ATC
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GROUNDWATER MONITORING REPORT
(Second Quarter 2016)

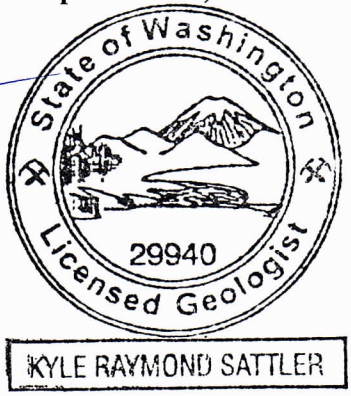
Phillips 66 Facility No. 255353 (AOC #1396)
600 Westlake Avenue North
Seattle, Washington
Washington State Department of Ecology VCP No. NW1714

Submitted to:
Mr. Roger Nye
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

Cardno ATC Project No. Z076000073
September 26, 2016



Kyle Sattler, L.G.
Senior Project Manager

GROUNDWATER MONITORING REPORT
(Second Quarter 2016)
Phillips 66 Facility No. 255353 (AOC #1396)
600 Westlake Avenue North
Seattle, Washington

SITE INFORMATION:

ATC Contact Person:	Kyle Sattler
Date of previous sampling event:	12/07/15 and 12/08/15
Current remediation technique(s):	Soil Vapor Extraction/Air Sparge (System currently not active).
Ecology VCP Number:	NW1714

FIELD ACTIVITY:

Date(s) monitored and/or sampled:	06/28/16
Wells monitored:	Seven (SMW-3, MWR-1, MWR-5, MWR-6, MW-213, MW-216 and MW-217). Could not locate MW-45. Could not open monument cover on MW-211 (due to bent bolt), making the well inaccessible.
Wells sampled:	Five (MWR-5, MWR-6, MW-213, MW-216 and MW-217).
Purging method:	Wells were purged prior to sampling using low flow pumping via a peristaltic pump and dedicated polyethylene tubing.
Sampling method:	Samples were collected using peristaltic pump and dedicated polyethylene tubing.

SITE HYDROGEOLOGY:

Minimum depth to groundwater (feet below top of casing [TOC]):	9.09 (SMW-3)
Maximum depth to groundwater (feet below TOC):	13.01 (MW-216)
Average groundwater elevation (feet above mean sea level):	14.21 (wells SMW-3, MWR-1, MWR-5, MWR-6, MW-213, MW-216 and MW-217)
Change in average groundwater elevation since previous monitoring event (feet):	-4.37 (wells SMW-3, MWR-1, MWR-5, MWR-6, MW-213, MW-216 and MW-217)
Approximate groundwater gradient/flow direction:	0.002 / Southeast
Previous groundwater gradient/flow direction:	0.04 / Northeast south of site; regionally to the north-northeast

GROUNDWATER CONDITIONS (6/28/16):

Minimum dissolved phase gasoline-range hydrocarbons concentration excluding "non-detects" (micrograms per liter [µg/L]):	10,800 (MWR-5)
Maximum dissolved phase gasoline-range hydrocarbons concentration (µg/L):	10,800 (MWR-5)
Maximum dissolved phase gasoline-range hydrocarbons concentration (µg/L) observed previous sampling event:	748 (MW-45)
Minimum dissolved phase benzene concentration excluding "non-detects" (µg/L):	2.3 (MW-213)
Maximum dissolved phase benzene concentration (µg/L):	14.9 (MWR-5)
Maximum dissolved phase benzene concentration (µg/L) observed previous sampling event:	10.3 (MW-216)
Minimum dissolved phase ethylbenzene concentration excluding "non-detects" (µg/L):	5.5 (MW-213)
Maximum dissolved phase ethylbenzene concentration (µg/L):	232 (MWR-5)
Maximum dissolved phase ethylbenzene concentration (µg/L) observed previous sampling event:	20.3 (MW-45)
Minimum dissolved phase toluene concentration excluding "non-detects" (µg/L):	All wells were "non-detect"
Maximum dissolved phase toluene concentration (µg/L):	All wells were "non-detect"
Maximum dissolved phase toluene concentration (µg/L) observed previous sampling event:	All wells sampled were "non-detect"
Minimum dissolved phase total xylenes concentration excluding "non-detects" (µg/L):	3.2 (MW-213)
Maximum dissolved phase total xylenes concentration (µg/L):	519 (MWR-5)

Maximum dissolved phase total xylenes concentration (µg/L) observed previous sampling event:	3.4 (MW-45)

ADDITIONAL INFORMATION AND COMMENTS:

Gasoline-range hydrocarbons, and benzene, toluene, ethylbenzene, and total xylenes (BTEX) were either not detected or were detected at concentrations less than the MTCA Method A cleanup levels in all of the samples submitted for analysis during this sampling event, with the exception of gasoline-range hydrocarbons and benzene detected in the sample collected from MWR-5. Well MW-45 could not be located during this sampling event, and well MW-211 was inaccessible due to a bent bolt preventing the monument lid from opening.

Purge water generated during the June 2016 groundwater monitoring and sampling event was placed in the AS/SVE system holding tank, to be treated through the liquid carbon vessels prior to discharge to the City's sewer system.

As noted above and shown on Figure 1, the groundwater flow direction determined during this monitoring and sampling event is toward the southeast. This is inconsistent with previous monitoring events, in which the groundwater flow direction has predominantly been toward the north-northeast. The depths to water and groundwater flow direction are likely influenced by the presence of native soil and fill materials on and off-site and the presence of subsurface hydrogeologic barriers installed during the remedial excavation activities completed in 2008. The elevation of the water surface in south Lake Union (approximately 500 feet north of the Site) may also influence the direction of the groundwater flow beneath the site.

ATC is continuing to evaluate the quarterly groundwater monitoring and sampling data trends and results of the previous "high intensity targeted" (HIT) source removal events. Additional HIT source removal events and/or remediation system restart may be implemented in the future if determined warranted. All of the wells will be gauged and sampled during the next groundwater monitoring and sampling event scheduled for the second semester of 2016.

ATTACHMENTS:

Table 1 Summary of Historical Groundwater Gauging and Laboratory Analytical Data
Figure 1 Groundwater Conditions Map (6/28/16)
Figure 2 Groundwater Analytical Map (6/28/16)

Appendix A Laboratory Analytical Data Report and Chain of Custody Document
Appendix B Field Report / Groundwater Gauging & Sampling Logs

TABLE

Table 1
Summary of Historical Groundwater Gauging and Laboratory Analytical Data
Phillips 66 Site No. 255353 (AOC 1396)
600 Westlake Avenue North
Seattle, Washington

Sample I.D. TOC [a]	Sample Date	TPH-Gasoline (µg/L)	TPH-Diesel (µg/L)	TPH-Oil (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphtha-lene (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	EDB (µg/L)	EDC (µg/L)	Kerosone (µg/L)	DTW (feet)	SPH (feet)	GWE (feet)
MW-41	11/05/91	**<1,000**	**<1,000**	--	**67**	<0.5	<0.5	<0.5	--	--	--	--			--	--	--	--
27.00	12/29/93	<100	<250	**<750**	4.6	<0.5	<0.5	<0.5	--	--	--	--			--	11.24	0.00	15.76
	07/14/94	<100	<250	**<750**	**10**	<0.5	<0.5	<0.5	--	--	--	--			--	10.81	0.00	16.19
	10/25/94	<50	**500**	**<750**	<0.5	<0.5	<0.5	<1.0	--	--	--	--			--	13.69	0.00	13.31
	03/08/95	<50	<250	**<750**	1.6	<0.5	<0.5	<1.0	--	--	--	--			--	14.72	--	12.28
	06/06/95	<50	<250	**<750**	<0.5	<0.5	<0.5	<1.0	--	--	--	--			--	15.02	--	11.98
	09/07/95	<50	<250	**<750**	<0.5	<0.5	<0.5	<1.0	--	--	--	--			--	15.00	--	12.00
	12/08/95	<50	<250	**<750**	<0.5	<0.5	<0.5	<1.0	--	--	--	--			--	16.30	--	10.70
	04/01/96	<50	<250	**<750**	<0.5	<0.5	<0.5	<1.0	--	--	--	--			--	15.02	--	11.98
	06/25/96	<50	<250	**<750**	<0.5	<0.5	<0.5	<1.00	--	--	--	--			--	15.07	--	11.93
	09/27/96	<50	<250	**<750**	<0.5	<0.5	<0.5	<1.00	--	--	--	--			--	15.42	0.00	11.58
	03/28/97	--	--	--	--	--	--	--	--	--	--	--			--	15.27	0.00	11.73
	06/30/97	--	--	--	--	--	--	--	--	--	--	--			--	NM	NM	--
	06/02/05	<100	<237	<474	<1	<1	<1	<2	<1	--	--	--			--	15.48	0.00	11.52
	07/26/05	<50	258[c]	**977**	<0.2	<0.2	<0.2	<0.50	<1	<0.5	--	--			--	15.88	0.00	--
36.25	11/02/05	<50	<238	<476	<0.5	<0.5	<0.5	<3.00	<1	--	--	--	--	--	--	15.89	0.00	20.36
	02/23/06	<50	<250	<500	<0.5	<0.5	<0.5	<3.00	<1	<1	1.32	--	--	--	--	15.26	0.00	20.99
	05/09/06	<50	<253	**<505**	<0.5	<0.5	<0.5	<3.00	<1	<1	1.56	--	--	--	--	15.47	0.00	20.78
	08/30/06	<80	<240	<481	<0.5	<0.5	<0.5	<3.00	<1	<5	<1	--	--	--	--	15.90	0.00	20.35
	12/12/06	<50	<243	<485	<0.5	<0.5	<0.5	<3.00	<1	<5	8.79	--	--	--	--	15.81	0.00	20.44
	03/07/07	<50	<263	**<526**	<0.5	<0.5	<0.5	<3.00	<1	<5	<1	--	--	--	--	15.38	0.00	20.87
	06/14/07	79.2	<236	<472	<0.5	<0.5	<0.5	<3.00	<1	<5	<1	--	--	--	--	15.45	0.00	20.80
	09/13/07	<50	<236	<472	<0.5	<0.5	<0.5	<3.00	<1	<5	2.56	--	--	--	--	15.61	0.00	20.64
	12/18/07	<50	<236	<472	<1	<1	<1	<3	<1	<1	2.73	--	--	--	--	15.46	0.00	20.79
	03/17/08	<50	<236	<472	**<236**	<0.5	<0.5	<0.5	<3	<1	<5	<1	--	--	<1	15.33	--	20.92
	06/03/08	<50	<236	<472	<0.5	<0.5	<0.5	<3	<1	<5	<1	<1	--	--	<236	15.31	0.00	20.94
	08/04/08	<50	<236	<472	<0.5	<0.5	<0.5	<3	<1	<5	<1	<1	--	--	<236	15.59	0.00	20.66
	11/04/08	<50.0	<245	<490	<0.500	<0.500	<0.500	<3.00	<1.00	<5.00	<1.00	<1.00	--	--	<245	15.80	0.00	20.45
	02/24/09	<50.0	<240	<481	<0.500	<0.500	<0.500	<3.00	--	<5.00	<1.00	<1.00	--	--	<240	15.60	0.00	20.65
	05/17/09	<50.0	<250	<500	<0.500	<0.500	<0.500	<3.00	<1.00	<5.00	2.05	<1.00	--	--	<250	15.78	0.00	20.47
	08/16/09	<50	470	<480	<0.50	<0.50	<0.50	<2.0	<1.0	<5.0	<5.0	<5.0	--	--	<240	16.25	0.00	20.00
	11/15/09	<50	<280	**<560**	<0.50	<0.50	<0.50	<2.0	<1.0	<5.0	--	--	--	--	<280	16.50	0.00	19.75
	02/21/10	<50.0	98.4	<379	<1.0	<1.0	<1.0	<3.0	--	<1.0	1.8	<0.10	--	--	<75.8	15.50	0.00	20.75
	05/23/10	<50.0	<76.9	<385	<1.0	<1.0	<1.0	<3.0	--	<1.0	0.35	<0.10	--	--	<76.9	15.42	0.00	20.83
	08/16/10	Unable to gauge and sample; Well damaged.																
	11/15/10	<50.0	<77.7	<388	<1.0	1.8	<1.0	<3.0	--	<1.0	<10.0	<10.0	--	--	<77.7	15.24	0.00	21.01
	02/28/11	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	--	<1.0	<10.0	--	--	--	<77.7	15.09	0.00	21.16
	06/14/11	<50.0	<82.5	<412	<1.0	<1.0	<1.0	<3.0	--	--	0.51	<0.10	--	--	--	15.13	0.00	21.12
	08/29/11	<50.0	<84.2	<421	<1.0	<1.0	<1.0	<3.0	--	<1.0	<0.10	<0.10	--	--	<84.2	15.19	0.00	21.06
	12/05/11	<50.0	<85.1	<426	<1.0	<1.0	<1.0	<3.0	--	<10.0	0.16	0.11	--	--	<85.1	15.32	0.00	20.93
	02/15/12	<50.0	<76.2	<381	<1.0	<1.0	<1.0	<3.0	--	2.0	<10.0	<10.0	--	--	<76.2	15.19	0.00	21.06
	05/16/12	<50.0	<81.6	<408	<1.0	<1.0	<1.0	<3.0	--	<1.0	<10.0	<10.0	--	--	<81.6	14.92	0.00	21.33
	08/14/12	<50.0	<88.9	<444	<1.0	<1.0	<1.0	<3.0	--	<1.0	<10.0	<10.0	--	--	<88.9	15.10	0.00	21.15
	11/20/12	<50.0	<100	<100	<1.0	<1.0	<1.0	<3.0	--	<4.0	14.8	7.1	--	--	<100	15.19	0.00	21.06
	11/07/13	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0	--	--	--	15.69	0.00	20.56
	07/29/14	<100	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0	<0.010	<1.0	--	15.72	0.00	20.53
36.09	12/09/14	<100	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0	<0.0099	<1.0	--	15.70	0.00	20.39
	03/23/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	15.42	0.00	20.67
	06/22/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	15.57	0.00	20.52
	09/10/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	15.81	0.00	20.28
	12/07/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	10.58	0.00	25.51
	06/28/16	Not Gauged or Sampled.																

Table 1
Summary of Historical Groundwater Gauging and Laboratory Analytical Data
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600 Westlake Avenue North
Seattle, Washington

Sample I.D. TOC [a]	Sample Date	TPH-Gasoline (µg/L)	TPH-Diesel (µg/L)	TPH-Oil (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphtha-lene (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	EDB (µg/L)	EDC (µg/L)	Kerosone (µg/L)	DTW (feet)	SPH (feet)	GWE (feet)
MW-45	11/04/91	**17,000**	**2,000**	--		500	**1,000**	370	**2,300**	--	--	--			--	--	--	--
18.11	12/29/93	**11,000**	**1,100**	**860**		**2,900**	**760**	680	**3,000**	--	--	--			--	8.79	0.00	9.32
	04/07/94	**16,000**	**830**	**<750**		**2,500**	620	580	**2,500**	--	--	--			--	8.22	0.00	-8.22
	07/14/94	**25,000**	**850**	**1,100**		**4,000**	**750**	870	**3,600**	--	--	--			--	8.39	0.00	9.72
	10/25/94	**19,000**	**1,000**	**<750**		**2,600**	230	920	**3,000**	--	--	--			--	9.10	0.00	9.01
	09/07/01 [b]	<50	375	**<606**		<0.5	<0.5	<0.5	<1	--	--	--			--	9.80	0.00	8.31
	10/10/01	--	--	--		--	--	--	--	--	--	--			--	NM	NM	--
	12/28/01	**17,300**	**2,210**	**597**		**2,130**	73.4	**1,330**	**2,970**	--	--	--			--	9.03	0.00	9.08
	03/08/02	**15,500**	**2,380**	**686**		**2,090**	38.4	**1,190**	**1,650**	--	--	--			--	9.12	0.00	8.99
	06/24/02	**5,100**	**1,920**	**761**		**1,330**	6.39	451	**235**	--	--	--			--	9.00	0.00	9.11
	09/26/02 [c]	**2,420**	**1,190**	**547**		394	3.41	204	**106**	--	--	--			--	10.20	0.00	7.91
	12/12/02	Obstructed by vehicle														NM	NM	--
	03/13/03	**3,590**	**2,050**	<500		219	133	99.4	**368**	--	--	--			--	8.05	0.00	10.06
	06/12/03	**10,700**	**1,470**	**<575**		**1,350**	10.8	**954**	**631**	--	--	--			--	9.16	0.00	8.95
	09/19/03	583	<298	**<595**		1.93	2.25	5.65	**38.6**	--	--	--			--	10.68	0.00	7.43
	01/14/04	360	<118	<236		4.97	<0.5	2.48	1.01	--	--	--			--	10.12	0.00	7.99
	03/30/04	303	234	<240		<1	<1	<1	<2	--	--	--			--	10.19	0.00	7.92
	06/22/04	151	365	358		<1	<1	<1	<2	--	--	--			--	10.34	0.00	7.77
	09/29/04	270	<251	**<503**		<0.5	1.5	0.62	7.3	--	--	--			--	10.40	0.00	7.71
	12/29/04	207	<249	<498		2.90	<1	<1	9.04	--	--	--			--	9.40	0.00	8.71
	03/17/05	235	<239	<477		5.61	1.08	2.49	19.1	--	--	--			--	9.44	0.00	8.67
	06/01/05	793	283 [f,j]	<491 [j]		17.1	37.9	13.9	**83.8**	<1	--	--			--	8.62	0.00	9.49
	07/25/05	564	<250	**<500**		18.6	14.6	16.7	**113.2**	<1	7.51	--			--	8.98	0.00	--
27.52	11/01/05	100	<240	<481		<0.200	<0.5	<0.5	<1	<2	--	--			--	9.81	0.00	17.71
	02/21/06	484	<275	**<549**		5.13	<0.5	7.65	**36.5**	<1	3.77	1.30			--	8.83	0.00	18.69
	05/08/06	198	**540**	**<500**		1.06	<0.5	0.980	2.70	<1	1.69	<1			--	8.79	0.00	18.73
	08/30/06	104	<248	<495		<0.5	<0.5	<0.500	<3	<1	<5	<1			--	9.84	0.00	17.68
	12/12/06	**25,900**	**662**	<485		64.1	23.8	330	**5,020**	<5	**278**	10.8			--	9.13	0.00	18.39
	03/06/07	**1,680**	<260	**<521**		<0.5	<0.5	22.0	**139**	<1	54	<1			--	8.75	0.00	18.77
	06/15/07	**12,500**	439	<481 [f]		16.8	2.77	178	**1,590**	<1	**330**	1.77			--	8.85	0.00	18.67
	09/13/07	**23,400**	328	<481		65.3	16.9	303	**3,740**	<1	**246**	6.85			--	9.07	0.00	18.45
	12/17/07	Unable to sample, well under water														--	--	--
	03/18/08	<50	<236	<472	**<236**	<0.5	<0.5	<0.5	<3	<1	<5	<1			<1	8.30	0.00	19.22
	06/03/08	Unable to sample, well under water														--	--	--
	08/05/08	64.4	<236	<472	<0.5	<0.5	<0.5	<3	<1	<5	1.39	<1			<236	8.90	0.00	18.62
	11/03/08	Well under water, unable to sample.														--	--	--
	02/22/09	53.2	<236	<472	<0.500	<0.500	<0.500	<3.00	--	15.0	<1.00	<1.00			<236	11.44	0.00	8.38
	05/17/09	176.0	428	<476	<0.500	<0.500	<0.500	<3.00	<1.00	97.9	<1.00	<1.00			431	16.67	0.00	10.85
	08/16/09	250	**570**	<480	<0.50	<0.50	<0.50	<2.0	<1.0	100	<5.0	<5.0			**1200**	16.92	0.00	10.60
	11/15/09	**1000**	**2,200** [y]	<480	3.9	2.2	11	28	<1.0	14	9.2	<1			**2,100** [y]	9.12	0.00	18.40
	02/21/10	745	**1,160**	**832**	3.9	<1.0	34	23.2	--	14.5	4.7	<0.10			**566**	8.46	0.00	19.06
	05/23/10	398	**692**	**449**	1.3	<1.0	14.5	4	--	7.9	3.1	<0.10			**665**	8.15	0.00	19.37
	08/16/10	319	<77.7	<388	<1.0	<1.0	5.8	<3.0	--	7.5	7.2	0.37			177	8.80	0.00	18.72
	11/16/10	**1,880**	106	<388	**5.8**	1.3	43.1	212	--	28.4	<10.0	<10.0			**547**	8.15	0.00	19.37
	02/28/11	**10,500**	347	<388	**17.6**	3.3	172.0	479	--	150.0	<10.0	--			**2,750**	8.66	0.00	18.86
	06/14/11	**3,230**	137	<396	1.7	<1.0	46.8	34	--	--	1.8	<0.10			**--**	8.85	0.00	18.67
	08/29/11	**1,790**	119	<421	<1.0	<1.0	5.1	<3.0	--	36.5	0.4	<0.10			489	8.62	0.00	18.90
	12/05/11	**19,900**	298	<426	**20.5**	5.7	327	**2,240**	--	**213**	2.1	0.34			**6,960**	7.80	0.00	19.72
	02/15/12	**14,000**	219	<404	**11.6**	2.7	203	631	--	**206.0**	<10.0	<10.0			**2,470**	9.05	0.00	18.47
	05/15/12	**3,920**	211	<421	<5.0	<5.0	77.0	122	--	75.4	<10.0	<10.0			**1,330**	8.14	0.00	19.38
	08/14/12	**1,600**	206	<430	<1.0	<1.0	7.3	<3.0	--	33.7	<10.0	<10.0			**676**	8.78	0.00	18.74
	11/20/12	**4,130**	**1,900**	<100	**6.0**	2.8	105	612	--	99.3	3.7	<3.0			**2,500**	4.37	--	23.15
	11/06/13	281	<400	<400	<1.0	1.3	<1.0	<3.0	<1.0	--	<10.0	<10.0			<400	10.50	0.00	Note Z
28.06	07/29/14	Well was dry																
27.91	12/08/14	323	--	--	**6.2**	<1.0	1.6	<3.0	<1.0	--	<10.0	<10.0	<0.0098	<1.0	--	10.95	0.00	16.96
	03/23/15	**917**	--	--	**2.0**	<1.0	20.4	53.8	--	--	--	--	--	--	--	9.23	0.00	18.68
	06/22/15	474	--	--	**5.1**	<1.0	18.3	<3.0	--	--	--	--	--	--	--	10.57	0.00	17.34
	09/10/15	150	--	--	--	--	--	--	--	--	--	--	--	--	--	10.11	0.00	17.80
	12/07/15	748	--	--	2.1	<1.0	20.3	3.4	--	--	--	--	--	--	--	8.09	0.00	19.82
	06/28/16	Unable to access well, not gauged or sampled.																

Table 1
Summary of Historical Groundwater Gauging and Laboratory Analytical Data
Phillips 66 Site No. 255353 (AOC 1396)
600 Westlake Avenue North
Seattle, Washington

Sample I.D. TOC [a]	Sample Date	TPH-Gasoline (µg/L)	TPH-Diesel (µg/L)	TPH-Oil (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphtha-lene (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	EDB (µg/L)	EDC (µg/L)	Kerosone (µg/L)	DTW (feet)	SPH (feet)	GWE (feet)
MW-50	10/10/01	**8,970**	**2,200**	<606		674	221	382	**779**	--	--	--				11.11	0.00	8.69
19.80	12/28/01	**23,200**	**3,460**	<500		1,630	3,690	991	**4,480**	--	--	--				10.45	0.00	9.35
	03/08/02	Obstructed by vehicle														NM	NM	--
	06/24/02	**8,290**	**1,970**	556		414	23	314	**2,010**	--	--	--				10.84	0.00	8.96
	09/26/02	Obstructed by vehicle														NM	NM	--
	12/12/02	Obstructed by vehicle														NM	NM	--
	03/13/03	**12,200**	**1,810**	<588		733	127	523	**1,100**	--	--	--				9.93	0.00	9.87
	06/12/03	**6,450**	**1,740**	<500		448	13.7	299	**286**	--	--	--				11.27	0.00	8.53
	09/19/03	**4,440**	<250	<500		51.7	315	26.1	**462**	--	--	--				12.05	0.00	7.75
	01/14/04	**29,700**	**1,970**	<258		308	502	312	**6,180**	--	--	--				11.81	0.00	7.99
	03/30/04	**3,330**	**867**	<241		21.8	<5	21.9	**226.4**	--	--	--				11.65	0.00	8.15
	06/22/04	**2,130**	**874**	<237		14.2	2.4	27.9	**85.11**	--	--	--				11.79	0.00	8.01
	09/29/04	**3,600**	**1,330**	<502		92	62	100	**520**	--	--	--				11.71	0.00	8.09
	12/29/04	**1,570**	**745**	<611		9.69	3.88	9.98	**27.62**	--	--	--				11.01	0.00	8.79
	03/17/05	**1,420**	**1,060**	506		5.82	2.41	10.6	**30.59**	--	--	--				11.26	0.00	8.54
	06/01/05	**1,710**	**528** [g]	<503		20.3	10.7	42.3	**84.7**	8.01	--	--				10.58	0.00	9.22
	07/25/05	**1,500**	<250	<500		16.8	3.23	36.9	**50.11**	4.29	7.04	--				10.90	0.00	--
29.32	11/01/05	634	380 [g]	<472		15.9	2.49	0.52	2.19	5.62	--	--				10.60	0.00	18.72
	02/21/06	**1,430**	<272	<543		139	15.4	16.7	**28.20**	<5	7.05	1.33				10.56	0.00	18.76
	05/08/06	**1,550** [J]	**1,870**	<485		28.4	2.13	24.7	**35.06**	3.88	9.48	<1				10.81	0.00	18.51
	08/29/06	264	<248	<495		8.55	0.780	6.87	7.26	4.23	<5	<1				11.58	0.00	17.74
	12/12/06	**1,650**	<243	<485		80.9	2.75	18.9	41.9	3.93	**17.4**	1.62				10.61	0.00	18.71
	03/08/07	**1,650**	<240	<481		51.3	1.06	14.1	33.6	2.92	**35.9**	<1				10.53	0.00	18.79
	06/15/07	**1390** [J]	333	<495 [r]		28.0	1.00	6.46	5.20	1.85	**40.5**	<1				10.74	0.00	18.58
	09/13/07	439	<240	<481		4.36	<0.5	0.650	<3	1.89	10.3	<1				10.90	0.00	18.42
	12/18/07	886	<236	<472		1.10	<1	4	<3	<1	6.9	2.94				9.63	0.00	19.69
	03/18/08	77.6	<236	<472	<236	1.02	0.58	1.85	<3	<1	<5	<1			<1	11.39	0.00	17.93
	06/03/08	Well covered by trailer truck, unable to sample														--	--	--
	08/05/08	**1,260**	<236	<472	3.94	0.50	8.42	9.76	2.06	<5	4	<1			494	11.28	0.00	18.04
	11/03/08	**1,250**	<236	<472	<0.500	<0.500	3.69	4.84	<1.00	<5.00	<1.00	<1.00			478	10.79	0.00	18.53
	11/18/08	Thought to be Decommissioned														--	--	--
	11/15/09	630	**2,900** [Y]	<490	2.3	0.74	0.65	<2.0	<1.0	660 [H]	1.1	<1			**3000**	11.88	0.00	17.44
	02/21/10	<50.0	**1,280**	457	<1.0	<1.0	<1.0	4.9	--	62.8	0.61	<0.10			392	11.02	0.00	18.30
	05/23/10	57.4	**1320**	433	<1.0	<1.0	<1.0	<3.0	--	60.4	0.92	<0.10			**1080**	10.72	0.00	18.60
	08/16/10	<50.0	158	<392	<1.0	<1.0	<1.0	<3.0	--	33.4	0.63	0.18			181	11.07	0.00	18.25
	11/16/10	<50.0	102	<388	<1.0	<1.0	<1.0	<3.0	--	35.6	<10.0	<10.0			102	10.43	0.00	18.89
	02/28/11	74.8	102	<388	<1.0	<1.0	<1.0	<3.0	--	19.2	<10.0	--			114	10.75	0.00	18.57
	06/14/11	<50.0	<82.5	<412	<1.0	<1.0	<1.0	<3.0	--	--	0.52	<0.10			--	10.06	0.00	19.26
	08/29/11	65.1	<86.0	<430	<1.0	<1.0	<1.0	<3.0	--	15	0.19	0.12			88.2	10.65	0.00	18.67
	12/05/11	71.6	<86.0	<430	<1.0	<1.0	<1.0	<3.0	--	10.2	0.53	<0.10			<86.0	10.15	0.00	19.17
	02/15/12	85.0	110	<426	<1.0	<1.0	<1.0	<3.0	--	20.5	<10.0	<10.0			154	11.35	0.00	17.97
	05/15/12	97.9	<80.0	<400	<1.0	<1.0	<1.0	<3.0	--	16.1	<10.0	<10.0			87.3	10.36	0.00	18.96
	08/14/12	138	117	<430	<1.0	<1.0	<1.0	<3.0	--	11.4	<10.0	<10.0			143	10.75	0.00	18.57
	11/20/12	183	180	<100	<1.0	<1.0	<1.0	<3.0	--	6.5	6.4	<3.0			250	8.88	0.00	20.44
	11/06/13	185	**540**	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0			**530**	12.55	0.00	16.77
	07/29/14	Well contained approximately 0.05 foot of water in well cap; well was not sampled.																
29.00	12/08/14	<100	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--	14.0	<10.0	<0.0098	<1.0	--	14.07	0.00	14.93
	03/27/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	12.05	0.00	16.95
	06/22/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	12.79	0.00	16.21
	09/10/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	12.54	0.00	16.46
	12/07/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	12.01	0.00	16.99
	06/28/16	Not Gauged or Sampled.																

Table 1
Summary of Historical Groundwater Gauging and Laboratory Analytical Data
Phillips 66 Site No. 255353 (AOC 1396)
600 Westlake Avenue North
Seattle, Washington

Sample I.D. TOC [a]	Sample Date	TPH-Gasoline (µg/L)	TPH-Diesel (µg/L)	TPH-Oil (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphtha-lene (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	EDB (µg/L)	EDC (µg/L)	Kerosone (µg/L)	DTW (feet)	SPH (feet)	GWE (feet)
MW-54	06/16/05	206	130[j]	410	4.82	<1	2.09	10.27	<1	--	--	--			--	9.09	0.00	18.91
28.00	07/25/05	177	<250	<500	**5.26**	0.280	0.680	3.11	<1	0.990	--	--			--	9.51	0.00	18.49
	11/18/05	75.8	<243	<485	0.560	0.530	4.19	10.8	<1	--	--	--			--	9.73	0.00	18.27
	02/23/06	<50	**695**	<472	<0.5	<0.5	<0.5	<0.5	<1	<1	1.04	--			--	9.44	0.00	18.56
	05/08/06	<50	328[p]	<500	<0.5	<0.5	<0.5	<3	<1	<1	1.41	--			--	9.31	0.00	18.69
	08/29/06	<80	<236	<472	<0.5	<0.5	<0.5	<3	<1	<5	<1	--			--	10.33	0.00	17.67
	12/12/06	<50	<248	<495	<0.5	<0.5	<0.5	<3	<1	<5	2.69	--			--	9.69	0.00	18.31
	03/06/07	<50	<263	**<526**	<0.5	<0.5	<0.5	<3	<1	<5	<1	--			--	9.40	0.00	18.60
	06/15/07	<50	<243	<485[r]	<0.5	<0.5	<0.5	<3	<1	<5	<1	--			--	9.25	0.00	18.75
	09/13/07	<50	<245	<490	<0.5	<0.5	<0.5	<3	<1	<5	<1	--			--	9.59	0.00	18.41
	12/18/07	<50	<236	<472	<1	<1	<1	<3	<1	<1	1.13	--			--	8.53	0.00	19.47
	03/18/08	<50	<236	<472	**<236**	<0.5	<0.5	<0.5	<3	<1	<5	<1			<1	9.06		18.94
	06/03/08	Unable to sample, well under water														--	--	--
	08/05/08	<50	<236	<472	<0.5	<0.5	<0.5	<3	<1	<5	2.37	<1			<236	9.68	0.00	18.32
	11/03/08	<50	<236	<472	<0.500	<0.500	<0.500	<3.00	<1.00	<5.00	8.64	<1.00			<236	8.72	0.00	19.28
	02/22/09	Well inaccessible: buried under garbage containers.														--	--	--
	05/17/09	Well inaccessible: buried under garbage containers.														--	--	--
	08/16/09	280	<240	<480	<0.50	<0.50	1.4	2.5	<1.0	<5.0	<5.0	<5.0			310	11.78	0.00	16.22
	11/15/09	<50	<240	<470	<0.50	<0.50	<0.50	<2.0	<1.0	<5.0	1.8	<1			<240	9.78	0.00	18.22
	02/21/10	<50.0	178	434	<1.0	<1.0	<1.0	<3.0	--	<1.0	1.1	0.24			<75.8	9.20	0.00	18.80
	05/23/10	<50.0	144	384	<1.0	<1.0	<1.0	<3.0	--	<1.0	4.4	0.12			92.8	8.64	0.00	19.36
	08/16/10	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	--	<1.0	5.7	0.21			<77.7	9.30	0.00	18.70
	11/17/10	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	--	<1.0	<10.0	<10.0			<77.7	8.76	0.00	19.24
	02/28/11	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	--	<1.0	<10.0	--			<77.7	9.23	0.00	18.77
	06/14/11	<50.0	<84.2	<421	<1.0	<1.0	<1.0	<3.0	--	--	1.2	<0.10			--	8.50	0.00	19.50
	08/29/11	<50.0	<84.2	<421	<1.0	<1.0	<1.0	<3.0	--	<1.0	0.58	<0.10			<84.2	9.13	0.00	18.87
	12/05/11	<50.0	<84.2	<421	<1.0	<1.0	<1.0	<3.0	--	<10.0	0.70	0.18			<84.2	8.90	0.00	19.10
	02/16/12	<50.0	<75.8	<379	<1.0	<1.0	<1.0	<3.0	--	2.4	<10.0	<10.0			<75.8	9.98	0.00	18.02
	05/15/12	<50.0	<75.5	<377	<1.0	<1.0	<1.0	<3.0	--	4.0	<10.0	<10.0			<75.5	8.38	0.00	19.62
	08/14/12	<50.0	<87.9	<440	<1.0	<1.0	<1.0	<3.0	--	<1.0	<10.0	<10.0			<87.9	9.40	0.00	18.60
	11/20/12	<100	<100	<100	<1.0	<1.0	<1.0	<3.0	--	<4.0	<3.0	<3.0			<100	6.89	0.00	21.11
	11/06/13	281	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0			<400	10.43	0.00	Note Z
28.05	07/29/14	<100	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0	<0.0098	<1.0	--	14.81	0.00	13.24
27.88	12/08/14	<100	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0	<0.0098	<1.0	--	11.40	0.00	16.48
	03/23/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	9.91	0.00	17.97
	06/22/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	10.43	0.00	17.45
	09/10/15	<100	--	--	2.1	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	10.59	0.00	17.29
	12/07/15	<100	--	--	2.9	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	9.60	0.00	18.28
	06/28/16	Not Gauged or Sampled.																

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Phillips 66 Site No. 255353 (AOC 1396)
600 Westlake Avenue North
Seattle, Washington

Sample I.D. TOC [a]	Sample Date	TPH-Gasoline (µg/L)	TPH-Diesel (µg/L)	TPH-Oil (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphtha-lene (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	EDB (µg/L)	EDC (µg/L)	Kerosone (µg/L)	DTW (feet)	SPH (feet)	GWE (feet)
MW-209	11/05/08	<50.0	<238	<476	<0.500	<0.500	<0.500	<3.00	<1.00	<5.00	<1.00	<1.00			<238	9.22	0.00	18.66
27.00	02/23/09	Inaccessible														--	--	--
	05/17/09	Inaccessible														--	--	--
	08/17/09	Inaccessible														--	--	--
	11/17/09	Inaccessible														--	--	--
	02/22/10	<50.0	251	<388	<1.0	<1.0	<1.0	<3.0	--	<1.0	1.3	<0.10			<77.7	9.30	0.00	17.70
	05/24/10	<50.0	192	<396	<1.0	<1.0	<1.0	<3.0	--	<1.0	1.1	<0.10			137	8.04	0.00	18.96
	08/18/10	<50.0	86.7	<388	<1.0	<1.0	<1.0	<3.0	--	<1.0	1.3	<0.10			<77.7	8.86	0.00	18.14
	11/16/10	<50.0	85.1	<388	<1.0	<1.0	<1.0	<3.0	--	<1.0	<10.0	<10.0			<77.7	9.45	0.00	17.55
	03/01/11	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	--	<1.0	<10.0	--			<77.7	9.26	0.00	17.74
	06/15/11	<50.0	<82.5	<412	<1.0	<1.0	<1.0	<3.0	--	--	0.19	<0.10			--	8.10	0.00	18.90
	08/30/11	<50.0	<80.0	<400	<1.0	<1.0	<1.0	<3.0	--	<1.0	0.35	0.17			--	9.09	0.00	17.91
	12/06/11	<50.0	<82.5	<412	<1.0	<1.0	<1.0	<3.0	--	<10.0	0.12	0.18			<82.5	9.50	0.00	17.50
	02/15/12	<50.0	103	<412	<1.0	<1.0	<1.0	<3.0	--	2.1	<10.0	<10.0			<82.5	9.70	0.00	17.30
	05/16/12	<50.0	<79.2	<396	<1.0	<1.0	<1.0	<3.0	--	<1.0	<10.0	<10.0			<79.2	8.08	0.00	18.92
	08/15/12	<50.0	117	<426	<1.0	<1.0	<1.0	<3.0	--	<1.0	<10.0	<10.0			85.6	8.80	0.00	18.20
	11/21/12	<100	<100	<100	<1.0	<1.0	<1.0	<3.0	--	<4.0	<3.0	<3.0			<100	9.00	0.00	18.00
	11/06/13	<400	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0			<400	9.66	0.00	17.34
	07/29/14	<100	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0	<0.0098	<1.0	--	10.36	0.00	16.64
26.88	12/09/14	<100	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0	<0.0098	<1.0	--	9.61	0.00	17.27
	03/23/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	8.90	0.00	17.98
	06/23/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	8.98	0.00	17.90
	09/11/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	9.75	0.00	17.13
	12/07/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	8.77	0.00	18.11
	06/28/16	Not Gauged or Sampled.																
MW-210	11/05/08	<50.0	<243	<485	<0.500	<0.500	<0.500	<3.00	<1.00	<5.00	<1.00	<1.00			<243	8.60	0.00	18.10
26.70	02/25/09	<50.0	<240	<481	<0.500	<0.500	<0.500	<3.00	--	<5.00	<1.00	<1.00			<240	5.90	0.00	20.80
	05/17/09	<50.0	<245	<490	<0.500	<0.500	<0.500	<3.00	<1.00	<5.00	<1.00	<1.00			<245	8.61	0.00	18.09
	08/17/09	<50	<240	<280	<0.50	<0.50	<0.50	<2.0	<1.0	<5.0	<5.0	<5.0			<240	9.60	0.00	17.10
	11/17/09	<50	<240	<490	<0.50	<0.50	<0.50[H]	<2.0	<1.0	<5.0	1.3	<1			<240	8.15	0.00	18.55
	02/22/10	<50.0	154	<381	<1.0	<1.0	<1.0	5.5	--	<1.0	0.31	0.21			<76.2	8.73	0.00	17.97
	05/24/10	<50.0	190	<385	<1.0	<1.0	<1.0	<3.0	--	<1.0	.45	<0.10			150	7.65	0.00	19.05
	08/18/10	<50.0	<78.4	<392	<1.0	<1.0	<1.0	<3.0	--	<1.0	.36	<0.10			<78.4	8.54	0.00	18.16
	11/16/10	<50.0	85.1	<388	<1.0	<1.0	<1.0	<3.0	--	<1.0	<10.0	<10.0			<77.7	8.81	0.00	17.89
	03/01/11	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	--	<1.0	<10.0	--			<77.7	8.77	0.00	17.93
	06/15/11	<50.0	<86.0	<430	<1.0	<1.0	<1.0	<3.0	--	--	0.27	<0.10			--	7.73	0.00	18.97
	08/30/11	<50.0	<87.0	<435	<1.0	<1.0	<1.0	<3.0	--	<1.0	<0.10	<0.10			<87.0	8.67	0.00	18.03
	12/06/11	<50.0	<86.2	<412	<1.0	<1.0	<1.0	<3.0	--	<1.0	<0.10	0.22			<82.5	8.95	0.00	17.75
	02/15/12	<50.0	<82.5	<412	<1.0	<1.0	<1.0	<3.0	--	2.1	<10.0	<10.0			<82.5	9.20	0.00	17.50
	05/16/12	<50.0	<83.3	<417	<1.0	<1.0	<1.0	<3.0	--	<1.0	<10.0	<10.0			<83.3	7.64	0.00	19.06
	08/15/12	<50.0	<85.1	<426	<1.0	<1.0	<1.0	<3.0	--	<1.0	<10.0	<10.0			<85.1	8.43	0.00	18.27
	11/21/12	<100	<100	<100	<1.0	<1.0	<1.0	<3.0	--	<4.0	<3.0	<3.0			<100	6.42	0.00	20.28
	11/06/13	<400	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0			<400	9.42	0.00	17.28
	07/29/14	<100	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0	<0.010	<1.0	--	10.72	0.00	15.98
26.56	12/09/14	<100	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0	<0.0099	<1.0	--	9.39	0.00	17.17
	03/23/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	8.54	0.00	18.02
	06/23/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	8.76	0.00	17.80
	09/11/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	9.45	0.00	17.11
	12/07/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	8.50	0.00	18.06
	06/28/16	Not Gauged or Sampled.																
MW-211	11/05/08	<50.0	<240	<481	<0.500	<0.500	<0.500	<3.00	<1.00	<5.00	<1.00	<1.00			<240	7.23	0.00	19.32
26.55	02/25/09	<50.0	<240	<481	<0.500	<0.500	<0.500	<3.00	--	<5.00	<1.00	<1.00			<240	8.19	0.00	18.39
	05/17/09	<50.0	<236	<472	<0.500	<0.500	<0.500	<3.00	<1.00	<5.00	4.72	<1.00			<236	9.10	0.00	17.45
	08/17/09	<50	<240	<490	<0.50	<0.50	<0.50	<2.0	<1.0	<5.0	<5.0	<5.0			<240	9.74	0.00	16.81
	11/17/09	<50	<240	<480	<0.50	<0.50	<0.50	<2.0	<1.0	<5.0	<1	<1			<240	8.24	0.00	18.31
	02/22/10	<50.0	146	<385	<1.0	<1.0	<1.0	<3.0	--	<1.0	0.42	<0.10			<76.9	7.91	0.00	18.64
	05/24/10	<50.0	115	<388	<1.0	<1.0	<1.0	<3.0	--	<1.0	.46	.29			85.1	7.56	0.00	18.99
	08/18/10	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	--	<1.0	.34	.13			<77.7	8.42	0.00	18.13
	11/15/10	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	--	<1.0	<10.0	<10.0			<77.7	8.37	0.00	18.18
	03/01/11	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	--	<1.0	<10.0	--			<77.7	8.54	0.00	18.01
	06/15/11	<50.0	<84.2	<421	<1.0	<1.0	<1.0	<3.0	--	--	0.12	<0.10			--	5.61	0.00	20.94
	08/30/11	<50.0	<84.2	<421	<1.0	<1.0	<1.0	<3.0	--	<1.0	<0.10	<0.10			<84.2	8.48	0.00	18.07
	12/06/11	<50.0	<83.3	<417	<1.0	<1.0	<1.0	<3.0	--	<10.0	<0.10	0.15			<83.3	8.83	0.00	17.72
	02/15/12	<50.0	<75.5	<377	<1.0	<1.0	<1.0	<3.0	--	2.1	<10.0	<10.0			<75.5	9.10	0.00	17.45
	05/16/12	<50.0	<83.3	<417	<1.0	<1.0	<1.0	<3.0	--	4.0	<10.0	<10.0			<83.3	7.65	0.00	18.90
	08/15/12	<50.0	<88.9	<444	<1.0	<1.0	<1.0	<3.0	--	<1.0	<10.0	<10.0			<88.9	8.42	0.00	18.13
	11/21/12	<100	<100	<100	<1.0	<1.0	<1.0	<3.0	--	<4.0	<3.0	<3.0			<100	6.70	0.00	19.85
	11/06/13	<400	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0			<400	9.45	0.00	17.10
	07/29/14	<100	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0	<0.0097	<1.0	--	12.24	0.00	14.31
26.48	12/09/14	<100	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--	**28.9**	<10.0	<0.0098	<1.0	--	9.67	0.00	16.81
	03/23/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	8.77	0.00	17.71
	06/22/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	8.91	0.00	17.57
	09/11/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	9.51	0.00	16.97
	12/07/15	Well Was Submerged Under Surface Water																
	06/28/16	Unable to access well, not gauged or sampled.																

Table 1
Summary of Historical Groundwater Gauging and Laboratory Analytical Data
Phillips 66 Site No. 255353 (AOC 1396)
600 Westlake Avenue North
Seattle, Washington

Sample I.D. TOC [a]	Sample Date	TPH-Gasoline (µg/L)	TPH-Diesel (µg/L)	TPH-Oil (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphtha-lene (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	EDB (µg/L)	EDC (µg/L)	Kerosone (µg/L)	DTW (feet)	SPH (feet)	GWE (feet)
MW-212	09/30/14	<100	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0	<0.021	<1.0	--	14.23	0.00	--
29.09	12/09/14	<100	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0	<0.0097	<1.0	--	12.83	0.00	16.26
	03/23/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	11.53	0.00	17.56
	06/22/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	12.15	0.00	16.94
	09/11/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	11.87	0.00	17.22
	12/07/15	Well Was Inaccessible Due to Parked Vehicle Over Monument																
	06/28/16	Not Gauged or Sampled																
MW-213	10/06/14	105	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--	11.0	<10.0	<0.020	<1.0	--	11.63	0.00	--
27.35	12/08/14	<100	--	--	4.9	<1.0	<1.0	<3.0	<1.0	--	12.8	<10.0	<0.0098	<1.0	--	10.40	0.00	16.95
	03/23/15	364	--	--	**70.6**	<1.0	18.7	18.5	--	--	--	--	--	--	--	9.39	0.00	17.96
	6/23/2015[aa]	453	--	--	**43.1**	1.3	16.8	27.8	--	--	--	--	--	--	--	9.24	0.00	18.11
	6/23/2015[bb]	150	--	--	**9.4**	<1.0	6.1	3.1	--	--	--	--	--	--	--	9.24	0.00	18.11
	9/11/2015[cc]	638	--	--	2.2	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	9.98	0.00	17.37
	9/11/2015[dd]	<100	--	--	3.4	<1.0	1.4	<3.0	--	--	--	--	--	--	--	9.98	0.00	17.37
	12/07/15	<100	--	--	1.2	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	6.67	0.00	20.68
	06/28/16	<250	--	--	2.3	<0.50	5.5	3.2	--	--	--	--	--	--	--	9.41	0.00	17.94
MW-214	10/06/14	<100	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0	<0.021	<1.0	--	12.14	0.00	--
27.33	12/08/14	<100	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0	<0.010	<1.0	--	10.84	0.00	16.49
	03/23/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	9.45	0.00	17.88
	06/23/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	9.92	0.00	17.41
	09/11/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	10.00	0.00	17.33
	12/07/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	6.86	0.00	20.47
	06/28/16	Not Gauged or Sampled																
MW-215	10/06/14	<100	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0	<0.020	<1.0	--	12.25	0.00	--
27.21	12/08/14	<100	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0	<0.0099	<1.0	--	11.14	0.00	16.07
	03/23/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	9.82	0.00	17.39
	06/23/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	9.98	0.00	17.23
	09/11/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	10.26	0.00	16.95
	12/07/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	6.24	0.00	20.97
	06/28/16	Not Gauged or Sampled																
MW-216	10/03/14	<100	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0	<0.020	<1.0	--	21.94	0.00	--
29.68	12/09/14	<100	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0	<0.0096	<1.0	--	13.97	0.00	15.71
	03/23/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	12.43	0.00	17.25
	06/22/15	<100	--	--	2.3	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	12.85	0.00	16.83
	09/12/15	<100	--	--	1.4	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	12.68	0.00	17.00
	12/07/15	<100	--	--	**10.3**	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	11.57	0.00	18.11
	06/28/16	<250	--	--	<0.50	<0.50	<0.50	<1.5	--	--	--	--	--	--	--	13.01	0.00	16.67
MW-217	10/03/14	<100	--	--	1.8	9.1	1.0	5.3	<1.0	--	<10.0	<10.0	<0.020	<1.0	--	23.64	0.00	--
30.08	12/09/14	<100	--	--	**6.1**	<1.0	<1.0	<3.0	<1.0	--	14.7	<10.0	<0.0096	<1.0	--	13.42	0.00	16.66
	03/23/15	<100	--	--	4.5	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	12.87	0.00	17.21
	06/22/15	105	--	--	4.8	<1.0	1	<3.0	--	--	--	--	--	--	--	13.13	0.00	16.95
	9/12/2015[ee]	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	12.42	0.00	17.66
	9/12/2015[ff]	197	--	--	4.4	<1.0	2.3	<3.0	--	--	--	--	--	--	--	12.42	0.00	17.66
	12/07/15	182	--	--	1.6	<1.0	3.0	<3.0	--	--	--	--	--	--	--	11.37	0.00	18.71
	06/28/16	<250	--	--	<0.50	<0.50	<0.50	<1.5	--	--	--	--	--	--	--	12.95	0.00	17.13
MW-218	10/03/14	492	--	--	<1.0	3.0	<1.0	8.4	<1.0	--	<10.0	<10.0	<0.021	<1.0	--	20.62	0.00	--
29.64	12/09/14	616	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0	<0.010	<1.0	--	13.05	0.00	16.59
	03/23/15	353	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	11.71	0.00	17.93
	06/22/15	560	--	--	<1.0	<1.0	<1.0	5.6	--	--	--	--	--	--	--	12.29	0.00	17.35
	9/12/2015[gg]	614	--	--	<1.0	<1.0	1.1	11.2	--	--	--	--	--	--	--	11.94	0.00	17.70
	9/13/2015[hh]	258	--	--	<1.0	<1.0	1.2	11.4	--	--	--	--	--	--	--	11.94	0.00	17.70
	12/07/15	180	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	10.96	0.00	18.68
	06/28/16	Not Gauged or Sampled																
MW-219	10/06/14	147	--	--	<1.0	1.2	2.0	4.4	<1.0	--	<10.0	<10.0	<0.020	<1.0	--	14.18	0.00	--
27.41	12/09/14	197	--	--	1.0	<1.0	2.4	5.8	<1.0	--	<10.0	<10.0	<0.0098	<1.0	--	10.98	0.00	16.43
	03/23/15	<100	--	--	1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	9.91	0.00	17.50
	06/22/15	<100	--	--	1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	9.75	0.00	17.66
	09/10/15	<100	--	--	<1.0	<1.0	1.1	<3.0	--	--	--	--	--	--	--	10.52	0.00	16.89
	12/07/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	9.78	0.00	17.63
	06/28/16	Not Gauged or Sampled																

Table 1
Summary of Historical Groundwater Gauging and Laboratory Analytical Data
Phillips 66 Site No. 255353 (AOC 1396)
600 Westlake Avenue North
Seattle, Washington

Sample I.D. TOC [a]	Sample Date	TPH-Gasoline (µg/L)	TPH-Diesel (µg/L)	TPH-Oil (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphtha-lene (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	EDB (µg/L)	EDC (µg/L)	Kerosone (µg/L)	DTW (feet)	SPH (feet)	GWE (feet)
SMW-3	03/08/95	<50	400	**2,500**	<0.5	<0.5	<0.5	<1	--	--	--	--			--	10.25	0.00	--
29.03	06/06/95	<50	<250	**<750**	<0.5	<0.5	<0.5	<1	--	--	--	--			--	10.23	0.00	--
	09/07/95	<50	300	**<750**	<0.5	<0.5	<0.5	<1	--	--	--	--			--	10.89	0.00	--
	12/08/95	<50	300	**<750**	<0.5	<0.5	<0.5	<1	--	--	--	--			--	10.36	0.00	--
	04/01/96	**34,000**	**4,000**	**2,300**	**6,400**	42	**2,100**	**3,000**	--	--	--	--			--	10.07	0.00	--
	06/25/96	<50	320	**<750**	<0.5	<0.5	<0.5	<1	--	--	--	--			--	10.19	0.00	--
	09/27/96	<50	<250	**<750**	<0.5	<0.5	<0.5	<1	--	--	--	--			--	11.12	0.00	--
	03/28/97	<50	<250	**<750**	<0.5	<0.5	<0.5	<1	--	--	--	--			--	10.19	0.00	--
	06/30/97[b]	<50	<250	**<750**	<0.5	<0.5	<0.5	<1	--	--	--	--			--	10.14	0.00	--
	09/08/97[b]	<50	<250	**<750**	<0.5	<0.5	<0.5	<1	--	--	--	--			--	10.85	0.00	--
	12/19/97[b]	<50	521	**<750**	<0.5	<0.5	<0.5	<1	--	--	--	--			--	9.67	0.00	--
	03/16/98[b]	50.1	<250	**<750**	<0.5	<0.5	<0.5	<1	--	--	--	--			--	9.28	0.00	--
	06/26/98[b]	<50	500	**<750**	<0.5	<0.5	<0.5	<1	--	--	--	--			--	8.87	0.00	--
	09/23/98[b]	<50	<250	**<750**	<0.5	<0.5	<0.5	<1	--	--	--	--			--	9.88	0.00	--
	12/17/98[b]	<50	293	**<750**	<0.5	<0.5	<0.5	<1	--	--	--	--			--	9.22	0.00	--
	03/31/99[b]	<50	360	**<750**	<0.5	<0.5	0.53	4.97	--	--	--	--			--	9.01	0.00	--
	06/30/99[b]	<50	639	**<750**	<0.5	0.609	<0.5	1.32	--	--	--	--			--	9.55	0.00	--
	12/08/99[b]	<50	<484	**<1,450**	<0.5	<0.5	<0.5	<1	--	--	--	--			--	8.75	0.00	--
	06/20/00[b]	<50	<250	**<750**	<0.5	0.585	<0.5	1.86	--	--	--	--			--	8.89	0.00	--
	12/19/00	--	--	**--**	--	--	--	--	--	--	--	--			--	NM	NM	--
	06/15/01[b]	<50	368	**<866**	<0.5	<0.5	<0.5	<1	--	--	--	--			--	7.23	0.00	--
	06/26/01	--	--	**--**	--	--	--	--	--	--	--	--			--	NM	NM	--
	09/07/01[b]	<50	385	**<571**	<0.5	<0.5	<0.5	<1	--	--	--	--			--	9.19	0.00	--
	10/10/01	--	--	**--**	--	--	--	--	--	--	--	--			--	NM	NM	--
	12/28/01	<50	**1,160**	<500	<0.5	0.902	<0.5	2.78	--	--	--	--			--	8.89	0.00	--
	03/08/02	--	--	**--**	--	--	--	--	--	--	--	--			--	NM	NM	--
	06/24/02	--	--	**--**	--	--	--	--	--	--	--	--			--	NM	NM	--
	09/26/02	<100	<250	<500	1.83	<2	<1.00	<1.5	--	--	--	--			--	10.32	0.00	--
	12/12/02	--	--	**--**	--	--	--	--	--	--	--	--			--	NM	NM	--
	03/13/03	<50	<250	<500	<0.5	<0.5	<0.5	<1	--	--	--	--			--	10.99	0.00	--
	06/12/03	--	--	**--**	--	--	--	--	--	--	--	--			--	NM	NM	--
	09/19/03	<50	<287	**<575**	<0.5	<0.5	<0.5	<1	--	--	--	--			--	11.00	0.00	--
	01/14/04	--	--	**--**	--	--	--	--	--	--	--	--			--	NM	NM	--
	03/30/04	<100	<119	<238	<1	<1	<1	<2	--	--	--	--			--	10.42	0.00	--
	06/22/04	--	--	--	--	--	--	--	--	--	--	--			--	NM	NM	--
	09/29/04	56	<242	<483	<0.5	<0.5	<0.5	<1.0	--	--	--	--			--	11.67	0.00	--
	12/29/04	--	--	--	--	--	--	--	--	--	--	--			--	NM	NM	--
	03/17/05	<100	<248	<495	<1	<1	<1	<2	--	--	--	--			--	11.68	0.00	--
	06/01/05	<100	<249	<498	<1	<1	<1	<2	<1	--	--	--			--	10.62	0.00	--
	07/25/05	<50	<250	<500	<0.2	<0.2	<0.2	<0.5	<1	<0.5	--	--			--	11.19	0.00	--
29.03	11/08/05	<50	<236	<472	<0.5	<0.5	<0.5	<3	<1	--	--	--			--	11.77	0.00	17.26
	02/24/06	<50	<278	**<556**	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	--			--	11.84	0.00	17.19
	08/30/06	<80	<243	<485	<0.5	<0.5	<0.5	<3	<1	<5	<1	--			--			
	10/11/06	<50	<243	<485	<0.5	<0.5	<0.5	<3	<1	<1	<1	--			--	10.70	0.00	18.33
	12/13/06	<50	<236	<472	<0.5	<0.5	<0.5	<3	<1	<5	<1	--			--	12.14	0.00	16.89
	03/08/07	<50	<250	<500	<0.5	<0.5	<0.5	<3	<1	<5	<1	--			--	11.68	0.00	17.35
	06/13/07	Not Accessible														--	--	--
	09/12/07	Not Accessible														--	--	--
	12/17/07	Not Accessible														--	--	--
	03/17/08	Unable to locate														--	--	--

Table 1
Summary of Historical Groundwater Gauging and Laboratory Analytical Data
Phillips 66 Site No. 255353 (AOC 1396)
600 Westlake Avenue North
Seattle, Washington

Sample I.D. TOC [a]	Sample Date	TPH-Gasoline (µg/L)	TPH-Diesel (µg/L)	TPH-Oil (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphtha-lene (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	EDB (µg/L)	EDC (µg/L)	Kerosone (µg/L)	DTW (feet)	SPH (feet)	GWE (feet)
SMW-3	06/02/08	<50	<236	<472	<0.5	<0.5	<0.5	<3	<1	<5	<1	<1			<236	9.05	0.00	19.98
contd.	08/05/08	<50	<236	<472	<0.5	<0.5	<0.5	<3	<1	<5	4.54	<1			<236	7.64	0.00	21.39
27.40	11/04/08	<50.0	<238	<476	<0.500	<0.500	<0.500	<3.00		<5.00	5.88	<1.00			<238	9.70	0.00	17.70
	02/25/09	<50.0	<240	<481	<0.500	<0.500	<0.500	<3.00	--	<5.00	<1.00	<1.00			<240	9.90	0.00	17.50
	05/17/09	Not Accessible																
	08/17/09	<50	<250	<490	<0.50	<0.50	<0.50	<2.0	<1.0	<5.0	<5.0	<5.0			<250	10.10	0.00	17.30
	11/17/09	<50	<240	<490	<0.50	<0.50	<0.50	<2.0	<1.0	<5.0	1.2	<1			<240	9.53	0.00	17.87
	02/22/10	<50.0	107	**605**	<1.0	<1.0	<1.0	<3.0	--	<1.0	0.26	<0.10			<76.2	9.90	0.00	17.50
	05/24/10	<50.0	255	**510**	<1.0	<1.0	<1.0	<3.0	--	<1.0	.42	<0.10			100	8.50	0.00	18.90
	08/18/10	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	--	<1.0	.39	<0.10			<77.7	9.29	0.00	18.11
	11/16/10	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	--	<1.0	<10.0	<10.0			<77.7	10.11	0.00	17.29
	03/01/11	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	--	<1.0	<10.0	--			<77.7	9.85	0.00	17.55
	06/15/11	<50.0	<83.3	<417	<1.0	<1.0	<1.0	<3.0	--	--	0.21	<0.10			--	8.55	0.00	18.85
	08/30/11	<50.0	<86.0	<430	<1.0	<1.0	<1.0	<3.0	--	<1.0	0.13	0.14			<86.0	9.63	0.00	17.77
	12/06/11	<50.0	<82.5	<412	<1.0	<1.0	<1.0	<3.0	--	<10.0	0.13	0.38			<82.5	10.13	0.00	17.27
	02/15/12	<50.0	<82.5	<412	<1.0	<1.0	<1.0	<3.0	--	2.1	<10.0	<10.0			<82.5	10.22	0.00	17.18
	05/16/12	<50.0	<83.3	<417	<1.0	<1.0	<1.0	<3.0	--	2.9	<10.0	<10.0			<83.3	8.64	0.00	18.76
	08/15/12	<50.0	<85.1	<426	<1.0	<1.0	<1.0	<3.0	--	<1.0	<10.0	<10.0			<85.1	9.30	0.00	18.10
	11/21/12	<100	<100	<100	<1.0	<1.0	<1.0	<3.0	--	<4.0	<3.0	<3.0			<100	9.16	0.00	18.24
	11/06/13	<400	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0			<400	10.10	0.00	17.30
	07/29/14	<100	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0	<0.0099	<1.0	--	10.85	0.00	16.55
27.32	12/09/14	<100	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--	**119**	<10.0	<0.0098	<1.0	--	9.94	0.00	17.38
	03/23/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	9.39	0.00	17.93
	06/23/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	9.39	0.00	17.93
	09/11/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	10.25	0.00	17.07
	12/07/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	8.78	0.00	18.54
	06/28/16	Not Sampled														9.09	0.00	18.23
MWR-1	11/17/10	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	--	<1.0	<10.0	<10.0			<77.7	9.75	0.00	20.16
29.91	03/03/11	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	--	<1.0	<10.0	--			<77.7	10.23	0.00	19.68
	06/15/11	<50.0	<83.3	<417	<1.0	<1.0	<1.0	<3.0	--	--	1.5	<0.10			--	10.28	0.00	19.63
	08/30/11	<50.0	<86.0	<430	<1.0	<1.0	<1.0	<3.0	--	<1.0	0.51	<0.10			--	10.97	0.00	18.94
	12/06/11	<50.0	<83.3	<417	<1.0	<1.0	<1.0	<3.0	--	<10.0	0.68	0.62			<83.3	10.80	0.00	19.11
	02/16/12	<50.0	<81.6	<408	<1.0	<1.0	<1.0	<3.0	--	<1.0	<10.0	<10.0			<81.6	10.51	0.00	19.40
	05/15/12	<50.0	<81.6	<408	<1.0	<1.0	<1.0	<3.0	--	3.8	<10.0	<10.0			<81.6	10.20	0.00	19.71
	08/15/12	<50.0	<85.1	<426	<1.0	<1.0	<1.0	<3.0	--	<1.0	<10.0	<10.0			<85.1	10.65	0.00	19.26
	11/20/12	<100	<100	<100	<1.0	<1.0	<1.0	<3.0	--	<4.0	<3.0	<3.0			<100	8.82	0.00	21.09
	11/06/13	<400	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0			<400	12.04	0.00	17.87
	07/29/14	Well was dry																
29.86	12/08/14	<100	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0	<0.0099	<1.0	--	12.51	0.00	17.35
	03/23/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	11.13	0.00	18.73
	06/22/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	12.43	0.00	17.43
	09/11/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	12.01	0.00	17.85
	12/07/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	10.58	0.00	19.28
	06/28/16	Not Sampled														12.21	0.00	17.65
MWR-2	11/17/10	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	--	<1.0	11.7	<10.0			<77.7	8.08	0.00	20.17
28.25	03/01/11	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	--	<1.0	16.0	--			<77.7	8.61	0.00	19.64
	06/14/11	<50.0	<83.3	<417	<1.0	<1.0	<1.0	<3.0	--	--	3.1	<0.10			--	8.67	0.00	19.58
	08/29/11	<50.0	<83.3	<417	<1.0	<1.0	<1.0	<3.0	--	<1.0	0.35	0			<87.0	9.32	0.00	18.93
	12/06/11	<50.0	<86.0	<430	<1.0	<1.0	<1.0	<3.0	--	<10.0	1.3	<0.10			<86.0	9.09	0.00	19.16
	02/16/12	<50.0	<81.6	<408	<1.0	<1.0	<1.0	<3.0	--	2.0	<10.0	<10.0			<81.6	8.97	0.00	19.28
	05/15/12	<50.0	<75.8	<379	<1.0	<1.0	<1.0	<3.0	--	3.8	<10.0	<10.0			<75.8	8.62	0.00	19.63
	08/15/12	<50.0	<84.2	<421	<1.0	<1.0	<1.0	<3.0	--	<1.0	<10.0	<10.0			<84.2	9.05	0.00	19.20
	11/20/12	<100	<100	<100	<1.0	<1.0	<1.0	<3.0	--	<4.0	<3.0	<3.0			<100	7.32	0.00	20.93
	11/06/13	<400	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0			<400	10.33	0.00	17.92
	07/29/14	Well contained 0.65 foot of water in well cap; well was not sampled.																
28.16	12/08/14	<100	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0	<0.0099	<1.0	--	12.51	0.00	15.65
	03/23/15	Could Not Locate Well																
	06/22/15	Could Not Locate Well																
	09/10/15	Could Not Locate Well																
	12/07/15	Could Not Locate Well																
	06/28/16	Not Gauged or Sampled																

Table 1
Summary of Historical Groundwater Gauging and Laboratory Analytical Data
Phillips 66 Site No. 255353 (AOC 1396)
600 Westlake Avenue North
Seattle, Washington

Sample I.D. TOC [a]	Sample Date	TPH-Gasoline (µg/L)	TPH-Diesel (µg/L)	TPH-Oil (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphtha-lene (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	EDB (µg/L)	EDC (µg/L)	Kerosone (µg/L)	DTW (feet)	SPH (feet)	GWE (feet)
MWR-3	11/17/10	<50.0	83.6	<385	<1.0	1.4	<1.0	<3.0	--	<1.0	<10.0	<10.0			**1,140**	9.82	0.00	19.94
29.76	03/01/11	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	--	<1.0	<10.0	--			<77.7	10.17	0.00	19.59
	06/15/11	<50.0	<82.5	<412	<1.0	<1.0	<1.0	<3.0	--	--	0.74	<0.10			--	10.18	0.00	19.58
	08/30/11	<50.0	<88.9	<444	<1.0	<1.0	<1.0	<3.0	--	<1.0	0.38	<0.10			<88.9	10.87	0.00	18.89
	12/06/11	<50.0	<86.0	<430	<1.0	<1.0	<1.0	<3.0	--	<10.0	<0.10	<0.10			<86.0	10.63	0.00	19.13
	02/16/12	<50.0	<81.6	<408	<1.0	<1.0	<1.0	<3.0	--	2.0	<10.0	<10.0			<81.6	10.51	0.00	19.25
	05/15/12	<50.0	<81.6	<408	<1.0	<1.0	<1.0	<3.0	--	<1.0	<10.0	<10.0			<81.6	10.22	0.00	19.54
	08/15/12	<50.0	<87.0	<435	<1.0	<1.0	<1.0	<3.0	--	<1.0	<10.0	<10.0			<87.0	10.56	0.00	19.20
	11/20/12	<100	<100	<100	<1.0	<1.0	<1.0	<3.0	--	<4.0	<3.0	<3.0			<100	9.86	0.00	19.90
	11/06/13	<400	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0			<400	11.52	0.00	18.24
	07/29/14	Well was dry																
29.67	12/08/14	<100	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0	<0.0098	<1.0	--	12.52	0.00	17.15
	03/23/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	10.98	0.00	18.69
	06/22/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	12.37	0.00	17.30
	09/11/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	11.99	0.00	17.68
	12/07/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	10.34	0.00	19.33
	06/28/16	Not Gauged or Sampled																
MWR-4	11/17/10	141	<76.9	<385	<1.0	<1.0	<1.0	<3.0	--	<1.0	<10.0	<10.0			140	8.98	0.00	19.90
28.88	03/01/11	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	--	<1.0	<10.0	--			132	9.44	0.00	19.44
	06/14/11	<50.0	<85.1	<426	<1.0	<1.0	<1.0	<3.0	--	--	0.63	<0.10			--	9.32	0.00	19.56
	08/29/11	<50.0	<82.5	<412	<1.0	<1.0	<1.0	<3.0	--	<1.0	0.18	0			<82.5	10.02	0.00	18.86
	12/06/11	<50.0	<83.3	<417	<1.0	<1.0	<1.0	<3.0	--	<10.0	<0.10	0.29			<83.3	9.78	0.00	19.10
	02/16/12	<50.0	<82.5	<412	<1.0	<1.0	<1.0	<3.0	--	2.0	<10.0	<10.0			<82.5	10.72	0.00	18.16
	05/15/12	<50.0	<81.6	<408	<1.0	<1.0	<1.0	<3.0	--	3.8	<10.0	<10.0			<81.6	9.32	0.00	19.56
	08/15/12	<50.0	<82.5	<412	<1.0	<1.0	<1.0	<3.0	--	<1.0	<10.0	<10.0			<82.5	9.82	0.00	19.06
	11/20/12	<100	<100	<100	<1.0	<1.0	<1.0	<3.0	--	<4.0	<3.0	<3.0			<100	9.31	0.00	19.57
	11/06/13	<400	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0			<400	11.02	0.00	17.86
	07/29/14	Well was dry																
28.80	12/08/14	<100	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0	<0.0098	<1.0	--	12.06	0.00	16.74
	03/23/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	10.53	0.00	18.27
	06/22/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	11.55	0.00	17.25
	09/11/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	11.30	0.00	17.50
	12/07/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	10.07	0.00	18.73
	06/28/16	Not Gauged or Sampled																
MWR-5	11/17/10	**15,900**	423	<388	**199**	371	592	**3,710**	--	157	<10.0	<10.0			**5,080**	7.91	0.00	19.36
27.27	02/28/11	**21,800**	368	<388	**195**	444	642	**3,430**	--	143	<10.0	--			**4,650**	8.60	0.00	18.67
	06/14/11	**22,700**	323	<400	**192**	383	**719**	**4,340**	--	--	4.1	0			**--**	7.82	0.00	19.45
	08/29/11	**35,400**	478	<408	**244**	271	**861**	**4,500**	--	**338**	0.95	0.62			**7,060**	8.50	0.00	18.77
	12/05/11	**30,500**	235	<412	**211**	450	**1,140**	**5,960**	--	**193**	1.3	0.52			**9,580**	7.75	0.00	19.52
	02/16/12	**9,490**	160	<396	**68.7**	9.1	218	**1,090**	--	88.2	<10.0	<10.0			**2,330**	8.93	0.00	18.34
	05/15/12	**27,900**	298	<404	**181**	160	**813**	**4,830**	--	**226**	<10.0	<10.0			**4,650**	8.01	0.00	19.26
	08/14/12	**7,720**	329	<440	**60.5**	3.80	244	**1,280**	--	81.3	<10.0	<10.0			**2,560**	8.62	0.00	18.65
	11/20/12	**35,500**	**15,500**	<100	**306**	471	**1,520**	**10,700**	--	**342**	5.8	<3.0			**20,500**	5.11	0.00	22.16
	11/06/13	**3,820**	<400	<400	**23.0**	<1.0	150	286	<1.0	--	<10.0	<10.0			**1,100**	9.45	0.00	17.82
	07/29/14	Well was dry																
27.12	12/08/14	**20,400**	--	--	<1.0	2.1	430	**1,400**	<1.0	--	<10.0	<10.0	<0.010	<1.0	--	10.54	0.00	16.58
	03/23/15	**11,900**	--	--	**31.0**	1.4	459	**1,030**	<1.0	--	<10.0	<10.0	<0.010	<1.0	--	8.98	0.00	18.14
	06/22/15	**14,700**	--	--	**22.9**	<10.0	455	843	--	--	--	--	--	--	--	9.98	0.00	17.14
	09/10/15	**10,700**	--	--	**35.0**	1.1	223	644	--	--	--	--	--	--	--	9.51	0.00	17.61
	12/07/15	Well Submerged Under Surface Water																
	06/28/16	**10,800**	--	--	**14.9**	<1.2	232	519	--	--	--	--	--	--	--	9.54	0.00	17.58
MWR-6	11/16/10	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	--	<1.0	<10.0	<10.0			<77.7	10.10	0.00	19.15
29.25	02/28/11	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	--	<1.0	<10.0	--			<77.7	10.89	0.00	18.36
	06/14/11	<50.0	<80.8	<404	<1.0	<1.0	<1.0	<3.0	--	--	1.3	<0.10			--	10.11	0.00	19.14
	08/29/11	<50.0	<87.0	<435	<1.0	<1.0	<1.0	<3.0	--	<1.0	0.3	<0.10			--	10.75	0.00	18.50
	12/05/11	<50.0	<82.5	<412	<1.0	<1.0	<1.0	<3.0	--	<10.0	0.54	0.11			<82.5	9.48	0.00	19.77
	02/16/12	<50.0	<75.5	<377	<1.0	<1.0	<1.0	<3.0	--	2.8	<10.0	<10.0			<75.5	11.90	0.00	17.35
	05/15/12	<50.0	<81.6	<408	<1.0	<1.0	<1.0	<3.0	--	3.8	<10.0	<10.0			<81.6	10.26	0.00	18.99
	08/14/12	<50.0	<85.1	<426	<1.0	<1.0	<1.0	<3.0	--	<1.0	<10.0	<10.0			<85.1	10.45	0.00	18.80
	11/20/12	<100	<100	<100	<1.0	<1.0	<1.0	<3.0	--	<4.0	<3.0	<3.0			<100	9.59	0.00	19.66
	11/06/13	<400	<400	<400	<1.0	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0			<400	11.77	0.00	17.48
	07/29/14	Well was dry																
29.12	12/08/14	<100	--	--	**5.1**	<1.0	<1.0	<3.0	<1.0	--	<10.0	<10.0	<0.0098	<1.0	--	12.51	0.00	16.61
	03/23/15	<100	--	--	1.7	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	11.66	0.00	17.46
	06/22/15	<100	--	--	1.6	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	12.38	0.00	16.74
	09/11/15	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	11.98	0.00	17.14
	12/07/15	<100	--	--	1.9	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	10.89	0.00	18.23
	06/28/16	<250	--	--	<0.50	<0.50	<0.50	<1.5	--	--	--	--	--	--	--	11.75	0.00	17.37
MTCA Method A Cleanup Level for Groundwater		**1000/800[k]**	**500**	**500**	**5**	**1,000**	**700**	**1,000**	**20**	**160**	**15**	**15**			**500**	**--**	**--**	**--**

Table 1
Summary of Historical Groundwater Gauging and Laboratory Analytical Data

Phillips 66 Site No. 255353 (AOC 1396)
600 Westlake Avenue N.
Seattle, Washington

NOTES:

µg/L = micrograms per liter
mg/L = milligrams per liter
TOC = Relative top of casing elevation
DTW = Depth to water
SPH = Separate-phase hydrocarbon thickness
GWE = Groundwater table elevation relative to DTW data; corrected for SPH where applicable using a specific gravity of 0.80
<n = Below the detection limit
"--" = Not analyzed, sampled, or reported
NM = Not Measured
TPH as Gasoline - Analysis by Northwest Method NWTPH-Gx
TPH as Diesel and Oil - Analysis by Northwest Method NWTPH-Dx
BTEX Compounds - Analysis by EPA Method 8020A, 8021B or 8260B
Total Lead Analysis via EPA Method 6020.
Values in **BOLD** are detectable concentrations exceeding the MTCA Method A groundwater cleanup level.

[a] Top of casing elevations shown prior to November 2005 based on information provided by a previous consultant. All TOC elevations were re-surveyed between November 1 and November 15, 2005 relative to N.A.V.D. 1988 using a City of Seattle benchmark by Delta Environmental Consultants. All wells were again surveyed on December 8, 2015 by Cardno WRG.

[b] Well was not purged prior to sample collection.

[c] TPH-Diesel and TPH-Oil did not resemble chromatogram used for quantitation.

[d] Well casing was trimmed down during monument replacement in December 2004. New TOC elevation surveyed on January 27, 2005.

[e] Quality control failed due to laboratory error. Quantitative analytical results not reported.

[f] Contaminant does not appear to be "typical" product.

[g] Chromatogram suggests that this may be overlap from the gasoline range.

[h] Chromatogram suggests that this may be overlap from the motor oil range.

[H] Anlaysis was performed outside of the method specified holding time

[j] Surrogate recovery outside advisory QC limits due to matrix interference.

[k] MTCA Method A Cleanup Level for TPH-Gasoline is 1,000 ug/L if benzene is not detectable in the groundwater sample. Otherwise, the action level is 800 ug/L.

[l] Samples analyzed using Northwest Method NWTPH-Dx without acid/silica gel cleanup.

[m] Surogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present.

[n] Detected hydrocarbons due mainly to cleanup artifact. There is no diesel present.

[o] DO meter was unavailable.

[p] The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

[q] Analyte had a high bias in the associated calibration verification standard.

[r] Laboratory Control Sample and/or Sample Duplicate recovery was above the laboratory control limits. Analyte not detected, data not impacted.

[s] Dilluted due to matrix effect.

[t] The total hydrocarbon result in this sample is primarily due to an individual compound eluting in the volatile hydrocarbon range.

[u] Due to laboratory error, the samples were not analyzed for EPA 8260B compounds.

[v] Possible field error.

[w] DTW not recorded prior to sampling. Approximate value based on last quarter's initial DTW and when sampling began

[x] The benzene and ethyl benzene concentrations were outside the calibration range of the instrument. A new concentration was measured during a second run, but this run was outside of the holding time for the sample. The laboratory still considers this value to be more accurate than the original estimated value listed in the lab report.

[Y] The Chromatogram response resembles a typical fuel pattern

[z] Well casings for MW-45 and MW-54 were compromised and repaired during installation of remediation conveyance piping. Wells were re-surveyed in July 2014. 2014.

[aa] Sample collected prior to High Intensity Targeted Extraction Event on June 23, 2015.

[bb] Sample collected immediately after High Intensity Targeted Extraction Event on June 23, 2015.

[cc] Sample collected prior to High Intensity Targeted Extraction Event on September 11, 2015.

[dd] Sample collected immediately after High Intensity Targeted Extraction Event on September 11, 2015.

[ee] Sample collected prior to High Intensity Targeted Extraction Event on September 12, 2015.

[ff] Sample collected immediately after High Intensity Targeted Extraction Event on September 12 , 2015.

[gg] Sample collected prior to High Intensity Targeted Extraction Event on September 13, 2015.

[hh] Sample collected immediately after High Intensity Targeted Extraction Event on September 13 , 2015.

"--[u]" = Due to laboratory error, the samples were not analyzed for EPA 8260B compounds.

FIGURES

GROUNDWATER CONDITIONS MAP (06/28/16)

PHILLIPS 66 FACILITY NO. 255353 (AOC 1396)

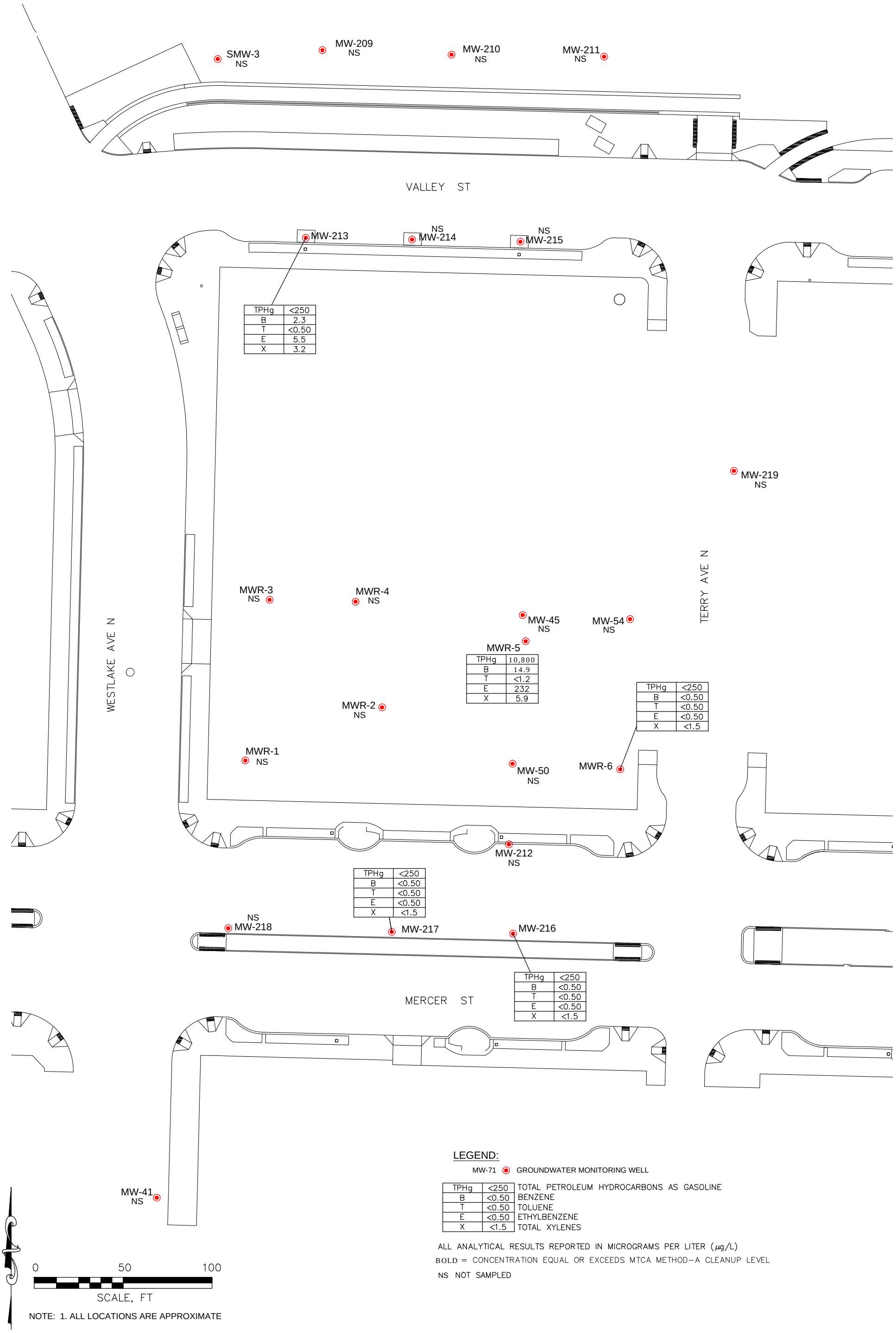
600 WESTLAKE AVENUE N

SEATTLE, WA

PROJECT NUMBER: Z076000073		DATE: 9/26/16	FIGURE 1
APPROVED BY: KS		DRAWN BY: BK	

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

S:\Projects\76\75000 COP\1396 SEATTLE\G-4 G-5 - Standard\GW_062816.dwg



LEGEND:

MW-71 GROUNDWATER MONITORING WELL

TPHg	<250	TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
B	<0.50	BENZENE
T	<0.50	TOLUENE
E	<0.50	ETHYLBENZENE
X	<1.5	TOTAL XYLENES

ALL ANALYTICAL RESULTS REPORTED IN MICROGRAMS PER LITER (µg/L)

BOLD = CONCENTRATION EQUAL OR EXCEEDS MTCA METHOD–A CLEANUP LEVEL

NS NOT SAMPLED

NOTE: 1. ALL LOCATIONS ARE APPROXIMATE

GROUNDWATER CONDITIONS MAP (06/28/16)

PHILLIPS 66 FACILITY NO. 255353 (AOC 1396)

600 WESTLAKE AVENUE N

SEATTLE, WA

PROJECT NUMBER: Z076000073		DATE: 7/15/16	FIGURE 2
APPROVED BY: KS		DRAWN BY: BK	

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

APPENDIX A

LABORATORY ANALYTICAL DATA REPORT AND CHAIN OF CUSTODY DOCUMENT

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

July 08, 2016

Kyle Sattler
ATC Group Services LLC
7070 SW Fir Loop
Suite 100
Portland, OR 97223

RE: Project: P66 AOC 1396 Westlake/Mercer
Pace Project No.: 1269597

Dear Kyle Sattler:
Enclosed are the analytical results for sample(s) received by the laboratory on July 01, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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
Project Manager

Enclosures

cc: Cody Bishop, ATC Group Services LLC

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

CERTIFICATIONS

Project: P66 AOC 1396 Westlake/Mercer
Pace Project No.: 1269597

Davis Cerification IDs

2795 Second Street Suite 300 Davis, CA 95618
North Dakota Certification #: R-214
Oregon Certification #: CA300002
Washington Certification #: C926-15a
California Certification #: 08263CA
Minnesota Department of Health Certification #: 006-999-465

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

SAMPLE SUMMARY

Project: P66 AOC 1396 Westlake/Mercer
Pace Project No.: 1269597

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1269597001	**MW-217**	Water	06/28/16 09:50	07/01/16 09:35
1269597002	**MW-216**	Water	06/28/16 10:20	07/01/16 09:35
1269597003	**MW-213**	Water	06/28/16 11:35	07/01/16 09:35
1269597004	**MWR-6**	Water	06/28/16 13:30	07/01/16 09:35
1269597005	**MWR-5**	Water	06/28/16 14:45	07/01/16 09:35
1269597006	**Trip Blanks**	Water	06/28/16 00:00	07/01/16 09:35

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

SAMPLE ANALYTE COUNT

Project: P66 AOC 1396 Westlake/Mercer
Pace Project No.: 1269597

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
1269597001	**MW-217**	EPA 8260B	JCP	7	PASI-DAV
		NWTPH-Gx	JCP	4	PASI-DAV
1269597002	**MW-216**	EPA 8260B	JCP	7	PASI-DAV
		NWTPH-Gx	JCP	4	PASI-DAV
1269597003	**MW-213**	EPA 8260B	JCP	7	PASI-DAV
		NWTPH-Gx	JCP	4	PASI-DAV
1269597004	**MWR-6**	EPA 8260B	JCP	7	PASI-DAV
		NWTPH-Gx	JCP	4	PASI-DAV
1269597005	**MWR-5**	EPA 8260B	JCP	7	PASI-DAV
		NWTPH-Gx	JCP	4	PASI-DAV
1269597006	**Trip Blanks**	EPA 8260B	JCP	7	PASI-DAV
		NWTPH-Gx	JCP	4	PASI-DAV

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

ANALYTICAL RESULTS

Project: P66 AOC 1396 Westlake/Mercer
Pace Project No.: 1269597

Sample: MW-217 **Lab ID: 1269597001** Collected: 06/28/16 09:50 Received: 07/01/16 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Water	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	0.50	1		07/07/16 04:09	71-43-2	
Toluene	ND	ug/L	0.50	1		07/07/16 04:09	108-88-3	
Ethylbenzene	ND	ug/L	0.50	1		07/07/16 04:09	100-41-4	
Xylene (Total)	ND	ug/L	1.5	1		07/07/16 04:09	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	109	%.	70-130	1		07/07/16 04:09	17060-07-0	
Toluene-d8 (S)	102	%.	70-130	1		07/07/16 04:09	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	70-130	1		07/07/16 04:09	460-00-4	
NWTPH-Gx MSV Water	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	250	1		07/07/16 13:55		
Surrogates								
1,2-Dichloroethane-d4 (S)	109	%.	50-150	1		07/07/16 13:55	17060-07-0	
Toluene-d8 (S)	101	%.	50-150	1		07/07/16 13:55	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	50-150	1		07/07/16 13:55	460-00-4	

Sample: MW-216 **Lab ID: 1269597002** Collected: 06/28/16 10:20 Received: 07/01/16 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Water	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	0.50	1		07/07/16 04:29	71-43-2	
Toluene	ND	ug/L	0.50	1		07/07/16 04:29	108-88-3	
Ethylbenzene	ND	ug/L	0.50	1		07/07/16 04:29	100-41-4	
Xylene (Total)	ND	ug/L	1.5	1		07/07/16 04:29	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	108	%.	70-130	1		07/07/16 04:29	17060-07-0	
Toluene-d8 (S)	102	%.	70-130	1		07/07/16 04:29	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130	1		07/07/16 04:29	460-00-4	
NWTPH-Gx MSV Water	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	250	1		07/07/16 14:15		
Surrogates								
1,2-Dichloroethane-d4 (S)	109	%.	50-150	1		07/07/16 14:15	17060-07-0	
Toluene-d8 (S)	102	%.	50-150	1		07/07/16 14:15	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	50-150	1		07/07/16 14:15	460-00-4	

Sample: MW-213 **Lab ID: 1269597003** Collected: 06/28/16 11:35 Received: 07/01/16 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Water	Analytical Method: EPA 8260B							
Benzene	**2.3**	ug/L	0.50	1		07/07/16 04:49	71-43-2	
Toluene	ND	ug/L	0.50	1		07/07/16 04:49	108-88-3	
Ethylbenzene	**5.5**	ug/L	0.50	1		07/07/16 04:49	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

ANALYTICAL RESULTS

Project: P66 AOC 1396 Westlake/Mercer
Pace Project No.: 1269597

Sample: MW-213 **Lab ID: 1269597003** Collected: 06/28/16 11:35 Received: 07/01/16 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Water	Analytical Method: EPA 8260B							
Xylene (Total)	**3.2**	ug/L	1.5	1		07/07/16 04:49	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	107	%.	70-130	1		07/07/16 04:49	17060-07-0	
Toluene-d8 (S)	101	%.	70-130	1		07/07/16 04:49	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	70-130	1		07/07/16 04:49	460-00-4	
NWTPH-Gx MSV Water	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	250	1		07/07/16 11:55		
Surrogates								
1,2-Dichloroethane-d4 (S)	108	%.	50-150	1		07/07/16 11:55	17060-07-0	
Toluene-d8 (S)	101	%.	50-150	1		07/07/16 11:55	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	50-150	1		07/07/16 11:55	460-00-4	

Sample: MWR-6 **Lab ID: 1269597004** Collected: 06/28/16 13:30 Received: 07/01/16 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Water	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	0.50	1		07/07/16 05:09	71-43-2	
Toluene	ND	ug/L	0.50	1		07/07/16 05:09	108-88-3	
Ethylbenzene	ND	ug/L	0.50	1		07/07/16 05:09	100-41-4	
Xylene (Total)	ND	ug/L	1.5	1		07/07/16 05:09	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	107	%.	70-130	1		07/07/16 05:09	17060-07-0	
Toluene-d8 (S)	101	%.	70-130	1		07/07/16 05:09	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130	1		07/07/16 05:09	460-00-4	
NWTPH-Gx MSV Water	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	250	1		07/07/16 14:35		
Surrogates								
1,2-Dichloroethane-d4 (S)	109	%.	50-150	1		07/07/16 14:35	17060-07-0	
Toluene-d8 (S)	102	%.	50-150	1		07/07/16 14:35	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	50-150	1		07/07/16 14:35	460-00-4	

Sample: MWR-5 **Lab ID: 1269597005** Collected: 06/28/16 14:45 Received: 07/01/16 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Water	Analytical Method: EPA 8260B							
Benzene	**14.9**	ug/L	1.2	2.5		07/08/16 02:17	71-43-2	
Toluene	ND	ug/L	1.2	2.5		07/08/16 02:17	108-88-3	
Ethylbenzene	**232**	ug/L	1.2	2.5		07/08/16 02:17	100-41-4	
Xylene (Total)	**519**	ug/L	3.8	2.5		07/08/16 02:17	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	109	%.	70-130	2.5		07/08/16 02:17	17060-07-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

ANALYTICAL RESULTS

Project: P66 AOC 1396 Westlake/Mercer
Pace Project No.: 1269597

Sample: MWR-5 **Lab ID: 1269597005** Collected: 06/28/16 14:45 Received: 07/01/16 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Water	Analytical Method: EPA 8260B							
Surrogates								
Toluene-d8 (S)	99	%.	70-130	2.5		07/08/16 02:17	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	70-130	2.5		07/08/16 02:17	460-00-4	
NWTPH-Gx MSV Water	Analytical Method: NWTPH-Gx							
TPH as Gas	**10800**	ug/L	1250	5		07/07/16 14:55		
Surrogates								
1,2-Dichloroethane-d4 (S)	109	%.	50-150	5		07/07/16 14:55	17060-07-0	
Toluene-d8 (S)	101	%.	50-150	5		07/07/16 14:55	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	50-150	5		07/07/16 14:55	460-00-4	

Sample: Trip Blanks **Lab ID: 1269597006** Collected: 06/28/16 00:00 Received: 07/01/16 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Water	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	0.50	1		07/07/16 01:29	71-43-2	
Toluene	ND	ug/L	0.50	1		07/07/16 01:29	108-88-3	
Ethylbenzene	ND	ug/L	0.50	1		07/07/16 01:29	100-41-4	
Xylene (Total)	ND	ug/L	1.5	1		07/07/16 01:29	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%.	70-130	1		07/07/16 01:29	17060-07-0	
Toluene-d8 (S)	101	%.	70-130	1		07/07/16 01:29	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	70-130	1		07/07/16 01:29	460-00-4	
NWTPH-Gx MSV Water	Analytical Method: NWTPH-Gx							
TPH as Gas	ND	ug/L	250	1		07/07/16 13:35		
Surrogates								
1,2-Dichloroethane-d4 (S)	107	%.	50-150	1		07/07/16 13:35	17060-07-0	
Toluene-d8 (S)	102	%.	50-150	1		07/07/16 13:35	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	50-150	1		07/07/16 13:35	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

QUALITY CONTROL DATA

Project: P66 AOC 1396 Westlake/Mercer
Pace Project No.: 1269597

QC Batch: DAVM/4098 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV UST Water
Associated Lab Samples: 1269597001, 1269597002, 1269597003, 1269597004, 1269597005, 1269597006

METHOD BLANK: 340492 Matrix: Water
Associated Lab Samples: 1269597001, 1269597002, 1269597003, 1269597004, 1269597005, 1269597006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	0.50	07/06/16 22:29	
Ethylbenzene	ug/L	ND	0.50	07/06/16 22:29	
Toluene	ug/L	ND	0.50	07/06/16 22:29	
Xylene (Total)	ug/L	ND	1.5	07/06/16 22:29	
1,2-Dichloroethane-d4 (S)	%.	98	70-130	07/06/16 22:29	
4-Bromofluorobenzene (S)	%.	97	70-130	07/06/16 22:29	
Toluene-d8 (S)	%.	101	70-130	07/06/16 22:29	

LABORATORY CONTROL SAMPLE: 340493

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	40	37.6	94	75-125	
Ethylbenzene	ug/L	40	39.7	99	75-125	
Toluene	ug/L	40	39.4	98	75-125	
Xylene (Total)	ug/L	120	117	98	75-125	
1,2-Dichloroethane-d4 (S)	%.			101	70-130	
4-Bromofluorobenzene (S)	%.			103	70-130	
Toluene-d8 (S)	%.			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 340494 340495

Parameter	Units	1269597004 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	40	40	38.4	37.7	96	94	75-125	2	30	
Ethylbenzene	ug/L	ND	40	40	40.3	39.6	101	99	74-125	2	30	
Toluene	ug/L	ND	40	40	39.5	39.4	99	98	75-125	0	30	
Xylene (Total)	ug/L	ND	120	120	118	118	99	98	61-129	0	30	
1,2-Dichloroethane-d4 (S)	%.						98	97	70-130			
4-Bromofluorobenzene (S)	%.						104	102	70-130			
Toluene-d8 (S)	%.						101	101	70-130			

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

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

QUALITY CONTROL DATA

Project: P66 AOC 1396 Westlake/Mercer
Pace Project No.: 1269597

QC Batch: DAVM/4102
QC Batch Method: EPA 8260B
Analysis Method: EPA 8260B
Analysis Description: 8260 MSV UST Water
Associated Lab Samples: 1269597005

METHOD BLANK: 340999 Matrix: Water
Associated Lab Samples: 1269597005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	0.50	07/07/16 18:17	
Ethylbenzene	ug/L	ND	0.50	07/07/16 18:17	
Toluene	ug/L	ND	0.50	07/07/16 18:17	
Xylene (Total)	ug/L	ND	1.5	07/07/16 18:17	
1,2-Dichloroethane-d4 (S)	%.	107	70-130	07/07/16 18:17	
4-Bromofluorobenzene (S)	%.	97	70-130	07/07/16 18:17	
Toluene-d8 (S)	%.	99	70-130	07/07/16 18:17	

LABORATORY CONTROL SAMPLE: 341000

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	40	36.1	90	75-125	
Ethylbenzene	ug/L	40	38.5	96	75-125	
Toluene	ug/L	40	37.4	94	75-125	
Xylene (Total)	ug/L	120	114	95	75-125	
1,2-Dichloroethane-d4 (S)	%.			106	70-130	
4-Bromofluorobenzene (S)	%.			101	70-130	
Toluene-d8 (S)	%.			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 341013 341014

Parameter	Units	1269601002 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	40	40	35.8	35.5	89	89	75-125	1	30	
Ethylbenzene	ug/L	ND	40	40	37.5	37.6	94	94	74-125	0	30	
Toluene	ug/L	ND	40	40	36.9	36.9	92	92	75-125	0	30	
Xylene (Total)	ug/L	ND	120	120	111	111	92	92	61-129	0	30	
1,2-Dichloroethane-d4 (S)	%.						109	110	70-130			
4-Bromofluorobenzene (S)	%.						99	99	70-130			
Toluene-d8 (S)	%.						99	100	70-130			

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

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

QUALITY CONTROL DATA

Project: P66 AOC 1396 Westlake/Mercer
Pace Project No.: 1269597

QC Batch: DAVM/4099 Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx MSV Water
Associated Lab Samples: 1269597001, 1269597002, 1269597003, 1269597004, 1269597005, 1269597006

METHOD BLANK: 340496 Matrix: Water
Associated Lab Samples: 1269597001, 1269597002, 1269597003, 1269597004, 1269597005, 1269597006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	250	07/07/16 11:34	
1,2-Dichloroethane-d4 (S)	%.	106	50-150	07/07/16 11:34	
4-Bromofluorobenzene (S)	%.	101	50-150	07/07/16 11:34	
Toluene-d8 (S)	%.	101	50-150	07/07/16 11:34	

LABORATORY CONTROL SAMPLE: 340497

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH as Gas	ug/L	480	421	88	70-130	
1,2-Dichloroethane-d4 (S)	%.			106	50-150	
4-Bromofluorobenzene (S)	%.			102	50-150	
Toluene-d8 (S)	%.			101	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 340498 340499

Parameter	Units	1269597003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH as Gas	ug/L	ND	480	480	466	478	82	85	70-130	3	25	
1,2-Dichloroethane-d4 (S)	%.						109	108	50-150			
4-Bromofluorobenzene (S)	%.						102	101	50-150			
Toluene-d8 (S)	%.						101	101	50-150			

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

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

QUALIFIERS

Project: P66 AOC 1396 Westlake/Mercer
Pace Project No.: 1269597

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.

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.

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-DAV Pace Analytical Services - Davis

Pace Analytical Services, Inc.
2795 Second Street - Suite 300
Davis, CA 95618
(530) 297-4800

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: P66 AOC 1396 Westlake/Mercer
Pace Project No.: 1269597

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1269597001	**MW-217**	EPA 8260B	DAVM/4098		
1269597002	**MW-216**	EPA 8260B	DAVM/4098		
1269597003	**MW-213**	EPA 8260B	DAVM/4098		
1269597004	**MWR-6**	EPA 8260B	DAVM/4098		
1269597005	**MWR-5**	EPA 8260B	DAVM/4098		
1269597005	**MWR-5**	EPA 8260B	DAVM/4102		
1269597006	**Trip Blanks**	EPA 8260B	DAVM/4098		
1269597001	**MW-217**	NWTPH-Gx	DAVM/4099		
1269597002	**MW-216**	NWTPH-Gx	DAVM/4099		
1269597003	**MW-213**	NWTPH-Gx	DAVM/4099		
1269597004	**MWR-6**	NWTPH-Gx	DAVM/4099		
1269597005	**MWR-5**	NWTPH-Gx	DAVM/4099		
1269597006	**Trip Blanks**	NWTPH-Gx	DAVM/4099		

Pace Analytical
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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A — Required Client Information:

Company:	P66_ATC Associates
Address:	6347 Seaview Avenue NW
	Seattle WA, 98107
Email To:	kyle.sattler@atcassociates.com
Phone:	503-684-0525 Fax
Requested Due Date/TAT:	10 Day (Standard)

Section B — Required Project Information:

Report To:	kyle.sattler@atcassociates.com
Copy To:	cody.bishop@atcassociates.com
Purchase Order No.	4522479587
Client Project ID:	P66 AOC 1396 Westlake/Mercer
Container Order Number:	

Section C — Invoice Information:

Attention:	Phillips 66
Company Name:	Phillips 66
Address:	
Pace Quote Reference:	
Pace Project Manager:	Jenni Gross
Pace Profile #:	3374 / 6 (DAVIS)

Regulatory Agency:

State / Location: WA / Westlake, Mercer

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	BTEX by 8260	NWTPHGx	Residual Chlorine (Y/N)	1269597
1	MW-217		G	6/28/16	0950				4				✓						✓	✓		001
2	MW-216								4				✓						✓	✓		002
3	MW-213								4				✓						✓	✓		003
4	MWR-6								4				✓						✓	✓		004
5	MWR-5								4				✓						✓	✓		005
6	Trip Blanks								2				✓						✓			006
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Cody Bishop	6/28/16	1700	[illegible] PACE	6/30/16	1400	6.0	Y	N	Y
				CAR PACE DAVIS	07/01/16	0935	7.0	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cody Bishop

SIGNATURE of SAMPLER: [signature] DATE Signed: 6/28/16

Pace Analytical	Document Name: Sample Condition Upon Receipt Form	Document Revised: 25Feb2015 Page 1 of 1
	Document No.: F-DAV-C-002-rev.02	Issuing Authority: Pace Davis, CA Quality Office

Sample Condition Upon Receipt

Client Name: P66 ATC

Project #: WO# : 1269597

1269597

Courier: [X] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [ ] Pace [ ] OnTrac [ ] Other: N/A

Tracking Number: 6662 9805 8938

Custody Seal on Cooler/Box Present? [X] Yes [ ] No **Seals Intact?** [X] Yes [ ] No

Optional: Proj. Due Date: Proj. Name:

Packing Material: [X] Bubble Wrap [X] Bubble Bags [ ] None [ ] Other: N/A **Temp Blank?** [X] Yes [ ] No

Thermom. Used: [X] DA1434 [ ] DA2285 **Type of Ice:** [X] Wet [ ] Blue [ ] Dry Ice [ ] None [ ] Samples on ice, cooling process has begun

Cooler Temp Read(°C): 1.6 **Cooler Temp Corrected(°C):** 2.0 **Biological Tissue Frozen?** [ ] Yes [ ] No [X] N/A

Temp should be above freezing to 6°C **Correction Factor:** +0.4 **Date and Initials of Person Examining Contents:** CAR 070116

Comments:

Chain of Custody Present?	[X] Yes	[ ] No	[ ] N/A	1.	Samples (002-006) do not have sample times/DATES noted on the COC. S.R. will use times on sample labels.
Chain of Custody Filled Out?	[X] Yes	[ ] No	[ ] N/A	2.	
Chain of Custody Relinquished?	CAR 070116 [X] Yes	[X] No	[ ] N/A	3.	
Sampler Name and/or Signature on COC?	[X] Yes	[ ] No	[ ] N/A	4.	
Samples Arrived within Hold Time?	[X] Yes	[ ] No	[ ] N/A	5.	
Short Hold Time Analysis (<72 hr)?	[ ] Yes	[X] No	[ ] N/A	6.	
Rush Turn Around Time Requested?	[ ] Yes	[X] No	[ ] N/A	7.	002 → 1020 062816
Sufficient Volume?	[X] Yes	[ ] No	[ ] N/A	8.	003 → 1135
Correct Containers Used?	[X] Yes	[ ] No	[ ] N/A	9.	004 → 1330
-Pace Containers Used?	[X] Yes	[ ] No	[ ] N/A		005 → 1445
Containers Intact?	[ ] Yes	[ ] No	[ ] N/A	10.	006 → 0000
Filtered Volume Received for Dissolved Tests?	[ ] Yes	[ ] No	[X] N/A	11.	Note if sediment is visible in the dissolved container.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	[ ] Yes	[X] No	[ ] N/A	12.	
All containers needing acid/base preservation have been checked?	[ ] Yes	[X] No	[ ] N/A	13.	[ ] HNO_3 [ ] H_2SO_4 [ ] NaOH [ ] HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	Check-In-lab [ ] Yes	[ ] No	[X] N/A	Sample #	
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	[X] Yes	[ ] No		Initial when completed:	Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	[ ] Yes	[X] No	[ ] N/A	14.	
Trip Blank Present?	[X] Yes	[ ] No	[ ] N/A	15.	
Trip Blank Custody Seals Present?	[ ] Yes	[ ] No	[X] N/A		
Pace Trip Blank Lot # (if purchased):					

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** [ ] Yes [X] No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Jenni Gross **Date:** 07/05/16

Note: Whenever there is a discrepancy affecting North Carolina 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 REPORT/GROUNDWATER GAUGING & SAMPLING LOGS

Field Report

FLD-100
Revision 1.0
6/1/2016

ATC Branch: Seattle, WA	Date: 6/28/16	Page of
ATC Representative(s): Cody Bishop	Project: AOC #1396	
Role: Sampler	Location: 600 Westlake Ave N, Seattle, WA	
Contact Information: 206-781-1449	Project No: Z076000073	Task No:
Scope of Work: GWM X Monitoring ___ Assessment ___ Remediation ___ Closure	Weather: Overcast	Temperature: 60's
	Contractor: Altus + SPD	

Time:	Comments:
0800	Depart office for site. Stopped by hardware store for locks. Store did not have the correct type of lock
0825	Arrive on site. Greet Seattle police officers who are helping w/ today's task
0840	Altus traffic control arrives on site.
0845	ATC begins safety meeting w/ Altus and SPD. Discussed today's task and any dangers of the job. Performed site walk to get an idea of what to expect
0855	Altus mobs to begin set up of blocking at Mercer Ave.
0920	ATC Mobs to MW-217. Begin set up over MW-217.
0955	MW-217 complete
1000	Mob to MW-216
1035	MW-216 complete. Packed up equipment. Mobed to meeting site inside of the compound to dismiss Altus + SPD
1055	Altus + SPD depart site
1100	Mob to MW-213 - set up equipment

Equipment Used:

Contractor Hours (per Person):	Staff / Technician Hours:	Mileage:
Copies To:	Project Manager:	
	Reviewed By:	

Field Report

FLD-100
Revision 1.0
6/1/2016

ATC Branch: Seattle, WA	Date: 6/28/16	Page of
ATC Representative(s): Cody Bishop	Project: AOC #1396	
Role: Sampler	Location: 600 Westlake Ave N, Seattle, WA	
Contact Information: 206-781-1449	Project No: Z076000073	Task No:
Scope of Work: GWM	Weather:	Temperature:
_X_ Monitoring ___ Assessment ___ Remediation ___ Closure	Contractor:	

Time:	Comments:
1110	Begin Sampling MW-213
1145	MW-213 Completed. Pack up equipment. Mob back to Compound
1200	Lunch
1245	Mob to MWR-6. Set up equipment
1300	Begin MWR-6
1340	- MWR-6 Complete
1400	- Mob to MWR-5 - Begin Sampling
1500	- Completed MWR-5 - Needs 2 bolts for lid
1510	- pack up equipment. Begin Grossing of MWR-1, SMW-3 & MW-211
	MW-211 unable to access due to bent bolt. Need crow bar
1600	Depart Site for office
1700	Arrive at office & unload equipment
	* Could not access MW-45
	* Purge water was placed into a holding tank in the remediation system

Equipment Used:

Contractor Hours (per Person):	Staff / Technician Hours: 8 hrs	Mileage:
Copies To:	Project Manager: Kyle Seattler	
	Reviewed By:	

Monitoring Well Purging and Sampling Log

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ATC Branch: Seattle, WA	Date: 6/28/16	Page of
ATC Representative(s): Cody Bishop	Project: AOC #1396	
	Location: 600 Westlake Ave N, Seattle, WA	
Contact Information: 206-781-1449	Project No: Z076000073	Task No: 7601
Well ID: MW-217		
	Weather: Overcast	Temperature: 60's

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): 24.60
Depth to Water (DTW)(feet): 12.95	Water Column (WC)(feet): ~~13.23~~ 11.65
LNAPL Thickness (ft): —	Purging Start Time: 0930

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
0940	12.89	0.15	16.93	1814	Clear	0.64	7.52	-61.1	
0943	12.90	0.18	16.95	1812	clear	0.54	7.51	-60.5	
0946	12.89	0.21	16.98	1809	clear	0.47	7.52	-59.8	
0949	12.89	0.24	16.99	1806	clear	0.48	7.54	-62.1	

Sample Data

Sample ID: MW-217	Time of Sample: 0950	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
6-40ml VOAs	4 - 40ml VOAs	NO	HCl	Gx, VOCs
2-250ml PE		NO/Lab Filtered	HNO3	Pb, Dissolved Pb

Well Recovery Data

Maximum Drawdown (DTW*m*)(feet):	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

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ATC Branch: Seattle, WA	Date: 6/28/16	Page of
ATC Representative(s): Cody Bishop	Project: AOC #1396	
	Location: 600 Westlake Ave N, Seattle, WA	
Contact Information: 206-781-1449	Project No: Z076000073	Task No: 7601
Well ID: MW-216		
	Weather: Overcast	Temperature: 60's

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

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

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

Purging Calculations

Casing Volumes (CV):

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

Monitoring Measurements

Depth to LNAPL (feet): —	Total Well Depth (feet): 19.20
Depth to Water (DTW)(feet): 13.01	Water Column (WC)(feet): 6.19
LNAPL Thickness (ft): —	Purging Start Time: 1000

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
1010	13.37	0.15	17.29	1377	clear	0.68	7.58	-41.4	
1013	13.58	0.18	17.27	1377	"	0.60	7.58	-42.5	
1016	13.39	0.21	17.32	1375	"	0.54	7.57	-43.6	

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 (DTW*m*)(feet):	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

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ATC Branch: Seattle, WA	Date: 6/28/16	Page of
ATC Representative(s): Cody Bishop	Project: AOC #1396	
	Location: 600 Westlake Ave N, Seattle, WA	
Contact Information: 206-781-1449	Project No: Z076000073	Task No: 7601
Well ID: MW-213		
	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

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

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

Purging Calculations

Casing Volumes (CV):

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

Monitoring Measurements

Depth to LNAPL (feet): —	Total Well Depth (feet): 20.20
Depth to Water (DTW)(feet): 9.41	Water Column (WC)(feet): 10.79
LNAPL Thickness (ft): —	Purging Start Time: 1110

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
1120	9.71	0.15	17.06	539	Clear	2.73	7.79	-29.7	
1123	9.74	0.18	16.99	536	"	2.72	7.80	-28.1	
1126	9.77	0.21	17.07	529	"	2.74	7.80	-26.5	
1129	9.80	~~17.07~~ 0.24	17.07	525	"	2.79	7.81	-25.9	

Sample Data

Sample ID: MW213	Time of Sample: 1135	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
6-40ml VOAs 4 VOAs		NO	HCl	Gx, VOCs
2-250ml PE		NO/Lab Filtered	HNO3	Pb, Dissolved Pb

Well Recovery Data

Maximum Drawdown (DTW*m*)(feet):	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

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ATC Branch: Seattle, WA	Date: 6/28/16	Page of
ATC Representative(s): Cody Bishop	Project: AOC #1396	
	Location: 600 Westlake Ave N, Seattle, WA	
Contact Information: 206-781-1449	Project No: Z076000073	Task No: 7601
Well ID: MW-6		
	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

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

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

Purging Calculations

Casing Volumes (CV):

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

Monitoring Measurements

Depth to LNAPL (feet): —	Total Well Depth (feet): 16.50
Depth to Water (DTW)(feet): 11.75	Water Column (WC)(feet): 4.75
LNAPL Thickness (ft): —	Purging Start Time: 1310

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
1320	11.85	0.20	17.74	1196	Clear	1.18	7.41	+105.7	
1323	11.86	0.23	17.73	1145	"	0.88	7.32	-105.7	
1326	11.91	0.26	17.79	1109	"	0.68	7.18	-107.7	
1329	11.93	0.29	17.79	1098	"	0.59	7.12	-110.8	

Sample Data

Sample ID: MW-6	Time of Sample: 1330	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 (DTW*m*)(feet):	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

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ATC Branch: Seattle, WA	Date: 6/28/16	Page of
ATC Representative(s): Cody Bishop	Project: AOC #1396	
	Location: 600 Westlake Ave N, Seattle, WA	
Contact Information: 206-781-1449	Project No: Z076000073	Task No: 7601
Well ID: MW-5		
	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 C Peristaltic Pump Other: ____

3 Well Volumes ____ Low Flow ____ Micro Purge ____ Intake Depth (feet below TOC) ____

Sampling Method: ____ Teflon Bailer ____ Disposable Bailer C Dedicated Tubing Other: ____

Casing Volume Information

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

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

Purging Calculations

Casing Volumes (CV):

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

Monitoring Measurements

Depth to LNAPL (feet): —	Total Well Depth (feet): 16.25
Depth to Water (DTW)(feet): 9.54	Water Column (WC)(feet): 6.71
LNAPL Thickness (ft): —	Purging Start Time: 1420

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
1450	9.61	0.20	16.17	420	clear	1.28	6.85	-46.8	
1433	9.63	0.23	16.21	409	"	0.70	6.86	-49.8	
1437	9.71	0.26	16.27	400	"	0.44	6.87	-56.7	
1439	9.75	0.29	16.34	394	"	0.41	6.86	-56.6	

Sample Data

Sample ID: MW-5	Time of Sample: 1445	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 (DTW*m*)(feet):	Approximate Flow Rate (GPM):
Recovery Type: ____ Fast ____ Slow	% Recovery =

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

Comments:

Monitor Well Gauging Log

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Revision 0.0
Jul-08

ATC Branch: Seattle, WA	Date: 6/28/14	Page of
ATC Representative(s): Cody Bishop	Project: AOC #1396	
	Location: 600 Westlake Ave N, Seattle, WA	
Contact Information: 206-781-1449	Project No: Z076000073	Task No:
	Weather: Overcast	Temperature: 60's
Water Level Meter Model/ID: EnviroTape	Interface Probe Model/ID:	

Well ID	Casing Diameter (inches) / Type	Time of Well Cap Removal*	Time of Gauging*	Depth To LNAPL (feet)	Depth To Water (feet)	LNAPL Thickness (feet)	Total Well Depth (feet)	Other (DTW, DO, ORP,Temp, etc)
MW-217	2"	0925	0930	-	12.95	-	24.60	
MW-216	2"	0955	1000	-	13.01	-	19.20	
MW-213	2"	1105	1110	-	9.41	-	20.20	
MW-95				-	1	-		Could not Access
MWR-5	2"	1410	1420	-	9.54	-	16.25	
MWR-6	2"	1305	1310	-	11.75	-	16.50	
MWR-1	2"	1525	1530	-	12.21	-	17.50	
SMW-3	2"	1535	1540	=	9.09	-	17.10	
MW-211								Could not Access
								-

Comments:

Notes:

* If top of screen is submerged, allow at least 15 minutes for well equilibration following well cap removal.
All measurements to be reported to nearest 0.01 ft.

ID = Identification.
LNAPL = Light Non-Aqueous Phase Liquid.
Sheen = Discontinuous, non-measurable thickness of LNAPL (less than 0.01 ft).
Trace = Continuous, non-measurable thickness of LNAPL.