	--	--	--	--	--	--	--	--	--	--
	11/14/03 ^{NP}	DRY	--	--	--	--	--	--	--	--	--	--	--	--
	5/13/04 ^{NP}	DRY	--	--	--	--	--	--	--	--	--	--	--	--
	12/9/04 ^{NP}	DRY	--	--	--	--	--	--	--	--	--	--	--	--
	02/08/05	DRY	--	--	--	--	--	--	--	--	--	--	--	--
	05/16/05	DRY	--	--	--	--	--	--	--	--	--	--	--	--
	08/18/05	DRY	--	--	--	--	--	--	--	--	--	--	--	--
	11/22/05	DRY	--	--	--	--	--	--	--	--	--	--	--	--
	03/01/06	DRY	--	--	--	--	--	--	--	--	--	--	--	--
	05/30/06	DRY	--	--	--	--	--	--	--	--	--	--	--	--
	08/28/06	DRY	--	--	--	--	--	--	--	--	--	--	--	--
	11/14/06	DRY	--	--	--	--	--	--	--	--	--	--	--	--
	02/21/07	DRY	--	--	--	--	--	--	--	--	--	--	--	--
	05/22/07	DRY	--	--	--	--	--	--	--	--	--	--	--	--
	8/20/2007 ^d	78.47	DRY	23.37	--	--	--	--	--	--	--	--	--	--
	11/19/07	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	02/19/08	Dry	--	--	--	--	--	--	--	--	--	--	--	--
416.79	05/19/08	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	08/18/08	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	11/17/08	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	02/04/09	79.15	0.00	337.64	--	--	--	--	--	--	--	--	--	--
	5/4/09	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	08/03/09	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	11/03/09	79.10	0.00	337.69	Well gauged only this quarter.									
	02/08/10	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	05/03/10	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	09/07/10	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	12/01/10	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	02/10/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	05/18/11	78.55	0.00	338.24	Well gauged only this quarter.									
	09/02/11	77.64	0.00	339.15	Well gauged only this quarter.									
	12/07/11	78.21	0.00	338.58	Well gauged only this quarter.									
	02/23/12	Dry	--	--	Well gauged only this quarter.									
	05/22/12	Dry	--	--	Well gauged only this quarter.									
	08/01/12	NM	--	--	--	--	--	--	--	--	--	--	--	--
	12/19/14	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	04/29/15	Dry	Dry	Dry	--	--	--	--	--	--	--	--	--	--
	07/23/15	Dry	Dry	Dry	--	--	--	--	--	--	--	--	--	--
	10/15/15	Dry	Dry	Dry	--	--	--	--	--	--	--	--	--	--
	09/27/16	Dry	Dry	Dry	--	--	--	--	--	--	--	--	--	--
	09/19/17	76.10	0.00	340.69	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	09/11/18	77.37	--	339.42	Well gauged only this quarter.									
Well Decommissioned in October 2018														
GW5	05/02/94	78.84	0.00	20.14	100,000	--	--	8,200	15,000	2,100	12,000	--	3	--
98.98	11/11/94	79.14	0.00	19.84	160,000	--	--	20,000	33,000	2,300	15,000	--	6	--
	02/17/95	79.14	0.00	19.84	130,000	--	--	14,000	25,000	1,550	11,000	--	6	--
	05/16/95	78.31	0.00	20.67	180,000	--	--	19,000	34,000	2,300	16,000	--	8	--
	08/09/95	77.55	0.00	21.43	200,000	--	--	22,000	38,000	2,400	18,000	--	17	--
	11/06/95	77.49	0.00	21.49	184,000	--	--	20,000	42,000	2,900	19,000	--	15	--
	02/13/96	77.31	0.00	21.67	190,000	--	--	19,000	42,000	2,900	18,000	--	8	--
	02/21/96	76.89	0.00	22.09	--	--	--	--	--	--	--	--	--	--
	05/21/96	75.21	0.00	23.77	32,000	--	--	1,800	2,100	100	5,900	--	6	--
	06/06/96	75.04	0.00	23.94	--	--	--	--	--	--	--	--	--	--
	06/11/96	75.07	0.00	23.91	--	--	--	--	--	--	--	--	--	--
	09/24/96	74.47	0.00	24.51	56,000	--	--	3,800	5,100	90	8,700	--	4	--

TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA
 Phillips 66 Facility No. 2701476 (AOC 2063)
 12660 First Avenue South
 Seattle, Washington

Well ID TOC Elevation	Sample Date				Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Metals	
		DTW (feet)	LPH (feet)	GW Elev. (feet)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MTCA Method A Cleanup Levels					1,000/800^a	500	500	5	1,000	700	1,000	20	15	15
GW5	12/12/96	74.99	0.00	23.99	88,000	--	--	2,200	4,700	43	16,000	--	42	--
	03/24/97	24.90	0.00	74.08	7,800	--	--	690	790	13	1,300	--	34	--
(Cont)	04/11/97	73.31	0.00	25.67	--	--	--	--	--	--	--	--	--	--
	06/18/97	72.05	0.00	26.93	90,000	--	--	9,000	21,000	1,400	12,000	--	4	--
	08/25/97	71.85	0.00	27.13	45,000	--	--	4,600	7,000	180	6,500	--	4	--
	11/19/97 ^r	72.77	0.00	26.21	44,000	--	--	3,700	7,200	530	4,800	--	5	--
	02/12/98 ^{NP}	73.10	0.00	25.88	65,000	--	--	6,800	10,000	990	5,500	--	3	--
	05/14/98 ^{NP}	72.40	0.00	26.58 ^a	56,000	--	--	7,700	11,000	1,000	10,000	--	6	--
	08/25/98 ^{NP}	67.44	0.00	31.54 ^a	25,000	--	--	120	450	58	5,300	--	6	--
	11/13/98	Inaccessible - Lid Stuck	--	--	--	--	--	--	--	--	--	--	--	--
	02/10/99	Inaccessible - Lid Stuck	--	--	--	--	--	--	--	--	--	--	--	--
	05/28/99	Inaccessible - Lid Stuck	--	--	--	--	--	--	--	--	--	--	--	--
	08/18/99 ^{NP}	72.85	0.00	26.13 ^b	4,900	--	--	430	480	36	560	--	--	--
	11/11/99 ^{NP}	76.11	0.00	22.87	276	--	--	3.07	4.94	0.815	22.2	--	9.62	--
	02/09/00 ^{NP}	75.62	0.00	23.36	94	--	--	<0.5	2	<1	9	--	7	--
	05/24/00 ^{NP}	38.60	0.00	60.38	367	--	--	21.9	40.1	1.34	77.2	--	--	--
	09/11/00 ^{NP}	60.00	0.00	38.98	--	--	--	--	--	--	--	--	--	--
	11/27/00	NM	--	--	--	--	--	--	--	--	--	--	--	--
	02/23/01	48.75	0.00	50.23	436	--	--	<0.500	4.35	1.57	50.1	--	5.31	--
	05/16/01	79.44	0.00	19.54	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	2.35	--
	08/30/01 ^{NP}	77.78	0.00	21.20	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	1.04	--
	11/19/01	79.37	0.00	19.61	472	--	--	<0.500	8.43	1.34	79.1	--	1.93	--
	05/04/02	76.90	0.00	22.08	<50.0	--	--	<0.500	0.630	<0.500	1.82	--	<1.00	--
	11/20/02	76.93	0.00	22.05	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	1.70	<1.00
	05/21/03 ^{NP}	78.00	0.00	20.98	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	1.02	<1.00
	11/14/03 ^{NP C}	79.12	0.00	19.87	<50.0	--	--	<1.00	<1.00	<1.00	<1.50	--	<5.00	<5.00
	5/13/04 ^{NP}	78.51	0.00	20.47	<100	--	--	<1.00	<1.00	<1.00	<3.00	--	<5.00	<5.00
	12/9/04 ^{NP}	80.04	0.00	18.94	<100	--	--	<1.00	<1.00	<1.00	<3.00	--	<10.0	<10.0
	02/08/05	78.70	0.00	20.28	<100	--	--	<0.5	<1.00	<1.00	<3.00	--	<10.0	<10.0
	05/16/05	79.64	0.00	19.34	<100	--	--	<1	<1	<1	<3	<1	<15	<15
	08/18/05	80.55	0.00	18.43	<48	--	--	<0.2	<0.2	<0.2	<0.6	<0.3	<8.4	--
	11/22/05	78.24	0.00	20.74	<48	--	--	<0.2	<0.2	<0.2	<0.6	<0.3	<8.4	--
	03/01/06	77.97	0.00	21.01	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<8.4	--
	05/30/06	77.33	0.00	21.65	<48	--	--	<0.2	<0.2	<0.2	<0.6	--	<6.9	<6.9
	08/28/06	76.68	0.00	22.30	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/14/06	78.35	0.00	20.63	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	02/21/07	76.70	0.00	22.28	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	43.6	43.3
	05/22/07	75.78	0.00	23.20	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	08/20/07	75.15	0.00	23.83	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/19/07	76.01	0.00	22.97	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	02/19/08	73.98	0.00	25.00	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
413.40	05/19/08	76.12	0.00	337.28	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	08/18/08	76.52	0.00	336.88	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/17/08	77.00	0.00	336.40	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	02/04/09	77.30	0.00	336.10	--	--	--	--	--	--	--	--	--	--
	05/04/09	77.40	0.00	336.00	<50.0 4n	<83	<420	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	08/03/09	77.38	0.00	336.02	--	--	--	--	--	--	--	--	--	--
	11/03/09	77.71	0.00	335.69	Well gauged only this quarter.									
	02/08/10	77.94	0.00	335.46	Well gauged only this quarter.									
	05/03/10	77.19	0.00	336.21	Well gauged only this quarter.									
	09/07/10	76.40	0.00	337.00	Well gauged only this quarter.									
	12/01/10	76.94	0.00	336.46	Well gauged only this quarter.									
	02/10/11	76.18	0.00	337.22	Well gauged only this quarter.									
	05/18/11	74.77	0.00	338.63	Well gauged only this quarter.									
	09/02/11	74.33	0.00	339.07	Well gauged only this quarter.									
	12/07/11	74.94	0.00	338.46	<50.0	--	--	<1.0	<1.0	<3.0	<1.0	0.33	0.13	
	02/23/12	75.78	0.00	337.62	Well gauged only this quarter.									
	05/22/12	75.44	0.00	337.96	Well gauged only this quarter.									
	08/01/12	NM	--	--	--	--	--	--	--	--	--	--	--	--
	03/22/13	NM	--	--	--	--	--	--	--	--	--	--	--	--
	09/20/13	NM	--	--	--	--	--	--	--	--	--	--	--	--
	12/19/14	76.60	--	336.80	<100	<100	<500	<0.50	<0.50	<0.50	<0.50	--	<5.0	<5.0
	4/29/2015**	74.44	--	338.96	249	--	--	14.2	<1.0	1.6	14.7	--	<10.0	<10.0
	07/23/15	75.06	--	338.34	182	--	--	3.9	<1.0	2.4	7.6	--	--	--
	10/15/15	76.34	--	337.06	<250	--	--	<0.50	<0.50	<0.50	<1.0	--	--	--
	09/27/16	74.75	--	338.65	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	09/20/17	63.21	--	350.19	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	09/05/18	74.04	--	339.36	<19.6	--	--	0.60 J	<0.083	<0.14	<0.31	--	<2.0	<2.0
Well Decommissioned in October 2018														
GW6	05/02/94	42.10	1.90	57.57	--	--	--	--	--	--	--	--	--	--
	11/11/94	41.67	0.65	57.06	LPH Present	--	--	--	--	--	--	--	--	--
	02/17/95	41.13	0.24	57.29	LPH Present	--	--	--	--	--	--	--	--	--
	05/16/95	32.62	0.24	65.80	130,000	--	--	14,000	21,000	2,000	11,000	--	2	--
	08/09/95	32.65	0.03	65.61	LPH Present	--	--	--	--	--	--	--	--	--
	11/06/95	40.26	0.06	58.03	LPH Present	--	--	--	--	--	--	--	--	--
	02/13/96	32.10	0.00	66.14	68,000	--	--	11,000	13,000	1,100	6,000	--	5	--
	02/21/96	32.18	0.05	66.10	--	--	--	--	--	--	--	--	--	--
	05/21/96	27.40	0.00	70.84	36,000	--	--	2,300	3,300	560	3,700	--	20	--
	06/06/96	28.16	0.00	70.08	--	--	--	--	--	--	--	--	--	--
	06/11/96	28.23	0.00	70.01	--	--	--	--	--	--	--	--	--	--
	09/24/96	35.38	0.00	62.86	36,000	--	--	3,800	5,100	790	4,300	--	22	--
	12/12/96	37.76	0.00	60.48	66,000	--	--	4,100	7,900	1,100	6,500	--	48	--
	03/24/97	24.55	0.00	73.69	82,000	--	--	2,700	12,000	1,700	10,000	--	41	--
	04/11/97	23.32	0.00	74.92	--	--	--	--	--	--	--	--	--	--
	06/18/97	25.51	0.00	72.73	43,000	--	--	4,100	7,300	800	4,500	--	10	--
	08/25/97	30.55	0.00	67.69	52,000	--	--	5,600	11,000	1,200	6,200	--	10	--
	11/19/97 ^r	34.17	0.00	64.07	81,000	--	--	8,700	15,000	1,500	7,700	--	13	--
	02/12/98 ^{NP}	26.67	0.00	71.57	1,400	--	--	33	51	59	110	--	6	--
	05/14/98 ^{NP}	26.00	0.00	72.24 ^b	1,800	--	--	42	170	98	310	--	5	--
	08/25/98 ^{NP}	25.99	0.00	72.25 ^b	14,000	--	--	220	890	79	3,100	--	5	--

TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA
 Phillips 66 Facility No. 2701476 (AOC 2063)
 12660 First Avenue South
 Seattle, Washington

Well ID TOC Elevation	Sample Date				Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Metals	
		DTW (feet)	LPH (feet)	GW Elev. (feet)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MTCA Method A Cleanup Levels					1,000/800 ^a	500	500	5	1,000	700	1,000	20	15	15
	02/09/00 ^{NP}	36.20	0.00	62.04	<50	--	--	<0.5	<1	<1	2	--	<2	--
GW6 (Cont)	05/24/00 ^{NP}	27.52	0.00	70.72	<50.0	--	--	2.31	1.05	<0.500	1.34	--	--	--
	09/11/00 ^{NP}	26.46	0.00	71.78	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	--	--
	11/27/00	40.05	0.00	58.19	1,990	--	--	214	265	20.7	333	--	329	--
	02/23/01	34.58	0.00	63.66	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	1.18	--
	05/16/01	43.52	0.00	54.72	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	--
	08/30/01 ^{NP}	40.20	0.00	58.04	<50.0	--	--	1.73	<0.500	<0.500	1.17	--	1.87	--
	11/19/01	46.75	0.00	51.49	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	--
	05/04/02	28.46	0.00	69.78	<50.0	--	--	0.748	<0.500	<0.500	1.08	--	5.23	--
	11/20/02	46.10	0.00	52.14	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	<1.00
	05/21/03 ^{NP}	35.60	0.00	62.64	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	<1.00
	11/14/03 ^{NP C}	46.05	0.00	52.19	<50.0	--	--	<1.00	<1.00	<1.00	<1.50	--	<5.00	<5.00
	5/13/04 ^{NP}	34.02	0.00	64.22	<100	--	--	1.95	<1.00	<1.00	<3.00	--	<5.00	<5.00
	12/9/04 ^{NP}	42.73	0.00	55.51	<100	--	--	<1.00	<1.00	<1.00	<3.00	--	<10.0	<10.0
	02/08/05	39.02	0.00	59.40	<100	--	--	<0.5	<1.00	<1.00	<3.00	--	<10.0	<10.0
	05/16/05	33.23	0.00	65.01	<100	--	--	<1	<1	<1	<3	<1	<15	<15
	08/18/05	82.10	0.00	16.14	<48	--	--	<0.2	<0.2	<0.2	<0.6	<0.3	<8.4	--
	11/22/05	38.57	0.00	59.67	<48	--	--	0.7	<0.2	<0.2	0.6	--	<8.4	--
	03/01/06	32.80	0.00	65.44	100	--	--	8	<0.7	<0.8	1	<0.5	<8.4	--
	05/30/06	32.49	0.00	65.75	<48	--	--	<0.2	<0.2	<0.2	<0.6	--	<6.9	<6.9
	08/28/06	--	--	--	<48	--	--	4	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/14/06	41.00	0.00	57.24	<48	--	--	4	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	02/21/07	31.14	0.00	67.10	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	57.8	47.6
	05/22/07	27.90	0.00	70.34	<50	--	--	1	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	08/20/07	35.30	0.00	62.94	<50	--	--	2	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/19/07	38.67	0.00	59.57	700	--	--	230	15	49	7	<0.5	<6.9	<6.9
413.26	02/19/08	34.37	0.00	63.87	390	--	--	<0.5	83	12	18	10	12.1	<6.9
	05/19/08	32.28	0.00	380.98	800	--	--	280	37	52	49	<0.5	23.4	<6.9
	08/18/08	36.15	0.00	377.11	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/18/08	38.74	0.00	374.52	790	--	--	290	17	35	64	<0.5	<6.9	<6.9
	02/04/09	37.20	0.00	376.06	388	<83	<420	300	7.40	34	20	<1	1.06	--
	05/04/09	32.52	0.00	380.74	<50.0	<83	<420	<1.0	<1.0	<1.0	<1.0	<1.0	20.8	<1.0
	08/03/09	34.00	0.00	379.26	2,050	--	--	697	30.7	126	158	<5.0	1.4	0.4
	11/03/09	38.52	0.00	374.74	1,660 1n 22	--	--	260	8.6	100	118	<1.0	2.2	0.11
	02/08/10	33.24	0.00	380.02	19.23 1n	--	--	16.7	<1.0	1.8	3.8	<1.0	18.8	<0.10
	05/03/10	28.13	0.00	385.13	<50.0	--	--	1.1	<1.0	<1.0	<3.0	<1.0	24.9	<0.10
	09/07/10	33.90	0.00	379.36	1,380	--	--	368	13.2	93.9	156	<1.0	7.1	<0.10
	12/01/10	35.78	0.00	377.48	522	--	--	277 M1	4.3	39.2	43.9	<1.0	5.3	0.25
	02/10/11	27.49	0.00	385.77	399	--	--	123	2.0	21.9	27.4	<1.0	1.6	0.14
	05/18/11	24.38	0.00	388.88	<50.0	--	--	<1.0	<1.0	<1.0	<3.0	--	1.4	<0.10
	09/02/11	32.32	0.00	380.94	527	--	--	79.8	3.1	16.2	39.0	--	8.1	<0.10
	12/07/11	37.32	0.00	375.94	1,260	--	--	112	4.2	38.3	68.2	<1.0	1.6	0.14
	02/23/12	38.05	0.00	375.21	187	--	--	37.2	<1.0	8.6	8.4	--	4.8	--
	05/22/12	27.95	0.00	385.31	<50.0	--	--	<1.0	<1.0	<1.0	<3.0	--	0.86	<0.10
	08/01/12	31.33	0.00	381.93	<50.0	--	--	4.8	<1.0	<1.0	<3.0	--	<0.10	<0.10
	03/22/13	29.28	0.00	383.98	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	31.2	<10.0
	09/20/13	32.94	0.00	380.32	1,050	--	--	92.8	6	39	97	--	<10.0	<10.0
	12/19/14	36.47	0.00	376.79	530	<100	<500	190	4.1	34	48	--	<5.0	<5.0
	4/29/2015**	27.39	0.00	385.87	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	07/23/15	33.54	0.00	379.72	3,760	--	--	252	19.0	164	303	--	--	--
	10/15/15	38.12	0.00	375.14	2,560	--	--	197	13.8	125	243	--	--	--
	10/07/16	37.00	0.00	376.26	1,140	--	--	115	7.0	49.5	77.0	--	<10.0	<10.0
	09/20/17	33.16	0.00	380.10	739	--	--	128	8.1	44.6	56.1	--	<10.0	<10.0
	09/04/18	35.34	0.00	377.92	<19.6	--	--	0.34 J	<0.083	0.25J	<0.31	--	<2.0	<2.0
Well Decommissioned in October 2018														
GW7D ¹	11/11/94	77.35	0.00	19.82	<50	--	--	1.3	2	<1	2	--	<2	--
	02/17/95	77.30	0.00	19.87	<50	--	--	0.7	<1	<1	<1	--	<2	--
	05/16/95	73.53	0.00	23.64	<50	--	--	1.5	<1	<1	<1	--	19	--
	08/09/95	75.50	0.00	21.67	<50	--	--	<4	<1	<1	<1	--	5	--
	11/06/95	75.73	0.00	21.44	<50	--	--	6.6	<1	<1	<1	--	12	--
	02/13/96	75.58	0.00	21.59	<50	--	--	1.1	<1	<1	<1	--	<2	--
	02/21/96	75.10	0.00	22.07	--	--	--	--	--	--	--	--	--	--
	05/21/96	73.61	0.00	23.56	--	--	--	--	--	--	--	--	--	--
	06/06/96	73.55	0.00	23.62	--	--	--	--	--	--	--	--	--	--
	06/11/96	73.46	0.00	23.71	<50	--	--	2.1	<1	<1	<1	--	7	--
	09/24/96	72.84	0.00	24.33	<50	--	--	2.6	<1	<1	<1	--	10	--
	12/12/96	73.18	0.00	23.99	<50	--	--	1.2	<1	<1	<1	--	9	--
	03/24/97	68.85	0.00	28.32	<50	--	--	0.8	<1	<1	<1	--	3	--
	04/11/97	71.89	0.00	25.28	--	--	--	--	--	--	--	--	--	--
	06/18/97	71.19	0.00	25.98	<50	--	--	1.0	<1	<1	<1	--	10	--
	08/25/97	70.32	0.00	26.85	<50	--	--	1.1	<1	<1	<1	--	10	--
	11/19/97	71.79	0.00	25.38	<50	--	--	<1	<1	<1	<1	--	14	--
	02/12/98 ^{NP}	71.27	0.00	25.90	<50	--	--	<1	<1	<1	<1	--	2	--
	05/14/98 ^{NP}	70.75	0.00	26.42 ^b	<50	--	--	<0.5	<1	<1	<1	--	6	--
	08/25/98	70.64	0.00	26.53 ^b	--	--	--	--	--	--	--	--	--	--
	11/13/98	71.30	0.00	25.87 ^b	--	--	--	--	--	--	--	--	--	--
	02/10/99	73.76	0.00	23.41 ^b	--	--	--	--	--	--	--	--	--	--
	05/28/99 ^{NP}	69.40	0.00	27.77 ^b	<50	--	--	2.7	<1	<1	<1	--	8	--
	08/18/99 ^{NP}	71.23	0.00	25.94 ^b	--	--	--	--	--	--	--	--	--	--
	11/11/99 ^{NP}	71.62	0.00	25.55	--	--	--	--	--	--	--	--	--	--
	02/09/00 ^{NP}	73.20	0.00	23.97	--	--	--	--	--	--	--	--	--	--
	05/24/00 ^{NP}	76.55	0.00	20.62	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	--	--
	09/11/00	NM	--	--	--	--	--	--	--	--	--	--	--	--
	11/27/00	NM	--	--	--	--	--	--	--	--	--	--	--	--
	02/23/01	NM	--	--	--	--	--	--	--	--	--	--	--	--
	05/16/01	77.97												

TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA
 Phillips 66 Facility No. 2701476 (AOC 2063)
 12660 First Avenue South
 Seattle, Washington

Well ID TOC Elevation	Sample Date				Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Metals	
		DTW (feet)	LPH (feet)	GW Elev. (feet)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MTCA Method A Cleanup Levels					1,000/800^a	500	500	5	1,000	700	1,000	20	15	15
GW7D	05/16/05	77.07	0.00	20.10	<100	--	--	<1	<1	<1	<3	<1	<15	<15
	08/18/05	77.68	0.00	19.49	<48	--	--	<0.2	<0.2	<0.2	<0.6	<0.3	<8.4	--
(Cont)	11/22/05	77.17	0.00	20.00	<48	--	--	<0.2	<0.2	<0.2	<0.6	--	<8.4	--
	03/01/06	76.84	0.00	20.33	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<8.4	--
	05/30/06	76.32	0.00	20.85	<48	--	--	<0.2	<0.2	<0.2	<0.6	--	8.7	<6.9
	08/28/06	75.71	0.00	21.46	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/14/06	76.22	0.00	20.95	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	02/21/07	75.58	0.00	21.59	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	62.1	52
	05/22/07	74.70	0.00	22.47	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	08/20/07	74.05	0.00	23.12	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/19/07	74.91	0.00	22.26	65	--	--	<0.5	2	<0.8	1	<0.5	12.7	<6.9
	02/19/08	75.02	0.00	22.15	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	24.6	<6.9
412.23	05/19/08	75.12	0.00	337.11	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	20.0	<6.9
	08/18/08	75.37	0.00	336.86	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/18/08	75.85	0.00	336.38	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	7.9	<6.9
	02/04/09	76.11	0.00	336.12	--	--	--	--	--	--	--	--	--	--
	05/05/09	76.35	0.00	335.88	<50.0	<83	<420	<1.0	<1.0	<1.0	<1.0	<1.0	6.3	<1.0
	08/03/09	76.24	0.00	335.99	--	--	--	--	--	--	--	--	--	--
	11/03/09	76.58	0.00	335.65	Well gauged only this quarter.									
	02/08/10	76.79	0.00	335.44	Well gauged only this quarter.									
	05/03/10	76.13	0.00	336.1	Well gauged only this quarter.									
	09/07/10	75.29	0.00	336.94	Well gauged only this quarter.									
	12/01/10	75.81	0.00	336.42	Well gauged only this quarter.									
	02/10/11	74.84	0.00	337.39	Well gauged only this quarter.									
	05/18/11	74.08	0.00	338.15	Well gauged only this quarter.									
	09/02/11	73.31	0.00	338.92	Well gauged only this quarter.									
	12/07/11	73.80	0.00	338.43	<50.0	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	23.3	0.23
	02/23/12	74.64	0.00	337.59	Well gauged only this quarter.									
	05/22/12	74.36	0.00	337.87	Well gauged only this quarter.									
	08/01/12	NM	--	--	--	--	--	--	--	--	--	--	--	--
	03/22/13	NM	--	--	--	--	--	--	--	--	--	--	--	--
	09/20/13	NM	--	--	--	--	--	--	--	--	--	--	--	--
	12/19/14	NM	--	--	Well submerged under large surface puddle of water - not accessible.									
	04/29/15	75.27	--	336.96	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	19.0	<10.0
	07/23/15	74.80	--	337.43	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--
	10/15/15	75.24	--	336.99	<250	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--
	10/07/16	73.80	--	338.43	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	21.6	<10.0
	09/20/17	71.70	--	340.53	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	09/05/18	72.98	--	339.25	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	2.7J	<2.0
	12/13/18	73.55	--	338.68	<19.6	--	--	4.4	1.7	0.31 J	<0.31	--	11.6	<2.0
	03/26/19	74.65	--	337.58	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
	06/25/19	74.90	--	337.33	<38.3	--	--	<0.10	<0.083	<0.14	<0.31	--	2.9J	<2.0
GW8S	12/11/18	35.35	0.00	378.42	Insufficient water to sample									
413.77	03/27/19	20.02	0.00	393.75	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
	06/26/19	21.92	0.00	391.85	<38.3	--	--	<0.10	<0.83	<0.14	<0.31	--	<2.0	<2.0
GW-8D¹	11/11/94	79.12	0.00	19.70	88,000	--	--	17,000	18,000	1,000	7,000	--	4	--
	02/17/95	79.04	0.00	19.78	11,000	--	--	20,000	22,000	1,650	9,200	--	5	--
98.82	05/16/95	78.28	0.00	20.54	98,000	--	--	19,000	18,000	1,500	8,300	--	7	--
	08/09/95	77.57	0.00	21.25	95,000	--	--	21,000	19,000	1,400	7,400	--	6	--
	11/06/95	77.49	0.00	21.33	99,000	--	--	21,000	21,000	1,600	8,100	--	4	--
	02/13/96	77.27	0.00	21.55	110,000	--	--	25,000	28,000	2,000	10,000	--	5	--
	02/21/96	76.87	0.00	21.95	--	--	--	--	--	--	--	--	--	--
	05/21/96	75.33	0.00	23.49	100,000	--	--	23,000	24,000	1,700	9,400	--	2	--
	06/06/96	75.13	0.00	23.69	--	--	--	--	--	--	--	--	--	--
	06/11/96	75.17	0.00	23.65	--	--	--	--	--	--	--	--	--	--
	09/24/96	74.60	0.00	24.22	92,000	--	--	18,000	18,000	1,500	7,700	--	4	--
	12/12/96	75.11	0.00	23.71	130,000	--	--	19,000	22,000	1,600	8,500	--	4	--
	03/24/97	74.04	0.00	24.78	73,000	--	--	14,000	18,000	1,400	7,400	--	3	--
	04/11/97	73.57	0.00	25.25	--	--	--	--	--	--	--	--	--	--
	06/18/97	73.38	0.00	25.44	90,000	--	--	20,000	23,000	1,500	8,200	--	7	--
	08/25/97	72.08	0.00	26.74	47,000	--	--	10,000	10,000	840	4,800	--	7	--
	11/19/97	72.91	0.00	25.91	39,000	--	--	8,000	7,600	760	12,000	--	11	--
	02/12/98 ^{NP}	73.04	0.00	25.78	6,600	--	--	920	420	120	350	--	<2	--
	05/14/98 ^{NP}	72.40	0.00	26.42	640	--	--	200	92	24	110	--	4	--
	08/25/98 ^{NP}	64.50	0.00	34.32 ^b	4,200	--	--	150	850	34	820	--	3	--
	11/13/98 ^{NP}	73.98	0.00	24.84 ^b	1,500	--	--	38	68	2	460	--	10	--
	02/10/99	75.38	0.00	23.44 ^b	284	--	--	66.4	10.5	6.45	23.1	--	--	--
	05/28/99 ^{NP}	64.90	0.00	33.92 ^b	17,000	--	--	230	1,200	100	3,400	--	4	--
	08/18/99 ^{NP}	72.90	0.00	25.92 ^b	<50	--	--	0.7	<1	<1	<1	--	--	--
	11/11/99 ^{NP}	76.78	0.00	22.04	<50.0	--	--	2.46	<0.500	0.509	1.44	--	1.06	--
	02/09/00 ^{NP}	74.83	0.00	23.99	<50	--	--	3.4	<1	<1	<1	--	<2	--
	05/24/00 ^{NP}	73.25	0.00	25.57	8,100	--	--	34.3	10.6	<5.00	1,850	--	--	--
	09/11/00 ^{NP}	67.00	0.00	31.82	69.2	--	--	0.503	<0.500	<0.500	6.87	--	--	--
	11/27/00	DRY	--	--	--	--	--	--	--	--	--	--	--	--
	02/23/01	73.69	0.00	25.13	62.1	--	--	<0.500	<0.500	<0.500	<1.00	--	2.03	--
	05/16/01	DRY	--	--	--	--	--	--	--	--	--	--	--	--
	08/30/01 ^{NP}	78.15	0.00	20.67	<50.0	--	--	<0.500	<0.500	<0.500	3.05	--	1.50	--
	11/19/01	78.87	0.00	19.95	99.1	--	--	<0.500	2.47	<0.500	25.6	--	<1.00	--
	05/04/02	76.32	0.00	22.50	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	--
	11/20/02	77.19	0.00	21.63	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	<1.00
	05/21/03 ^{NP}	77.11	0.00	21.71	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	<1.00
	11/1													

TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA
 Phillips 66 Facility No. 2701476 (AOC 2063)
 12660 First Avenue South
 Seattle, Washington

Well ID TOC Elevation	Sample Date				Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Metals	
		DTW (feet)	LPH (feet)	GW Elev. (feet)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MTCA Method A Cleanup Levels					1,000/800^a	500	500	5	1,000	700	1,000	20	15	15
GW8D	11/19/07	76.60	0.00	22.22	150	--	--	3	5	1	8	<0.5	<6.9	<6.9
	(Cont)	02/19/08	76.65	0.00	22.17	<50	--	<0.5	<0.7	<0.8	<0.8	<0.5	7.7	<6.9
413.79	05/19/08	76.76	0.00	337.03	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	08/18/08	77.09	0.00	336.70	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/17/08	77.50	0.00	336.29	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	02/04/09	77.75	0.00	336.04	--	--	--	--	--	--	--	--	--	--
	05/05/09	78.04	0.00	335.75	<50.0	<85	<430	<1.0	<1.0	<1.0	3.1	<1.0	1.8	<1.0
	08/03/09	77.93	0.00	335.86	--	--	--	--	--	--	--	--	--	--
	11/03/09	78.20	0.00	335.59	Well gauged only this quarter.									
	02/08/10	78.40	0.00	335.39	Well gauged only this quarter.									
	05/03/10	77.79	0.00	336.00	Well gauged only this quarter.									
	09/07/10	76.95	0.00	336.84	Well gauged only this quarter.									
	12/01/10	77.46	0.00	336.33	<50.0	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	8.5	0.15
	02/10/11	74.16	0.00	339.63	Well gauged only this quarter.									
	05/18/11	75.58	0.00	338.21	Well gauged only this quarter.									
	09/02/11	74.90	0.00	338.89	Well gauged only this quarter.									
	12/07/11	75.47	0.00	338.32	Well gauged only this quarter.									
	02/23/12	76.29	0.00	337.50	Well gauged only this quarter.									
	05/22/12	76.72	0.00	337.07	Well gauged only this quarter.									
	08/01/12	NM	--	--	--	--	--	--	--	--	--	--	--	--
	03/22/13	NM	--	--	--	--	--	--	--	--	--	--	--	--
	09/20/13	NM	--	--	--	--	--	--	--	--	--	--	--	--
	12/18/14	77.11	0.00	336.68	<100	<100	<500	<0.50	<0.50	<0.50	<0.50	--	<5.0	<5.0
	04/29/15	76.89	0.00	336.90	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	07/23/15	76.46	0.00	337.33	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--
	10/15/15	76.91	0.00	336.88	<250	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--
	09/28/16	75.30	0.00	338.49	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	09/20/17	73.40	0.00	340.39	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	09/05/18	74.62	0.00	339.17	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
	12/12/18	75.05	0.00	338.74	<19.6	--	--	<0.10	<0.083	0.283	<0.31	--	2.23	<2.0
	03/27/19	76.29	0.00	337.50	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
	06/26/19	76.42	0.00	337.37	<38.3	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
GW9D¹	11/11/94	79.83	0.00	19.74	93,000	--	--	6,600	18,000	1,400	9,300	--	<2	--
	99.57	02/17/95	79.79	0.00	87,000	--	--	9,100	17,000	1,330	7,900	--	3	--
	05/16/95	78.99	0.00	20.58	68,000	--	--	7,700	12,000	1,200	6,000	--	3	--
	08/09/95	78.32	0.00	21.25	88,000	--	--	12,000	18,000	1,200	7,100	--	6	--
	11/06/95	78.23	0.00	21.34	88,000	--	--	11,000	20,000	1,300	7,900	--	<2	--
	02/13/96	78.00	0.00	21.57	69,000	--	--	11,000	16,000	1,300	6,300	--	3	--
	02/21/96	77.60	0.00	21.97	--	--	--	--	--	--	--	--	--	--
	05/21/96	76.05	0.00	23.52	76,000	--	--	13,000	20,000	1,500	7,500	--	2	--
	06/06/96	76.01	0.00	23.56	--	--	--	--	--	--	--	--	--	--
	06/11/96	75.91	0.00	23.66	--	--	--	--	--	--	--	--	--	--
	09/24/96	75.26	0.00	24.31	34,000	--	--	4,600	6,200	650	2,800	--	6	--
	12/12/96	75.77	0.00	23.80	100,000	--	--	11,000	18,000	1,700	8,400	--	6	--
	03/24/97	74.81	0.00	24.76	64,000	--	--	7,400	14,000	1,400	1,200	--	10	--
	04/11/97	74.32	0.00	25.25	--	--	--	--	--	--	--	--	--	--
	06/18/97	73.05	0.00	26.52	74,000	--	--	8,500	20,000	1,500	7,700	--	8	--
	08/25/97	72.87	0.00	26.70	47,000	--	--	4,000	11,000	940	4,600	--	8	--
	11/19/97	73.61	0.00	25.96	34,000	--	--	2,500	6,900	760	3,300	--	27	--
	02/12/98 ^{NP}	73.75	0.00	25.82	52	--	--	2	4	2	7	--	3	--
	05/14/98 ^{NP}	73.12	0.00	26.45	<50	--	--	<0.5	<1	<1	1	--	<2	--
	08/25/98 ^{NP}	72.54	0.00	27.03	46,000	--	--	1,800	6,700	150	11,000	--	6	--
	11/13/98 ^{NP}	74.80	0.00	24.77	200	--	--	93	6	6	32	--	2	--
	02/10/99	76.08	0.00	23.49	3,250	--	--	647	215	112	482	--	--	--
	05/28/99 ^{NP}	68.45	0.00	31.12	3,000	--	--	32	34	10	630	--	9	--
	08/18/99 ^{NP}	73.61	0.00	25.96	<50	--	--	2.9	<1	<1	<1	--	--	--
	11/11/99 ^{NP}	77.38	0.00	22.19	6,440	--	--	2,510	129	625	841	--	7.05	--
	02/09/00 ^{NP}	75.54	0.00	24.03	320	--	--	34	<0.5	0.67	0.74	--	<2	--
	05/24/00 ^{NP}	75.90	0.00	23.67	98.0	--	--	<1.25	<0.550	<0.500	3.11	--	--	--
	09/11/00 ^{NP}	68.40	0.00	31.17	1,160	--	--	94.8	2.53	40.3	134	--	--	--
	11/27/00 ^{NP}	76.41	0.00	23.16	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	3.70	--
	02/23/01	74.59	0.00	24.98	133	--	--	0.721	<0.500	3.34	3.07	--	10.6	--
	05/16/01	79.10	0.00	20.47	<50.0	--	--	3.92	<0.500	1.18	<1.00	--	<100	--
	08/30/01 ^{NP}	78.85	0.00	20.72	63.4	--	--	52.5	<0.500	2.39	<1.00	--	2.03	--
	11/19/01	79.38	0.00	20.19	<50.0	--	--	0.726	<0.500	<0.500	<1.00	--	<1.00	--
	05/04/02	78.05	0.00	21.52	<50.0	--	--	0.670	<0.500	<0.500	1.31	--	2.76	--
	11/20/02	77.97	0.00	21.60	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	<1.00
	05/21/03 ^{NP}	78.09	0.00	21.48	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	<1.00
	11/14/03 ^{NP}	78.36	0.00	21.22	<50.0	--	--	<1.00	<1.00	<1.00	<1.50	--	<5.00	<5.00
	5/13/04 ^{NP}	78.40	0.00	21.17	<100	--	--	<1.00	<1.00	<1.00	<3.00	--	<5.00	<5.00
	12/10/04 ^{NP}	78.48	0.00	21.09	<100	--	--	<1.00	<1.00	<1.00	<3.00	--	<10.0	<10.0
	02/08/05	78.85	0.00	20.72	<100	--	--	<0.5	<1.00	<1.00	<3.00	--	<10.0	<10.0
	05/16/05	79.71	0.00	19.86	<100	--	--	<1	<1	<1	<3	<1	<15	<15
	08/18/05	79.94	0.00	19.63	<48	--	--	0.6	<0.2	<0.2	<0.6	<0.3	<8.4	--
	11/22/05	79.37	0.00	20.20	<48	--	--	0.6	<0.2	<0.2	<0.6	--	<8.4	--
	03/01/06	79.12	0.00	20.45	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<8.4	--
	05/31/06	78.42	0.00	21.15	<48	--	--	<0.2	<0.2	<0.2	<0.6	--	<6.9	<6.9
	08/28/06	77.87	0.00	21.70	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/14/06	78.45	0.00	21.12	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	02/21/07	77.88	0.00	21.69	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	52.9	49.5
	05/22/07	77.00	0.00	22.57	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0		

Well ID TOC Elevation	Sample Date				Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Metals	
		DTW (feet)	LPH (feet)	GW Elev. (feet)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MTCA Method A Cleanup Levels					1,000/800*	500	500	5	1,000	700	1,000	20	15	15
	02/10/11	77.80	0.00	336.73										
GW9D ¹ Cont.	05/18/11	76.37	0.00	338.16										
	09/02/11	75.65	0.00	338.88										
	12/07/11	76.18	0.00	338.35										
	02/23/12	76.92	0.00	337.61										
	05/22/12	76.04	0.00	338.49										
	08/01/12	NM	--	--	--	--	--	--	--	--	--	--	--	--
	03/22/13	NM	--	--	--	--	--	--	--	--	--	--	--	--
	09/20/13	NM	--	--	--	--	--	--	--	--	--	--	--	--
	12/18/14	77.82	--	336.71	<100	<100	<500	<0.50	<0.50	<0.50	<0.50	--	<5.0	<5.0
	04/29/15	77.57	--	336.96	272	--	--	<1.0	<1.0	<1.0	10.8	--	<10.0	<10.0
	07/23/15	77.17	--	337.36	148	--	--	<1.0	<1.0	<1.0	4.9	--	--	--
	10/15/15	78.23	--	336.30	<250	--	--	<0.5	<0.5	<0.5	2.8	--	--	--
	10/07/16	76.10	--	338.43	130	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	09/20/17	74.09	--	340.44	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	09/05/18	75.37	--	339.16	<19.6	--	--	<0.10	0.17 J	<0.14	<0.31	--	<2.0	<2.0
	12/12/18	75.75	--	338.78	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
	03/28/19	76.98	--	337.55	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
	06/26/19	77.50	--	337.03	<38.3	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
GW10S 414.46	12/13/18	22.10	--	392.36	<19.6	--	--	0.37 J	0.32 J	<0.14	<0.31	--	<2.0	<2.0
	03/27/19	20.90	--	393.56	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
	06/26/19	22.13	--	392.33	<38.3	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
GW10D ³ 100.56	11/11/94	80.74	0.00	19.82	510	--	--	14.4	39	2	46	--	<2	--
	02/17/95	80.68	0.00	19.88	1,230	--	--	19.8	119	11	129	--	<2	--
	05/16/95	79.89	0.00	20.67	810	--	--	19.2	94	<1	97	--	<2	--
	08/09/95	79.21	0.00	21.35	120	--	--	2.2	6	<1	21	--	2	--
	11/06/95	79.10	0.00	21.46	290	--	--	5.9	21	<1	46	--	2	--
	02/13/96	78.92	0.00	21.64	2,600	--	--	38	291	10	324	--	<2	--
	02/21/96	78.48	0.00	22.08	--	--	--	--	--	--	--	--	--	--
	05/21/96	77.00	0.00	23.56	1,260	--	--	28.9	121	8	190	--	<2	--
	06/06/96	76.94	0.00	23.62	--	--	--	--	--	--	--	--	--	--
	06/11/96	76.82	0.00	23.74	--	--	--	--	--	--	--	--	--	--
	09/24/96	76.15	0.00	24.4										

TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA
 Phillips 66 Facility No. 2701476 (AOC 2063)
 12660 First Avenue South
 Seattle, Washington

Well ID TOC Elevation	Sample Date				Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Metals	
		DTW (feet)	LPH (feet)	GW Elev. (feet)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MTCA Method A Cleanup Levels					1,000/800*	500	500	5	1,000	700	1,000	20	15	15
GW10D (Cont)	04/29/15	78.41	--	336.89	<100	<92	<230	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	07/23/15	77.93	--	337.37	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	10/15/15	78.35	--	336.95	<250	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--
	09/27/16	76.80	--	338.50	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	09/19/17	74.79	--	340.51	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	09/04/18	76.06	--	339.24	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
	12/13/18	76.60	--	338.70	<19.6	--	--	1.5	0.90 J	0.18 J	<0.31	--	2.9J	<2.0
	03/27/19	77.75	--	337.55	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
	06/26/19	77.90	--	337.40	<38.3	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
	09/12/19	78.60	--	336.70	<38.3	<75.3	205J	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
	12/12/19	79.00	--	336.30	<38.3	<67.7	<79.9	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
GW11D ¹	11/11/94	79.83	0.00	19.89	<50	--	--	<0.5	<1	<1	<1	--	2	--
99.72	02/17/95	79.81	0.00	19.91	<50	--	--	<0.5	<1	<1	<1	--	5	--
	05/16/95	79.01	0.00	20.71	<50	--	--	1.5	<1	<1	<1	--	8	--
	08/09/95	78.35	0.00	21.37	<50	--	--	2.5	<1	<1	<1	--	4	--
	11/06/95	78.20	0.00	21.52	<50	--	--	0.7	<1	<1	<1	--	2	--
	02/13/96	78.02	0.00	21.70	<50	--	--	<0.5	<1	<1	<1	--	2	--
	02/21/96	77.55	0.00	22.17	--	--	--	--	--	--	--	--	--	--
	05/21/96	76.09	0.00	23.63	--	--	--	--	--	--	--	--	--	--
	06/06/96	76.03	0.00	23.69	--	--	--	--	--	--	--	--	--	--
	06/11/96	75.92	0.00	23.80	<50	--	--	<0.5	<1	<1	<1	--	6	--
	09/24/96	75.28	0.00	24.44	<50	--	--	<0.5	<1	<1	1	--	25	--
	12/12/96	75.80	0.00	23.92	<50	--	--	<0.5	<1	<1	<1	--	11	--
	03/24/97	74.69	0.00	25.03	<50	--	--	<0.5	<1	<1	<1	--	29	--
	04/11/97	74.34	0.00	25.38	--	--	--	--	--	--	--	--	--	--
	06/18/97	73.11	0.00	26.61	<50	--	--	<0.5	<1	<1	<1	--	19	--
	08/25/97	73.00	0.00	26.72	<50	--	--	<0.5	<1	<1	<1	--	19	--
	11/19/97	73.61	0.00	26.11	<50	--	--	<0.5	<1	<1	<1	--	23	--
	02/12/98 ^{NP}	73.78	0.00	25.94	<50	--	--	<0.5	<1	<1	<1	--	9	--
	05/14/98 ^{NP}	73.17	0.00	26.55	<50	--	--	<0.5	<1	<1	<1	--	<2	--
	08/25/98	70.10	0.00	29.62	--	--	--	--	--	--	--	--	--	--
	11/13/98	73.65	0.00	26.07	--	--	--	--	--	--	--	--	--	--
	02/10/99	76.10	0.00	23.62	--	--	--	--	--	--	--	--	--	--
	05/28/99 ^{NP}	64.90	0.00	34.82	<50	--	--	<0.5	<1	<1	<1	--	98	--
	08/18/99 ^{NP}	73.88	0.00	25.84	--	--	--	--	--	--	--	--	--	--
	11/11/99 ^{NP}	77.08	0.00	22.64	--	--	--	--	--	--	--	--	--	--
	02/09/00 ^{NP}	75.61	0.00	24.11	--	--	--	--	--	--	--	--	--	--
	05/24/00 ^{NP}	75.55	0.00	24.17	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	--	--
	09/11/00	NM	--	--	--	--	--	--	--	--	--	--	--	--
	11/27/00	NM	--	--	--	--	--	--	--	--	--	--	--	--
	02/23/01	NM	--	--	--	--	--	--	--	--	--	--	--	--
	05/16/01 ^{NP}	80.33	0.00	19.39	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	--
	08/30/01	NM	--	--	--	--	--	--	--	--	--	--	--	--
	11/19/01	80.66	0.00	19.06	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	--
	05/04/02	78.07	0.00	21.65	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	2.18	--
	11/20/02	78.44	0.00	21.28	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	1.54	<1.00
	05/21/03 ^{NP}	78.07	0.00	21.65	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	1.21	<1.00
	11/14/03 ^{NP}	78.68	0.00	21.05	<50.0	--	--	<1.00	<1.00	<1.00	<1.50	--	<5.00	<5.00
	5/13/04 ^{NP}	78.57	0.00	21.15	<100	--	--	<1.00	<1.00	<1.00	<3.00	--	<5.00	<5.00
	12/9/04 ^{NP}	79.91	0.00	19.81	<100	--	--	<1.00	<1.00	<1.00	<3.00	--	<10.0	<10.0
	02/08/05	79.61	0.00	20.11	<100	--	--	<0.5	<1.00	<1.00	<3.00	--	<10.0	--
	05/16/05	79.75	0.00	19.97	<100	--	--	<1	<1	<1	<3	<1	<15	<15
	08/18/05	80.32	0.00	19.40	<48	--	--	<0.2	<0.2	<0.2	<0.6	<0.3	<8.4	--
	11/22/05	79.58	0.00	20.14	<48	--	--	<0.2	<0.2	<0.2	<0.6	--	<8.4	--
	03/01/06	79.24	0.00	20.48	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<8.4	--
	05/30/06	78.62	0.00	21.10	<48	--	--	<0.2	<0.2	<0.2	<0.6	--	<6.9	<6.9
	08/28/06	78.00	0.00	21.72	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/14/06	78.54	0.00	21.18	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	02/21/07	77.95	0.00	21.77	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	76.7	65.5
	05/22/07	77.05	0.00	22.67	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
GW11D ¹ DUP	05/22/07	77.05	0.00	22.67	--	--	--	--	--	--	--	--	<6.9	<6.9
	08/20/07	76.39	0.00	23.33	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/19/07	77.22	0.00	22.50	91	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	02/19/08	77.35	0.00	22.37	--	--	--	--	--	--	--	--	--	--
414.58	05/19/08	77.48	0.00	337.10	--	--	--	--	--	--	--	--	--	--
	08/18/08	77.68	0.00	336.90	--	--	--	Well not sampled due to obstruction.						
	11/17/08	78.19	0.00	336.39	--	--	--	Well not sampled due to obstruction.						
	02/04/09	78.45	0.00	336.13	--	--	--	Well not sampled due to obstruction.						
	05/04/09	78.54	0.00	336.04	--	--	--	Well not sampled due to obstruction.						
	08/03/09	78.60	0.00	335.98	--	--	--	Well not sampled due to obstruction.						
	11/03/09	78.91	0.00	335.67	--	--	--	Well not sampled due to obstruction.						
	02/08/10	79.15	0.00	335.43	--	--	--	Well not sampled due to obstruction.						
	05/03/10	78.52	0.00	336.06	--	--	--	Well gauged only this quarter.						
	09/07/10	77.65	0.00	336.93	--	--	--	Well gauged only this quarter.						
	12/01/10	78.18	0.00	336.40	--	--	--	Well gauged only this quarter.						
	02/10/11	75.79	0.00	338.79	--	--	--	Well gauged only this quarter.						
	05/18/11	76.45	0.00	338.13	--	--	--	Well gauged only this quarter.						
	09/02/11	75.52	0.00	339.06	--	--	--	Well gauged only this quarter.						
	12/07/11	76.16	0.00	338.42	<50	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	7.9	0.15
	02/23/12	77.00	0.00	337.58	--	--	--	Well gauged only this quarter.						
	05/22/12	76.72	0.00	337.86	--	--	--	Well gauged only this quarter.						
	08/01/12	NM	--	--	--	--	--	--	--	--	--	--	--	--
	03/22/13	NM	--	--	--	--	--	--	--	--	--	--	--	--
	09/20/13	NM	--	--	--	--	--	--	--	--	--	--	--	--
	12/19/14	77.83	0.00	336.75	<100	110	<500	1.3	<0.50	0.92	2.3	--	<5.0	<5.0
	04/29/15	77.64	0.00	336.94	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	07/23/15	77.14	0.00	337.44	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--
	10/15/15	77.56	0.00	337.02	<250	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--
	09/27/16	75.90	0.00	338.68	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	09/19/17	74.00	0.00	340.58	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	14.3	<10.0
	09/04/18	75.28	0.00	339.30	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	2.1J	<2.0
	12/11/18	75.85	0.00	338.73	<									

TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA
 Phillips 66 Facility No. 2701476 (AOC 2063)
 12660 First Avenue South
 Seattle, Washington

Well ID TOC Elevation	Sample Date				Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Metals	
		DTW (feet)	LPH (feet)	GW Elev. (feet)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MTCA Method A Cleanup Levels					1,000/800*	500	500	5	1,000	700	1,000	20	15	15
91.32	05/16/95	67.52	0.00	23.80	<50	--	--	<0.5	<1	<1	<1	--	<2	--
	08/09/95	67.18	0.00	24.14	<50	--	--	<0.5	<1	<1	<1	--	<2	--
	11/06/95	67.51	0.00	23.81	<50	--	--	<0.5	<1	<1	<1	--	<2	--
	02/13/96	67.35	0.00	23.97	<50	--	--	<0.5	<1	<1	<1	--	<2	--
	02/21/96	66.98	0.00	24.34	--	--	--	--	--	--	--	--	--	--
	05/21/96	65.17	0.00	26.15	--	--	--	--	--	--	--	--	--	--
GW12D (cont)	06/06/96	65.09	0.00	26.23	--	--	--	--	--	--	--	--	--	--
	06/11/96	65.05	0.00	26.27	<50	--	--	<0.5	<1	<1	<1	--	23	--
	09/24/96	65.35	0.00	25.97	<50	--	--	<0.5	<1	<1	<1	--	7	--
	12/12/96	64.97	0.00	26.35	<50	--	--	<0.5	<1	<1	<1	--	17	--
	03/24/97	63.86	0.00	27.46	<50	--	--	<0.5	<1	<1	<1	--	7	--
	04/11/97	63.03	0.00	28.29	--	--	--	--	--	--	--	--	--	--
	06/18/97	62.12	0.00	29.20	<50	--	--	<0.5	<1	<1	<1	--	11	--
	08/25/97	62.24	0.00	29.08	<50	--	--	<0.5	<1	<1	<1	--	11	--
	11/19/97	NM	--	--	--	--	--	--	--	--	--	--	--	--
	02/12/98 ^{NP}	62.50	0.00	28.82	<50	--	--	<0.5	<1	<1	1	--	10	--
	05/14/98 ^{NP}	62.10	0.00	29.22	<50	--	--	<0.5	<1	<1	1	--	6	--
	08/25/98	63.19	0.00	28.13	--	--	--	--	--	--	--	--	--	--
	11/13/98	64.60	0.00	26.72	--	--	--	--	--	--	--	--	--	--
	02/10/99	65.13	0.00	26.19	--	--	--	--	--	--	--	--	--	--
	05/28/99 ^{NP}	61.84	0.00	29.48	<50	--	--	<0.5	<1	<1	<1	--	<2	--
	08/18/99 ^{NP}	62.92	0.00	28.40	--	--	--	--	--	--	--	--	--	--
	11/11/99 ^{NP}	64.40	0.00	26.92	--	--	--	--	--	--	--	--	--	--
	02/09/00 ^{NP}	64.98	0.00	26.34	--	--	--	--	--	--	--	--	--	--
	05/24/00 ^{NP}	63.14	0.00	28.18	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	--	--
	09/11/00	NM	--	--	--	--	--	--	--	--	--	--	--	--
	11/27/00	NM	--	--	--	--	--	--	--	--	--	--	--	--
	02/23/01	NM	--	--	--	--	--	--	--	--	--	--	--	--
	05/16/01 ^{NP}	66.70	0.00	24.62	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	4.41	--
	08/30/01	NM	--	--	--	--	--	--	--	--	--	--	--	--
	11/19/01	67.40	0.00	23.92	<50.0	--	--	<0.500	<0.500	<0.500	1.01	--	9.34	--
	05/04/02	66.32	0.00	25.00	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	5.87	--
	11/20/02	66.52	0.00	24.80	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	1.47	<1.00
	05/21/03 ^{NP}	66.65	0.00	24.67	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	1.96	<1.00
	11/14/03 ^{NP}	64.91	0.00	26.42	<50.0	--	--	<1.00	<1.00	<1.00	<1.50	--	<5.00	<5.00
	5/13/04 ^{NP}	64.80	0.00	26.52	<100	--	--	<1.00	<1.00	<1.00	<3.00	--	<5.00	<5.00
	12/10/04 ^{NP}	67.05	0.00	24.27	<100	--	--	<1.00	<1.00	<1.00	<3.00	--	15.5	<10.0
	02/08/05	67.31	0.00	24.01	<100	--	--	<0.5	<1.00	<1.00	<3.00	--	<10.0	<10.0
	05/16/05	67.05	0.00	24.27	<100	--	--	<1	<1	<1	<3	<1	<15	<15
	08/18/05	66.87	0.00	24.45	<48	--	--	<0.2	<0.2	<0.2	<0.6	<0.3	<8.4	--
	11/22/05	67.43	0.00	23.89	<48	--	--	<0.2	<0.2	<0.2	<0.6	--	<8.4	--
	03/01/06	66.90	0.00	24.42	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<8.4	--
	05/31/06	66.35	0.00	24.97	<48	--	--	<0.2	<0.2	<0.2	<0.6	--	<6.9	<6.9
	08/28/06	66.07	0.00	25.25	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/14/06	78.00	0.00	13.32	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	02/21/07	65.91	0.00	25.41	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	76.5	65.4
	05/22/07	66.08	0.00	25.24	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	12	<6.9
	08/20/07	64.97	0.00	26.35	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/19/07	69.95	0.00	21.37	<50	--	--	<0.5	0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	02/19/08	65.58	0.00	25.74	<50	--	--	<0.5	0.7	<0.8	<0.8	<0.5	19	<6.9
	05/19/08	65.45	0.00	341.11	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
406.56	08/18/08	65.88	0.00	340.68	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/17/08	66.40	0.00	340.16	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	02/04/09	Unable to locate well			--	--	--	--	--	--	--	--	--	--
	05/05/09	67.12	0.00	339.44	<50.0	<83	<420	<1.0	<1.0	<1.0	2.4	<1.0	3.7	<1.0
	08/03/09	64.60	0.00	341.96	--	--	--	--	--	--	--	--	--	--
	11/03/09	66.80	0.00	339.76	--	--	--	Well gauged only this quarter.						
	02/08/10	66.85	0.00	339.71	--	--	--	Well gauged only this quarter.						
	05/03/10	65.81	0.00	340.75	--	--	--	Well gauged only this quarter.						
	09/07/10	65.45	0.00	341.11	--	--	--	Well gauged only this quarter.						
	12/01/10	66.03	0.00	340.53	<50.0	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	8.3	0.50
	02/10/11	65.39	0.00	341.17	--	--	--	Well gauged only this quarter.						
	05/18/11	64.83	0.00	341.73	--	--	--	Well gauged only this quarter.						
	09/02/11	64.90	0.00	341.66	--	--	--	Well gauged only this quarter.						
	12/07/11	65.43	0.00	341.13	--	--	--	Well gauged only this quarter.						
	02/23/12	66.18	0.00	340.38	--	--	--	Well gauged only this quarter.						
	05/22/12	63.55	0.00	343.01	--	--	--	Well gauged only this quarter.						
	08/01/12	NM	--	--	--	--	--	--	--	--	--	--	--	--
	03/22/13	NM	--	--	--	--	--	--	--	--	--	--	--	--
	09/20/13	NM	--	--	--	--	--	--	--	--	--	--	--	--
	12/18/14	64.45	--	342.11	<100	<100	<500	<0.50	<0.50	<0.50	<0.50	--	<5.0	<5.0
	04/29/15	63.40	--	343.16	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	07/23/15	63.75	--	342.81	<100	--	--	<1.0	<1.0	1.5	<3.0	--	--	--
	10/15/15	65.62	--	340.94	--	--	--	Well gauged only this quarter.						
	10/07/16	64.50	--	342.06	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	09/19/17	62.35	--	344.21	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	09/05/18	63.65	--	342.91	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
	12/12/18	64.28	--	342.28	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	2.8J	<2.0
	03/28/19	64.94	--	341.62	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
	06/26/19	64.90	--	341.66	<38.3	--	--	<0.10	<0.083	<0.14	<0.31	--	3.6J	<2.0
	12/13/18	38.85	--	374.28	9,380	--	--	41.3	14	230.0	882	--	<2.0	<2.0
413.13	03/28/19	32.70	--	380.43	2,780	--	--	12.3	4.1	69.5	194	--	<2.0	<2.0
	06/28/19	34.46	--	378.67	712	--	--	0.55J	0.20J	8.3	46.5	--	3.8J	<2.0
	09/12/19	38.25	--	374.88	5,740	--	--	6.9	1.8	99.1	190	--	<2.0	<2.0
	12/11/19	40.00	--	375.30	6,150	--	--	34.2	9.9	144	257	--	2.3J	--
	12/13/18	74.30	--	338.64	<19.6	--	--	0.98 J	0.74 J	0.15 J	<0.31	--	10.00	<2.0
	03/26/19	75.34	--	337.60	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
	06/27/19	75.50	--	337.44	<38.3	--	--	<0.10	<0.083	<0.14	<0.31	--	2.5J	<2.0
	09/12/19	76.17	--	336.77	<38.3	--	--	<0.10	<0.083	<0.14	<0.31	--	4.2J	<2.0
	12/11/19	76.65	--	338.65	66.9J	--	--	<0.10	<0.083	<0.14	<0.31	--	5.0J	<2.0

TABLE 1 SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA Phillips 66 Facility No. 2701476 (AOC 2063) 12660 First Avenue South Seattle, Washington														
Well ID TOC Elevation	Sample Date				Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Metals	
		DTW (feet)	LPH (feet)	GW Elev. (feet)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MTCA Method A Cleanup Levels					1,000/800 ^a	500	500	5	1,000	700	1,000	20	15	15
GW14D	12/13/18	75.00	--	338.72	<19.6	--	--	12	0.40 J	<0.14	<0.31	--	<2.0	<2.0
413.72	03/30/19	76.12	--	337.60	502	--	--	580	1.5	34.4	3.5	--	<2.0	<2.0
	06/28/19	76.32	--	337.40	604	--	--	956	7.5	60.0	19.2	--	<2.0	<2.0
	09/12/19	76.82	--	336.90	402	--	--	671	3.0 J	23.1	<1.5	--	<2.0	<2.0
	12/12/19	77.30	--	338.00	39.9J	--	--	1.5	0.16J	0.15J	<0.31	--	4.4J	<2.0
GW15S	12/11/18	39.30	--	374.76	Insufficient Water to Sample									
414.06	03/30/19	32.69	--	381.37	398	--	--	1.0J	0.23J	10.8	26.6	--	<2.0	<2.0
	06/25/19	34.67	--	379.39	2,670	--	--	7.4	6.9	52.5	281	--	<2.0	<2.0
	09/12/19	38.63	--	375.43	987	--	--	0.50 J	0.81 J	9.8	30.4	--	<2.0	<2.0
	12/11/19	40.42	--	374.88	470	--	--	0.65J	1.1	12.0	17.6	--	<2.0	--
GW15D	12/13/18	56.00	--	358.01	<19.6	--	--	1.0	0.66 J	0.27 J	<0.31	--	8.1 J	<2.0
414.01	03/26/19	52.60	--	361.41	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
	06/25/19	52.40	--	361.61	<38.3	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
	09/12/19	54.60	--	359.41	<38.3	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
	12/11/19	57.35	--	357.95	61.8J	--	--	<0.10	0.16J	0.28J	<0.31	--	2.4J	--
GW16S	12/11/18	48.50	--	366.94	Insufficient Water to Sample									
415.44	03/30/19	42.69	--	372.75	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
	06/27/19	43.56	--	371.88	<38.3	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
GW16D	12/13/18	76.55	--	338.69	<19.6	--	--	0.59 J	0.44 J	0.17 J	<0.31	--	6.7 J	<2.0
415.24	03/27/19	77.64	--	337.60	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
	06/27/19	77.78	--	337.46	<38.3	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
GW17S	12/11/18	49.30	--	365.54	Insufficient Water to Sample									
414.84	03/30/19	48.00	--	366.84	<19.6	--	--	0.29 J	0.094 J	<0.14	<0.31	--	<2.0	<2.0
	06/27/19	47.00	--	367.84	<38.3	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
GW17D	02/27/00	76.08	--	338.99	<19.6	--	--	0.50 J	0.38 J	<0.14	<0.31	--	2.8 J	2.0 J
415.07	03/30/19	77.15	--	337.92	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	2.9J	<2.0
	06/27/19	77.35	--	337.72	<38.3	--	--	<0.10	<0.083	<0.14	<0.31	--	2.8J	<2.0
GW18S	12/11/18	48.38	--	365.93	Insufficient Water to Sample									
414.31	03/30/19	Dry	--	--	Insufficient Water to Sample									
	06/25/19	48.18	--	366.13	Insufficient Water to Sample									
	09/12/19	48.50	--	365.81	Insufficient Water to Sample									
	12/12/19	48.30	--	366.01	Insufficient Water to Sample									
GW18D	12/11/18	75.45	--	338.73	<19.6	--	--	<0.10	0.093 J	<0.14	<0.31	--	<2.0	<2.0
414.18	03/27/19	76.50	--	337.68	1,270	--	--	558	3.8	45.0	109	--	4.9J	<2.0
	06/28/19	76.60	--	337.58	241	--	--	62.3	1.2J	7.3	<1.5	--	<2.0	<2.0
	09/12/19	77.28	--	336.90	<38.3	--	--	1.8	<0.083	<0.14	<0.31	--	5.4J	<2.0
	12/12/19	77.70	--	337.60	<38.3	--	--	0.32J	<0.083	<0.14	<0.31	--	3.4J	--
EXPLANATION:														
All concentrations are in µg/L (ppb).														
Wellhead elevations were taken from prior consultant's reports														
DTW = Depth to water in feet below top of casing														
LPH = Liquid-phase hydrocarbon thickness in feet														
GW Elev. = Groundwater elevation in feet relative to top of casing elevations														
Groundwater elevations were corrected for LPH using a specific gravity of 0.75.														
TPH-G = Total Petroleum Hydrocarbons as gasoline by Ecology Method NWTPH-Gx														
TPH-D = Total Petroleum Hydrocarbons as diesel and oil by Ecology Method NWTPH-Dx														
Prior to 5/18/11, BTEX Analyzed by EPA Method 8021B.														
After 5/18/11, BTEX Analyzed by EPA Method 5030B/8260.														
Total Pb = Total lead by EPA Method 6020														
Diss Pb = Dissolved lead by EPA Method 6020														
Prior to December 20, 2011, 1,2-DCA = 1,2-Dichloroethane; PCE = Tetrachloroethene; TCE = Trichloroethene; 1,1-DCE = 1,1 Dichloroethene; 1,2-DCE = 1,2 Dichloroethene; 1,2-DCP = 1,2 Dichloropropane analyzed by EPA Method 8260.														
Prior to December 20, 2011, EDB (1,2-Dibromoethane) analyzed by EPA Method 8011.														
After December 20, 2011, 1,2-Dichloroethane (1,2-DCA); Tetrachloroethene (PCE); Trichloroethene (TCE); 1,1 Dichloroethene (1,1-DCE); 1,2 Dichloroethene (1,2-DCE); 1,2 Dichloropropane (1,2-DCP) and 1,2-Dibromoethane (EDB) analyzed by EPA Method 8260.														
1n = Sample was evaluated to the MDL.; 2n = Diluted analysis conducted in excess of EPA method holding time; 4n = Sample was reanalyzed 3 days outside of holding time due to carryover.														
J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.														
M1 = Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.														
Z2 = Analyte present in the associated method blank above the detection limit.														
Prior to second quarter 2008, monitoring wells surveyed to relative elevations. Wells were surveyed relative to sea level during the second quarter of 2008.														
¹ = For wells GW7D through GW12D: Well designations changed from GW-7 through GW-12 respectively to reflect that the wells are designated as deep water bearing zone wells)														
< = Less than the stated laboratory reporting limit														
NM = Not Measured; -- = Not Analyzed or Sampled														
^a Concentration levels stated by MTCA Method A for TPH-G are														
1,000 µg/L when no benzene is present and 800 µg/L when benzene is present.														
^b Approximated due to wellhead modification														
^c Samples collected from stub-ups inside remediation compound														
^d Well contained insufficient water to sample, labeled dry when unable to pull any water from well.														
^{9p} Not Purged														
NA = Not established														
Data collected before May 18, 2011 was obtained from prior consultants.														
* DTW measurements collected 1 day prior to sampling														
** Analytical results are anomalous compared to historical data. Cardno ATC suspects that sample ID's "GW-5" and "GW-6" may have been switched.														

APPENDIX A

**LABORATORY ANALYTICAL DATA REPORT
AND CHAIN OF CUSTODY DOCUMENT**

December 24, 2019

Elisabeth Silver
ATC Group Services LLC
6347 Seaview Ave NW
Seattle, WA 98107

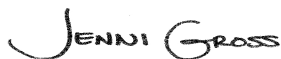
RE: Project: Z076000070 AOC 2063 P66-Burien
Pace Project No.: 10502680

Dear Elisabeth Silver:

Enclosed are the analytical results for sample(s) received by the laboratory on December 14, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jennifer Gross
jennifer.gross@pacelabs.com
(206)957-2426
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: Z076000070 AOC 2063 P66-Burien
Pace Project No.: 10502680

Pace Analytical Services Minneapolis

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #: 74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE SUMMARY

Project: Z076000070 AOC 2063 P66-Burien

Pace Project No.: 10502680

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10502680001	GW-13D	Water	12/11/19 11:15	12/14/19 10:00
10502680002	GW-13S	Water	12/11/19 12:15	12/14/19 10:00
10502680003	GW-15D	Water	12/11/19 14:15	12/14/19 10:00
10502680004	GW-15S	Water	12/11/19 15:00	12/14/19 10:00
10502680005	GW-18D	Water	12/11/19 16:15	12/14/19 10:00
10502680006	GW-10D	Water	12/11/19 10:55	12/14/19 10:00
10502680007	GW-14D	Water	12/11/19 12:15	12/14/19 10:00
10502680008	GW-14S	Water	12/11/19 13:20	12/14/19 10:00
10502680009	Trip Blank	Water	12/11/19 13:20	12/14/19 10:00

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: Z076000070 AOC 2063 P66-Burien

Pace Project No.: 10502680

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10502680001	GW-13D	NWTPH-Gx	MJD	2	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 6010D	IP	1	PASI-M
		EPA 8260B	MM3	7	PASI-M
10502680002	GW-13S	NWTPH-Gx	MJD	2	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 8260B	MM3	7	PASI-M
10502680003	GW-15D	NWTPH-Gx	MJD	2	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 8260B	MM3	7	PASI-M
10502680004	GW-15S	NWTPH-Gx	MJD	2	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 8260B	MM3	7	PASI-M
10502680005	GW-18D	NWTPH-Gx	MJD	2	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 8260B	MM3	7	PASI-M
10502680006	GW-10D	NWTPH-Dx	EC2	4	PASI-M
		NWTPH-Gx	MJD	2	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 6010D	IP	1	PASI-M
		EPA 8260B	MM3	7	PASI-M
		NWTPH-Gx	MJD	2	PASI-M
10502680007	GW-14D	EPA 6010D	DM	1	PASI-M
		EPA 6010D	IP	1	PASI-M
		EPA 8260B	ML4	7	PASI-M
		NWTPH-Gx	MJD	2	PASI-M
10502680008	GW-14S	EPA 6010D	DM	1	PASI-M
		EPA 6010D	IP	1	PASI-M
		EPA 8260B	MM3	7	PASI-M
		NWTPH-Gx	MJD	2	PASI-M
10502680009	Trip Blank	EPA 8260B	MM3	7	PASI-M
		NWTPH-Gx	MJD	2	PASI-M

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Z076000070 AOC 2063 P66-Burien

Pace Project No.: 10502680

Sample: GW-13D		Lab ID: 10502680001		Collected: 12/11/19 11:15		Received: 12/14/19 10:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV									
Analytical Method: NWTPH-Gx									
TPH as Gas	66.9J	ug/L	100	38.3	1		12/18/19 19:24		
Surrogates									
a,a,a-Trifluorotoluene (S)	98	%.	50-150		1		12/18/19 19:24	98-08-8	
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead	5.0J	ug/L	10.0	2.0	1	12/16/19 12:19	12/18/19 14:40	7439-92-1	
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead, Dissolved	<2.0	ug/L	10.0	2.0	1	12/20/19 13:30	12/22/19 10:41	7439-92-1	
8260B MSV UST									
Analytical Method: EPA 8260B									
Benzene	<0.10	ug/L	1.0	0.10	1		12/22/19 18:34	71-43-2	
Ethylbenzene	<0.14	ug/L	1.0	0.14	1		12/22/19 18:34	100-41-4	
Toluene	<0.083	ug/L	1.0	0.083	1		12/22/19 18:34	108-88-3	
Xylene (Total)	<0.31	ug/L	3.0	0.31	1		12/22/19 18:34	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	96	%.	75-125		1		12/22/19 18:34	17060-07-0	
Toluene-d8 (S)	105	%.	75-125		1		12/22/19 18:34	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	75-125		1		12/22/19 18:34	460-00-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Z076000070 AOC 2063 P66-Burien

Pace Project No.: 10502680

Sample: GW-13S		Lab ID: 10502680002		Collected: 12/11/19 12:15		Received: 12/14/19 10:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV									
Analytical Method: NWTPH-Gx									
TPH as Gas	6150	ug/L	500	192	5		12/19/19 02:29		G-
Surrogates									
a,a,a-Trifluorotoluene (S)	93	%.	50-150		5		12/19/19 02:29	98-08-8	
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead	2.3J	ug/L	10.0	2.0	1	12/16/19 12:19	12/18/19 14:49	7439-92-1	
8260B MSV UST									
Analytical Method: EPA 8260B									
Benzene	34.2	ug/L	1.0	0.10	1		12/22/19 18:51	71-43-2	
Ethylbenzene	144	ug/L	1.0	0.14	1		12/22/19 18:51	100-41-4	
Toluene	9.9	ug/L	1.0	0.083	1		12/22/19 18:51	108-88-3	
Xylene (Total)	257	ug/L	3.0	0.31	1		12/22/19 18:51	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	95	%.	75-125		1		12/22/19 18:51	17060-07-0	
Toluene-d8 (S)	108	%.	75-125		1		12/22/19 18:51	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	75-125		1		12/22/19 18:51	460-00-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Z076000070 AOC 2063 P66-Burien

Pace Project No.: 10502680

Sample: GW-15D		Lab ID: 10502680003		Collected: 12/11/19 14:15		Received: 12/14/19 10:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV									
Analytical Method: NWTPH-Gx									
TPH as Gas	61.8J	ug/L	100	38.3	1		12/18/19 19:59		
Surrogates									
a,a,a-Trifluorotoluene (S)	92	%.	50-150		1		12/18/19 19:59	98-08-8	
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead	2.4J	ug/L	10.0	2.0	1	12/16/19 12:19	12/18/19 14:56	7439-92-1	
8260B MSV UST									
Analytical Method: EPA 8260B									
Benzene	<0.10	ug/L	1.0	0.10	1		12/22/19 19:07	71-43-2	
Ethylbenzene	0.28J	ug/L	1.0	0.14	1		12/22/19 19:07	100-41-4	
Toluene	0.16J	ug/L	1.0	0.083	1		12/22/19 19:07	108-88-3	
Xylene (Total)	<0.31	ug/L	3.0	0.31	1		12/22/19 19:07	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	93	%.	75-125		1		12/22/19 19:07	17060-07-0	
Toluene-d8 (S)	105	%.	75-125		1		12/22/19 19:07	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	75-125		1		12/22/19 19:07	460-00-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Z076000070 AOC 2063 P66-Burien

Pace Project No.: 10502680

Sample: GW-15S Lab ID: 10502680004 Collected: 12/11/19 15:00 Received: 12/14/19 10:00 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV Analytical Method: NWTPH-Gx									
TPH as Gas	470	ug/L	100	38.3	1		12/19/19 02:46		G-
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%.	50-150		1		12/19/19 02:46	98-08-8	
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead	<2.0	ug/L	10.0	2.0	1	12/16/19 12:19	12/18/19 14:57	7439-92-1	
8260B MSV UST Analytical Method: EPA 8260B									
Benzene	0.65J	ug/L	1.0	0.10	1		12/22/19 00:47	71-43-2	
Ethylbenzene	12.0	ug/L	1.0	0.14	1		12/22/19 00:47	100-41-4	
Toluene	1.1	ug/L	1.0	0.083	1		12/22/19 00:47	108-88-3	
Xylene (Total)	17.6	ug/L	3.0	0.31	1		12/22/19 00:47	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	95	%.	75-125		1		12/22/19 00:47	17060-07-0	
Toluene-d8 (S)	94	%.	75-125		1		12/22/19 00:47	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125		1		12/22/19 00:47	460-00-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Z076000070 AOC 2063 P66-Burien

Pace Project No.: 10502680

Sample: GW-18D		Lab ID: 10502680005		Collected: 12/11/19 16:15		Received: 12/14/19 10:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV									
Analytical Method: NWTPH-Gx									
TPH as Gas	<38.3	ug/L	100	38.3	1		12/18/19 20:16		
Surrogates									
a,a,a-Trifluorotoluene (S)	98	%.	50-150		1		12/18/19 20:16	98-08-8	
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead	3.4J	ug/L	10.0	2.0	1	12/16/19 12:19	12/18/19 15:02	7439-92-1	
8260B MSV UST									
Analytical Method: EPA 8260B									
Benzene	0.32J	ug/L	1.0	0.10	1		12/21/19 23:56	71-43-2	
Ethylbenzene	<0.14	ug/L	1.0	0.14	1		12/21/19 23:56	100-41-4	
Toluene	<0.083	ug/L	1.0	0.083	1		12/21/19 23:56	108-88-3	
Xylene (Total)	<0.31	ug/L	3.0	0.31	1		12/21/19 23:56	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	93	%.	75-125		1		12/21/19 23:56	17060-07-0	
Toluene-d8 (S)	93	%.	75-125		1		12/21/19 23:56	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125		1		12/21/19 23:56	460-00-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Z076000070 AOC 2063 P66-Burien

Pace Project No.: 10502680

Sample: GW-10D		Lab ID: 10502680006		Collected: 12/11/19 10:55		Received: 12/14/19 10:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS LV									
Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C									
Diesel Fuel Range	<67.7	ug/L	408	67.7	1	12/16/19 18:02	12/18/19 12:42	68334-30-5	
Motor Oil Range	<79.9	ug/L	408	79.9	1	12/16/19 18:02	12/18/19 12:42		
Surrogates									
o-Terphenyl (S)	87	%.	50-150		1	12/16/19 18:02	12/18/19 12:42	84-15-1	
n-Triacontane (S)	97	%.	50-150		1	12/16/19 18:02	12/18/19 12:42	638-68-6	
NWTPH-Gx GCV									
Analytical Method: NWTPH-Gx									
TPH as Gas	<38.3	ug/L	100	38.3	1		12/18/19 20:33		
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%.	50-150		1		12/18/19 20:33	98-08-8	
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead	<2.0	ug/L	10.0	2.0	1	12/16/19 12:19	12/18/19 15:04	7439-92-1	
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead, Dissolved	<2.0	ug/L	10.0	2.0	1	12/20/19 13:30	12/22/19 10:43	7439-92-1	
8260B MSV UST									
Analytical Method: EPA 8260B									
Benzene	<0.10	ug/L	1.0	0.10	1		12/22/19 01:04	71-43-2	
Ethylbenzene	<0.14	ug/L	1.0	0.14	1		12/22/19 01:04	100-41-4	
Toluene	<0.083	ug/L	1.0	0.083	1		12/22/19 01:04	108-88-3	
Xylene (Total)	<0.31	ug/L	3.0	0.31	1		12/22/19 01:04	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	94	%.	75-125		1		12/22/19 01:04	17060-07-0	
Toluene-d8 (S)	94	%.	75-125		1		12/22/19 01:04	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125		1		12/22/19 01:04	460-00-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Z076000070 AOC 2063 P66-Burien

Pace Project No.: 10502680

Sample: GW-14D		Lab ID: 10502680007		Collected: 12/11/19 12:15		Received: 12/14/19 10:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV									
Analytical Method: NWTPH-Gx									
TPH as Gas	39.9J	ug/L	100	38.3	1		12/18/19 20:50		
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%.	50-150		1		12/18/19 20:50	98-08-8	
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead	4.4J	ug/L	10.0	2.0	1	12/16/19 12:19	12/18/19 15:06	7439-92-1	
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead, Dissolved	<2.0	ug/L	10.0	2.0	1	12/20/19 13:30	12/22/19 10:46	7439-92-1	
8260B MSV UST									
Analytical Method: EPA 8260B									
Benzene	1.5	ug/L	1.0	0.10	1		12/22/19 16:36	71-43-2	
Ethylbenzene	0.15J	ug/L	1.0	0.14	1		12/22/19 16:36	100-41-4	
Toluene	0.16J	ug/L	1.0	0.083	1		12/22/19 16:36	108-88-3	
Xylene (Total)	<0.31	ug/L	3.0	0.31	1		12/22/19 16:36	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	107	%.	75-125		1		12/22/19 16:36	17060-07-0	
Toluene-d8 (S)	102	%.	75-125		1		12/22/19 16:36	2037-26-5	
4-Bromofluorobenzene (S)	107	%.	75-125		1		12/22/19 16:36	460-00-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Z076000070 AOC 2063 P66-Burien

Pace Project No.: 10502680

Sample: GW-14S Lab ID: 10502680008 Collected: 12/11/19 13:20 Received: 12/14/19 10:00 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV Analytical Method: NWTPH-Gx									
TPH as Gas	114000	ug/L	10000	3830	100		12/19/19 01:55		G-
Surrogates									
a,a,a-Trifluorotoluene (S)	97	%	50-150		100		12/19/19 01:55	98-08-8	
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead	2.5J	ug/L	10.0	2.0	1	12/16/19 12:19	12/18/19 15:07	7439-92-1	
6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead, Dissolved	2.2J	ug/L	10.0	2.0	1	12/20/19 13:30	12/22/19 10:49	7439-92-1	
8260B MSV UST Analytical Method: EPA 8260B									
Benzene	693	ug/L	50.0	5.1	50		12/22/19 03:53	71-43-2	
Ethylbenzene	2430	ug/L	50.0	6.9	50		12/22/19 03:53	100-41-4	
Toluene	3900	ug/L	50.0	4.2	50		12/22/19 03:53	108-88-3	
Xylene (Total)	11400	ug/L	150	15.4	50		12/22/19 03:53	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	92	%	75-125		50		12/22/19 03:53	17060-07-0	
Toluene-d8 (S)	94	%	75-125		50		12/22/19 03:53	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		50		12/22/19 03:53	460-00-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Z076000070 AOC 2063 P66-Burien

Pace Project No.: 10502680

Sample: Trip Blank		Lab ID: 10502680009		Collected: 12/11/19 13:20		Received: 12/14/19 10:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV		Analytical Method: NWTPH-Gx							
TPH as Gas	<38.3	ug/L	100	38.3	1		12/18/19 21:24		
Surrogates									
a,a,a-Trifluorotoluene (S)	96	%.	50-150		1		12/18/19 21:24	98-08-8	
8260B MSV UST		Analytical Method: EPA 8260B							
Benzene	<0.10	ug/L	1.0	0.10	1		12/22/19 16:35	71-43-2	
Ethylbenzene	<0.14	ug/L	1.0	0.14	1		12/22/19 16:35	100-41-4	
Toluene	0.11J	ug/L	1.0	0.083	1		12/22/19 16:35	108-88-3	
Xylene (Total)	<0.31	ug/L	3.0	0.31	1		12/22/19 16:35	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	95	%.	75-125		1		12/22/19 16:35	17060-07-0	
Toluene-d8 (S)	105	%.	75-125		1		12/22/19 16:35	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	75-125		1		12/22/19 16:35	460-00-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Z076000070 AOC 2063 P66-Burien
Pace Project No.: 10502680

QC Batch: 650742 Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx Water
Associated Lab Samples: 10502680001, 10502680002, 10502680003, 10502680004, 10502680005, 10502680006, 10502680007, 10502680008, 10502680009

METHOD BLANK: 3499099 Matrix: Water
Associated Lab Samples: 10502680001, 10502680002, 10502680003, 10502680004, 10502680005, 10502680006, 10502680007, 10502680008, 10502680009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	ug/L	<38.3	100	38.3	12/18/19 19:07	
a,a,a-Trifluorotoluene (S)	%.	96	50-150		12/18/19 19:07	

METHOD BLANK: 3499100 Matrix: Water
Associated Lab Samples: 10502680001, 10502680002, 10502680003, 10502680004, 10502680005, 10502680006, 10502680007, 10502680008, 10502680009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	ug/L	<38.3	100	38.3	12/18/19 22:15	
a,a,a-Trifluorotoluene (S)	%.	99	50-150		12/18/19 22:15	

LABORATORY CONTROL SAMPLE & LCSD: 3499101			3499102							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	1000	1020	1000	102	100	75-125	2	20	
a,a,a-Trifluorotoluene (S)	%.				108	102	50-150			

SAMPLE DUPLICATE: 3499133

Parameter	Units	10502651007 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	1310	1300		30	
a,a,a-Trifluorotoluene (S)	%.	92	94			

SAMPLE DUPLICATE: 3499134

Parameter	Units	10502680001 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	66.9J	58.8J		30	
a,a,a-Trifluorotoluene (S)	%.	98	103			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Z076000070 AOC 2063 P66-Burien

Pace Project No.: 10502680

QC Batch:	650093	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010	Analysis Description:	6010D Water
Associated Lab Samples:	10502680001, 10502680002, 10502680003, 10502680004, 10502680005, 10502680006, 10502680007, 10502680008		

METHOD BLANK:	3496376	Matrix:	Water
Associated Lab Samples:	10502680001, 10502680002, 10502680003, 10502680004, 10502680005, 10502680006, 10502680007, 10502680008		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	ug/L	<2.0	10.0	2.0	12/18/19 14:37	

LABORATORY CONTROL SAMPLE: 3496377

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	1000	1010	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3496378 3496379

Parameter	Units	10502680001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	ug/L	5.0J	1000	1000	1000	996	100	99	75-125	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Z076000070 AOC 2063 P66-Burien

Pace Project No.: 10502680

QC Batch: 651190 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010 Analysis Description: 6010D Water Dissolved
Associated Lab Samples: 10502680001, 10502680006, 10502680007, 10502680008

METHOD BLANK: 3501700 Matrix: Water
Associated Lab Samples: 10502680001, 10502680006, 10502680007, 10502680008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead, Dissolved	ug/L	<2.0	10.0	2.0	12/22/19 10:35	

LABORATORY CONTROL SAMPLE: 3501701

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead, Dissolved	ug/L	1000	1090	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3501702 3501703

Parameter	Units	10502418003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead, Dissolved	ug/L	<2.0	1000	1000	1050	883	105	88	75-125	17	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Z076000070 AOC 2063 P66-Burien
Pace Project No.: 10502680

QC Batch: 651345 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV UST-WATER
Associated Lab Samples: 10502680004, 10502680005, 10502680006, 10502680008

METHOD BLANK: 3502956 Matrix: Water
Associated Lab Samples: 10502680004, 10502680005, 10502680006, 10502680008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzene	ug/L	<0.10	1.0	0.10	12/21/19 23:05	
Ethylbenzene	ug/L	<0.14	1.0	0.14	12/21/19 23:05	
Toluene	ug/L	<0.083	1.0	0.083	12/21/19 23:05	
Xylene (Total)	ug/L	<0.31	3.0	0.31	12/21/19 23:05	
1,2-Dichloroethane-d4 (S)	%	93	75-125		12/21/19 23:05	
4-Bromofluorobenzene (S)	%	100	75-125		12/21/19 23:05	
Toluene-d8 (S)	%	94	75-125		12/21/19 23:05	

LABORATORY CONTROL SAMPLE: 3502957

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	20.0	100	75-125	
Ethylbenzene	ug/L	20	20.5	103	75-125	
Toluene	ug/L	20	19.6	98	75-125	
Xylene (Total)	ug/L	60	60.1	100	75-125	
1,2-Dichloroethane-d4 (S)	%			98	75-125	
4-Bromofluorobenzene (S)	%			103	75-125	
Toluene-d8 (S)	%			97	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3502961 3502962

Parameter	Units	10502680005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	0.32J	20	20	20.2	18.4	99	91	30-150	9	30	
Ethylbenzene	ug/L	<0.14	20	20	20.5	19.3	103	97	30-150	6	30	
Toluene	ug/L	<0.083	20	20	19.8	18.1	99	90	30-150	9	30	
Xylene (Total)	ug/L	<0.31	60	60	60.0	56.6	100	94	30-150	6	30	
1,2-Dichloroethane-d4 (S)	%						97	97	75-125			
4-Bromofluorobenzene (S)	%						104	104	75-125			
Toluene-d8 (S)	%						97	96	75-125			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Z076000070 AOC 2063 P66-Burien
Pace Project No.: 10502680

QC Batch: 651363 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV UST-WATER
Associated Lab Samples: 10502680001, 10502680002, 10502680003, 10502680009

METHOD BLANK: 3503040 Matrix: Water
Associated Lab Samples: 10502680001, 10502680002, 10502680003, 10502680009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzene	ug/L	<0.10	1.0	0.10	12/22/19 16:01	
Ethylbenzene	ug/L	<0.14	1.0	0.14	12/22/19 16:01	
Toluene	ug/L	<0.083	1.0	0.083	12/22/19 16:01	
Xylene (Total)	ug/L	<0.31	3.0	0.31	12/22/19 16:01	
1,2-Dichloroethane-d4 (S)	%	92	75-125		12/22/19 16:01	
4-Bromofluorobenzene (S)	%	102	75-125		12/22/19 16:01	
Toluene-d8 (S)	%	105	75-125		12/22/19 16:01	

LABORATORY CONTROL SAMPLE: 3503041

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	16.4	82	75-125	
Ethylbenzene	ug/L	20	20.3	101	75-125	
Toluene	ug/L	20	19.5	97	75-125	
Xylene (Total)	ug/L	60	61.2	102	75-125	
1,2-Dichloroethane-d4 (S)	%			99	75-125	
4-Bromofluorobenzene (S)	%			105	75-125	
Toluene-d8 (S)	%			105	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3503206 3503207

Parameter	Units	10502651001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	31.1	20	20	48.3	46.4	86	76	30-150	4	30	
Ethylbenzene	ug/L	6.6	20	20	28.3	27.6	109	105	30-150	3	30	
Toluene	ug/L	31.4	20	20	51.7	48.7	101	87	30-150	6	30	
Xylene (Total)	ug/L	42.2	60	60	107	104	108	102	30-150	3	30	
1,2-Dichloroethane-d4 (S)	%						105	103	75-125			
4-Bromofluorobenzene (S)	%						103	108	75-125			
Toluene-d8 (S)	%						107	106	75-125			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Z076000070 AOC 2063 P66-Burien
Pace Project No.: 10502680

QC Batch:	651365	Analysis Method:	EPA 8260B
QC Batch Method:	EPA 8260B	Analysis Description:	8260B MSV UST-WATER
Associated Lab Samples:	10502680007		

METHOD BLANK: 3503044 Matrix: Water
Associated Lab Samples: 10502680007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzene	ug/L	<0.10	1.0	0.10	12/22/19 14:35	
Ethylbenzene	ug/L	<0.14	1.0	0.14	12/22/19 14:35	
Toluene	ug/L	<0.083	1.0	0.083	12/22/19 14:35	
Xylene (Total)	ug/L	<0.31	3.0	0.31	12/22/19 14:35	
1,2-Dichloroethane-d4 (S)	%	106	75-125		12/22/19 14:35	
4-Bromofluorobenzene (S)	%	104	75-125		12/22/19 14:35	
Toluene-d8 (S)	%	101	75-125		12/22/19 14:35	

LABORATORY CONTROL SAMPLE: 3503045

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	18.9	95	75-125	
Ethylbenzene	ug/L	20	20.2	101	75-125	
Toluene	ug/L	20	19.7	98	75-125	
Xylene (Total)	ug/L	60	62.0	103	75-125	
1,2-Dichloroethane-d4 (S)	%			105	75-125	
4-Bromofluorobenzene (S)	%			102	75-125	
Toluene-d8 (S)	%			104	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3503832 3503833

Parameter	Units	10503678001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	20	20	17.2	17.1	86	85	30-150	0	30	
Ethylbenzene	ug/L	ND	20	20	18.5	18.3	93	91	30-150	1	30	
Toluene	ug/L	ND	20	20	17.5	17.8	88	89	30-150	1	30	
Xylene (Total)	ug/L	ND	60	60	55.8	55.0	93	92	30-150	1	30	
1,2-Dichloroethane-d4 (S)	%						106	104	75-125			
4-Bromofluorobenzene (S)	%						103	102	75-125			
Toluene-d8 (S)	%						103	103	75-125			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Z076000070 AOC 2063 P66-Burien

Pace Project No.: 10502680

QC Batch:	650250	Analysis Method:	NWTPH-Dx
QC Batch Method:	EPA Mod. 3510C	Analysis Description:	NWTPH-Dx GCS LV
Associated Lab Samples:	10502680006		

METHOD BLANK: 3496843 Matrix: Water

Associated Lab Samples: 10502680006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diesel Fuel Range	ug/L	<66.3	400	66.3	12/18/19 11:45	
Motor Oil Range	ug/L	<78.3	400	78.3	12/18/19 11:45	
n-Triacontane (S)	%.	88	50-150		12/18/19 11:45	
o-Terphenyl (S)	%.	83	50-150		12/18/19 11:45	

LABORATORY CONTROL SAMPLE & LCSD: 3496844

Parameter	Units	3496845								Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	
Diesel Fuel Range	ug/L	2000	2010	1930	100	97	50-150	4	20	
Motor Oil Range	ug/L	2000	1960	1920	98	96	50-150	2	20	
n-Triacontane (S)	%.				101	95	50-150			
o-Terphenyl (S)	%.				100	96	50-150			

SAMPLE DUPLICATE: 3496846

Parameter	Units	10502680006 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Fuel Range	ug/L	<67.7	<78.9		30	
Motor Oil Range	ug/L	<79.9	<93.2		30	
n-Triacontane (S)	%.	97	97			
o-Terphenyl (S)	%.	87	86			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: Z076000070 AOC 2063 P66-Burien

Pace Project No.: 10502680

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

G- Early peaks present outside the GRO window.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

METHOD CROSS REFERENCE TABLE

Project: Z076000070 AOC 2063 P66-Burien

Pace Project No.: 10502680

Parameter	Matrix	Analytical Method	Preparation Method
8260B MSV UST	Water	SW-846 8260B/5030B	N/A

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Z076000070 AOC 2063 P66-Burien

Pace Project No.: 10502680

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10502680006	GW-10D	EPA Mod. 3510C	650250	NWTPH-Dx	650681
10502680001	GW-13D	NWTPH-Gx	650742		
10502680002	GW-13S	NWTPH-Gx	650742		
10502680003	GW-15D	NWTPH-Gx	650742		
10502680004	GW-15S	NWTPH-Gx	650742		
10502680005	GW-18D	NWTPH-Gx	650742		
10502680006	GW-10D	NWTPH-Gx	650742		
10502680007	GW-14D	NWTPH-Gx	650742		
10502680008	GW-14S	NWTPH-Gx	650742		
10502680009	Trip Blank	NWTPH-Gx	650742		
10502680001	GW-13D	EPA 3010	650093	EPA 6010D	650358
10502680002	GW-13S	EPA 3010	650093	EPA 6010D	650358
10502680003	GW-15D	EPA 3010	650093	EPA 6010D	650358
10502680004	GW-15S	EPA 3010	650093	EPA 6010D	650358
10502680005	GW-18D	EPA 3010	650093	EPA 6010D	650358
10502680006	GW-10D	EPA 3010	650093	EPA 6010D	650358
10502680007	GW-14D	EPA 3010	650093	EPA 6010D	650358
10502680008	GW-14S	EPA 3010	650093	EPA 6010D	650358
10502680001	GW-13D	EPA 3010	651190	EPA 6010D	651349
10502680006	GW-10D	EPA 3010	651190	EPA 6010D	651349
10502680007	GW-14D	EPA 3010	651190	EPA 6010D	651349
10502680008	GW-14S	EPA 3010	651190	EPA 6010D	651349
10502680001	GW-13D	EPA 8260B	651363		
10502680002	GW-13S	EPA 8260B	651363		
10502680003	GW-15D	EPA 8260B	651363		
10502680004	GW-15S	EPA 8260B	651345		
10502680005	GW-18D	EPA 8260B	651345		
10502680006	GW-10D	EPA 8260B	651345		
10502680007	GW-14D	EPA 8260B	651365		
10502680008	GW-14S	EPA 8260B	651345		
10502680009	Trip Blank	EPA 8260B	651363		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Section A

Required Client Information:

Section B

Required Project Information:

Section C

Invoice Information:

Company:	A-T-C Group Services	Report To:	Elisabeth Silver	
Address:	6347 Seaview Avenue	Copy To:		
Email To:	Elisabeth.Silver	Purchase Order No.:		
Phone:	206-781-1449	Project Name:	AOC 2063 P66-Burien	
Requested Due Date/TAT:		Fax:		
		Project Number:	707600007H	
		Pace Profile #:	3976512	
		Pace Project Manager:		
		Pace Quote Reference:		
		Address:		
		Company Name:		
		Attention:		
		REGULATORY AGENCY		
		☐ NPDES	☒ GROUND WATER	☐ DRINKING WATER
		☐ UST	☐ RCRA	☐ OTHER
		Site Location		
		STATE:		WA

Section D Required Client Information	Matrix Codes MATRIX / CODE Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other	COLLECTED			SAMPLE TYPE (G=GRAB C=COMP) (see valid codes to left)	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	SAMPLE CONDITIONS																																																																																																		
		MATRIX CODE	COMPOSITE START	COMPOSITE END/GRAB								DATE	TIME	DATE	TIME			DATE	TIME																																																																																																
																				DATE	TIME	DATE	TIME	DATE	TIME																																																																																										
SAMPLE ID (A-Z, 0-9 /, -) Sample IDs MUST BE UNIQUE	DW WW P SL OL WP AR TS OT	Matrix Codes MATRIX / CODE Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other	COMPOSITE START DATE TIME	COMPOSITE END/GRAB DATE TIME	SAMPLE TYPE (G=GRAB C=COMP) (see valid codes to left)	RELINQUISHED BY / AFFILIATION	DATE TIME	ACCEPTED BY / AFFILIATION	DATE TIME	REQUESTED ANALYSIS FILTERED (Y/N)	SAMPLE CONDITIONS																																																																																																								
												SAMPLE ID (A-Z, 0-9 /, -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other	COMPOSITE START DATE TIME	COMPOSITE END/GRAB DATE TIME	SAMPLE TYPE (G=GRAB C=COMP) (see valid codes to left)	RELINQUISHED BY / AFFILIATION	DATE TIME	ACCEPTED BY / AFFILIATION	DATE TIME	REQUESTED ANALYSIS FILTERED (Y/N)	SAMPLE CONDITIONS																																																																																													
																							SAMPLE ID (A-Z, 0-9 /, -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other	COMPOSITE START DATE TIME	COMPOSITE END/GRAB DATE TIME	SAMPLE TYPE (G=GRAB C=COMP) (see valid codes to left)	RELINQUISHED BY / AFFILIATION	DATE TIME	ACCEPTED BY / AFFILIATION	DATE TIME	REQUESTED ANALYSIS FILTERED (Y/N)	SAMPLE CONDITIONS																																																																																		
																																		SAMPLE ID (A-Z, 0-9 /, -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other	COMPOSITE START DATE TIME	COMPOSITE END/GRAB DATE TIME	SAMPLE TYPE (G=GRAB C=COMP) (see valid codes to left)	RELINQUISHED BY / AFFILIATION	DATE TIME	ACCEPTED BY / AFFILIATION	DATE TIME	REQUESTED ANALYSIS FILTERED (Y/N)	SAMPLE CONDITIONS																																																																							
																																													SAMPLE ID (A-Z, 0-9 /, -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other	COMPOSITE START DATE TIME	COMPOSITE END/GRAB DATE TIME	SAMPLE TYPE (G=GRAB C=COMP) (see valid codes to left)	RELINQUISHED BY / AFFILIATION	DATE TIME	ACCEPTED BY / AFFILIATION	DATE TIME	REQUESTED ANALYSIS FILTERED (Y/N)	SAMPLE CONDITIONS																																																												
																																																								SAMPLE ID (A-Z, 0-9 /, -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other	COMPOSITE START DATE TIME	COMPOSITE END/GRAB DATE TIME	SAMPLE TYPE (G=GRAB C=COMP) (see valid codes to left)	RELINQUISHED BY / AFFILIATION	DATE TIME	ACCEPTED BY / AFFILIATION	DATE TIME	REQUESTED ANALYSIS FILTERED (Y/N)	SAMPLE CONDITIONS																																																	
																																																																			SAMPLE ID (A-Z, 0-9 /, -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other	COMPOSITE START DATE TIME	COMPOSITE END/GRAB DATE TIME	SAMPLE TYPE (G=GRAB C=COMP) (see valid codes to left)	RELINQUISHED BY / AFFILIATION	DATE TIME	ACCEPTED BY / AFFILIATION	DATE TIME	REQUESTED ANALYSIS FILTERED (Y/N)	SAMPLE CONDITIONS																																						
																																																																														SAMPLE ID (A-Z, 0-9 /, -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other	COMPOSITE START DATE TIME	COMPOSITE END/GRAB DATE TIME	SAMPLE TYPE (G=GRAB C=COMP) (see valid codes to left)	RELINQUISHED BY / AFFILIATION	DATE TIME	ACCEPTED BY / AFFILIATION	DATE TIME	REQUESTED ANALYSIS FILTERED (Y/N)	SAMPLE CONDITIONS																											
																																																																																									SAMPLE ID (A-Z, 0-9 /, -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other	COMPOSITE START DATE TIME	COMPOSITE END/GRAB DATE TIME	SAMPLE TYPE (G=GRAB C=COMP) (see valid codes to left)	RELINQUISHED BY / AFFILIATION	DATE TIME	ACCEPTED BY / AFFILIATION	DATE TIME	REQUESTED ANALYSIS FILTERED (Y/N)	SAMPLE CONDITIONS																
																																																																																																				SAMPLE ID (A-Z, 0-9 /, -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other	COMPOSITE START DATE TIME	COMPOSITE END/GRAB DATE TIME	SAMPLE TYPE (G=GRAB C=COMP) (see valid codes to left)	RELINQUISHED BY / AFFILIATION	DATE TIME	ACCEPTED BY / AFFILIATION	DATE TIME	REQUESTED ANALYSIS FILTERED (Y/N)	SAMPLE CONDITIONS					
																																																																																																															SAMPLE ID (A-Z, 0-9 /, -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other	COMPOSITE START DATE TIME	COMPOSITE END/GRAB DATE TIME	SAMPLE TYPE (G

Discard Dissolved lead bottles labiled as	A. Degefa	12/13/10 1245	12/14 1300	12/14 1300	0.6	12/14 1300
NOT FF (Gw-13S, Gw-15D, Gw-15S, Gw-18D).						

ORIGINAL	SAMPLER NAME AND SIGNATURE		Temp In °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	PRINT Name of SAMPLER:					
	SIGNATURE of SAMPLER:					
	DATE Signed (MM/DD/YY):					
		12/13/19				

	Document Name: Sample Condition Upon Receipt Form	Document Revised: 14Nov2019 Page 1 of 1
	Document No.: F-MN-L-213-rev.30	Pace Analytical Services - Minneapolis

Sample Condition Upon Receipt	Client Name: <u>ATZ Group Service</u>	Project #: WO# : 10502680
	Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Speedee ☐ Commercial ☐ See Exceptions	PM: JMG Due Date: 12/23/19 CLIENT: ATC_WA
Tracking Number: <u>9934 3734 3604</u>		

Custody Seal on Cooler/Box Present? ☒ Yes ☐ No
 Seals Intact? ☒ Yes ☐ No
 Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A
 Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other: _____
 Temp Blank? ☒ Yes ☐ No
 Thermometer: ☐ T1(0461) ☐ T2(1336) ☒ T3(0459) ☐ T4(0254) ☐ T5(0489)
 Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

Note: Each West Virginia Sample must have temp taken (no temp blanks)

Temp should be above freezing to 6°C	Cooler Temp Read w/temp blank: <u>0.6</u> °C	Average Corrected Temp (no temp blank only): ☐ See Exceptions ☐ 1 Container
Correction Factor: <u>Five</u>	Cooler Temp Corrected w/temp blank: <u>0.6</u> °C	

USDA Regulated Soil: ☒ N/A, water sample/Other: _____
 Date/Initials of Person Examining Contents: MK2 12-14-19
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☐ No
 Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No
 If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present and Filled Out?	☒ Yes ☐ No	1.
Chain of Custody Relinquished?	☒ Yes ☐ No	2.
Sampler Name and/or Signature on COC?	☒ Yes ☐ No ☐ N/A	3.
Samples Arrived within Hold Time?	☒ Yes ☐ No	4.
Short Hold Time Analysis (<72 hr)?	☐ Yes ☒ No	5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other
Rush Turn Around Time Requested?	☐ Yes ☒ No	6.
Sufficient Volume?	☒ Yes ☐ No	7.
Correct Containers Used?	☒ Yes ☐ No	8.
-Pace Containers Used?	☒ Yes ☐ No	9.
Containers Intact?	☒ Yes ☐ No	
Field Filtered Volume Received for Dissolved Tests?	☒ Yes ☐ No ☐ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☒ No
Is sufficient information available to reconcile the samples to the COC?	☒ Yes ☐ No	11. If no, write ID/ Date/Time on Container Below: ☐ See Exception
Matrix: ☒ Water ☐ Soil ☐ Oil ☐ Other		
All containers needing acid/base preservation have been checked?	☒ Yes ☐ No ☐ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide)	☒ Yes ☐ No ☐ N/A	☐ NaOH ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ Zinc Acetate
Exceptions: <u>VOA</u> , Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☒ Yes ☐ No ☐ N/A	Positive for Res. ☐ Yes ☐ No ☐ See Exception
		Chlorine? ☐ No ☐ pH Paper Lot# ☐
		Res. Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Extra labels present on soil VOA or WIDRO containers?	☐ Yes ☐ No ☒ N/A	13. ☐ See Exception
Headspace in VOA Vials (greater than 6mm)?	☐ Yes ☒ No ☐ N/A	
Trip Blank Present?	☒ Yes ☐ No ☐ N/A	14. <u>6 Water trip blanks</u>
Trip Blank Custody Seals Present?	☒ Yes ☐ No ☐ N/A	Pace Trip Blank Lot # (if purchased): <u>237394</u>

CLIENT NOTIFICATION/RESOLUTION
 Person Contacted: Elisabeth Silver Date/Time: 12/16/19
 Comments/Resolution: Analyze the trip blank for BTEX/NWTPH-Gx.
 Field Data Required? ☐ Yes ☐ No

Project Manager Review: JENNI GROSS Date: 121619
 Note: Whenever there is a discrepancy affecting N/A compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

APPENDIX B

FIELD REPORTS / GROUNDWATER GAUGING & SAMPLING LOGS



Field Report

FLD-100

Revision 1.0

6/1/2016

ATC Branch: Seattle - 10282

Date: 12/11/2019

Page 1 of 1

ATC Representative(s): A. DeGala, J. Teresi

Project: P66 - Burien AOC 2063

Role: Field Geologist, Staff Scientist

Location: 12660 1st Ave. S, Seattle, WA

Contact Information: (206) 781-1449

Project No: Z076000070

Task No: --

Scope of Work:

Weather: overcast, ~45°F, rainy

Temperature: ~45°F

☒ Monitoring ☐ Assessment ☐ Remediation ☐ Closure

Contractor: N/A

Time:

Comments:

0945 ATC onsite, tailgate meeting, HASP, JSAs, etc. conducted
1015 Move to GW-130 & GW-135 & set up pump + exclusion zone
1115 Sample GW-130 @ 1115
1145 Move to GW-135; sample @ 1215
1245 Trouble w/ field filters → call Geo Tech & PM
1300 Start lunch, stop lunch @ 1315
1315 Move to GW-15D; sample @ 1415
1420 Move to GW-155; sample @ 1500
1505 Move to GW-185 & GW-18D
1530 * GW-185 not sampled b/c not enough water in well
1535 Move to GW-18D; sample @ 1615
1645 ATC offsite

Equipment Used: Geosub submersible pump w/ controller & inverter, YSI, under level meter

Contractor Hours (per Person):

Staff / Technician Hours:

Mileage:

Copies To:

Project Manager: E. Silver

Reviewed By:

Reviewed By:

	Monitoring Well Purging and Sampling Log		FLD-103 Revision 1.0 Jul-08	
	ATC Branch: Seattle - 10282		Date: 12/11/2019	
	ATC Representative(s): AD/JT		Project: APC 2063 P66 - Burien	
Contact Information: (206) 781-1449		Location: 12660 1st Ave S, Seattle, WA		Page 1 of
Well ID: GW-13D		Project No: 70760070		Task No:
Weather:		Temperature:		

Purging & Sampling Instrumentation & Method									
Water Level Meter (Model/ID): Envirotape					Interface Probe (Model/ID): NA				
Water Quality Meter (Model/ID): YSI 556 MPS					Decontamination Method: Alconox/DI Water				
Purging Method: ☐ PVC Bailer ☐ Vacuum Truck ☒ Submersible Pump ☐ Peristaltic Pump Other: _____									
3 Well Volumes ☐ Low Flow ☒ Micro Purge ☐ Intake Depth (feet below TOC) 79.0									
Sampling Method: ☐ Teflon Bailer ☐ Disposable Bailer ☒ Dedicated Tubing Other: _____									
Casing Volume Information					Purging Calculations				
Casing Diameter (Circle): 2" 4" 6" Other					Casing Volumes (CV):				
Casing Multiplier (CM)(gallons/foot) 0.16 0.65 1.47					WC _____ x CM _____ = _____ (CV)(gal) x 3.0 CV (gal) = _____ PV				
Monitoring Measurements									
Depth to LNAPL (feet):					Total Well Depth (feet): 85.20				
Depth to Water (DTW)(feet): 76.65					Water Column (WC)(feet): 8.55				
LNAPL Thickness (ft):					Purging Start Time: 1048				
Purging Data									
Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
1058	76.70	0.25	13.51	403	clear	5.40	7.25	96.1	—
1101	76.70	1.0	13.71	401	turbid	5.19	7.27	94.6	—
1104	76.70	1.02	13.84	401	clear	5.18	7.28	93.8	—
Sample Data									
Sample ID: GW-13D		Time of Sample: 1115		Filtered (yes/no)		Preservatives		Analytical Parameters	
Container Types, Volumes, & Quantities:				NO		HCl		Gx, VOCs	
6-40ml VOAs				NO/Lab Filtered		HNO3		Pb, Dissolved Pb	
2-250ml PE									
Well Recovery Data									
Maximum Drawdown (DTWm)(feet): 0.05					Approximate Flow Rate (GPM): 120 ml/min.				
Recovery Type: ☒ Fast ☐ Slow					% Recovery = 100%				
Purge Water Disposition (Attach Drum Inventory Log - FLD 108):									
Comments: initial purging flow rate: 69									



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-08

ATC Branch: Seattle - 10282

Date:

Page of

ATC Representative(s):

A. Degefa / J.T

Project:

AOC 2063 P66 - Bulien

Location:

12660 1st Ave, Seattle, WA

Contact Information: (206) 781-1449

Project No:

206000070

Task No:

Well ID:

GW-135

Weather:

Rain

Temperature:

45°

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape

Interface Probe (Model/ID): NA

Water Quality Meter (Model/ID): YSI 556 MPS

Decontamination Method: Alconox/DI Water

Purging Method: ☐ PVC Bailer ☐ Vacuum Truck ☐ Submersible Pump ☐ Peristaltic Pump Other: Geo Sub3 Well Volumes ☐ Low Flow ☒ Micro Purge ☐ Intake Depth (feet below TOC) 42.0Sampling Method: ☐ Teflon Bailer ☐ Disposable Bailer ☒ Dedicated Tubing Other:

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): (2) 4" 6" Other

Casing Volumes (CV):

Casing Multiplier (CM)(gallons/foot) 0.16 0.65 1.47WC x CM = (CV)(gal) x 3.0 CV (gal) = PV

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet): 50.00Depth to Water (DTW)(feet): 40.00Water Column (WC)(feet): 10.0

LNAPL Thickness (ft):

Purging Start Time: 1157

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
1207	40.60	0.150	13.02	410	Clear	0.37	7.71	-66.7	—
1210	40.62	0.75	13.03	410	"	0.37	7.71	-72.5	—
1213	40.65	0.85	13.17	407	"	0.37	7.68	-70.3	—

Sample Data

Sample ID: <u>GW-135</u>	Time of Sample: <u>1215</u>	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
6-40ml VOAs		NO	HCl	Gx, VOCs
2-250ml PE		NO/Lab Filtered	HNO3	Pb, Dissolved Pb

Well Recovery Data

Maximum Drawdown (DTWm)(feet): 0.65 Approximate Flow Rate (GPM): Recovery Type: ☐ Fast ☐ Slow % Recovery =

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments:

	Monitoring Well Purging and Sampling Log		FLD-103						
			Revision 1.0						
			Jul-08						
ATC Branch: Seattle - 10282		Date: 12/11/19		Page 1 of 1					
ATC Representative(s): A. Oeyers / J.T.		Project: AOC 2063 - P66 Burien							
Contact Information: (206) 781-1449		Location: 12660 1st Aves, Seattle, WA							
Well ID: GW-150		Project No: 207600070		Task No:					
		Weather: Rain/Overcast		Temperature: 45.0					
Purging & Sampling Instrumentation & Method									
Water Level Meter (Model/ID): Envirotape		Interface Probe (Model/ID): NA							
Water Quality Meter (Model/ID): YSI 556 MPS		Decontamination Method: Alconox/DI Water							
Purging Method: ☐ PVC Bailer ☐ Vacuum Truck ☒ Submersible Pump ☐ Peristaltic Pump Other: GeoSub									
3 Well Volumes ☐ Low Flow ☒ Micro Purge ☐ Intake Depth (feet below TOC): 59.35									
Sampling Method: ☐ Teflon Bailer ☐ Disposable Bailer ☒ Dedicated Tubing Other: _____									
Casing Volume Information			Purging Calculations						
Casing Diameter (Circle): 2" 4" 6" Other			Casing Volumes (CV):						
Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47			WC _____ x CM _____ = _____ (CV)(gal) x 3.0 CV (gal) = _____ PV						
Monitoring Measurements									
Depth to LNAPL (feet): _____			Total Well Depth (feet): 74.40						
Depth to Water (DTW)(feet): 57.35			Water Column (WC)(feet): 17.05						
LNAPL Thickness (ft): _____			Purging Start Time: 1343 1350						
Purging Data									
Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
1400	58.70	0.50	14.16	305	Clear	1.10	6.94	6412	—
1403	58.90	0.70	14.61	304	"	1.09	6.93	6413	—
1406	58.80	0.80	14.60	303	"	1.07	6.92	6418	—
Sample Data									
Sample ID: GW-150		Time of Sample: 1415		Filtered (yes/no)	Preservatives	Analytical Parameters			
Container Types, Volumes, & Quantities:				NO	HCl	Gx, VOCs			
6-40ml VOAs				NO/Lab Filtered	HNO3	Pb, Dissolved Pb			
2-250ml PE									
Well Recovery Data									
Maximum Drawdown (DTWm)(feet): 0.45			Approximate Flow Rate (GPM): 130 ml/min						
Recovery Type: ☒ Fast ☐ Slow			% Recovery = 100						
Purge Water Disposition (Attach Drum Inventory Log - FLD 108):									
Comments: Flow rate: 52									



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-08

ATC Branch: Seattle - 10282

Date: 12/11/19

Page of

ATC Representative(s):

A. Degehn / S.T

Project: AOC 2063 POG - Burien

Location: 12660 1st Ave S, Seattle, WA

Contact Information: (206) 781-1449

Project No: 707600070

Task No:

Well ID:

GW-155

Weather: Overcast

Temperature: 45°

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape

Interface Probe (Model/ID): NA

Water Quality Meter (Model/ID): YSI 556 MPS

Decontamination Method: Alconox/DI Water

Purging Method: ☐ PVC Bailer ☐ Vacuum Truck ☐ Submersible Pump ☐ Peristaltic Pump Other: Geo Sub.3 Well Volumes ☐ Low Flow ☒ Micro Purge ☐ Intake Depth (feet below TOC) 4.3'Sampling Method: ☐ Teflon Bailer ☐ Disposable Bailer ☒ Dedicated Tubing Other: _____

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other

Casing Volumes (CV):

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

WC _____ x CM _____ = _____ (CV)(gal) x 3.0 CV (gal) = _____ PV

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet): 45.00

Depth to Water (DTW)(feet): 40.42

Water Column (WC)(feet): 4.58

LNAPL Thickness (ft):

Purging Start Time: 1435

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
1445	41.32	0.150	13.80	397	brown	2.92	6.93	80.0	—
1448	41.45	0.65	14.30	392	brown	3.45	6.89	81.5	—
1451	41.50	0.75	14.50	389	brown	3.49	6.88	82.3	—

Sample Data

Sample ID: GW-155	Time of Sample: 1500	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:		NO	HCl	Gx, VOCs
6-40ml VOAs		NO/Lab Filtered	HNO3	Pb, Dissolved Pb
2-250ml PE				

Well Recovery Data

Maximum Drawdown (DTWm)(feet): 1.08	Approximate Flow Rate (GPM):
Recovery Type: ☒ Fast ☐ Slow	% Recovery = 100%
Purge Water Disposition (Attach Drum Inventory Log - FLD 108):	

Comments:

Water appears brown-turbid



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-08

ATC Branch: Seattle - 10282

Date:

Page of

ATC Representative(s):

Gw - 185

Project:

Location:

Contact Information: (206) 781-1449

Project No:

Task No:

Well ID:

Weather:

Temperature:

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape

Interface Probe (Model/ID): NA

Water Quality Meter (Model/ID): YSI 556 MPS

Decontamination Method: Alconox/DI Water

Purging Method: ☐ PVC Bailer ☐ Vacuum Truck ☐ Submersible Pump ☐ Peristaltic Pump Other: ☐3 Well Volumes ☐ Low Flow ☐ Micro Purge ☐ Intake Depth (feet below TOC) ☐Sampling Method: ☐ Teflon Bailer ☐ Disposable Bailer ☐ Dedicated Tubing Other: ☐

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other

Casing Volumes (CV):

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

WC x CM = (CV)(gal) x 3.0 CV (gal) = PV

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet): 49.20

Depth to Water (DTW)(feet):

44.70 48.30

Water Column (WC)(feet):

4.5 0.90

LNAPL Thickness (ft):

5T

Purging Start Time:

5T

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other

Sample Data

Sample ID:	Time of Sample:	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
6-40ml VOAs		NO	HCl	Gx, VOCs
2-250ml PE		NO/Lab Filtered	HNO3	Pb, Dissolved Pb

Well Recovery Data

Maximum Drawdown (DTWm)(feet):	Approximate Flow Rate (GPM):
Recovery Type: ☐ Fast ☐ Slow	% Recovery =
Purge Water Disposition (Attach Drum Inventory Log - FLD 108):	
Comments: Not enough water to sample	



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-08

ATC Branch: Seattle - 10282

Date:

Page of

ATC Representative(s):

A. Degeta / J.T

Project:

Location:

Contact Information: (206) 781-1449

Project No:

Task No:

Well ID:

GW-18D

Weather:

Temperature:

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape

Interface Probe (Model/ID): NA

Water Quality Meter (Model/ID): YSI 556 MPS

Decontamination Method: Alconox/DI Water

Purging Method: ☐ PVC Bailer ☐ Vacuum Truck ☐ Submersible Pump ☐ Peristaltic Pump Other: ☐3 Well Volumes ☐ Low Flow ☐ Micro Purge ☐ Intake Depth (feet below TOC) ☐Sampling Method: ☐ Teflon Bailer ☐ Disposable Bailer ☐ Dedicated Tubing Other: ☐

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other

Casing Volumes (CV):

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

WC x CM = (CV)(gal) x 3.0 CV (gal) = PV

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet): 80.90

Depth to Water (DTW)(feet): 77.70

Water Column (WC)(feet): 3.20

LNAPL Thickness (ft):

Purging Start Time: 1555

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
1605	78.10	0.45	14.89	750	clear	4.33	7.15	73.6	—
1608	78.10	0.55	14.87	749	→	4.36	7.16	74.0	—
1611	78.20	0.75	14.85	73.6	→	4.39	7.19	76.3	—

Sample Data

Sample ID: GW-18D	Time of Sample: 1615	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
6-40ml VOAs		NO	HCl	Gx, VOCs
2-250ml PE		NO/Lab Filtered	HNO3	Pb, Dissolved Pb

Well Recovery Data

Maximum Drawdown (DTWm)(feet): 0.50	Approximate Flow Rate (GPM): 140ml/min
Recovery Type: ☒ Fast ☐ Slow	% Recovery = 100%
Purge Water Disposition (Attach Drum Inventory Log - FLD 108):	

Comments:

	Monitoring Well Purging and Sampling Log		FLD-103							
			Revision 1.0							
			Jul-08							
ATC Branch: Seattle - 10282		Date: 12/12/19		Page of						
ATC Representative(s): A. Decker / J. T.		Project: AOC 2063 P66-Burien								
Contact Information: (206) 781-1449		Location: 12660 1st Aves, Seattle, WA								
Well ID: GW-10D		Project No: Z076000070		Task No:						
		Weather: Rain		Temperature: 45°						
Purging & Sampling Instrumentation & Method										
Water Level Meter (Model/ID): Envirotape		Interface Probe (Model/ID): NA								
Water Quality Meter (Model/ID): YSI 556 MPS		Decontamination Method: Alconox/DI Water								
Purging Method: ☐ PVC Bailer ☐ Vacuum Truck ☐ Submersible Pump ☐ Peristaltic Pump ☐ Other: ☐										
3 Well Volumes ☐ Low Flow ☐ Micro Purge ☐ Intake Depth (feet below TOC) 81.0'										
Sampling Method: ☐ Teflon Bailer ☐ Disposable Bailer ☒ Dedicated Tubing ☐ Other: Gred Sub.										
Casing Volume Information		Purging Calculations								
Casing Diameter (Circle): 2" 4" 6" Other		Casing Volumes (CV):								
Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47		WC _____ x CM _____ = _____ (CV)(gal) x 3.0 CV (gal) = _____ PV								
Monitoring Measurements										
Depth to LNAPL (feet):		Total Well Depth (feet): 93.10								
Depth to Water (DTW)(feet): 79.00		Water Column (WC)(feet): 14.10								
LNAPL Thickness (ft):		Purging Start Time: 10:34								
Purging Data										
Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other	
10:44	79.0	0.70	13.28	244	clear	7.82	7.07	119.9	—	
10:45	79.0	0.90	13.33	248	"	7.76	7.00	119.4	—	
10:50	79.0	1.20	13.32	250	"	7.71	6.97	120.0	—	
Sample Data										
Sample ID: GW-10D		Time of Sample: 10:55 to 10:54		Filtered (yes/no)	Preservatives	Analytical Parameters				
Container Types, Volumes, & Quantities:										
6-40ml VOAs ☒					NO	HCl	Gx, VOCs			
2-250ml PE ☒ + 2 HNO3 poly.					NO/Lab Filtered	HNO3	Pb, Dissolved Pb			
Well Recovery Data										
Maximum Drawdown (DTWm)(feet): 0.0		Approximate Flow Rate (GPM):								
Recovery Type: ☒ Fast ☐ Slow		% Recovery = 100%								
Purge Water Disposition (Attach Drum Inventory Log - FLD 108):										
Comments:										



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-08

ATC Branch: Seattle - 10282

Date: 12/12/19

Page of

ATC Representative(s):

Project:

ADL 2063 Plot - Burien

Location:

12660 1st Ave S, Seattle, WA

Contact Information: (206) 781-1449

Project No:

Z076000070

Task No:

Well ID:

GW-14D

Weather:

Rain

Temperature:

45°

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape

Interface Probe (Model/ID): NA

Water Quality Meter (Model/ID): YSI 556 MPS

Decontamination Method: Alconox/DI Water

Purging Method: ☐ PVC Bailer ☐ Vacuum Truck ☐ Submersible Pump ☐ Peristaltic Pump Other: ☐3 Well Volumes ☐ Low Flow ☐ Micro Purge ☐ Intake Depth (feet below TOC) ☐Sampling Method: ☐ Teflon Bailer ☐ Disposable Bailer ☐ Dedicated Tubing Other: ☐

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other

Casing Volumes (CV):

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

WC ☐ x CM ☐ = ☐ (CV)(gal) x 3.0 CV (gal) = ☐ PV

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet): 80.20

Depth to Water (DTW)(feet): 77.30

Water Column (WC)(feet):

LNAPL Thickness (ft):

Purging Start Time: 1150

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
1200	78.80	0.35	14.35	637	turbid	1.98	7.87	-92.6	-
1203	78.80	0.55	13.93	636	clear	1.89	7.89	-86.5	-
1206	78.80	0.75	13.72	632	"	1.94	7.94	-79.3	-

Sample Data

Sample ID: GW-14D	Time of Sample: 1215	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
6-40ml VOAs		NO	HCl	Gx, VOCs
2-250ml PE		NO/Lab Filtered	HNO3	Pb, Dissolved Pb

Well Recovery Data

Maximum Drawdown (DTWm)(feet): 1.50	Approximate Flow Rate (GPM): 130ml/min
Recovery Type: ☒ Fast ☐ Slow	% Recovery = 100%

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments:



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-08

ATC Branch: Seattle - 10282

Date:

12/12/19

Page 1 of

ATC Representative(s):

A. Dejean / J.T

Project:

APC 2063 P66-Burien

Location:

12660 1st Ave S, Seattle, WA

Contact Information: (206) 781-1449

Project No:

7076000070

Task No:

Well ID:

GW-145

Weather:

Rain

Temperature:

45°

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape

Interface Probe (Model/ID): NA

Water Quality Meter (Model/ID): YSI 556 MPS

Decontamination Method: Alconox/DI Water

Purging Method: ☐ PVC Bailer ☐ Vacuum Truck ☒ Submersible Pump ☐ Peristaltic Pump Other: ☐3 Well Volumes ☐ Low Flow ☒ Micro Purge ☐ Intake Depth (feet below TOC) ~42.00'Sampling Method: ☐ Teflon Bailer ☐ Disposable Bailer ☒ Dedicated Tubing Other: ☐

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): (2") 4" 6" Other

Casing Volumes (CV):

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

WC ☐ x CM ☐ = ☐ (CV)(gal) x 3.0 CV (gal) = ☐ PV

Monitoring Measurements

Depth to LNAPL (feet): —

Total Well Depth (feet): 50.50

Depth to Water (DTW)(feet): 45.00

Water Column (WC)(feet): 5.50

LNAPL Thickness (ft): —

Purging Start Time: 1257

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
1307	46.40	0.5	14.62	412	Cloudy	0.52	7.97	77.9	—
1310	46.50	0.65	14.87	420	Cloudy	0.52	7.72	3.0	
1313	46.60	0.85	14.92	426	Cloudy	0.57	7.57	58.5	

Sample Data

Sample ID: GW-145	Time of Sample: 1320	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
6-40ml VOAs		NO	HCl	Gx, VOCs
2-250ml PE		NO/Lab Filtered	HNO3	Pb, Dissolved Pb

Well Recovery Data

Maximum Drawdown (DTWm)(feet): 1.60	Approximate Flow Rate (GPM): 1.40 gpm/min
Recovery Type: ☒ Fast ☐ Slow	% Recovery = 100 %

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments:

Slight sheen observed, Smelly water.
ORP parameter erratic, not stable over purge period

APPENDIX C
NON-HAZARDOUS WASTE DOCUMENTATION

4753SD

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number N/A	2. Page 1 of 1	3. Emergency Response Phone (800) 337-7453	4. Waste Tracking Number P66 AOC 2063 - 020420-01
5. Generator's Name and Mailing Address Philips SS 76 Broadway Sacramento, CA 95818		Generator's Phone: (916) 958-7500 Attn: Ed Ralston			
6. Transporter 1 Company Name DH Environmental, Inc.		U.S. EPA ID Number WAH000047217			
7. Transporter 2 Company Name Chemical Waste Management of the Northwest		U.S. EPA ID Number ORD089452353			
8. Designated Facility Name and Site Address Chemical Waste Management of the Northwest 17529 Cedar Springs Lane Arlington, OR 97812		U.S. EPA ID Number ORD089452353			
Facility's Phone: (541) 434-2543					
GENERATOR	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity
			No.	Type	12. Unit Wt./Vol.
	1. Material Not Regulated by DOT (non-regulated DW water)		001	Dm	240 P
	2.				
	3.				
4.					
13. Special Handling Instructions and Additional Information					
1. OR33083 - STAD01 AOC (2063) WOMXU 970900					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Offeror's Printed/Typed Name Elizabeth Silver					
Signature <i>Elizabeth Silver</i>					
Month Day Year 2 7 20					
INTL	15. International Shipments ☐ Import to U.S. ☐ Export from U.S.				
	Port of entry/exit: Date leaving U.S.:				
TRANSPORTER	16. Transporter Acknowledgment of Receipt of Materials				
	Transporter 1 Printed/Typed Name Jacob Briere				
Signature <i>Jacob Briere</i>					
Month Day Year 2 7 20					
Transporter 2 Printed/Typed Name J. P. Smith					
Signature <i>J. P. Smith</i>					
Month Day Year 2 7 20					
DESIGNATED FACILITY	17. Discrepancy				
	17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection				
	17b. Alternate Facility (or Generator)				
	Manifest Reference Number				
	U.S. EPA ID Number				
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator)					
Month Day Year					
got count					
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a					
Printed/Typed Name Adam Daulton					
Signature <i>Adam Daulton</i>					
Month Day Year 2 7 20					

475350

NON-HAZARDOUS WASTE MANIFEST
(Continuation Sheet)

19 Generator ID Number
N/A

20. Page
of 2

21. Waste Tracking Number

F86 AOC2083-020420

22. Generator's Name
PHILLIPS 66 - SEATTLE AOC 2083

23. Transporter 3 Company Name UPRR

U.S. EPA ID Number
NEC0017922910

24. Transporter 3 Company Name COLUMBIA RIDGE LANDFILL

U.S. EPA ID Number
ORD9877173457

25. Waste Shipping Name and Description

26. Containers

No.

Type

27. Total
Quantity

28. Unit
Wt./Vol.

29. Special Handling Instructions and Additional Information
CONTAINER # WMXU 970900

30. Transporter 3 Acknowledgment of Receipt of Materials

Printed/Typed Name

SR

Signature

[Signature]

Month Day Year
12 15 20

31. Transporter 4 Acknowledgment of Receipt of Materials

Printed/Typed Name

John L Galibon

Signature

[Signature]

Month Day Year
12 15 20

32. Discrepancy

GENERATOR

TRANSPORTER

DESIGNATED FACILITY