



TABLES

PUBLIC REVIEW DRAFT
Table 2-1
Groundwater Elevation Measurements
5900 West Marginal Way Site
Seattle, Washington

Well ID	Measuring Point Elevation <i>ft-amsl</i>	Date	Time	Depth to Groundwater <i>ft-toc</i>	Groundwater Elevation <i>ft-amsl</i>
MW-1S	17.69	3/23/2009	8:28	6.49	11.20
		6/25/2009	10:06	8.52	9.17
		10/7/2009	9:21	9.37	8.32
		1/28/2010	9:41	6.24	11.45
		4/26/2010	7:44	6.84	10.85
		8/5/2010	9:05	8.89	8.80
		10/25/2010	8:12	5.83	11.87
		4/25/2011	7:52	6.83	10.86
		7/14/2011	8:21	8.63	9.06
		11/28/2011	7:22	5.51	12.18
		10/28/2011	7:45	9.01	8.68
		1/25/2012	10:01	5.10	12.59
		4/24/2012	8:49	6.77	10.92
		7/19/2012	9:30	8.41	9.28
		11/5/2012	9:56	5.81	11.88
		1/22/2013	11:10	6.98	10.71
		5/6/2013	10:22	7.47	10.22
		11/7/2013	8:55	8.10	9.59
		11/7/2013	14:36	7.56	10.13
		2/4/2014	8:19	6.49	11.20
		2/4/2014	14:34	6.51	11.18
		5/2/2014	7:47	6.84	10.85
		5/2/2014	14:29	6.84	10.85
		7/31/2014	9:40	9.23	8.46
		7/31/2014	15:08	9.22	8.47
		11/24/2014	7:28	5.34	12.35
		11/24/2014	12:52	5.36	12.33
		2/23/2015	11:58	7.01	10.68
		2/23/2015	15:18	7.02	10.67
		5/21/2015	7:53	8.41	9.28
		5/21/2015	14:42	8.38	9.31
		8/25/2015	11:38	9.55	8.14
		8/25/2015	16:21	9.57	8.12
		11/20/2015	9:19	5.03	12.66
		11/20/2015	16:01	5.05	12.64
		1/5/2016	13:00	6.37	11.32
		1/5/2016	13:42	6.39	11.30
		4/25/2016	7:48	7.67	10.02
		4/25/2016	14:32	7.60	10.09
		7/28/2016	7:45	9.29	8.40
		7/28/2016	14:27	9.30	8.39
		1/17/2017	10:22	6.70	10.99
		1/17/2017	15:18	6.45	11.24
		8/24/2017	8:12	8.84	8.85
		8/24/2017	14:35	8.82	8.87
		1/4/2018	8:21	5.55	12.14
		1/4/2018	13:51	5.49	12.20
MW-1D	17.16	3/23/2009	8:30	12.02	5.14
		6/25/2009	10:37	13.22	3.94
		10/7/2009	9:22	11.15	6.01
		1/28/2010	9:37	10.48	6.68
		4/26/2010	7:38	12.43	4.73
		8/5/2010	9:00	15.86	1.30
		10/25/2010	8:18	10.07	7.09
		4/25/2011	7:55	11.78	5.38
		7/14/2011	8:24	13.45	3.71
		11/28/2011	7:20	10.38	6.78
		10/28/2012	7:48	10.77	6.39
		1/25/2012	9:58	10.51	6.65
		4/24/2012	8:51	10.75	6.41
		7/19/2012	9:32	13.64	3.52
		7/19/2012	14:45	15.08	2.08
		11/5/2012	8:35	11.14	6.02
		11/5/2012	13:30	11.05	6.11
		1/22/2013	8:21	11.46	5.70
		1/22/2013	13:21	10.51	6.65
		5/6/2013	9:01	14.60	2.56
		5/6/2013	11:53	14.44	2.72
		5/6/2013	NR	11.35	5.81
		11/7/2013	8:53	10.07	7.09
		11/7/2013	14:34	11.32	5.84
		2/4/2014	8:16	10.00	7.16
		2/4/2014	14:33	14.19	2.97
		5/2/2014	7:45	10.19	6.97

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Well ID	Measuring Point Elevation <i>ft-amsl</i>	Date	Time	Depth to Groundwater <i>ft-toc</i>	Groundwater Elevation <i>ft-amsl</i>
		5/2/2014	14:31	16.07	1.09
		7/31/2014	8:55	11.34	5.82
		7/31/2014	15:03	14.94	2.22
		11/24/2014	7:24	10.24	6.92
		11/24/2014	12:55	11.56	5.60
		2/23/2015	8:41	10.09	7.07
		2/23/2015	15:16	15.34	1.82
		5/21/2015	7:51	10.24	6.92
		5/21/2015	14:40	16.43	0.73
		8/25/2015	8:57	15.74	1.42
		8/25/2015	16:19	11.08	6.08
		11/20/2015	9:15	12.12	5.04
		11/20/2015	15:59	11.59	5.57
		1/5/2016	8:08	10.92	6.24
		1/5/2016	13:40	9.35	7.81
		4/25/2016	7:46	10.57	6.59
		4/25/2016	14:33	15.81	1.35
		7/28/2016	7:39	15.81	1.35
		7/28/2016	14:40	11.80	5.36
		1/17/2017	9:33	9.30	7.86
		1/17/2017	15:58	12.15	5.01
		8/24/2017	7:54	10.44	6.72
		8/24/2017	14:12	15.45	1.71
		1/4/2018	8:01	9.83	7.33
		1/4/2018	13:41	11.64	5.52
MW-2S	17.42	3/23/2009	8:32	6.82	10.60
		6/25/2009	11:03	8.39	9.03
		10/7/2009	10:42	9.26	8.16
		1/28/2010	10:44	6.41	11.01
		4/26/2010	8:51	6.94	10.48
		8/5/2010	9:40	8.72	8.70
		10/25/2010	8:54	6.40	11.02
		4/25/2011	8:20	6.87	10.55
		7/14/2011	8:48	8.48	8.94
		11/28/2011	7:40	6.30	11.12
		10/28/2011	8:06	8.85	8.57
		1/25/2012	9:47	5.40	12.02
		4/24/2012	9:09	6.86	10.56
		7/19/2012	9:47	8.31	9.11
		11/5/2012	10:00	6.62	10.80
		1/22/2013	10:05	6.87	10.55
		1/22/2013	10:05	6.87	10.55
		5/6/2013	10:42	7.37	10.05
		11/7/2013	8:46	7.94	9.48
		11/7/2013	14:26	7.27	10.15
		2/4/2014	8:13	6.59	10.83
		2/4/2014	14:29	6.65	10.77
		5/2/2014	7:41	6.87	10.55
		5/2/2014	14:24	6.86	10.56
		7/31/2014	9:46	8.98	8.44
		7/31/2014	14:58	8.98	8.44
		11/24/2014	7:19	5.73	11.69
		11/24/2014	12:43	5.74	11.68
		2/23/2015	12:32	6.89	10.53
		2/23/2015	15:10	6.87	10.55
		5/21/2015	7:41	8.17	9.25
		5/21/2015	14:31	8.16	9.26
		8/25/2015	14:02	9.29	8.13
		8/25/2015	16:14	11.15	6.27
		11/20/2015	9:55	5.53	11.89
		11/20/2015	15:37	5.50	11.92
		1/5/2016	11:51	6.39	11.03
		1/5/2016	13:27	6.40	11.02
		4/25/2016	7:37	7.65	9.77
		4/25/2016	14:22	7.62	9.80
		7/28/2016	7:34	9.05	8.37
		7/28/2016	14:53	9.05	8.37
		1/17/2017	10:18	6.60	10.82
		1/17/2017	15:24	6.54	10.88
		8/24/2017	8:08	8.88	8.54
		8/24/2017	14:30	8.87	8.55
		1/4/2018	8:25	5.88	11.54
		1/4/2018	13:55	5.86	11.56

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Well ID	Measuring Point Elevation <i>ft-amsl</i>	Date	Time	Depth to Groundwater <i>ft-toc</i>	Groundwater Elevation <i>ft-amsl</i>
MW-2D	17.43	3/23/2009	8:36	12.43	5.00
		6/25/2009	11:01	14.70	2.73
		10/7/2009	10:46	11.71	5.72
		1/28/2010	10:29	10.68	6.75
		4/26/2010	8:18	13.96	3.47
		8/5/2010	9:35	15.83	1.60
		10/25/2010	8:50	10.31	7.12
		4/25/2011	8:17	11.99	5.44
		7/14/2011	8:44	14.79	2.64
		11/28/2011	7:38	10.40	7.03
		10/28/2011	8:00	11.04	6.39
		1/25/2012	9:50	10.79	6.64
		4/24/2012	9:05	11.26	6.17
		7/19/2012	9:44	14.65	2.78
		7/19/2012	14:50	15.02	2.41
		11/5/2012	8:42	11.29	6.14
		1/22/2013	8:29	11.72	5.71
		1/22/2013	13:23	10.79	6.64
		5/6/2013	9:07	15.26	2.17
		5/6/2013	11:59	14.55	2.88
		5/6/2013	NR	11.56	5.87
		11/7/2013	8:43	10.32	7.11
		11/7/2013	14:24	11.63	5.80
		2/4/2014	8:10	10.32	7.11
		2/4/2014	14:27	14.57	2.86
		5/2/2014	7:40	10.49	6.94
		5/2/2014	14:22	16.64	0.79
		7/31/2014	8:45	11.58	5.85
		7/31/2014	14:53	15.32	2.11
		11/24/2014	NR	NM	--
		11/24/2014	12:45	11.84	5.59
		2/23/2015	8:31	10.39	7.04
		2/23/2015	15:09	15.84	1.59
		5/21/2015	7:41	10.52	6.91
		5/21/2015	14:30	16.97	0.46
		8/25/2015	8:51	16.14	1.29
		8/25/2015	16:16	11.35	6.08
		11/20/2015	9:08	12.28	5.15
		11/20/2015	15:49	11.79	5.64
		1/5/2016	8:03	11.16	6.27
		1/5/2016	13:26	9.58	7.85
		4/25/2016	7:36	10.80	6.63
		4/25/2016	14:24	16.33	1.10
		7/28/2016	7:29	16.30	1.13
		7/28/2016	14:30	12.03	5.40
		1/17/2017	9:22	9.48	7.95
		1/17/2017	15:48	12.48	4.95
		8/24/2017	7:50	10.69	6.74
		8/24/2017	13:55	15.98	1.45
		1/4/2018	7:49	10.07	7.36
		1/4/2018	13:35	11.87	5.56
MW-3S	19.62	3/23/2009	8:50	10.71	8.91
		6/25/2009	11:19	11.22	8.40
		10/7/2009	11:03	12.20	7.42
		1/28/2010	12:31	9.84	9.78
		4/26/2010	10:09	10.89	8.73
		8/5/2010	10:57	11.80	7.82
		10/25/2010	10:45	11.77	7.85
		4/25/2011	9:17	10.51	9.11
		7/14/2011	9:47	11.51	8.11
		11/28/2011	8:08	11.64	7.98
		10/28/2011	8:55	12.28	7.34
		1/25/2012	9:20	10.44	9.18
		4/24/2012	9:56	10.47	9.15
		7/19/2012	10:30	11.36	8.26
		11/5/2012	10:11	11.77	7.85
		1/22/2013	10:37	10.43	9.19
		5/6/2013	11:08	10.79	8.83
		11/7/2013	9:35	11.61	8.01
		11/7/2013	15:16	11.33	8.29
		2/4/2014	8:56	10.86	8.76
		2/4/2014	15:15	10.82	8.80
		5/2/2014	8:26	10.48	9.14
		5/2/2014	15:12	10.46	9.16

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		7/31/2014	9:30	11.86	7.76
		7/31/2014	15:39	11.79	7.83
		11/24/2014	7:48	10.53	9.09
		11/24/2014	13:30	10.53	9.09
		2/23/2015	9:34	10.26	9.36
		2/23/2015	15:11	10.28	9.34
		5/21/2015	8:32	11.17	8.45
		5/21/2015	15:21	11.12	8.50
		8/25/2015	9:15	12.11	7.51
		8/25/2015	16:53	12.11	7.51
		11/20/2015	9:51	10.28	9.34
		11/20/2015	16:45	10.29	9.33
		1/5/2016	8:40	9.65	9.97
		1/5/2016	13:30	9.67	9.95
		4/25/2016	8:23	10.70	8.92
		4/25/2016	15:10	10.70	8.92
		7/28/2016	8:16	11.88	7.74
		7/28/2016	15:17	11.86	7.76
		1/17/2017	10:09	9.95	9.67
		1/17/2017	16:20	9.82	9.80
		8/24/2017	8:30	11.67	7.95
		8/24/2017	14:53	11.65	7.97
		1/4/2018	8:46	9.63	9.99
		1/4/2018	14:25	9.61	10.01
MW-3D	19.51	3/23/2009	8:52	14.23	5.28
		6/25/2009	11:22	15.21	4.30
		10/7/2009	11:03	14.20	5.31
		1/28/2010	12:34	12.49	7.02
		4/26/2010	10:13	15.75	3.76
		8/5/2010	11:00	15.94	3.57
		10/25/2010	10:48	13.23	6.28
		4/25/2011	9:14	13.70	5.81
		7/14/2011	9:44	15.75	3.76
		11/28/2011	8:11	13.42	6.09
		10/28/2011	8:50	13.96	5.55
		1/25/2012	9:18	12.82	6.69
		4/24/2012	9:52	13.51	6.00
		7/19/2012	10:27	15.52	3.99
		7/19/2012	15:08	16.04	3.47
		11/5/2012	8:57	14.04	5.47
		11/5/2012	13:41	13.60	5.91
		1/22/2013	8:45	13.79	5.72
		1/22/2013	13:27	13.21	6.30
		5/6/2013	9:20	15.52	3.99
		5/6/2013	12:09	15.63	3.88
		5/6/2013	NR	11.56	7.95
		11/7/2013	9:33	13.39	6.12
		11/7/2013	15:14	13.51	6.00
		2/4/2014	8:54	13.33	6.18
		2/4/2014	15:13	15.22	4.29
		5/2/2014	8:24	13.04	6.47
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		2/23/2015	15:56	15.91	3.60
		5/21/2015	8:31	13.14	6.37
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		1/5/2016	8:47	13.11	6.40
		1/5/2016	14:18	12.18	7.33
		4/25/2016	8:26	13.33	6.18
		4/25/2016	15:13	16.20	3.31
		7/28/2016	8:19	16.34	3.17
		7/28/2016	15:20	14.42	5.09
		1/17/2017	10:12	12.41	7.10
		1/17/2017	16:38	13.73	5.78
		8/24/2017	8:32	13.44	6.07
		8/24/2017	14:50	16.02	3.49

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		1/4/2018	8:41	13.13	6.38
		1/4/2018	14:21	13.58	5.93
MW-4S	18.81	3/23/2009	8:16	7.09	11.72
		6/25/2009	10:21	9.09	9.72
		10/7/2009	9:04	9.86	8.95
		1/28/2010	10:04	6.64	12.17
		4/26/2010	8:06	7.17	11.64
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		10/25/2010	8:34	5.88	12.93
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		5/6/2013	12:52	8.56	9.86
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		11/20/2015	9:23	5.49	12.93
		1/5/2016	13:33	6.52	11.90
		4/25/2016	12:31	7.80	10.62
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		10/7/2009	9:12	9.73	8.77
		1/28/2010	9:58	6.60	11.90
		4/26/2010	8:01	7.11	11.39
		8/5/2010	9:09	9.29	9.21
		10/25/2010	8:27	6.75	11.75
		4/25/2011	9:30	7.05	11.45

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Table 2-1
Groundwater Elevation Measurements
5900 West Marginal Way Site
Seattle, Washington

Well ID	Measuring Point Elevation <i>ft-amsl</i>	Date	Time	Depth to Groundwater <i>ft-toc</i>	Groundwater Elevation <i>ft-amsl</i>
		7/14/2011	10:02	8.99	9.51
		11/28/2011	8:36	6.37	12.13
		10/28/2011	9:08	9.50	9.00
		1/25/2012	12:08	5.63	12.87
		4/24/2012	11:04	6.89	11.61
		7/19/2012	12:01	8.80	9.70
		11/5/2012	11:32	6.44	12.06
		1/22/2013	10:57	7.16	11.34
		5/6/2013	12:58	7.45	11.05
		11/7/2013	NR	7.64	10.86
		2/4/2014	8:30	6.76	11.74
		5/2/2014	10:59	6.95	11.55
		7/31/2014	13:21	9.41	9.09
		11/24/2014	10:42	6.05	12.45
		2/23/2015	12:12	7.07	11.43
		5/21/2015	12:36	8.64	9.86
		8/25/2015	12:36	9.76	8.74
		11/20/2015	10:45	5.54	12.96
		1/5/2016	13:45	6.40	12.10
		4/25/2016	12:37	7.61	10.89
		7/28/2016	NR	9.50	9.00
		1/17/2017	13:00	6.89	11.61
		8/24/2017	15:16	9.38	9.12
		1/4/2018	13:05	6.10	12.40
MW-7S	18.50	3/23/2009	8:18	6.90	11.60
		6/25/2009	10:18	8.81	9.69
		10/7/2009	9:09	9.64	8.86
		1/28/2010	9:54	6.47	12.03
		4/26/2010	7:56	6.98	11.52
		8/5/2010	9:14	9.21	9.29
		10/25/2010	8:29	6.31	12.19
		4/25/2011	9:35	6.84	11.66
		7/14/2011	10:22	8.91	9.59
		11/28/2011	9:10	6.18	12.32
		10/28/2011	9:13	9.36	9.14
		1/25/2012	12:15	5.51	12.99
		4/24/2012	11:18	6.71	11.79
		7/19/2012	12:11	8.71	9.79
		11/5/2012	11:45	6.19	12.31
		1/22/2013	11:16	7.03	11.47
		5/6/2013	13:05	7.15	11.35
		11/7/2013	NR	7.27	11.23
		2/4/2014	8:34	6.56	11.94
		5/2/2014	10:54	6.84	11.66
		7/31/2014	13:14	9.35	9.15
		11/24/2014	10:35	5.94	12.56
		2/23/2015	12:12	7.07	11.43
		5/21/2015	12:36	8.64	9.86
		8/25/2015	12:36	9.76	8.74
		11/20/2015	10:45	5.54	12.96
		1/5/2016	13:45	6.40	12.10
		4/25/2016	12:37	7.61	10.89
		7/28/2016	NR	9.50	9.00
		1/17/2017	12:53	6.73	11.77
		8/24/2017	15:57	9.36	9.14
		1/4/2018	13:09	6.01	12.49
MW-10S	15.51	3/23/2009	8:33	4.74	10.77
		6/25/2009	10:56	6.49	9.02
		10/7/2009	10:37	7.33	8.18
		1/28/2010	10:38	4.32	11.19
		4/26/2010	8:31	4.82	10.69
		8/5/2010	9:30	6.81	8.70
		10/25/2010	8:43	2.51	13.00
		4/25/2011	8:10	4.87	10.64
		7/14/2011	8:37	6.57	8.94
		11/28/2011	7:30	2.91	12.60
		10/28/2011	7:58	6.88	8.63
		1/25/2012	12:00	3.82	11.69
		4/24/2012	8:57	4.76	10.75
		7/19/2012	10:53	6.40	9.11
		11/5/2012	10:21	3.24	12.27
		1/22/2013	9:58	4.93	10.58
		5/6/2013	10:30	5.45	10.06
		11/7/2013	10:07	4.37	11.14

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Table 2-1
Groundwater Elevation Measurements
5900 West Marginal Way Site
Seattle, Washington

Well ID	Measuring Point Elevation <i>ft-amsl</i>	Date	Time	Depth to Groundwater <i>ft-toc</i>	Groundwater Elevation <i>ft-amsl</i>
		2/4/2014	11:03	4.18	11.33
		5/2/2014	11:19	4.82	10.69
		7/31/2014	13:32	7.09	8.42
		11/24/2014	11:06	2.74	12.77
		2/23/2015	12:23	4.95	10.56
		5/21/2015	12:24	6.30	9.21
		8/25/2015	12:24	7.41	8.10
		11/20/2015	9:44	3.09	12.42
		1/5/2016	13:10	4.45	11.06
		4/25/2016	12:16	5.76	9.75
		7/28/2016	NR	7.16	8.35
		1/17/2017	14:34	4.57	10.94
		8/24/2017	11:40	6.93	8.58
		1/4/2018	12:40	3.82	11.69
MW-11S +	15.34	3/23/2009	8:40	4.49	10.85
		6/25/2009	10:47	6.19	9.15
		10/7/2009	10:29	7.05	8.29
		1/28/2010	10:21	3.47	11.87
		4/26/2010	8:39	4.59	10.75
		8/5/2010	9:57	6.49	8.85
		10/25/2010	*	*	*
		4/25/2011	8:56	4.56	10.78
		7/14/2011	9:28	6.23	9.11
		11/28/2011	8:28	3.95	11.39
		10/28/2011	8:44	6.66	8.68
		1/25/2012	11:56	2.95	12.39
		4/24/2012	9:19	4.53	10.81
		7/19/2012	11:02	6.05	9.29
		11/5/2012	10:27	4.09	11.25
		1/22/2013	10:10	4.60	10.74
		5/6/2013	10:40	5.09	10.25
		11/7/2013	NR	NM	
	16.01	2/4/2014	11:09	5.02	10.99
		5/2/2014	11:14	5.25	10.76
		7/31/2014	13:40	7.44	8.57
		11/24/2014	11:03	4.02	11.99
		2/23/2015	12:31	5.34	10.67
		5/21/2015	12:06	6.67	9.34
		8/25/2015	12:06	7.80	8.21
		11/20/2015	9:42	3.88	12.13
		1/5/2016	13:16	4.79	11.22
		4/25/2016	12:12	6.09	9.92
		7/28/2016	NR	7.54	8.47
		1/17/2017	14:27	4.96	11.05
		8/24/2017	11:46	7.35	8.66
		1/4/2018	12:44	4.23	11.78
MW-12S	15.92	3/23/2009	8:05	4.84	11.08
		6/25/2009	10:33	6.39	9.53
		10/7/2009	10:26	7.36	8.56
		1/28/2010	10:55	4.35	11.57
		4/26/2010	8:59	4.91	11.01
		8/5/2010	9:49	6.79	9.13
		10/25/2010	9:34	5.33	10.59
		4/25/2011	9:00	4.83	11.09
		7/14/2011	9:33	6.50	9.42
		11/28/2011	8:24	4.63	11.29
		10/28/2011	8:40	7.05	8.87
		1/25/2012	11:35	3.59	12.33
		4/24/2012	9:27	4.76	11.16
		7/19/2012	11:04	6.30	9.62
		11/5/2012	10:32	4.75	11.17
		1/22/2013	10:14	4.88	11.04
		5/6/2013	10:48	5.29	10.63
		11/7/2013	10:52	6.16	9.76
		2/4/2014	11:15	4.75	11.17
		5/2/2014	11:08	4.76	11.16
		7/31/2014	13:46	6.99	8.93
		11/24/2014	7:14	3.96	11.96
		2/23/2015	12:41	4.88	11.04
		5/21/2015	12:03	6.22	9.70
		8/25/2015	12:03	7.39	8.53
		11/20/2015	9:37	3.54	12.38
		1/5/2016	13:21	4.31	11.61
		4/25/2016	12:09	5.61	10.31

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Table 2-1
Groundwater Elevation Measurements
5900 West Marginal Way Site
Seattle, Washington

Well ID	Measuring Point Elevation <i>ft-amsl</i>	Date	Time	Depth to Groundwater <i>ft-toc</i>	Groundwater Elevation <i>ft-amsl</i>
		7/28/2016	0:00	7.10	8.82
		1/17/2017	14:20	4.54	11.38
		8/24/2017	11:53	6.94	8.98
		1/4/2018	12:50	3.89	12.03
MW-13S	15.95	3/23/2009	8:44	5.43	10.52
		6/25/2009	11:07	6.67	9.28
		10/7/2009	10:46	7.64	8.31
		1/28/2010	11:27	4.62	11.33
		4/26/2010	8:56	5.45	10.50
		8/5/2010	9:45	7.04	8.91
		10/25/2010	9:29	5.83	10.12
		4/25/2011	8:26	5.28	10.67
		7/14/2011	8:53	6.77	9.18
		11/28/2011	7:44	5.58	10.37
		10/28/2011	8:10	7.37	8.58
		1/25/2012	11:40	4.49	11.46
		4/24/2012	9:34	5.28	10.67
		7/19/2012	11:09	6.60	9.35
		11/5/2012	10:37	5.67	10.28
		1/22/2013	10:21	5.30	10.65
		5/6/2013	10:44	5.71	10.24
		11/7/2013	10:47	6.05	9.90
		2/4/2014	8:51	5.33	10.62
		5/2/2014	11:29	5.36	10.59
		7/31/2014	14:08	7.17	8.78
		11/24/2014	11:12	5.01	10.94
		2/23/2015	12:37	5.30	10.65
		5/21/2015	11:58	6.47	9.48
		8/25/2015	11:58	7.64	8.31
		11/20/2015	10:01	4.48	11.47
		1/5/2016	13:26	5.03	10.92
		4/25/2016	12:25	5.97	9.98
		7/28/2016	NR	7.31	8.64
		1/17/2017	14:42	5.01	10.94
		8/24/2017	11:59	7.15	8.80
		1/4/2018	12:55	4.88	11.07
MW-14S	16.38	3/23/2009	8:48	6.09	10.29
		6/25/2009	11:14	7.08	9.30
		10/7/2009	10:51	8.07	8.31
		1/28/2010	11:10	5.40	10.98
		4/26/2010	9:04	6.05	10.33
		8/5/2010	9:52	7.45	8.93
		10/25/2010	9:40	7.04	9.34
		4/25/2011	9:10	5.79	10.59
		7/14/2011	9:38	7.18	9.20
		11/28/2011	8:18	6.81	9.57
		10/28/2011	8:36	7.93	8.45
		1/25/2012	9:37	5.49	10.89
		4/24/2012	9:40	5.80	10.58
		7/19/2012	10:00	7.01	9.37
		11/5/2012	8:48	6.85	9.53
		11/5/2012	10:06	6.85	9.53
		1/22/2013	10:30	5.78	10.60
		5/6/2013	11:04	6.15	10.23
		11/7/2013	9:25	7.14	9.24
		11/7/2013	15:06	6.86	9.52
		2/4/2014	8:45	6.01	10.37
		2/4/2014	15:05	6.00	10.38
		5/2/2014	8:16	5.77	10.61
		5/2/2014	15:04	5.74	10.64
		7/31/2014	9:53	7.62	8.76
		7/31/2014	15:21	7.61	8.77
		11/24/2014	7:54	5.63	10.75
		11/24/2014	13:30	5.55	10.83
		2/23/2015	9:41	5.74	10.64
		2/23/2015	15:44	5.74	10.64
		5/21/2015	8:24	6.87	9.51
		5/21/2015	15:14	6.86	9.52
		8/25/2015	9:10	8.01	8.37
		8/25/2015	16:41	8.02	8.36
		11/20/2015	9:44	5.24	11.14
		11/20/2015	16:20	5.25	11.13
		1/5/2016	8:29	5.14	11.24
		1/6/2016	17:20	5.16	11.22

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Table 2-1
Groundwater Elevation Measurements
5900 West Marginal Way Site
Seattle, Washington

Well ID	Measuring Point Elevation <i>ft-amsl</i>	Date	Time	Depth to Groundwater <i>ft-toc</i>	Groundwater Elevation <i>ft-amsl</i>
		4/25/2016	8:12	6.35	10.03
		4/25/2016	15:03	6.32	10.06
		7/28/2016	8:05	7.69	8.69
		7/28/2016	15:00	7.65	8.73
		1/17/2017	10:01	5.44	10.94
		1/17/2017	15:34	5.30	11.08
		8/24/2017	8:19	7.51	8.87
		8/24/2017	14:45	7.49	8.89
		1/4/2018	8:35	4.94	11.44
		1/4/2018	14:14	4.92	11.46
MW-14D	16.48	11/28/2011	8:15	10.13	6.35
		1/25/2012	9:35	9.75	6.73
		4/24/2012	9:43	10.58	5.90
		7/19/2012	9:56	12.01	4.47
		7/19/2012	15:00	13.58	2.90
		11/5/2012	8:52	10.95	5.53
		11/5/2012	13:35	10.57	5.91
		1/22/2013	8:38	10.83	5.65
		1/22/2013	13:25	10.14	6.34
		5/6/2013	9:15	13.07	3.41
		5/6/2013	12:04	13.08	3.40
		5/6/2013	NR	11.08	5.40
		11/7/2013	9:23	10.14	6.34
		11/7/2013	15:04	10.58	5.90
		2/4/2014	8:44	10.11	6.37
		2/4/2014	15:03	12.67	3.81
		5/2/2014	8:18	9.94	6.54
		5/2/2014	15:02	14.05	2.43
		7/31/2014	9:25	10.91	5.57
		7/31/2014	15:33	13.37	3.11
		11/24/2014	7:50	10.21	6.27
		11/24/2014	13:27	10.72	5.76
		2/23/2015	9:12	10.04	6.44
		2/23/2015	15:46	13.60	2.88
		5/21/2015	8:21	9.99	6.49
		5/21/2015	15:10	14.34	2.14
		8/25/2015	9:08	13.99	2.49
		8/25/2015	16:39	10.88	5.60
		11/20/2015	9:42	11.35	5.13
		11/20/2015	16:29	11.01	5.47
		1/5/2016	8:37	10.17	6.31
		1/5/2016	14:08	9.05	7.43
		4/25/2016	8:16	10.26	6.22
		4/25/2016	15:03	13.91	2.57
		7/28/2016	8:09	14.03	2.45
		7/28/2016	15:10	11.38	5.10
		1/17/2017	10:03	9.17	7.31
		1/17/2017	16:28	11.04	5.44
		8/24/2017	8:22	10.29	6.19
		8/24/2017	14:40	13.68	2.80
		1/4/2018	8:31	9.91	6.57
		1/4/2018	14:11	10.70	5.78
MW-16S	13.80	3/23/2009	9:51	2.09	11.71
		6/25/2009	9:54	4.08	9.72
		10/7/2009	9:34	4.82	8.98
		1/28/2010	9:25	1.64	12.16
		4/26/2010	7:28	2.19	11.61
		8/5/2010	8:47	4.47	9.33
		10/25/2010	11:23	0.82	12.98
		4/25/2011	9:42	1.75	12.05
		7/14/2011	10:10	4.15	9.65
		11/28/2011	9:19	1.02	12.78
		10/28/2011	9:17	4.53	9.27
		1/25/2012	10:13	0.40	13.40
		4/24/2012	11:32	1.75	12.05
		7/19/2012	12:24	3.96	9.84
		11/5/2012	11:57	0.99	12.81
		1/22/2013	11:30	2.10	11.70
		5/6/2013	12:43	2.13	11.67
		11/7/2013	11:39	2.13	11.67
		2/4/2014	9:42	1.67	12.13
		5/2/2014	8:55	1.93	11.87
		7/31/2014	12:23	4.58	9.22
		11/24/2014	8:41	0.94	12.86

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Table 2-1
Groundwater Elevation Measurements
5900 West Marginal Way Site
Seattle, Washington

Well ID	Measuring Point Elevation <i>ft-amsl</i>	Date	Time	Depth to Groundwater <i>ft-toc</i>	Groundwater Elevation <i>ft-amsl</i>
		2/23/2015	11:14	1.85	11.95
		5/21/2015	12:52	3.87	9.93
		8/25/2015	12:52	4.83	8.97
		11/20/2015	10:15	0.63	13.17
		1/5/2016	9:29	1.41	12.39
		4/25/2016	11:02	2.62	11.18
		7/28/2016	NR	4.69	9.11
		1/17/2017	10:56	1.91	11.89
		8/24/2017	9:08	4.56	9.24
		1/4/2018	9:23	1.03	12.77
MW-17S	16.24	3/23/2009	7:59	4.92	11.32
		6/25/2009	10:27	6.53	9.71
		10/7/2009	8:57	7.42	8.82
		1/28/2010	10:12	4.40	11.84
		4/26/2010	9:14	4.90	11.34
		8/5/2010	10:09	6.93	9.31
		10/25/2010	9:44	5.05	11.19
		4/25/2011	9:55	4.73	11.51
		7/14/2011	10:32	6.62	9.62
		11/28/2011	8:40	4.69	11.55
		10/28/2011	9:32	7.18	9.06
		1/25/2012	10:21	3.81	12.43
		4/24/2012	10:57	4.63	11.61
		7/19/2012	11:56	6.43	9.81
		11/5/2012	11:25	4.68	11.56
		1/22/2013	10:51	4.85	11.39
		5/6/2013	13:14	4.99	11.25
		11/7/2013	12:18	5.63	10.61
		2/4/2014	9:09	4.61	11.63
		5/2/2014	10:35	4.70	11.54
		7/31/2014	13:09	7.04	9.20
		11/24/2014	11:22	4.08	12.16
		2/23/2015	14:48	4.85	11.39
		5/21/2015	11:51	6.34	9.90
		8/25/2015	11:51	7.35	8.89
		11/20/2015	13:27	3.57	12.67
		1/5/2016	11:40	4.19	12.05
		4/25/2016	10:21	5.39	10.85
		7/28/2016	NR	7.15	9.09
		1/17/2017	12:44	4.52	11.72
		8/24/2017	11:15	7.07	9.17
		1/4/2018	12:22	3.87	12.37
MW-18S	17.21	3/23/2009	8:56	6.97	10.24
		6/25/2009	11:27	8.71	8.50
		10/7/2009	11:11	9.72	7.49
		1/28/2010	12:26	7.41	9.80
		4/26/2010	10:05	8.38	8.83
		8/5/2010	10:43	9.32	7.89
		10/25/2010	10:41	6.61	10.60
		4/25/2011	10:13	7.95	9.26
		7/14/2011	10:47	8.96	8.25
		11/28/2011	9:00	7.10	10.11
		10/28/2011	9:55	9.71	7.50
		1/25/2012	12:37	5.55	11.66
		4/24/2012	10:43	7.84	9.37
		7/19/2012	11:40	8.79	8.42
		11/5/2012	11:09	6.42	10.79
		1/22/2013	10:40	7.76	9.45
		5/6/2013	13:28	8.15	9.06
		11/7/2013	12:42	5.37	11.84
		2/4/2014	11:25	8.14	9.07
		5/2/2014	10:18	7.86	9.35
		7/31/2014	9:16	9.22	7.99
		11/24/2014	11:44	6.22	10.99
		2/23/2015	13:13	7.52	9.69
		5/21/2015	11:41	8.49	8.72
		8/25/2015	11:41	9.46	7.75
		11/20/2015	13:05	7.25	9.96
		1/5/2016	11:26	6.73	10.48
		4/25/2016	11:45	7.71	9.50
		7/28/2016	NR	9.23	7.98
		1/17/2017	11:43	7.17	10.04
		8/24/2017	10:11	9.00	8.21
		1/4/2018	12:02	6.91	10.30

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Table 2-1
Groundwater Elevation Measurements
5900 West Marginal Way Site
Seattle, Washington

Well ID	Measuring Point Elevation <i>ft-amsl</i>	Date	Time	Depth to Groundwater <i>ft-toc</i>	Groundwater Elevation <i>ft-amsl</i>
MW-19S	16.84	3/23/2009	9:01	7.04	9.80
		6/25/2009	12:17	7.75	9.09
		10/7/2009	10:56	8.73	8.11
		1/28/2010	12:40	6.26	10.58
		4/26/2010	9:43	7.03	9.81
		8/5/2010	10:37	8.17	8.67
		10/25/2010	11:05	8.08	8.76
		4/25/2011	10:04	6.71	10.13
		7/14/2011	10:39	7.89	8.95
		11/28/2011	8:55	8.04	8.80
		10/28/2011	9:42	8.64	8.20
		1/25/2012	12:31	6.75	10.09
		4/24/2012	10:51	6.67	10.17
		7/19/2012	11:48	7.71	9.13
		11/5/2012	11:14	8.04	8.80
		1/22/2013	10:46	6.59	10.25
		5/6/2013	13:21	6.94	9.90
		11/7/2013	12:30	7.67	9.17
		2/4/2014	11:21	7.02	9.82
		5/2/2014	10:28	6.68	10.16
		7/31/2014	9:28	8.14	8.70
		11/24/2014	8:15	6.74	10.10
		2/23/2015	14:32	6.44	10.40
		5/21/2015	8:41	7.55	9.29
		8/25/2015	8:41	8.54	8.30
		11/20/2015	13:20	6.54	10.30
		1/5/2016	11:36	5.84	11.00
		4/25/2016	11:51	6.99	9.85
		7/28/2016	NR	8.27	8.57
		1/17/2017	11:51	6.19	10.65
		8/24/2017	10:00	8.13	8.71
		1/4/2018	12:10	5.91	10.93
MW-20S	17.46	3/23/2009	9:05	8.21	9.25
		6/25/2009	11:55	8.75	8.71
		10/7/2009	11:19	9.84	7.62
		1/28/2010	12:18	7.37	10.09
		4/26/2010	9:58	8.44	9.02
		8/5/2010	10:54	9.41	8.05
		10/25/2010	10:35	9.30	8.16
		4/25/2011	10:19	7.95	9.51
		7/14/2011	10:54	8.93	8.53
		11/28/2011	9:04	9.02	8.44
		10/28/2011	10:04	9.64	7.82
		1/25/2012	12:40	7.80	9.66
		4/24/2012	12:27	7.79	9.67
		7/19/2012	13:17	8.77	8.69
		11/5/2012	13:00	9.10	8.36
		1/22/2013	12:16	7.61	9.85
		5/6/2013	13:29	8.07	9.39
		11/7/2013	12:49	8.61	8.85
		2/4/2014	9:34	8.04	9.42
		2/4/2014	15:53	8.05	9.41
		5/2/2014	9:17	7.77	9.69
		5/2/2014	16:05	7.80	9.66
		7/31/2014	10:49	9.10	8.36
		7/31/2014	16:36	9.21	8.25
		11/24/2014	8:57	7.82	9.64
		11/24/2014	14:28	7.75	9.71
		2/23/2015	10:18	7.28	10.18
		2/23/2015	16:48	7.29	10.17
		5/21/2015	9:16	8.39	9.07
		5/21/2015	16:05	8.39	9.07
		8/25/2015	10:20	9.38	8.08
		8/25/2015	17:44	9.38	8.08
		11/20/2015	10:42	7.64	9.82
		11/20/2015	17:35	7.68	9.78
		1/5/2016	11:23	6.80	10.66
		1/5/2016	14:12	6.79	10.67
		4/25/2016	9:16	7.96	9.50
		4/25/2016	15:58	7.98	9.48
		7/28/2016	9:13	9.20	8.26
		7/28/2016	16:05	9.16	8.30
		1/17/2017	11:12	7.06	10.40
		1/17/2017	16:42	6.97	10.49

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Table 2-1
Groundwater Elevation Measurements
5900 West Marginal Way Site
Seattle, Washington

Well ID	Measuring Point Elevation <i>ft-amsl</i>	Date	Time	Depth to Groundwater <i>ft-toc</i>	Groundwater Elevation <i>ft-amsl</i>
		8/24/2017	9:24	8.97	8.49
		8/24/2017	15:30	8.98	8.48
		1/4/2018	9:35	6.88	10.58
		1/4/2018	15:14	6.90	10.56
MW-20D	17.21	2/4/2014	9:33	11.27	5.94
		2/4/2014	15:52	12.68	4.53
		5/2/2014	9:20	10.87	6.34
		5/2/2014	16:07	13.38	3.83
		7/31/2014	10:25	11.79	5.42
		7/31/2014	16:33	13.19	4.02
		11/24/2014	8:52	11.59	5.62
		11/24/2014	14:25	11.26	5.95
		2/23/2015	10:11	11.13	6.08
		2/23/2015	16:46	13.15	4.06
		5/21/2015	9:21	10.98	6.23
		5/21/2015	16:10	13.63	3.58
		8/25/2015	10:17	13.55	3.66
		8/25/2015	17:41	11.75	5.46
		11/20/2015	10:40	11.90	5.31
		11/20/2015	17:29	11.66	5.55
		1/5/2016	9:39	10.76	6.45
		1/5/2016	15:08	10.04	7.17
		4/25/2016	9:16	11.12	6.09
		4/25/2016	16:03	13.44	3.77
		7/28/2016	9:09	13.66	3.55
		7/28/2016	16:10	12.19	5.02
		1/17/2017	11:09	10.44	6.77
		1/17/2017	17:28	11.22	5.99
		8/24/2017	9:22	11.31	5.90
		8/24/2017	15:40	13.31	3.90
		1/4/2018	9:31	11.03	6.18
		1/4/2018	15:11	11.21	6.00
MW-21S	17.22	3/23/2009	9:15	7.04	10.18
		6/25/2009	11:33	7.78	9.44
		10/7/2009	11:45	8.75	8.47
		1/28/2010	12:01	6.25	10.97
		4/26/2010	9:35	6.95	10.27
		8/5/2010	10:22	8.19	9.03
		10/25/2010	10:00	8.07	9.15
		4/25/2011	10:26	6.63	10.59
		7/14/2011	11:00	7.88	9.34
		11/28/2011	9:42	7.99	9.23
		10/28/2011	10:11	8.64	8.58
		1/25/2012	12:55	6.67	10.55
		4/24/2012	12:40	6.52	10.70
		7/19/2012	13:12	7.69	9.53
		11/5/2012	12:54	7.96	9.26
		1/22/2013	12:08	6.44	10.78
		5/6/2013	13:41	6.83	10.39
		11/7/2013	12:58	7.66	9.56
		2/4/2014	9:24	6.95	10.27
		5/2/2014	9:52	6.58	10.64
		7/31/2014	9:35	8.16	9.06
		11/24/2014	8:26	6.75	10.47
		2/23/2015	14:23	6.31	10.91
		5/21/2015	11:11	7.52	9.70
		8/25/2015	11:11	8.55	8.67
		11/20/2015	12:52	6.53	10.69
		1/5/2016	11:10	5.77	11.45
		4/25/2016	11:26	6.90	10.32
		7/28/2016	NR	8.27	8.95
		1/17/2017	11:58	6.14	11.08
		8/24/2017	10:44	8.16	9.06
		1/4/2018	11:48	5.90	11.32
MW-22S	16.79	3/23/2009	9:22	6.11	10.68
		6/25/2009	12:03	7.12	9.67
		10/7/2009	8:45	8.04	8.75
		1/28/2010	11:41	5.39	11.40
		4/26/2010	9:21	5.96	10.83
		8/5/2010	10:15	7.76	9.03
		10/25/2010	9:52	6.96	9.83
		4/25/2011	10:34	5.70	11.09
		7/14/2011	11:07	7.18	9.61
		11/28/2011	9:36	6.76	10.03

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Table 2-1
Groundwater Elevation Measurements
5900 West Marginal Way Site
Seattle, Washington

Well ID	Measuring Point Elevation <i>ft-amsl</i>	Date	Time	Depth to Groundwater <i>ft-toc</i>	Groundwater Elevation <i>ft-amsl</i>
		10/28/2011	10:18	7.83	8.96
		1/25/2012	11:16	5.60	11.19
		4/24/2012	12:50	5.58	11.21
		7/19/2012	13:07	6.97	9.82
		11/5/2012	12:46	6.72	10.07
		1/22/2013	12:00	5.57	11.22
		5/6/2013	13:49	5.91	10.88
		11/7/2013	13:12	6.75	10.04
		2/4/2014	9:16	6.00	10.79
		5/2/2014	9:44	5.68	11.11
		7/31/2014	14:29	7.50	9.29
		11/24/2014	12:08	5.64	11.15
		2/23/2015	14:02	5.53	11.26
		5/21/2015	11:02	6.83	9.96
		8/25/2015	11:02	7.88	8.91
		11/20/2015	12:48	5.38	11.41
		1/5/2016	11:04	4.95	11.84
		4/25/2016	11:32	6.05	10.74
		7/28/2016	NR	7.61	9.18
		1/17/2017	12:05	5.33	11.46
		8/24/2017	10:50	7.56	9.23
		1/4/2018	11:54	5.05	11.74
MW-23S	16.72	3/23/2009	9:40	6.41	10.31
		6/25/2009	11:45	7.10	9.62
		10/7/2009	11:38	8.13	8.59
		1/28/2010	11:49	5.65	11.07
		4/26/2010	9:28	6.34	10.38
		8/5/2010	10:29	7.52	9.20
		10/25/2010	10:09	7.52	9.20
		4/25/2011	10:46	5.98	10.74
		7/14/2011	11:16	7.21	9.51
		11/28/2011	9:53	7.40	9.32
		10/28/2011	10:34	8.00	8.72
		1/25/2012	13:01	6.02	10.70
		4/24/2012	12:57	5.82	10.90
		7/19/2012	13:29	7.02	9.70
		11/5/2012	13:15	7.40	9.32
		1/22/2013	12:30	5.69	11.03
		5/6/2013	14:28	6.17	10.55
		11/7/2013	13:39	7.11	9.61
		2/4/2014	11:40	6.37	10.35
		5/2/2014	10:01	5.92	10.80
		7/31/2014	14:17	7.49	9.23
		11/24/2014	11:55	6.23	10.49
		2/23/2015	14:17	5.66	11.06
		5/21/2015	11:24	6.84	9.88
		8/25/2015	11:24	7.91	8.81
		11/20/2015	12:41	5.91	10.81
		1/5/2016	11:00	5.13	11.59
		4/25/2016	11:18	6.23	10.49
		7/28/2016	NR	7.59	9.13
		1/17/2017	12:15	5.56	11.16
		8/24/2017	10:56	7.54	9.18
		1/4/2018	11:17	5.30	11.42
MW-24S	16.78	3/23/2009	9:09	7.87	8.91
		6/25/2009	11:39	8.42	8.37
		10/7/2009	11:31	9.50	7.28
		1/28/2010	12:12	7.05	9.73
		4/26/2010	9:51	8.07	8.71
		8/5/2010	10:49	9.04	7.74
		10/25/2010	10:18	8.95	7.83
		4/25/2011	10:40	7.58	9.20
		7/14/2011	11:22	8.57	8.21
		11/28/2011	9:48	8.73	8.05
		10/28/2011	10:28	9.33	7.45
		1/25/2012	12:46	7.52	9.26
		4/24/2012	12:34	7.38	9.40
		7/19/2012	13:23	8.41	8.37
		11/5/2012	13:08	8.82	7.96
		1/22/2013	12:21	7.20	9.58
		5/6/2013	14:41	7.67	9.11
		11/7/2013	NR	8.34	8.44
		2/4/2014	11:32	7.75	9.03
		5/2/2014	10:08	7.40	9.38

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Table 2-1
Groundwater Elevation Measurements
5900 West Marginal Way Site
Seattle, Washington

Well ID	Measuring Point Elevation <i>ft-amsl</i>	Date	Time	Depth to Groundwater <i>ft-toc</i>	Groundwater Elevation <i>ft-amsl</i>
		7/31/2014	9:46	8.83	7.95
		11/24/2014	11:48	7.54	9.24
		2/23/2015	13:25	7.07	9.71
		5/21/2015	9:23	8.08	8.70
		8/25/2015	9:23	9.07	7.71
		11/20/2015	13:09	7.43	9.35
		1/5/2016	11:18	6.47	10.31
		4/25/2016	11:40	7.59	9.19
		7/28/2016	NR	8.84	7.94
		1/17/2017	11:36	6.81	9.97
		8/24/2017	10:38	8.73	8.05
		1/4/2018	11:37	6.58	10.20
MW-26S	16.62	3/23/2009	10:03	8.01	8.61
		6/25/2009	12:37	8.50	8.13
		10/7/2009	10:16	9.45	7.17
		1/28/2010	13:02	7.15	9.47
		4/26/2010	10:39	8.22	8.40
		8/5/2010	11:13	9.15	7.47
		10/25/2010	10:53	8.95	7.67
		4/25/2011	8:36	7.82	8.80
		7/14/2011	9:09	8.76	7.86
		11/28/2011	8:00	8.83	7.79
		10/28/2011	8:20	9.53	7.09
		1/25/2012	9:10	7.61	9.01
		4/24/2012	10:21	7.73	8.89
		7/19/2012	11:26	8.61	8.01
		11/5/2012	11:00	8.95	7.67
		1/22/2013	13:02	7.70	8.92
		5/6/2013	11:26	8.10	8.52
		11/7/2013	11:02	8.84	7.78
		2/4/2014	11:53	8.11	8.51
		5/2/2014	12:26	7.76	8.86
		7/31/2014	11:18	9.11	7.51
		11/24/2014	9:39	7.77	8.85
		2/23/2015	13:48	7.54	9.08
		5/21/2015	10:47	8.40	8.22
		8/25/2015	10:47	9.39	7.23
		11/20/2015	11:46	7.60	9.02
		1/5/2016	12:09	6.98	9.64
		4/25/2016	13:07	8.05	8.57
		7/28/2016	NR	9.19	7.43
		1/17/2017	15:06	7.16	9.46
		8/24/2017	13:36	8.95	7.67
		1/4/2018	11:10	7.00	9.62
MW-27S	16.58	3/23/2009	10:12	11.54	5.04
		6/25/2009	12:44	11.26	5.32
		10/7/2009	10:10	12.12	4.46
		1/28/2010	12:58	10.15	6.43
		4/26/2010	10:35	11.81	4.77
		8/5/2010	11:09	12.33	4.25
		10/25/2010	10:59	10.92	5.66
		4/25/2011	8:47	11.13	5.45
		7/14/2011	9:15	11.26	5.32
		11/28/2011	7:55	11.24	5.34
		10/28/2011	8:24	12.12	4.46
		1/25/2012	9:00	10.39	6.19
		4/24/2012	10:28	10.86	5.72
		7/19/2012	11:20	11.66	4.92
		11/5/2012	10:52	11.25	5.33
		1/22/2013	13:07	11.24	5.34
		5/6/2013	11:28	12.09	4.49
		11/7/2013	11:11	11.44	5.14
		2/4/2014	12:09	11.13	5.45
		5/2/2014	12:56	11.31	5.27
		7/31/2014	11:12	11.59	4.99
		11/24/2014	9:32	11.07	5.51
		2/23/2015	13:40	11.53	5.05
		5/21/2015	10:44	10.87	5.71
		8/25/2015	10:44	12.11	4.47
		11/20/2015	11:42	11.33	5.25
		1/5/2016	12:05	10.52	6.06
		4/25/2016	13:54	11.63	4.95
		7/28/2016	NR	12.38	4.20
		1/17/2017	14:58	10.68	5.90

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Table 2-1
Groundwater Elevation Measurements
5900 West Marginal Way Site
Seattle, Washington

Well ID	Measuring Point Elevation <i>ft-amsl</i>	Date	Time	Depth to Groundwater <i>ft-toc</i>	Groundwater Elevation <i>ft-amsl</i>
		8/24/2017	13:30	11.19	5.39
		1/4/2018	11:03	10.74	5.84
MW-28S	14.41	11/28/2011	10:06	1.96	12.45
		1/25/2012	10:51	1.22	13.19
		4/24/2012	11:54	2.18	12.23
		7/19/2012	12:38	4.06	10.35
		11/5/2012	12:23	1.79	12.62
		1/22/2013	11:52	2.60	11.81
		5/6/2013	14:06	3.19	11.22
		11/7/2013	13:20	2.86	11.55
		2/4/2014	10:18	2.64	11.77
		5/2/2014	12:04	2.62	11.79
		7/31/2014	11:44	4.68	9.73
		11/24/2014	10:22	2.22	12.19
		2/23/2015	11:02	2.77	11.64
		5/21/2015	10:34	4.98	9.43
		8/25/2015	10:34	4.87	9.54
		11/20/2015	11:56	1.61	12.80
		1/5/2016	10:36	2.00	12.41
		4/25/2016	8:52	2.36	12.05
		7/28/2016	NR	4.62	9.79
		1/17/2017	14:12	2.37	12.04
		8/24/2017	12:27	4.64	9.77
		1/4/2018	10:46	1.81	12.60
MW-29S	13.06	11/28/2011	9:30	0.85	12.21
		1/25/2012	10:46	*	*
		4/24/2012	11:45	1.56	11.50
		7/19/2012	12:32	3.25	9.81
		11/5/2012	12:15	0.35	12.71
		1/22/2013	11:43	1.85	11.21
		5/6/2013	12:22	2.34	10.72
		11/7/2013	11:24	2.20	10.86
		2/4/2014	10:32	1.83	11.23
		5/2/2014	11:57	1.78	11.28
		7/31/2014	11:55	3.90	9.16
		11/24/2014	10:10	0.82	12.24
		2/23/2015	10:56	1.91	11.15
		5/21/2015	10:23	3.21	9.85
		8/25/2015	10:23	4.09	8.97
		11/20/2015	12:04	0.33	12.73
		1/5/2016	10:30	1.28	11.78
		4/25/2016	10:48	2.01	11.05
		7/28/2016	NR	3.82	9.24
		1/17/2017	13:55	1.70	11.36
		8/24/2017	12:20	3.88	9.18
		1/4/2018	10:10	0.81	12.25
MW-30S	12.15	11/28/2011	7:01	2.27	9.88
		1/25/2012	10:38	1.56	10.59
		4/24/2012	8:02	2.67	9.48
		7/19/2012	8:49	3.56	8.59
		11/5/2012	9:10	2.25	9.90
		1/22/2013	9:12	2.84	9.31
		5/6/2013	9:54	3.16	8.99
		11/7/2013	8:36	3.49	8.66
		2/4/2014	10:40	2.72	9.43
		5/2/2014	11:50	2.58	9.57
		7/31/2014	12:06	4.15	8.00
		11/24/2014	10:02	2.31	9.84
		2/23/2015	11:46	2.59	9.56
		5/21/2015	10:15	3.57	8.58
		8/25/2015	10:15	4.45	7.70
		11/20/2015	12:25	1.34	10.81
		1/5/2016	10:20	2.26	9.89
		4/25/2016	10:41	3.09	9.06
		7/28/2016	NR	4.16	7.99
		1/17/2017	13:45	2.23	9.92
		8/24/2017	12:15	3.67	8.48
		1/4/2018	10:04	1.02	11.13
MW-31S	14.15	11/28/2011	7:05	4.62	9.53
		1/25/2012	10:25	4.13	10.02
		4/24/2012	8:07	5.04	9.11
		7/19/2012	8:59	5.79	8.36
		11/5/2012	9:16	1.37	12.78
		1/22/2013	9:18	5.37	8.78

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Table 2-1
Groundwater Elevation Measurements
5900 West Marginal Way Site
Seattle, Washington

Well ID	Measuring Point Elevation <i>ft-amsl</i>	Date	Time	Depth to Groundwater <i>ft-toc</i>	Groundwater Elevation <i>ft-amsl</i>
		5/6/2013	9:59	5.44	8.71
		11/7/2013	9:06	5.67	8.48
		2/4/2014	8:00	5.00	9.15
		2/4/2014	14:17	9.00	5.15
		5/2/2014	7:23	5.05	9.10
		5/2/2014	14:07	5.08	9.07
		7/31/2014	8:54	6.41	7.74
		7/31/2014	15:11	6.43	7.72
		11/24/2014	7:23	4.81	9.34
		11/24/2014	12:53	4.82	9.33
		2/23/2015	11:40	5.02	9.13
		2/23/2015	15:12	5.02	9.13
		5/21/2015	7:53	7.88	6.27
		5/21/2015	14:27	7.87	6.28
		8/25/2015	12:08	6.75	7.40
		8/25/2015	16:00	6.73	7.42
		11/20/2015	12:16	4.02	10.13
		11/20/2015	15:45	4.03	10.12
		1/5/2016	10:03	4.96	9.19
		1/5/2016	13:07	4.95	9.20
		4/25/2016	7:42	5.60	8.55
		4/25/2016	14:29	5.60	8.55
		7/28/2016	7:35	6.44	7.71
		7/28/2016	14:30	6.49	7.66
		1/17/2017	15:48	4.64	9.51
		8/24/2017	8:45	6.07	8.08
		8/24/2017	16:03	6.07	8.08
		1/4/2018	10:25	3.97	10.18
		1/4/2018	14:00	3.94	10.21
MW-31D	14.23	2/4/2014	7:56	6.02	8.21
		2/4/2014	14:16	12.08	2.15
		5/2/2014	7:21	6.77	7.46
		5/2/2014	14:08	14.23	0.00
		7/31/2014	8:45	8.07	6.16
		7/31/2014	14:58	12.67	1.56
		11/24/2014	7:13	6.42	7.81
		11/24/2014	12:49	8.85	5.38
		2/23/2015	8:36	6.41	7.82
		2/23/2015	15:10	13.37	0.86
		5/21/2015	7:41	6.72	7.51
		5/21/2015	14:30	14.64	-0.41
		8/25/2015	8:45	13.69	0.54
		8/25/2015	16:02	7.53	6.70
		11/20/2015	9:01	9.32	4.91
		11/20/2015	15:51	4.11	10.12
		1/5/2016	7:55	8.05	6.18
		1/5/2016	13:30	6.04	8.19
		4/25/2016	7:38	7.20	7.03
		4/25/2016	14:25	13.83	0.40
		7/28/2016	7:33	13.74	0.49
		7/28/2016	14:28	8.43	5.80
		1/17/2017	9:28	5.59	8.64
		1/17/2017	15:48	9.72	4.51
		8/24/2017	7:46	6.88	7.35
		8/24/2017	14:00	13.37	0.86
		1/4/2018	7:53	5.85	8.38
		1/4/2018	13:28	8.92	5.31
MW-32S	15.35	11/28/2011	10:02	4.07	11.28
		1/25/2012	11:08	3.08	12.27
		4/24/2012	12:08	3.33	12.02
		7/19/2012	12:53	4.99	10.36
		11/5/2012	8:23	4.10	11.25
		11/5/2012	12:30	4.09	11.26
		1/22/2013	12:46	3.49	11.86
		5/6/2013	14:10	4.01	11.34
		11/7/2013	10:35	5.17	10.18
		11/7/2013	16:16	4.85	10.50
		2/4/2014	9:56	3.95	11.40
		2/4/2014	14:22	3.95	11.40
		5/2/2014	9:28	3.61	11.74
		5/2/2014	14:15	3.59	11.76
		7/31/2014	10:31	5.60	9.75
		7/31/2014	16:38	5.63	9.72

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Table 2-1
Groundwater Elevation Measurements
5900 West Marginal Way Site
Seattle, Washington

Well ID	Measuring Point Elevation <i>ft-amsl</i>	Date	Time	Depth to Groundwater <i>ft-toc</i>	Groundwater Elevation <i>ft-amsl</i>
		11/24/2014	9:09	4.82	10.53
		11/24/2014	14:30	4.84	10.51
		2/23/2015	10:32	3.61	11.74
		2/23/2015	16:56	3.60	11.75
		5/21/2015	9:36	4.88	10.47
		5/21/2015	16:25	4.88	10.47
		8/25/2015	15:42	6.01	9.34
		8/25/2015	17:58	6.01	9.34
		11/20/2015	10:53	3.24	12.11
		11/20/2015	17:30	3.24	12.11
		1/5/2016	9:52	3.12	12.23
		1/5/2016	15:16	3.11	12.24
		4/25/2016	9:26	3.95	11.40
		4/25/2016	16:12	3.93	11.42
		7/28/2016	9:22	5.62	9.73
		7/28/2016	16:15	8.89	6.46
		1/17/2017	11:20	3.50	11.85
		1/17/2017	15:26	4.55	10.80
		8/24/2017	9:35	5.71	9.64
		8/24/2017	15:45	5.73	9.62
		1/4/2018	9:43	3.08	12.27
		1/4/2018	15:19	3.06	12.29
MW-32DR	15.35	1/25/2012	11:05	9.76	5.59
		4/24/2012	12:14	10.02	5.33
		7/19/2012	10:39	10.42	4.93
		7/19/2012	14:32	11.96	3.39
		11/5/2012	8:28	10.58	4.77
		11/5/2012	13:24	9.42	5.93
		1/22/2013	8:54	9.69	5.66
		1/22/2013	13:36	9.19	6.16
		5/6/2013	9:29	10.58	4.77
		5/6/2013	12:15	11.29	4.06
		5/6/2013	NR	10.32	5.03
		11/7/2013	10:33	9.50	5.85
		11/7/2013	16:14	9.21	6.14
		2/4/2014	9:54	9.32	6.03
		2/4/2014	14:20	10.76	4.59
		5/2/2014	9:26	8.97	6.38
		5/2/2014	14:16	11.53	3.82
		7/31/2014	10:35	9.86	5.49
		7/31/2014	16:43	11.31	4.04
		11/24/2014	9:03	9.48	5.87
		11/24/2014	14:35	9.43	5.92
		2/23/2015	10:23	9.27	6.08
		2/23/2015	16:56	11.34	4.01
		5/21/2015	9:32	9.10	6.25
		5/21/2015	16:20	11.79	3.56
		8/25/2015	10:27	11.45	3.90
		8/25/2015	17:55	9.91	5.44
		11/20/2015	10:50	10.17	5.18
		11/20/2015	17:39	9.69	5.66
		1/5/2016	9:49	8.96	6.39
		1/5/2016	15:19	8.18	7.17
		4/25/2016	9:27	9.31	6.04
		4/25/2016	16:13	11.55	3.80
		7/28/2016	9:20	11.80	3.55
		7/28/2016	16:20	10.38	4.97
		1/17/2017	11:17	8.63	6.72
		1/17/2017	17:38	9.37	5.98
		8/24/2017	9:32	9.40	5.95
		8/24/2017	15:50	11.43	3.92
		1/4/2018	9:40	9.23	6.12
		1/4/2018	15:21	9.38	5.97
MW-33S	15.00	11/28/2011	7:16	4.23	10.77
		1/25/2012	11:31	3.90	11.10
		4/24/2012	8:21	5.03	9.97
		7/19/2012	9:22	6.23	8.77
		11/5/2012	9:51	4.45	10.55
		1/22/2013	9:37	5.21	9.79
		5/6/2013	10:17	5.48	9.52
		11/7/2013	9:53	5.93	9.07
		2/4/2014	10:53	4.77	10.23
		5/2/2014	11:33	7.08	7.92
		7/31/2014	14:00	6.97	8.03

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Table 2-1
Groundwater Elevation Measurements
5900 West Marginal Way Site
Seattle, Washington

Well ID	Measuring Point Elevation <i>ft-amsl</i>	Date	Time	Depth to Groundwater <i>ft-toc</i>	Groundwater Elevation <i>ft-amsl</i>
		11/24/2014	10:50	4.10	10.90
		2/23/2015	11:51	5.18	9.82
		5/21/2015	12:15	6.23	8.77
		8/25/2015	12:15	7.39	7.61
		11/20/2015	10:06	4.19	10.81
		1/5/2016	13:06	4.91	10.09
		4/25/2016	12:26	5.74	9.26
		7/28/2016	NR	7.10	7.90
		1/17/2017	13:30	4.97	10.03
		8/24/2017	11:25	6.70	8.30
		1/4/2018	12:30	4.29	10.71
MW-34S	13.93	11/28/2011	9:23	1.35	12.58
		1/25/2012	10:21	0.85	13.08
		4/24/2012	11:37	2.13	11.80
		7/19/2012	12:25	4.23	9.70
		11/5/2012	12:05	1.37	12.56
		1/22/2013	11:40	2.48	11.45
		5/6/2013	12:30	2.85	11.08
		11/7/2013	11:34	3.02	10.91
		2/4/2014	10:47	2.00	11.93
		5/2/2014	8:46	2.21	11.72
		7/31/2014	12:16	4.91	9.02
		11/24/2014	8:50	1.42	12.51
		2/23/2015	11:20	2.48	11.45
		5/21/2015	12:58	4.17	9.76
		8/25/2015	12:58	7.20	6.73
		11/20/2015	10:21	0.80	13.13
		1/5/2016	9:31	1.77	12.16
		4/25/2016	11:40	3.05	10.88
		7/28/2016	NR	4.91	9.02
		1/17/2017	11:02	2.23	11.70
		8/24/2017	12:35	4.78	9.15
		1/4/2018	9:20	1.30	12.63
MW-35S	14.06	11/28/2011	7:11	3.92	10.14
		1/25/2012	10:31	3.55	10.51
		4/24/2012	8:13	4.55	9.51
		7/19/2012	9:11	5.45	8.61
		11/5/2012	9:44	3.97	10.09
		1/22/2013	9:25	4.85	9.21
		5/6/2013	10:12	4.95	9.11
		11/7/2013	9:45	5.18	8.88
		2/4/2014	8:07	4.36	9.70
		2/4/2014	16:15	4.38	9.68
		5/2/2014	7:34	4.58	9.48
		5/2/2014	16:15	4.60	9.46
		7/31/2014	8:58	6.20	7.86
		7/31/2014	15:02	6.20	7.86
		11/24/2014	7:15	3.97	10.09
		11/24/2014	12:40	3.96	10.10
		2/23/2015	11:31	4.64	9.42
		2/23/2015	15:09	4.64	9.42
		5/21/2015	8:03	5.58	8.48
		5/21/2015	14:38	5.58	8.48
		8/25/2015	11:59	6.56	7.50
		8/25/2015	16:11	6.57	7.49
		11/20/2015	12:25	3.55	10.51
		11/20/2015	16:10	3.56	10.50
		1/5/2016	9:58	4.46	9.60
		1/5/2016	13:05	4.43	9.63
		4/25/2016	7:45	5.12	8.94
		4/25/2016	14:27	5.11	8.95
		7/28/2016	7:37	6.26	7.80
		7/28/2016	14:34	6.30	7.76
		1/17/2017	10:35	4.49	9.57
		1/17/2017	15:20	4.33	9.73
		8/24/2017	8:40	5.90	8.16
		8/24/2017	16:09	5.89	8.17
		1/4/2018	10:30	3.58	10.48
		1/4/2018	14:03	3.58	10.48
MW-35D	14.05	2/4/2014	8:04	6.37	7.68
		2/4/2014	16:13	11.55	2.50
		5/2/2014	7:30	6.84	7.21
		5/2/2014	16:13	13.61	0.44
		7/31/2014	8:49	8.05	6.00

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Table 2-1
Groundwater Elevation Measurements
5900 West Marginal Way Site
Seattle, Washington

Well ID	Measuring Point Elevation <i>ft-amsl</i>	Date	Time	Depth to Groundwater <i>ft-toc</i>	Groundwater Elevation <i>ft-amsl</i>
		7/31/2014	14:53	12.20	1.85
		11/24/2014	7:19	6.70	7.35
		11/24/2014	12:45	8.61	5.44
		2/23/2015	8:33	6.82	7.23
		2/23/2015	15:08	12.82	1.23
		5/21/2015	7:47	6.87	7.18
		5/21/2015	14:33	14.00	0.05
		8/25/2015	8:48	13.15	0.90
		8/25/2015	16:09	7.65	6.40
		11/20/2015	9:00	9.08	4.97
		11/20/2015	15:49	8.65	5.40
		1/5/2016	7:59	7.85	6.20
		1/5/2016	13:28	6.05	8.00
		4/25/2016	7:36	7.23	6.82
		4/25/2016	14:23	13.30	0.75
		7/28/2016	7:31	13.21	0.84
		7/28/2016	14:32	8.48	5.57
		1/17/2017	9:26	5.76	8.29
		1/17/2017	15:50	9.30	4.75
		8/24/2017	7:44	6.98	7.07
		8/24/2017	14:05	12.86	1.19
		1/4/2018	7:51	6.16	7.89
		1/4/2018	13:31	8.67	5.38
MW-36S	17.30	4/24/2012	13:01	5.72	11.58
		7/19/2012	12:58	7.21	10.09
		11/5/2012	12:38	7.05	10.25
		1/22/2013	12:40	5.69	11.61
		5/6/2013	14:21	6.24	11.06
		11/7/2013	13:32	7.31	9.99
		2/4/2014	10:03	6.42	10.88
		5/2/2014	9:36	5.51	11.79
		7/31/2014	14:39	7.81	9.49
		11/24/2014	12:03	6.29	11.01
		2/23/2015	14:10	5.75	11.55
		5/21/2015	11:29	7.06	10.24
		8/25/2015	11:29	8.26	9.04
		11/20/2015	12:34	5.72	11.58
		1/5/2016	10:52	5.26	12.04
		4/25/2016	8:40	6.36	10.94
		7/28/2016	NR	7.86	9.44
		1/17/2017	12:27	5.66	11.64
		8/24/2017	11:02	7.88	9.42
		1/4/2018	11:21	5.38	11.92
MW-38D	13.88	2/4/2014	9:39	7.52	6.36
		2/4/2014	15:58	9.88	4.00
		5/2/2014	8:40	7.35	6.53
		5/2/2014	15:25	11.11	2.77
		7/31/2014	10:05	8.31	5.57
		7/31/2014	16:13	10.45	3.43
		11/24/2014	8:33	7.69	6.19
		11/24/2014	14:05	8.09	5.79
		2/23/2015	9:53	7.58	6.30
		2/23/2015	16:26	10.74	3.14
		5/21/2015	9:01	7.46	6.42
		5/21/2015	15:50	11.41	2.47
		8/25/2015	12:35	10.06	3.82
		8/25/2015	17:20	8.27	5.61
		11/20/2015	10:18	8.72	5.16
		11/20/2015	17:09	8.50	5.38
		1/5/2016	9:19	7.57	6.31
		1/5/2016	14:46	6.53	7.35
		4/25/2016	8:56	7.70	6.18
		4/25/2016	15:43	11.04	2.84
		7/28/2016	8:49	11.15	2.73
		7/28/2016	15:51	8.80	5.08
		1/17/2017	10:42	7.81	6.07
		1/17/2017	17:08	8.28	5.60
		8/24/2017	9:04	7.78	6.10
		8/24/2017	15:21	10.73	3.15
		1/4/2018	9:14	7.39	6.49
		1/4/2018	14:49	8.04	5.84
MW-43S	16.79	2/4/2014	9:04	6.01	10.78
		2/4/2014	15:22	6.02	10.77
		5/2/2014	8:32	5.87	10.92

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Table 2-1
Groundwater Elevation Measurements
5900 West Marginal Way Site
Seattle, Washington

Well ID	Measuring Point Elevation <i>ft-amsl</i>	Date	Time	Depth to Groundwater <i>ft-toc</i>	Groundwater Elevation <i>ft-amsl</i>
		5/2/2014	15:18	5.82	10.97
		7/31/2014	10:16	7.83	8.96
		7/31/2014	16:17	7.81	8.98
		11/24/2014	8:44	6.53	10.26
		11/24/2014	14:07	5.53	11.26
		2/23/2015	10:02	5.83	10.96
		2/23/2015	16:28	5.81	10.98
		5/21/2015	8:55	7.07	9.72
		5/21/2015	15:45	7.08	9.71
		8/25/2015	14:38	8.15	8.64
		8/25/2015	17:28	8.14	8.65
		11/20/2015	10:18	5.28	11.51
		11/20/2015	17:11	5.30	11.49
		1/5/2016	8:57	5.16	11.63
		1/5/2016	14:53	5.14	11.65
		4/25/2016	9:01	6.42	10.37
		4/25/2016	15:41	6.32	10.47
		7/28/2016	8:53	7.93	8.86
		7/28/2016	15:43	7.89	8.90
		1/17/2017	9:52	5.53	11.26
		1/17/2017	16:51	5.31	11.48
		8/24/2017	9:40	7.77	9.02
		8/24/2017	15:00	7.80	8.99
		1/4/2018	9:04	5.02	11.77
		1/4/2018	14:59	5.01	11.78
MW-43D	16.74	2/4/2014	9:01	10.51	6.23
		2/4/2014	15:20	12.67	4.07
		5/2/2014	8:30	10.28	6.46
		5/2/2014	15:16	13.81	2.93
		7/31/2014	10:05	11.28	5.46
		7/31/2014	16:13	13.29	3.45
		11/24/2014	8:34	10.58	6.16
		11/24/2014	14:05	10.88	5.86
		2/23/2015	9:51	10.51	6.23
		2/23/2015	16:26	13.35	3.39
		5/21/2015	9:01	10.40	6.34
		5/21/2015	15:50	14.07	2.67
		8/25/2015	10:00	13.81	2.93
		8/25/2015	17:26	11.21	5.53
		11/20/2015	10:17	11.67	5.07
		11/20/2015	17:09	11.50	5.24
		1/5/2016	9:16	10.39	6.35
		1/5/2016	14:50	9.47	7.27
		4/25/2016	8:56	10.62	6.12
		4/25/2016	15:43	13.70	3.04
		7/28/2016	8:49	13.89	2.85
		7/28/2016	15:47	11.71	5.03
		1/17/2017	10:46	9.71	7.03
		1/17/2017	17:08	11.01	5.73
		8/24/2017	9:00	10.74	6.00
		8/24/2017	15:25	13.49	3.25
		1/4/2018	9:08	10.33	6.41
		1/4/2018	14:54	10.80	5.94
MW-45S	16.40	2/4/2014	7:51	6.44	9.96
		2/4/2014	14:10	6.43	9.97
		5/2/2014	8:11	6.33	10.07
		5/2/2014	14:56	6.18	10.22
		7/31/2014	10:57	7.87	8.53
		7/31/2014	15:16	7.89	8.51
		11/24/2014	7:37	6.12	10.28
		11/24/2014	13:03	6.12	10.28
		2/23/2015	9:48	6.23	10.17
		2/23/2015	9:50	6.23	10.17
		5/21/2015	8:06	7.18	9.22
		5/21/2015	14:48	7.17	9.23
		8/25/2015	14:45	8.28	8.12
		8/25/2015	16:30	8.29	8.11
		11/20/2015	9:15	5.79	10.61
		11/20/2015	16:00	5.81	10.59
		1/5/2016	8:20	5.63	10.77
		1/5/2016	13:53	5.62	10.78
		4/25/2016	8:11	6.72	9.68
		4/25/2016	14:37	6.67	9.73
		7/28/2016	7:58	7.98	8.42

PUBLIC REVIEW DRAFT
Table 2-1
Groundwater Elevation Measurements
5900 West Marginal Way Site
Seattle, Washington

Well ID	Measuring Point Elevation <i>ft-amsl</i>	Date	Time	Depth to Groundwater <i>ft-toc</i>	Groundwater Elevation <i>ft-amsl</i>
		7/28/2016	14:47	7.93	8.47
		1/17/2017	11:30	5.88	10.52
		8/24/2017	8:03	7.80	8.60
		8/24/2017	14:23	7.77	8.63
		1/4/2018	8:09	5.48	10.92
		1/4/2018	13:48	5.49	10.91
MW-45D	16.34	2/4/2014	7:50	10.01	6.33
		2/4/2014	14:09	12.75	3.59
		5/2/2014	8:10	9.80	6.54
		5/2/2014	14:57	14.14	2.20
		7/31/2014	9:00	10.75	5.59
		7/31/2014	15:08	13.43	2.91
		11/24/2014	7:32	10.07	6.27
		11/24/2014	13:00	10.71	5.63
		2/23/2015	8:46	9.87	6.47
		2/23/2015	15:26	13.67	2.67
		5/21/2015	8:02	9.88	6.46
		5/21/2015	14:46	14.43	1.91
		8/25/2015	9:03	14.01	2.33
		8/25/2015	16:27	10.71	5.63
		11/20/2015	9:14	11.33	5.01
		11/20/2015	16:04	10.84	5.50
		1/5/2016	8:13	10.10	6.24
		1/5/2016	13:50	8.87	7.47
		4/25/2016	7:52	10.08	6.26
		4/25/2016	14:38	14.03	2.31
		7/28/2016	7:55	14.07	2.27
		7/28/2016	14:45	11.25	5.09
		1/17/2017	9:46	8.93	7.41
		8/24/2017	8:00	10.12	6.22
		8/24/2017	14:19	13.79	2.55
		1/4/2018	8:06	9.73	6.61
		1/4/2018	13:46	10.67	5.67
Dock ^a	18.18	1/25/2012	8:33	9.71	8.47
		1/25/2012	13:17	15.06	3.12
		4/24/2012	7:55	10.83	7.35
		4/24/2012	13:22	20.85	-2.67
		7/19/2012	13:40	19.35	-1.17
		7/19/2012	15:25	14.71	3.47
		11/5/2012	8:10	10.02	8.16
		11/5/2012	13:46	12.56	5.62
		1/22/2013	8:11	12.76	5.42
		1/22/2013	13:40	11.15	7.03
		5/6/2013	8:00	17.91	0.27
		5/6/2013	11:48	16.87	1.31
		5/6/2013	15:59	10.61	7.57
		11/7/2013	8:22	8.32	9.86
		11/7/2013	13:50	13.44	4.74
		11/7/2013	16:25	10.75	7.43
		2/4/2014	7:20	7.01	11.17
		2/4/2014	12:18	15.75	2.43
		2/4/2014	16:17	14.03	4.15
		5/2/2014	7:13	9.85	8.33
		5/2/2014	11:39	18.23	-0.05
		5/2/2014	16:30	16.81	1.37
Stilling Well ^a	18.72	7/31/2014	8:10	12.06	6.66
		7/31/2014	15:35	15.35	3.37
		11/24/2014	6:50	9.03	9.69
		11/24/2014	14:47	11.72	7.00
		2/23/2015	8:05	9.11	9.61
		2/23/2015	14:52	14.52	4.20
		5/21/2015	7:15	10.31	8.41
		5/21/2015	16:30	17.87	0.85
		8/25/2015	7:15	17.75	0.97
		8/25/2015	16:30	10.98	7.74
		11/20/2015	9:10	12.14	6.58
		11/20/2015	17:51	12.12	6.60
		1/5/2016	7:30	12.91	5.81
		1/5/2016	15:29	12.02	6.70
		4/25/2016	7:34	11.31	7.41
		4/25/2016	10:30	15.79	2.93
		4/25/2016	12:55	20.75	-2.03
		4/25/2016	15:21	19.79	-1.07
		4/25/2016	16:28	17.10	1.62

PUBLIC REVIEW DRAFT
Table 2-1
Groundwater Elevation Measurements
5900 West Marginal Way Site
Seattle, Washington

Well ID	Measuring Point Elevation <i>ft-amsl</i>	Date	Time	Depth to Groundwater <i>ft-toc</i>	Groundwater Elevation <i>ft-amsl</i>
		7/28/2016	7:13	20.62	-1.90
		7/28/2016	12:14	12.14	6.58
		7/28/2016	16:25	13.70	5.02
		1/4/2018	10:35	11.97	6.75
		1/4/2018	13:20	14.11	4.61

Notes:
^a Dock and Stilling Well measurements locations: a PVC well was added to the dock in 2012. Following a large storm event in 2014, a new stilling well was installed by Gravity Consulting at the same location on the pier to support tidal measurements as well as to support completing the June 2014 tidal study.
-- = data not collected
+ = The well was repaired and resurveyed.
* = Well could not be accessed due to recharging water in the well monument.
ft-amsl = feet above mean sea level
ft-toc = feet below top of casing measuring point
NM = not measured
NR = not recorded

PUBLIC REVIEW DRAFT
Table 2-2
Vertical Gradients
5900 West Marginal Way Site
Seattle, Washington

				1/1/2017						8/1/2017						1/1/2018					
Well ID	Top of screen elevation (ft amsl)	Bottom of screen elevation (ft amsl)	Screen midpoint (ft bgs)	Water table elevation-Morning (ft amsl)	Water table elevation-Afternoon (ft amsl)	Saturated Screened Interval Midpoint Elevation - Morning (ft amsl)	Saturated Screened Interval Midpoint Elevation - Afternoon (ft amsl)	Vertical gradient - Morning (ft/ft)	Vertical gradient - Afternoon (ft/ft)	Water table elevation-Morning (ft amsl)	Water table elevation-Afternoon (ft amsl)	Saturated Screened Interval Midpoint Elevation - Morning (ft amsl)	Saturated Screened Interval Midpoint Elevation - Afternoon (ft amsl)	Vertical gradient - Morning (ft/ft)	Vertical gradient - Afternoon (ft/ft)	Water table elevation-Morning (ft amsl)	Water table elevation-Afternoon (ft amsl)	Saturated Screened Interval Midpoint Elevation - Morning (ft amsl)	Saturated Screened Interval Midpoint Elevation - Afternoon (ft amsl)	Vertical gradient - Morning (ft/ft)	Vertical gradient - Afternoon (ft/ft)
MW-01S	13.29	8.29	6.90	10.99	11.24	9.64	9.77	-0.250	-0.492	8.85	8.87	8.57	8.58	-0.19	-0.62	12.14	12.20	10.22	10.25	-0.37	-0.51
MW-01D	-0.39	-5.39	20.05	7.86	5.01	-2.89	-2.89			6.72	1.71	-2.89	-2.89			7.33	5.52	-2.89	-2.89		
MW-02S	12.37	7.37	7.55	10.82	10.88	9.10	9.87	-0.240	-0.495	8.54	8.55	7.96	9.87	-0.17	-0.66	11.54	11.56	9.87	9.87	-0.34	-0.49
MW-02D	-0.37	-5.37	20.30	7.95	4.95	-2.87	-2.87			6.74	1.45	-2.87	-2.87			7.36	5.56	-2.87	-2.87		
MW-03S	13.72	8.72	8.40	9.67	9.80	9.19	11.22	-0.207	-0.323	7.95	7.97	8.33	11.22	-0.16	-0.39	9.99	10.01	9.35	11.22	-0.29	-0.32
MW-03D	-0.69	-5.69	22.70	7.10	5.78	-3.19	-3.19			6.07	3.49	-3.19	-3.19			6.38	5.93	-3.19	-3.19		
MW-14S	12.38	5.38	7.50	10.94	11.08	8.16	8.88	-0.275	-0.425	8.87	8.89	7.12	8.88	-0.22	-0.50	11.44	11.46	8.88	8.88	-0.36	-0.42
MW-14D	-2.52	-7.52	21.50	7.31	5.44	-5.02	-5.02			6.19	2.80	-5.02	-5.02			6.57	5.78	-5.02	-5.02		
MW-20S	14.46	4.46	8.00	10.40	10.49	7.43	9.46	-0.211	-0.261	8.49	8.48	6.48	9.46	-0.16	-0.28	10.58	10.56	9.46	9.46	-0.25	-0.26
MW-20D	-7.29	-12.29	27.00	6.77	5.99	-9.79	-9.79			5.90	3.90	-9.79	-9.79			6.18	6.00	-9.79	-9.79		
MW-31S	11.15	5.15	6.00	9.35	9.51	7.25	8.15	-0.038	-0.296	8.08	8.08	6.62	8.15	-0.05	-0.45	10.18	10.21	8.15	8.15	-0.11	-0.29
MW-31D	-6.77	-11.77	23.50	8.72	4.59	-9.27	-9.27			7.35	0.86	-9.27	-9.27			8.38	5.31	-9.27	-9.27		
MW-32S	11.35	4.35	7.50	11.85	10.80	7.85	7.85	-0.321	-0.307	9.64	9.62	7.85	7.85	-0.24	-0.38	12.27	12.29	7.85	7.85	-0.38	-0.40
MW-32DR	-5.65	-10.65	23.50	6.72	5.98	-8.15	-8.15			5.95	3.92	-8.15	-8.15			6.12	5.97	-8.15	-8.15		
MW-35S	11.06	4.06	6.50	9.57	9.73	6.82	7.56	-0.077	-0.299	8.16	8.17	7.56	7.56	-0.07	-0.44	10.48	10.48	7.56	7.56	-0.15	-0.30
MW-35D	-7.25	-12.25	23.80	8.29	4.75	-9.75	-9.75			7.07	1.19	-9.75	-9.75			7.89	5.38	-9.75	-9.75		
MW-43S	12.79	4.59	8.10	11.26	11.48	7.93	8.69	-0.282	-0.381	9.02	8.99	8.69	8.69	-0.22	-0.41	11.77	11.78	8.69	8.69	-0.35	-0.38
MW-43D	-4.56	-9.56	23.80	7.03	5.73	-7.06	-7.06			6.00	3.25	-7.06	-7.06			6.41	5.94	-7.06	-7.06		
MW-45S	12.40	4.90	7.75	10.52	NM	7.71	8.65	-0.242	N/A	8.60	8.63	6.75	8.65	-0.20	-0.51	10.92	10.91	8.65	8.65	-0.33	-0.40
MW-45D	-2.66	-7.66	21.50	7.41	NM	-5.16	-5.16			6.22	2.55	-5.16	-5.16			6.61	5.67	-5.16	-5.16		

Notes:
Morning water table elevations were taken during high tide.
Afternoon water table elevations were taken during low tide.
Shallow (S) = Refers to shallow groundwater monitoring wells screened at the water table
Deep (D) = Refers to deeper groundwater at the Site
amsl = above mean sea level
bgs = below ground surface
ft = feet
NM = not measured

PUBLIC REVIEW DRAFT
Table 3-1
Summary of Monitoring Well Construction Information
5900 West Marginal Way Site
Seattle, Washington

Monitoring Well ID	Completion Date	Historical Operation Area	Measured Total Well Depth (ft btoc)	Well Construction Material	Casing Diameter (in)	Screen Slot Size (in)	Screened Interval (ft bgs)	Screen Zone Interval	Riser (ft ags)	Top of Casing Measuring Point Elevation (ft-amsl)	Ground Surface Elevation (ft-amsl)	Northing Washington State Plane NAD 83(91) ft	Easting Washington State Plane NAD 83(91) ft
MW-1S	12/6/1995	Former First PCP Pilot Plant	12.32	PVC	2	0.01	4.4–9.4	Shallow	2.5	17.69	NA	204056.54384	1267772.56387
MW-1D	12/8/1995	Former First PCP Pilot Plant	25.18	PVC	2	0.01	17.55–22.55	Deep	2.2	17.16	NA	204056.58750	1267780.48417
MW-2S	12/6/1995	Former Washwater Impoundment Area	12.37	PVC	2	0.01	5.05–10.05	Shallow	1.9	17.42	NA	203897.54374	1267750.17664
MW-2D	12/6/1995	Former Washwater Impoundment Area	25.00	PVC	2	0.01	17.8–22.8	Deep	1.8	17.43	NA	203927.36169	1267779.32250
MW-3S	12/8/1995	General Southern Area	13.41	PVC	2	0.01	5.9–10.9	Shallow	2.2	19.62	NA	203661.20996	1267565.26400
MW-3D	12/6/1995	General Southern Area	27.61	PVC	2	0.01	20.2–25.2	Deep	2.2	19.51	NA	203662.55602	1267574.28418
MW-4S	12/6/1995	Former Second PCP Pilot Plant/Pentachlorophenate Process Area	12.60	PVC	2	0.01	5–10	Shallow	2.5	18.81	NA	204047.96657	1267528.70925
MW-5S	4/10/1996	Former First PCP Pilot Plant	12.77	PVC	2	0.01	5–10	Shallow	2.6	18.42	NA	204055.92275	1267646.61849
MW-6S	4/10/1996	Former Pentachlorophenate Process Area	12.45	PVC	2	0.01	5–10	Shallow	2.0	18.50	NA	204004.58908	1267611.92486
MW-7S	4/10/1996	Former Pentachlorophenate Process Area	12.55	PVC	2	0.01	5–10	Shallow	2.0	18.50	NA	204020.49534	1267574.41961
MW-10S	10/13/1998	Former Washwater Impoundment Area	10.37	PVC	2	0.01	3–10	Shallow	0.0	15.51	NA	203965.45545	1267785.06206
MW-11S	10/13/1998	Former Washwater Impoundment Area	9.9	PVC	2	0.01	3–10	Shallow	0.0	16.01*	16.21	203930.852	1267732.306
MW-12S	10/13/1998	Former Washwater Impoundment Area	11.22	PVC	2	0.01	4.5–11.5	Shallow	0.0	15.92	NA	203908.83835	1267687.31078
MW-13S	10/13/1998	Former Washwater Impoundment Area	10.7	PVC	2	0.01	4.5–11.5	Shallow	0.0	15.95	NA	203845.60548	1267712.70978
MW-14S	10/13/1998	General Southern Area	10.87	PVC	2	0.01	4–11	Shallow	0.0	16.38	NA	203812.11685	1267609.88790
MW-14D	11/14/2011	General Southern Area	23.45	PVC	2	0.01	19–24	Deep	0.0	16.48	16.94	203810.58000	1267604.15700
MW-16S	10/13/1998	Former Second PCP Pilot Plant/Pentachlorophenate Process Area	9.96	PVC	2	0.01	3–10	Shallow	0.0	13.80	NA	204080.65296	1267549.20703
MW-17S	10/14/1998	General Southern Area	11.5	PVC	2	0.01	4.5–11.5	Shallow	0.0	16.24	NA	203954.60493	1267530.00292
MW-18S	10/14/1998	General Southern Area	10.3	PVC	2	0.01	3–13	Shallow	0.0	17.21	NA	203677.06233	1267468.56680
MW-19S	10/14/1998	General Southern Area	9.11	PVC	2	0.01	3–13	Shallow	0.0	16.84	NA	203766.18777	1267478.08281
MW-20S	10/14/1998	General Southern Area	9.98	PVC	2	0.01	3–13	Shallow	0.0	17.46	NA	203671.59840	1267364.59998
MW-20D	1/17/2014	General Southern Area	29.66	PVC	2	0.01	24.5–29.5	Deep	0.0	17.21	17.55	203664.190	1267363.413
MW-21S	10/14/1998	General Southern Area	13.53	PVC	2	0.01	3–13	Shallow	0.0	17.22	NA	203807.20569	1267353.70698
MW-22S	7/22/2003	General Southern Area	15.05	PVC	2	0.01	5–15	Shallow	0.0	16.79	NA	203878.42265	1267354.09852
MW-23S	7/22/2003	General Southern Area	15.41	PVC	2	0.01	5–15	Shallow	0.0	16.72	NA	203793.38141	1267222.11951
MW-24S	7/22/2003	General Southern Area	15.06	PVC	2	0.01	5–15	Shallow	0.0	16.78	NA	203673.20066	1267247.14526
MW-26S	7/22/2003	General Southern Area	15.15	PVC	2	0.01	5–15	Shallow	0.0	16.62	NA	203644.99716	1267602.70357
MW-27S	7/22/2003	General Southern Area	15.07	PVC	2	0.01	5–15	Shallow	0.0	16.58	NA	203644.72154	1267742.00960
MW-28S	11/10/2011	Historical Army Operations, Duwamish Shipyard	8.56	PVC	2	0.01	3–9	Shallow	0.0	14.41	14.71	204331.271	1267205.032
MW-29S	11/11/2011	Historical Army Operations, Duwamish Shipyard	8.55	PVC	2	0.01	3–9	Shallow	0.0	13.06	13.73	204330.024	1267507.117
MW-30S	11/14/2011	Historical Army Operations, Duwamish Shipyard	6.48	PVC	2	0.01	3–7	Shallow	0.0	12.15	12.63	204324.182	1267832.083
MW-31S	11/10/2011	Historical Army Operations, Duwamish Shipyard	8.61	PVC	2	0.01	3–9	Shallow	0.0	14.15	14.53	204239.862	1267927.964
MW-31D	1/22/2014	Historical Army Operations, Duwamish Shipyard	26.08	PVC	2	0.01	21–26	Deep	0.0	14.23	14.52	204238.979	1267933.202
MW-32S	11/11/2011	Western Portion of the Site	10.78	PVC	2	0.01	4–11	Shallow	0.0	15.35	15.81	204071.093	1267150.058
MW-32DR	2/22/2012	Western Portion of the Site	25.58	PVC	2	0.01	21–26	Deep	0.0	15.35	15.82	204076.862	1267152.185
MW-33S	11/14/2011	Eastern Portion	10.48	PVC	2	0.01	4–11	Shallow	0.0	15.00	15.72	204024.709	1267862.874
MW-34S	11/10/2011	Former First PCP Pilot Plant	10.01	PVC	2	0.01	3.5–10.5	Shallow	0.0	13.93	14.45	204116.604	1267597.096
MW-35S	11/10/2011	Former North Ditch, Historical Army Operations	9.61	PVC	2	0.01	3–10	Shallow	0.0	14.06	14.45	204167.254	1267892.288
MW-35D	1/23/2014	Former North Ditch, Historical Army Operations	26.21	PVC	2	0.01	21.3–26.3	Deep	0.0	14.05	14.45	204155.720	1267896.014
MW-36S	2/22/2012	Western Portion of the Site	13.24	PVC	2	0.01	4–13	Shallow	0.0	17.30	17.56	203899.905	1267144.892
MW-38D	1/23/2014	Former Second PCP Pilot Plant/Pentachlorophenate Process Area	24.5	PVC	2	0.01	19.5–24.5	Deep	0.0	13.88	14.21	204075.648	1267516.932
MW-43S	1/20/2014	General Southern Area	12.2	PVC	2	0.01	4–12.2	Shallow	0.0	16.79	17.12	203859.533	1267514.251
MW-43D	1/21/2014	General Southern Area	26.45	PVC	2	0.01	21.3–26.3	Deep	0.0	16.74	17.03	203859.748	1267522.778
MW-45S	1/16/2014	General Southern Area	11.3	PVC	2	0.01	4–11.5	Shallow	0.0	16.40	16.67	203746.405	1267671.423
MW-45D	1/17/2014	General Southern Area	24.1	PVC	2	0.01	19–24	Deep	0.0	16.34	16.69	203742.356	1267678.086

Notes:
* Well was repaired and resurveyed in January 2014. All subsequent elevation measurements are based on this new elevation.
Shallow (S) = Refers to shallow groundwater monitoring wells screened at the water table
Deep (D) = Refers to deeper groundwater at the Site
bgs = below ground surface
btoc = below top of casing
ft = feet
ft ags = feet above ground surface
ft-amsl = feet above mean sea level
in = inches
NA = information not available
NAD = North American Vertical Datum
PVC = polyvinylchloride

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Table 4-1

Saturated and Unsaturated Soil Screening Levels

5900 West Marginal Way Site

Seattle, Washington

Analyte	Vadose Zone Soil SLs (Most Stringent LDW pCUL Soil - Vadose Zone, Potable Water)	Saturated Zone SLs (Most Stringent LDW pCUL Soil - Saturated Zone, Potable Water)
Metals (mg/kg)		
Arsenic	7	7
Chromium	48	48
Chromium, hexavalent	18	0.93
Copper	36	36
Zinc	86	85
Antimony	5	0.27
Barium	100	8.3
Beryllium	10	3.2
Cadmium	1	1
Lead	50	50
Mercury	0.07	0.07
Nickel	48	48
Selenium	0.3	0.26
Silver	0.32	0.016
Thallium	0.088	0.0044
Tributyltin	0.0021	0.0021
Volatile Organic Compounds (µg/kg)		
1,1,1,2-Tetrachloroethane	38000	38000
1,1,1-Trichloroethane	1500	84
1,1,2,2-Tetrachloroethane	1.2	0.08
1,1,2-Trichloroethane	5	0.33
1,1-Dichloroethane	41	2.6
1,1-Dichloroethene	44	2.4
1,1-Dichloropropene	--	--
1,2,3-Trichlorobenzene	20000	20000
1,2,3-Trichloropropane	33	33
1,2,4-Trimethylbenzene	800000	800000
1,2-Dibromo-3-chloropropane	1300	1300
1,2-Dichloroethane	23	1.6
1,2-Dichloropropane	16	1
1,3-Dichloropropane	--	--
1,3,5-Trimethylbenzene	800000	800000
2,2-Dichloropropane	--	--
2-Butanone	--	--
2-Chloroethyl Vinyl Ether	--	--
2-Hexanone	400000	400000
2-Phenylbutane	--	--
4-Chlorotoluene	--	--

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Table 4-1

Saturated and Unsaturated Soil Screening Levels

5900 West Marginal Way Site

Seattle, Washington

Analyte	Vadose Zone Soil SLs (Most Stringent LDW pCUL Soil - Vadose Zone, Potable Water)	Saturated Zone SLs (Most Stringent LDW pCUL Soil - Saturated Zone, Potable Water)
4-Methyl-2-Pentanone	--	--
Acetone	29000	2100
Acrolein	40000	40000
Acrylonitrile	1900	1900
Benzene	8.8	0.56
Bromobenzene	640000	640000
Bromodichloromethane	14	0.96
Bromoform	78	5
Carbon disulfide	5000	270
Carbon tetrachloride	2.9	0.15
Chlorobenzene	860	51
Chlorobromomethane	--	--
Chloroethane	--	--
Chloroform	74	4.8
cis-1,2-Dichloroethene	78	5.2
cis-1,3-Dichloropropene	2.3	0.14
Cumene	--	--
Cymene	--	--
Dibromochloromethane	12	0.77
Dibromomethane	800000	800000
Ethyl bromide	--	--
Ethylbenzene	260	15
Ethylene dibromide	0.27	0.018
Freon 11	--	--
Freon 113	--	--
m,p Xylenes	--	--
Methyl bromide	50	3.3
Methyl chloride	--	--
Methyl iodide	--	--
Methyl tert-butyl ether	100	7.2
Methylene chloride	21	1.5
n-Butylbenzene	--	--
n-Propylbenzene	--	--
o-Chlorotoluene	--	--
o-Xylene	14000	840
Styrene	2200	120
tert-Butylbenzene	--	--
Tetrachloroethene	29	1.6
Toluene	920	55

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Table 4-1

Saturated and Unsaturated Soil Screening Levels

5900 West Marginal Way Site

Seattle, Washington

Analyte	Vadose Zone Soil SLs (Most Stringent LDW pCUL Soil - Vadose Zone, Potable Water)	Saturated Zone SLs (Most Stringent LDW pCUL Soil - Saturated Zone, Potable Water)
trans-1,2-Dichloroethene	520	32
trans-1,3-Dichloropropene	2.3	0.14
trans-1,4-Dichlorobutene	--	--
Trichloroethene	4.4	0.27
Vinyl acetate	33000	2300
Vinyl chloride	1	0.055
Total Petroleum Hydrocarbons (mg/kg)		
Gasoline Range Organics	30	30
Diesel Range Organics	260	260
Motor Oil Range Organics	2000	2000
TPH-DRO/MORO	260	260
Semi-Volatile Organic Compounds (µg/kg)		
Pentachlorophenol	0.032	0.0018
2,3,4,6-Tetrachlorophenol	4600	270
2,4,5-Trichlorophenol	4000	1100
2,4,6-Trichlorophenol	3.3	0.19
2,4-Dichlorophenol	69	4.3
2-Chlorophenol	200	11
Phenol	420	120
Hexachlorobenzene	0.008	0.0004
1,2,4-Trichlorobenzene	1.4	0.072
1,2-Dichlorobenzene	36	3.1
1,3-Dichlorobenzene	--	--
2,2'-oxybis(1-Chloropropane)	--	--
1,4-Dichlorobenzene	110	8.1
2,4-Dimethylphenol	29	3.1
2,4-Dinitrophenol	130	9.2
2,4-Dinitrotoluene	1.1	0.069
2,6-Dinitrotoluene	0.31	0.021
2-Chloronaphthalene	--	--
2-Nitroaniline	800000	800000
2-Nitrophenol	--	--
3,3'-Dichlorobenzidine	0.061	0.0033
3-Nitroaniline	--	--
4-Bromophenyl phenyl ether	--	--
4-Chloro-3-methylphenol	--	--
4-Chlorophenyl phenyl ether	--	--
4-Nitrophenol	7000	7000
Benzoic acid	650	170

PUBLIC REVIEW DRAFT

Table 4-1

Saturated and Unsaturated Soil Screening Levels

5900 West Marginal Way Site

Seattle, Washington

Analyte	Vadose Zone Soil SLs (Most Stringent LDW pCUL Soil - Vadose Zone, Potable Water)	Saturated Zone SLs (Most Stringent LDW pCUL Soil - Saturated Zone, Potable Water)
Benzyl alcohol	57	57
Benzyl butyl phthalate	3.6	0.18
Bis(2-Chloroethoxy)methane	--	--
Bis(2-ethylhexyl)phthalate	100	5.1
Carbazole	--	--
Dibutyl Phthalate	280	15
Dichloroethyl ether	0.22	0.014
Diethyl Phthalate	200	34
Dimethylphthalate	71	71
Dinitro-o-cresol	--	--
Di-n-octyl phthalate	6200	330
Hexachloroethane	0.79	0.041
Hexachlorocyclopentadiene	4000	200
Hexachlorobutadiene	11	0.54
Isophorone	230	15
Nitrobenzene	100	6.5
n-Nitrosodi-n-propylamine	0.056	0.0039
n-Nitrosodiphenylamine	21	1.1
o-Cresol	63	10
p-Chloroaniline	1.2	0.077
p-Cresol	670	670
p-Nitroaniline	--	--
Polycyclic Aromatic Hydrocarbons (µg/kg)		
1-Methylnaphthalene	29000	29000
2-Methylnaphthalene	670	670
Acenaphthene	500	28
Acenaphthylene	1300	1300
Anthracene	960	51
Benzo(a)anthracene	1.1	0.057
Benzo(a)pyrene	0.31	0.016
Benzo(a)fluoranthene(s) (total)	3200	3200
Benzo(g,h,i)perylene	670	670
Chrysene	130	6.4
Dibenzo(a,h)anthracene	0.57	0.029
Dibenzofuran	540	540
Fluoranthene	1700	90
Fluorene	540	29
Indeno(1,2,3-cd)pyrene	11	0.56
Naphthalene	39	2.1

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Table 4-1

Saturated and Unsaturated Soil Screening Levels

5900 West Marginal Way Site

Seattle, Washington

Analyte	Vadose Zone Soil SLs (Most Stringent LDW pCUL Soil - Vadose Zone, Potable Water)	Saturated Zone SLs (Most Stringent LDW pCUL Soil - Saturated Zone, Potable Water)
Phenanthrene	1500	1500
Pyrene	2600	140
Carcinogenic PAH TEQ (ND=1/2DL)	0.31	0.016
Polychlorinated Biphenyls (µg/kg)		
Aroclor 1016	--	--
Aroclor 1221	--	--
Aroclor 1232	--	--
Aroclor 1242	--	--
Aroclor 1248	--	--
Aroclor 1254	--	--
Aroclor 1260	--	--
Total Aroclors (ND = 0)	0.043	0.0022
Dioxins/Furans (pg/g)		
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	13	13
Dioxin/Furan Calculated TEQ (ND=1/2 DL)	5.2	5.2

Notes:

The Washington State Department of Ecology Lower Duwamish Waterway April 2019 pCUL Workbook was used as the source of screening levels.

-- = not applicable, no value available.

LDW = Lower Duwamish Waterway

pCUL = Primary cleanup level; the pCULs as referenced in the Ecology LDW Workbook dated April 2019 were used for screening level purposes.

Vadose Zone SLs are the most stringent LDW pCULs for vadose zone soil where groundwater is considered potable.

Saturated Zone SLs are the most stringent LDW pCULs for saturated zone soil where groundwater is considered potable.

Carcinogenic PAH TEQ (ND = 1/2 DL) = Toxicity Equivalency Quotient set to benzo(a)pyrene where non-detected compounds are equal to one-half the method detection limit.

Dioxin Furan Calculated TEQ (ND = 1/2 DL) = Toxicity Equivalency Quotient set to 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) where non-detected compounds are equal to one-half the method detection limit.

mg/kg = milligrams per kilogram

pg/g = picograms per gram

SL = Screening Level

Total Aroclors (ND = 0) = sum of total aroclors where non-detect compounds are set to zero

TPH-DRO/MORO = combined diesel-range and motor oil-range organics total petroleum hydrocarbons

µg/kg = micrograms per kilogram

PUBLIC REVIEW DRAFT**Table 4-2****Groundwater Screening Levels****5900 West Marginal Way Site****Seattle, Washington**

Analyte	Groundwater SLs (Most Stringent LDW pCUL - Groundwater Potable Water)
Metals (µg/L)	
Arsenic	8
Chromium	100
Chromium,hexavalent	48
Copper	3.1
Zinc	81
Antimony	6
Beryllium	4
Cadmium	1.2
Lead	8.1
Mercury	0.025
Nickel	8.2
Selenium	50
Silver	1.9
Thallium	0.062
Tributyltin	0.0074
Volatile Organic Compounds (µg/L)	
1,1,1,2-Tetrachloroethane	1.7
1,1,1-Trichloroethane	200
1,1,2,2-Tetrachloroethane	0.22
1,1,2-Trichloroethane	0.9
1,1-Dichloroethane	7.7
1,1-Dichloroethene	7
1,1-Dichloropropene	--
1,2,3-Trichlorobenzene	--
1,2,3-Trichloropropane	0.0015
1,2,4-Trimethylbenzene	80
1,2-Dibromo-3-chloropropane	0.2
1,2-Dichloroethane	4.2
1,2-Dichloropropane	3.1
1,3,5-Trimethylbenzene	80
1,3-Dichloropropane	--
2,2-Dichloropropane	--
2-Butanone	4800
2-Chloroethyl Vinyl Ether	--
2-Hexanone	40
2-Phenylbutane	800
4-Chlorotoluene	--
4-Methyl-2-pentanone	640
Acetone	7200

PUBLIC REVIEW DRAFT**Table 4-2****Groundwater Screening Levels****5900 West Marginal Way Site****Seattle, Washington**

Analyte	Groundwater SLs (Most Stringent LDW pCUL - Groundwater Potable Water)
Acrolein	1.1
Acrylonitrile	0.028
Benzene	1.6
Bromobenzene	64
Bromodichloromethane	1.8
Bromoform	12
Carbon disulfide	400
Carbon tetrachloride	0.35
Chlorobenzene	100
Chlorobromomethane	--
Chloroethane	19000
Chloroform	1.2
cis-1,2-Dichloroethene	16
cis-1,3-Dichloropropene	0.44
Cumene	800
Cymene	--
Dibromochloromethane	2.2
Dibromomethane	80
Ethyl bromide	--
Ethylbenzene	31
Ethylene dibromide	0.05
Formaldehyde	1600
Freon 11	120
Freon 113	180
m,p Xylenes	1600
Methyl bromide	11
Methyl chloride	153
Methyl iodide	--
Methyl tert-butyl ether	24
Methylene chloride	5
n-Butylbenzene	400
n-Propylbenzene	800
o-Chlorotoluene	160
o-Xylene	430
Styrene	100
tert-Butylbenzene	800
Tetrachloroethene	2.9
Toluene	130
trans-1,2-Dichloroethene	100
trans-1,3-Dichloropropene	0.44

PUBLIC REVIEW DRAFT**Table 4-2****Groundwater Screening Levels****5900 West Marginal Way Site****Seattle, Washington**

Analyte	Groundwater SLs (Most Stringent LDW pCUL - Groundwater Potable Water)
trans-1,4-Dichlorobutene	--
Trichloroethene	0.7
Vinyl acetate	7808
Vinyl chloride	0.18
Total Petroleum Hydrocarbons (mg/L)	
Gasoline Range Organics	0.8
Diesel Range Organics	0.5
Motor Oil Range Organics	0.5
TPH-DRO/MORO	0.5
Semi-Volatile Organic Compounds (µg/L)	
Pentachlorophenol	0.002
2,3,4,6-Tetrachlorophenol	480
2,4,5-Trichlorophenol	600
2,4,6-Trichlorophenol	0.28
2,4-Dichlorophenol	10
2-Chlorophenol	17
Phenol	365
Hexachlorobenzene	0.000005
1,2,4-Trichlorobenzene	0.037
1,2-Dichlorobenzene	4.6
1,3-Dichlorobenzene	2
1,4-Dichlorobenzene	4.9
2,2'-oxybis(1-Chloropropane)	320
2,4-Dimethylphenol	6.3
2,4-Dinitrophenol	32
2,4-Dinitrotoluene	0.18
2,6-Dinitrotoluene	0.058
2-Chloronaphthalene	100
2-Nitroaniline	160
2-Nitrophenol	--
3,3'-Dichlorobenzidine	0.0033
3-Nitroaniline	--
4-Bromophenyl phenyl ether	--
4-Chloro-3-methylphenol	36
4-Chlorophenyl phenyl ether	--
4-Nitrophenol	--
Benzoic acid	590
Benzyl alcohol	800
Benzyl butyl phthalate	0.013
Bis(2-Chloroethoxy)methane	--

PUBLIC REVIEW DRAFT**Table 4-2****Groundwater Screening Levels****5900 West Marginal Way Site****Seattle, Washington**

Analyte	Groundwater SLs (Most Stringent LDW pCUL - Groundwater Potable Water)
Bis(2-ethylhexyl)phthalate	0.046
Carbazole	--
Dibutyl Phthalate	8
Dichloroethyl ether	0.04
Diethyl Phthalate	93
Dimethylphthalate	600
Dinitro-o-cresol	7
Di-n-octyl phthalate	0.0039
Isophorone	46
Nitrobenzene	16
n-Nitrosodi-n-propylamine	0.013
n-Nitrosodiphenylamine	0.69
o-Cresol	27
p-Chloroaniline	0.22
p-Cresol	800
p-Nitroaniline	--
Hexachloroethane	0.02
Hexachlorocyclopentadiene	1
Polycyclic Aromatic Hydrocarbons (µg/L)	
1-Methylnaphthalene	1.5
2-Methylnaphthalene	32
Acenaphthene	5.3
Acenaphthylene	--
Anthracene	2.1
Benzo(a)anthracene	0.00016
Benzo(a)Pyrene	0.000016
Benzo(a)fluoranthene(s) (Total)	--
Benzo(g,h,i)Perylene	--
Chrysene	0.016
Dibenzo(a,h)anthracene	0.000016
Dibenzofuran	16
Hexachlorobutadiene	0.01
Fluoranthene	1.8
Fluorene	3.7
Indeno(1,2,3-cd)Pyrene	0.00016
Naphthalene	1.4
Phenanthrene	--
Pyrene	2
Carcinogenic PAH TEQ (ND=1/2DL)	0.000016

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Table 4-2

**Groundwater Screening Levels
5900 West Marginal Way Site
Seattle, Washington**

Analyte	Groundwater SLs (Most Stringent LDW pCUL - Groundwater Potable Water)
Polychlorinated Biphenyls (µg/L)	
Aroclor 1016	--
Aroclor 1221	--
Aroclor 1232	--
Aroclor 1242	--
Aroclor 1248	--
Aroclor 1254	--
Aroclor 1260	--
Total Aroclors (ND = 0)	0.000007
Dioxins/Furans (pg/L)	
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	0.0051
Dioxin Furan Calculated TEQ (ND=1/2 DL)	0.0051

Notes:

The Washington State Department of Ecology Lower Duwamish Waterway April 2019 pCUL Workbook was used as the source of screening levels.

-- = no value available

LDW = Lower Duwamish Waterway

pCUL = Primary cleanup level; the pCULs as referenced in the Ecology LDW Workbook dated April 2019 were used for screening level purposes.

Groundwater SLs are the most stringent LDW pCUL values where groundwater is considered potable.

Carcinogenic PAH TEQ (ND = 1/2 DL) = Toxicity Equivalency Quotient set to benzo(a)pyrene where non-detected compounds are equal to one-half the method detection limit.

Dioxin Furan Calculated TEQ (ND = 1/2 DL) = Toxicity Equivalency Quotient set to 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) where non-detected compounds are equal to one-half the method detection limit.

mg/L = milligrams per liter

pg/L = picograms per liter

SL = Screening Level

Total Aroclors (ND = 0) = sum of total aroclors where non-detect compounds are set to zero

TPH-DRO/MORO = combined diesel-range and motor oil-range organics total petroleum hydrocarbons

µg/L = micrograms per liter

PUBLIC REVIEW DRAFT

Table 4-3

**Sediment Screening Levels
5900 West Marginal Way Site
Seattle, Washington**

Analyte	Sediment SLs (LDW pCUL - Sediment: Target Sediment Concentration: ROD CUL + SMS Lower Tier)
Metals (mg/kg)	
Arsenic	7
Chromium	260
Copper	390
Zinc	410
Antimony	87.7
Beryllium	438
Cadmium	5.1
Lead	450
Mercury	0.41
Nickel	4380
Silver	6.1
Thallium	2.19
Tributyltin	0.0021
Semi-Volatile Organic Compounds (mg/kg)	
Pentachlorophenol	0.36
2,3,4,6-Tetrachlorophenol	5070
2,4,5-Trichlorophenol	16900
2,4,6-Trichlorophenol	77.6
2-Chlorophenol	845
Phenol	0.42
Hexachlorobenzene	0.022
1,2,4-Trichlorobenzene	0.031
1,2-Dichlorobenzene	0.036
1,3-Dichlorobenzene	--
2,2'-oxybis(1-Chloropropane)	6760
Dibenzofuran	0.54
1,4-Dichlorobenzene	0.11
1,3-Dichloropropane	--
2,4-Dimethylphenol	0.029
2,4-Dichlorophenol	507
2,4-Dinitrophenol	338
2,4-Dinitrotoluene	2.75
2,6-Dinitrotoluene	0.569
2-Chloronaphthalene	13500
2-Nitroaniline	1690

PUBLIC REVIEW DRAFT**Table 4-3****Sediment Screening Levels
5900 West Marginal Way Site
Seattle, Washington**

Analyte	Sediment SLs (LDW pCUL - Sediment: Target Sediment Concentration: ROD CUL + SMS Lower Tier)
2-Nitrophenol	--
3,3'-Dichlorobenzidine	1.9
4-Bromophenyl phenyl ether	--
4-Chloro-3-methylphenol	--
4-Chlorophenyl-phenylether	--
4-Nitrophenol	--
Benzoic acid	0.65
Benzyl alcohol	0.057
Benzyl butyl phthalate	0.063
Bis(2-Chloroethoxy)methane	--
Bis(2-ethylhexyl)phthalate	1.3
Carbazole	--
Dibutyl Phthalate	1.4
Dichloroethyl ether	0.776
Diethyl Phthalate	0.2
Dimethylphthalate	0.071
Dinitro-o-cresol	--
Di-n-octyl phthalate	6.2
Hexachloroethane	21.3
Hexachlorocyclopentadiene	1010
Hexachlorobutadiene	0.011
Isophorone	898
Nitrobenzene	338
n-Nitrosodi-n-propylamine	0.122

PUBLIC REVIEW DRAFT**Table 4-3****Sediment Screening Levels
5900 West Marginal Way Site
Seattle, Washington**

Analyte	Sediment SLs (LDW pCUL - Sediment: Target Sediment Concentration: ROD CUL + SMS Lower Tier)
n-Nitrosodiphenylamine	0.028
o-Cresol	0.063
p-Chloroaniline	4.27
p-Cresol	0.67
p-Nitroaniline	--
Polycyclic Aromatic Hydrocarbons (mg/kg)	
1-Methylnaphthalene	29.4
2-Methylnaphthalene	0.67
Acenaphthene	0.5
Acenaphthylene	1.3
Anthracene	0.96
Benzo(a)anthracene	1.3
Benzo(a)pyrene	1.6
Benzo(a)fluoranthene(s) (total)	3.2
Benzo(g,h,i)Perylene	0.67
Chrysene	1.4
Dibenzo(a,h)anthracene	0.23
Fluoranthene	1.7
Fluorene	0.54
Indeno(1,2,3-cd)Pyrene	0.6
Naphthalene	2.1
Phenanthrene	1.5
Pyrene	2.6
Carcinogenic PAH TEQ (ND=1/2DL)	0.09
High Molecular Weight PAHs, Total	12
Low Molecular Weight PAHs, Total	5.2
Polychlorinated Biphenyls (mg/kg)	
Aroclor 1016	--
Aroclor 1221	--
Aroclor 1232	--
Aroclor 1242	--
Aroclor 1248	--
Aroclor 1254	--
Aroclor 1260	--
Total Aroclors (ND = 0)	0.128

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Table 4-3

**Sediment Screening Levels
5900 West Marginal Way Site
Seattle, Washington**

Analyte	Sediment SLs (LDW pCUL - Sediment: Target Sediment Concentration: ROD CUL + SMS Lower Tier)
Dioxins/Furans (pg/g)	
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	--
Dioxin Furan Calculated TEQ (ND=1/2 DL)	2

Notes:

The Washington State Department of Ecology Lower Duwamish Waterway April 2019 pCUL Workbook was used as the source of screening levels.

-- = not applicable, no value provided

LDW = Lower Duwamish Waterway

pCUL = Primary cleanup level; the pCULs as referenced for the Target Sediment Concentration in the Ecology LDW Workbook dated April 2019 were used for screening level purposes.

Sediment SLs are the LDW pCUL Target Sediment Concentration: Minimum ROD CUL + SMS Lower Tier. Carcinogenic PAH TEQ (ND = 1/2 DL) = Toxicity Equivalency Quotient set to benzo(a)pyrene where non-detected compounds are equal to one-half the method detection limit.

Tetrachlorodibenzo-p-dioxin (TCDD) where non-detected compounds are equal to one-half the method detection limit.

mg/kg = milligrams per kilogram

PAH = polycyclic aromatic hydrocarbons

pg/g = picograms per gram

SL = Screening Level

Total Aroclors (ND = 0) = sum of total aroclors where non-detect compounds are set to zero

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Table 4-4
COPC Selection Process for Vadose Zone Soil
5900 West Marginal Way Site
Seattle, Washington

Analyte	Vadose Zone SLs (Most Stringent Soil pCUL, Vadose Zone, Potable GW)	PQL ¹	Minimum PQL	Maximum PQL	Sample Count	Maximum Detection	Sample Statistics					Elimination Criteria			
							Number of Exceedances, Detected	Number of Exceedances, Not Detected (PQL > SL)	Exceedance Frequency (%)	Maximum Exceedance Factor	Detected SL Exceedances > =1	Detected in Other Media	SL < PQL	Retained as COPC?	
Metals (mg/kg)															
Antimony	5	0.2	0.2	0.3	4							No	Yes	No	No
Arsenic	7	0.2	0.2	10	58	1290	40	4	69	184	Yes	Yes	No	Yes	
Barium	100	0.3	0.3	0.7	10	67.5				0.675	No	Yes	No	No	No
Beryllium	10	0.1	0.2	0.3	4	0.5				0.05	No	Yes	No	No	No
Cadmium	1	0.1	0.1	0.2	8	0.3				0.3	No	Yes	No	No	No
Chromium	48	0.5	0.5	50	31	167	2	1	6.45	3.48	Yes	Yes	No	Yes	
Chromium, VI	18	0.1	0.410	2.10	15	173	2		13.3	9.61	Yes	Yes	No	Yes	
Copper	36	0.2	0.2	20	33	337000	25		75.8	9360	Yes	Yes	No	Yes	
Lead	50	0.1	0.1	0.2	10	34.3				0.686	No	Yes	No	No	No
Mercury	0.07	0.025	0.02	0.04	10	0.12	3		30	1.71	Yes	Yes	No	Yes	
Nickel	48	0.5	1	2	10	39				0.812	No	Yes	No	No	No
Selenium	0.3	0.5	0.5	0.7	4			4			No	Yes	Yes	No	No
Silver	0.32	0.2	0.3	1	27	4.1	5	11	18.5	12.8	Yes	Yes	No	Yes	
Thallium	0.088	0.2	0.2	0.3	4			4			No	No	Yes	No	No
Tributyltin	0.0021	0.00386	0.0032	0.0036	4	0.019	2	1	50	9.05	Yes	Yes	Yes	Yes	
Zinc	86	1	1	100	33	208	10		30.3	2.42	Yes	Yes	No	Yes	
Volatile Organic Compounds (µg/kg)															
					0										
1,1-Dichloroethane	41	1	0.6	1000	3			1			No	No	No	No	No
1,1-Dichloroethene	44	1	0.6	1000	3			1			No	No	No	No	No
1,1-Dichloropropene		1	0.6	1000	3						No	No	NA	No	No
1,1,1-Trichloroethane	1500	1	0.6	1000	3						No	No	No	No	No
1,1,1,2-Tetrachloroethane	38000	1	0.6	1000	3						No	No	No	No	No
1,1,2-Trichloroethane	5	1	0.6	1000	3			1			No	No	No	No	No
1,1,2,2-Tetrachloroethane	1.2	1	0.6	1000	3			1			No	No	No	No	No
1,2-Dibromo-3-chloropropane	1300	5	3.2	5100	3			1			No	No	No	No	No
1,2-Dichloroethane	23	1	0.6	1000	3			1			No	No	No	No	No
1,2-Dichloropropane	16	1	0.6	1000	3			1			No	No	No	No	No
1,2,3-Trichlorobenzene	20000	5	3.2	5100	3						No	No	No	No	No
1,2,3-Trichloropropane	33	2	1.3	2100	3			1			No	No	No	No	No
1,2,4-Trimethylbenzene	800000	1	0.6	1000	3	3400				0.00425	No	Yes	No	No	No
1,3-Dichloropropane		1	0.6	1000	3						No	No	NA	No	No
1,3,5-Trimethylbenzene	800000	1	0.6	1000	3	1100				0.00138	No	No	No	No	No
2-Butanone		5	3.2	5100	3	3.1					No	Yes	NA	No	No
2-Chloroethyl vinyl ether		5	3.2	5100	3						No	No	NA	No	No
2-Hexanone	400000	5	3.2	5100	3						No	No	No	No	No
2-Phenylbutane		1	0.6	1000	3						No	No	NA	No	No
2,2-Dichloropropane		1	0.6	1000	3						No	No	NA	No	No
4-Chlorotoluene		1	0.6	1000	3						No	No	NA	No	No
4-Methyl-2-pentanone		5	3.2	5100	3						No	No	NA	No	No
Acetone	29000	5	3.2	5100	3	6000				0.207	No	Yes	No	No	No
Acrolein	40000	50	32	51000	3						No	No	No	No	No

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Table 4-4
COPC Selection Process for Vadose Zone Soil
5900 West Marginal Way Site
Seattle, Washington

Sample Statistics											Elimination Criteria			
Analyte	Vadose Zone SLs (Most Stringent Soil pCUL, Vadose Zone, Potable GW)	PQL ¹	Minimum PQL	Maximum PQL	Sample Count	Maximum Detection	Number of Exceedances, Detected	Number of Exceedances, Not Detected (PQL > SL)	Exceedance Frequency (%)	Maximum Exceedance Factor	Detected SL Exceedances > =1	Detected in Other Media	SL < PQL	Retained as COPC?
Acrylonitrile	1900	5	3.2	5100	3						No	No	No	No
Benzene	8.8	1	0.6	1000	3	4.2		1		0.477	No	Yes	No	No
Bromobenzene	640000	1	0.6	1000	3						No	No	No	No
Bromodichloromethane	14	1	0.6	1000	3			1			No	No	No	No
Bromoform	78	1	0.6	1000	3			1			No	No	No	No
Carbon disulfide	5000	1	0.6	1000	3						No	Yes	No	No
Carbon tetrachloride	2.9	1	0.6	1000	3			1			No	No	No	No
Chlorobenzene	860	1	0.6	1000	3						No	No	No	No
Chlorobromomethane		1	0.6	1000	3						No	No	NA	No
Chloroethane		1	0.6	1000	3						No	No	NA	No
Chloroform	74	1	0.6	1000	3	0.8		1		0.0108	No	No	No	No
cis-1,2-Dichloroethene	78	1	0.6	1000	3			1			No	No	No	No
cis-1,3-Dichloropropene	2.3	1	0.6	1000	3			1			No	No	No	No
Cumene		1	0.6	1000	3	1100					No	No	NA	No
Cymene		1	0.6	1000	3	1200					No	Yes	NA	No
Dibromochloromethane	12	1	0.6	1000	3			1			No	No	No	No
Dibromomethane	800000	1	0.6	1000	3						No	No	No	No
Ethyl bromide		2	1.3	2100	3						No	No	NA	No
Ethylbenzene	260	1	0.6	1000	3	3300	1		33.3	12.7	Yes	Yes	No	Yes
Ethylene dibromide	0.27	1	0.6	1000	3			2			No	Yes	Yes	No
Freon 11		1	0.6	1000	3						No	No	NA	No
Freon 113		2	1.3	2100	3						No	No	NA	No
m,p Xylenes		1	0.6	2100	3	3800					No	Yes	NA	No
Methyl bromide	50	1	0.6	2100	3			1			No	Yes	No	No
Methyl chloride		1	0.6	1000	3	0.3					No	No	NA	No
Methyl iodide		1	0.6	1000	3						No	Yes	NA	No
Methyl tert-butyl ether	100	1	0.6	1000	3			1			No	No	No	No
Methylene chloride	21	2	1.3	2100	3	8200	1		33.3	390	Yes	Yes	No	Yes
n-Butylbenzene		1	0.6	1000	3						No	No	NA	No
n-Propylbenzene		1	0.6	1000	3						No	No	NA	No
o-Chlorotoluene		1	0.6	1000	3						No	No	NA	No
o-Xylene	14000	1	0.6	1000	3	2400				0.171	No	No	No	No
Styrene	2200	1	0.6	1000	3	580				0.264	No	No	No	No
tert-Butylbenzene		1	0.6	1000	3						No	No	NA	No
Tetrachloroethene	29	1	0.6	1000	3			1			No	No	No	No
Toluene	920	1	0.6	1000	3	990	1		33.3	1.08	Yes	Yes	No	Yes
trans-1,2-Dichloroethene	520	1	0.6	1000	3						No	No	No	No
trans-1,3-Dichloropropene	2.3	1	0.6	1000	3			1			No	No	No	No
trans-1,4-Dichlorobutene		5	3.2	5100	3						No	No	NA	No
Trichloroethene	4.4	1	0.6	1000	3			1			No	No	No	No
Vinyl acetate	33000	5	3.2	5100	3						No	No	No	No
Vinyl chloride	1	1	0.6	1000	3			1			No	No	No	No

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Table 4-4
COPC Selection Process for Vadose Zone Soil
5900 West Marginal Way Site
Seattle, Washington

Sample Statistics											Elimination Criteria			
Analyte	Vadose Zone SLs (Most Stringent Soil pCUL, Vadose Zone, Potable GW)	PQL ¹	Minimum PQL	Maximum PQL	Sample Count	Maximum Detection	Number of Exceedances, Detected	Number of Exceedances, Not Detected (PQL > SL)	Exceedance Frequency (%)	Maximum Exceedance Factor	Detected SL Exceedances > =1	Detected in Other Media	SL < PQL	Retained as COPC?
Total Petroleum Hydrocarbons (mg/kg)					0									
Diesel Range Organics	260	5	5.2	630	5	4900	2		40	18.8	Yes	Yes	No	Yes
Gasoline Range Organics	30	5	3.4	4.7	3	300	1		33.3	10	Yes	Yes	No	Yes
Motor Oil Range Organics	2000		10	1300	5	12000	1		20	6	Yes	Yes	No	Yes
Semivolatile Organic Compounds (µg/kg)					0									
1,2-Dichlorobenzene	36	5	18	20	3						No	Yes	No	No
1,2,4-Trichlorobenzene	1.4	5	18	20	3			3			No	Yes	Yes	No
1,3-Dichlorobenzene		1	18	20	3						No	No	NA	No
1,4-Dichlorobenzene	110	1	18	20	3						No	Yes	No	No
2-Chloronaphthalene		20	18	20	3						No	No	NA	No
2-Chlorophenol	200	20	18	290	28	180		3		0.9	No	Yes	No	No
2-Nitroaniline	800000	100	92	98	3						No	No	No	No
2,2-Oxybis(1-chloropropane)		20	18	20	3						No	No	NA	No
2,3,4,6-Tetrachlorophenol	4600	20	18	290	26	1300				0.283	No	Yes	No	No
2,4-Dichlorophenol	69	20	93	2900	28	230	1	11	3.57	3.33	Yes	Yes	No	Yes
2,4-Dimethylphenol	29	40	37	39	3						No	Yes	Yes	No
2,4-Dinitrophenol	130	850	780	830	3						No	No	Yes	No
2,4-Dinitrotoluene	1.1	100	92	98	3			3			No	No	Yes	No
2,4,5-Trichlorophenol	4000	100	89	1500	28						No	Yes	No	No
2,4,6-Trichlorophenol	3.3	100	89	1500	28	390	3	25	10.7	118	Yes	Yes	Yes	Yes
2,6-Dinitrotoluene	0.31	100	92	98	3			3			No	No	Yes	No
3-Nitroaniline		100	92	98	3						No	No	NA	No
3,3'-Dichlorobenzidine	0.061	150	140	150	3			3			No	No	Yes	No
4-Bromophenyl phenyl ether		20	18	20	3						No	No	NA	No
4-Chloro-3-methylphenol		100	92	98	3						No	No	NA	No
4-Chlorophenyl phenyl ether		20	18	20	3						No	No	NA	No
4-Nitrophenol	7000	100	92	98	3						No	No	No	No
Benzoic acid	650	400	370	390	3	130				0.2	No	Yes	No	No
Benzyl alcohol	57	20	18	20	3						No	Yes	No	No
Benzyl butyl phthalate	3.6	5	18	20	3			3			No	Yes	Yes	No
Bis(2-chloroethoxy)methane		20	18	20	3						No	No	NA	No
Bis(2-ethylhexyl)phthalate	100	25	23	24	3	18				0.18	No	Yes	No	No
Carbazole		20	18	20	3						No	Yes	NA	No
Di-n-octyl phthalate	6200	20	18	20	3						No	Yes	No	No
Dibutyl Phthalate	280	20	18	20	3						No	Yes	No	No
Dichloroethyl ether	0.22	20	18	20	3			3			No	No	Yes	No
Diethyl Phthalate	200	5	46	49	3						No	Yes	No	No
Dimethylphthalate	71	5	18	20	3						No	Yes	No	No
Dinitro-o-cresol		200	180	200	3						No	No	NA	No
Hexachlorobenzene	0.008	5	18	57	10	200	4	6	40	25000	Yes	Yes	Yes	Yes
Hexachlorobutadiene	11	5	3.2	5100	6			1			No	No	No	No
Hexachlorocyclopentadiene	4000	400	370	390	3						No	No	No	No

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Table 4-4
COPC Selection Process for Vadose Zone Soil
5900 West Marginal Way Site
Seattle, Washington

Sample Statistics											Elimination Criteria			
Analyte	Vadose Zone SLs (Most Stringent Soil pCUL, Vadose Zone, Potable GW)	PQL ¹	Minimum PQL	Maximum PQL	Sample Count	Maximum Detection	Number of Exceedances, Detected	Number of Exceedances, Not Detected (PQL > SL)	Exceedance Frequency (%)	Maximum Exceedance Factor	Detected SL Exceedances > =1	Detected in Other Media	SL < PQL	Retained as COPC?
Hexachloroethane	0.79	20	18	20	3			3			No	No	Yes	No
Isophorone	230	20	18	20	3						No	No	No	No
n-Nitrosodi-n-propylamine	0.056	20	18	20	3			3			No	No	Yes	No
n-Nitrosodiphenylamine	21	12	18	20	3						No	Yes	No	No
Nitrobenzene	100	20	18	20	3						No	No	No	No
o-Cresol	63	5	18	20	3						No	Yes	No	No
p-Chloroaniline	1.2	270	250	260	3			3			No	No	Yes	No
p-Cresol	670	10	37	39	3	390				0.582	No	Yes	No	No
p-Nitroaniline		100	92	98	3						No	No	NA	No
Pentachlorophenol	0.032	50	6.9	2900	29	7700	11	18	37.9	241000	Yes	Yes	Yes	Yes
Phenol	420	5	18	290	20	840	2		10	2	Yes	Yes	No	Yes
Polycyclic Aromatic Hydrocarbons (µg/kg)											No			
1-Methylnaphthalene	29000	5	4.4	12	4	23				0.000793	No	Yes	No	No
2-Methylnaphthalene	670	5	4.4	12	4	34				0.0507	No	Yes	No	No
Acenaphthene	500	5	4.4	12	4						No	Yes	No	No
Acenaphthylene	1300	5	4.4	12	4	7.8				0.006	No	Yes	No	No
Anthracene	960	5	4.4	12	4	8.8				0.00917	No	Yes	No	No
Benzo(a)anthracene	1.1	5	4.4	12	4	23	4		100	20.9	Yes	Yes	Yes	Yes
Benzo(a)pyrene	0.31	5	4.4	12	4	33	4		100	106	Yes	Yes	Yes	Yes
Benzo(g,h,i)perylene	670	5	4.4	12	4	35				0.0522	No	Yes	No	No
Chrysene	130	5	4.4	12	4	39				0.3	No	Yes	No	No
Dibenzo(a,h)anthracene	0.57	5	4.4	12	4	7.6	1	3	25	13.3	Yes	Yes	Yes	Yes
Dibenzofuran	540	5	4.4	12	4	12				0.0222	No	Yes	No	No
Fluoranthene	1700	5	4.4	12	4	70				0.0412	No	Yes	No	No
Fluorene	540	5	4.4	12	4	5.8				0.0107	No	Yes	No	No
Indeno(1,2,3-cd)pyrene	11	5	4.4	12	4	24	1		25	2.18	Yes	Yes	No	Yes
Naphthalene	39	5	4.4	12	4	57	1		25	1.46	Yes	Yes	No	Yes
Phenanthrene	1500	5	4.4	12	4	37				0.0247	No	Yes	No	No
Pyrene	2600	5	4.4	12	4	43				0.0165	No	Yes	No	No
Total (B+J+K) Benzofluoranthenes	3200	5	4.4	12	4	69				0.0216	No	Yes	No	No
Total Carcinogenic PAHs ND=0	0.31				4	46	4		100	148	Yes	Yes	No	Yes
Carcinogenic PAHs TEQ ND=1/2DL ²	0.31				4	46	4		100	148	Yes	Yes	No	Yes
Polychlorinated Biphenyls (µg/kg)														
Aroclor 1016		4	3.8	4.7	12		0	0	0	0	No	No	NA	No
Aroclor 1221		4	3.8	4.7	12		0	0	0	0	No	No	NA	No
Aroclor 1232		4	3.8	4.7	12		0	0	0	0	No	No	NA	No
Aroclor 1242		4	3.8	4.7	12	7.7	0	0	0	0	No	No	NA	No
Aroclor 1248		4	3.8	18	12	11.7	0	0	0	0	No	Yes	NA	No
Aroclor 1254		4	3.8	4.7	12	150	0	0	0	0	No	Yes	NA	No
Aroclor 1260		4	3.8	80	12	70	0	0	0	0	No	Yes	NA	No
Aroclors, Total (ND=0)	0.043	4			12	200	9	0	75	4650	Yes	Yes	No	Yes
Aroclors, Total (ND=0/ND=1/2 DL) ³	0.043				12	210	9	3	75	4880	Yes	Yes	No	Yes

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Table 4-4
COPC Selection Process for Vadose Zone Soil
5900 West Marginal Way Site
Seattle, Washington

Sample Statistics											Elimination Criteria			
Analyte	Vadose Zone SLs (Most Stringent Soil pCUL, Vadose Zone, Potable GW)	PQL ¹	Minimum PQL	Maximum PQL	Sample Count	Maximum Detection	Number of Exceedances, Detected	Number of Exceedances, Not Detected (PQL > SL)	Exceedance Frequency (%)	Maximum Exceedance Factor	Detected SL Exceedances > =1	Detected in Other Media	SL < PQL	Retained as COPC?
Dioxins/Furans (pg/g)														
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	13	0.05	1.85	19.8	16	23.4	2	0	12.5	1.8	Yes	Yes	No	Yes
Dioxins/Furans Calculated TEQ (ND=0)	5.2				16	9290	12	0	75	1790	Yes	Yes	No	Yes
Dioxins/Furans Calculated TEQ (ND=1/2 DL)	5.2				16	9290	12	0	75	1790	Yes	Yes	No	Yes

Notes:

The Washington State Department of Ecology Lower Duwamish Waterway April 2019 pCUL Workbook was used as the source of screening levels.

1 = Source: ERM. 2012b. Revised Final Remedial Investigation Sampling and Analysis Plan. Appendix B Revised Final Remedial Investigation and Feasibility Study Work Plan. May.

2 = Toxicity Equivalency Quotient calculations for cPAHs (WAC 173-340-200) using benzo(a)pyrene as the reference chemical.

3 = Aroclors detected in any site media assigned ND=1/2DL (Aroclor 1242, 1248, 1254, 1260). Aroclors not detected in any site media assigned ND=0 (Aroclor 1016, 1221, 1232).

COPC = Contaminant of Potential Concern

GP = Direct Push Boring

GW = groundwater

mg/kg = milligrams per kilogram

MW = Monitoring Well

NA = Not applicable.

ND = 0 = non-detect values equal to zero

ND = 1/2DL = non-detect values calculated as one-half the laboratory detection limit

PAH = polycyclic aromatic hydrocarbons

pCUL = preliminary cleanup level

pg/g = picograms per gram

PQL = Practical Quantitation Limit

S, D designation following well identification number = indicates shallow or deep monitoring well

SL = Screening Level

TB = top of riverbank boring

TEQ = Toxicity Equivalency Quotient

Vadose Soil SL = Most Stringent Soil pCUL, Vadose Soil, Potable Water

µg/kg = micrograms per kilogram

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Table 4-5
COPC Selection Process for Saturated Zone Soil
5900 West Marginal Way Site
Seattle, Washington

Analyte	Saturated Zone SLs (Most Stringent Soil pCUL, Saturated Zone, Potable GW)	PQL ¹	Minimum PQL	Maximum PQL	Total Number of Samples	Maximum Detection	Sample Statistics					Elimination Criteria			
							Number of Exceedances, Detected	Number of Exceedances, Not Detected (PQL > SL)	Exceedance Frequency (%)	Maximum Exceedance Factor	Detected SL Exceedances > =1	Detected in other Media	SL < PQL	Retained as COPC?	
Metals (mg/kg)															
Antimony	0.27	0.2	0.2	5	59	0.8	1	19	1.69	2.96	Yes	Yes	No	Yes	
Arsenic	7	0.2	0.2	8	269	3070	129	14	48	439	Yes	Yes	No	Yes	
Barium	8.3	0.3	0.6	1	13	45.5	12		92.3	5.48	Yes	Yes	No	Yes	
Beryllium	3.2	0.1	0.1	0.4	59	0.7				0.219	No	Yes	No	No	
Cadmium	1	0.1	0.1	0.2	62	0.2				0.2	No	Yes	No	No	
Chromium	48	0.5	0.5	5	175	987	10		5.71	20.6	Yes	Yes	No	Yes	
Chromium, VI	0.93	0.1	0.398	6.04	54	0.978	2	2	3.7	1.05	Yes	Yes	No	Yes	
Copper	36	0.2	0.2	2	183	3500	66		36.1	97.2	Yes	Yes	No	Yes	
Lead	50	0.1	0.1	0.2	62	12.1				0.242	No	Yes	No	No	
Mercury	0.07	0.025	0.02	0.06	62	0.26	4	1	6.45	3.71	Yes	Yes	No	Yes	
Nickel	48	0.5	1	2	59	21				0.438	No	Yes	No	No	
Selenium	0.26	0.5	0.5	5	62			62			No	Yes	Yes	No	
Silver	0.016	0.2	0.3	0.7	136	4.9	8	128	5.88	306	Yes	Yes	Yes	Yes	
Thallium	0.0044	0.2	0.2	5	59			59			No	No	Yes	No	
Tributyltin	0.0021	0.00386	0.0032	0.0037	23			6			No	Yes	Yes	No	
Zinc	85	1	1	9	177	4030	25		14.1	47.4	Yes	Yes	No	Yes	
Volatile Organic Compounds (µg/kg)															
1,1-Dichloroethane	2.6	1	0.6	120	26			1			No	Yes	No	No	
1,1-Dichloroethene	2.4	1	0.6	120	26			1			No	No	No	No	
1,1-Dichloropropene		1	0.6	120	26						No	No	NA	No	
1,1,1-Trichloroethane	84	1	0.6	120	26						No	No	No	No	
1,1,1,2-Tetrachloroethane	38000	1	0.6	120	26						No	No	No	No	
1,1,2-Trichloroethane	0.33	1	0.6	120	26			21			No	No	Yes	No	
1,1,2,2-Tetrachloroethane	0.08	1	0.6	120	26			26			No	No	Yes	No	
1,2-Dibromo-3-chloropropane	1300	5	2.9	590	26						No	No	No	No	
1,2-Dichloroethane	1.6	1	0.6	120	26			1			No	No	No	No	
1,2-Dichloropropane	1	1	0.6	120	26			1			No	No	No	No	
1,2,3-Trichlorobenzene	20000	5	2.9	590	26						No	No	No	No	
1,2,3-Trichloropropane	33	2	1.2	230	26			1			No	No	No	No	
1,2,4-Trimethylbenzene	800000	1	0.6	120	26	3.5				0.00000437	No	Yes	No	No	
1,3-Dichloropropane		1	0.6	120	26						No	No	NA	No	
1,3,5-Trimethylbenzene	800000	1	0.6	120	26						No	Yes	No	No	
2-Butanone		5	2.9	590	26	36					No	Yes	NA	No	
2-Chloroethyl vinyl ether		5	2.9	590	26						No	No	NA	No	
2-Hexanone	400000	5	2.9	590	26						No	No	No	No	
2-Phenylbutane		1	0.6	120	26						No	No	NA	No	
2,2-Dichloropropane		1	0.6	120	26						No	No	NA	No	
4-Chlorotoluene		1	0.6	120	26						No	No	NA	No	
4-Methyl-2-pentanone		5	2.9	590	26						No	No	NA	No	
Acetone	2100	5	2.9	590	26	1300				0.619	No	Yes	No	No	

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Table 4-5
COPC Selection Process for Saturated Zone Soil
5900 West Marginal Way Site
Seattle, Washington

Analyte	Saturated Zone SLs (Most Stringent Soil pCUL, Saturated Zone, Potable GW)	Sample Statistics									Elimination Criteria			
		PQL ¹	Minimum PQL	Maximum PQL	Total Number of Samples	Maximum Detection	Number of Exceedances, Detected	Number of Exceedances, Not Detected (PQL > SL)	Exceedance Frequency (%)	Maximum Exceedance Factor	Detected SL Exceedances > =1	Detected in other Media	SL < PQL	Retained as COPC?
Acrolein	40000	50	29	5900	26						No	No	No	No
Acrylonitrile	1900	5	2.9	590	26						No	No	No	No
Benzene	0.56	1	0.6	120	47	13	5	35	10.6	23.2	Yes	Yes	Yes	Yes
Bromobenzene	640000	1	0.6	120	26						No	No	No	No
Bromodichloromethane	0.96	1	0.6	120	26			1			No	No	Yes	No
Bromoform	5	1	0.6	120	26			1			No	No	No	No
Carbon disulfide	270	1	0.6	120	26	58				0.215	No	No	No	No
Carbon tetrachloride	0.15	1	0.6	120	26			26			No	No	Yes	No
Chlorobenzene	51	1	0.6	120	26						No	No	No	No
Chlorobromomethane		1	0.6	120	26						No	No	NA	No
Chloroethane		1	0.6	120	26						No	No	NA	No
Chloroform	4.8	1	0.6	120	26			1			No	Yes	No	No
cis-1,2-Dichloroethene	5.2	1	0.6	120	26			1			No	No	No	No
cis-1,3-Dichloropropene	0.14	1	0.6	120	26			26			No	No	Yes	No
Cumene		1	0.6	120	26						No	Yes	NA	No
Cymene		1	0.6	120	26	8600					No	Yes	NA	No
Dibromochloromethane	0.77	1	0.6	120	26			11			No	No	Yes	No
Dibromomethane	800000	1	0.6	120	26						No	No	No	No
Ethyl bromide		2	1.2	230	26						No	No	NA	No
Ethylbenzene	15	1	0.6	120	47	0.8		1		0.0533	No	Yes	No	No
Freon 11		1	0.6	120	26						No	No	NA	No
Freon 113		2	1.2	230	26						No	No	NA	No
m,p Xylenes		1	0.6	120	47	2.9					No	Yes	NA	No
Methyl bromide	3.3	1	0.6	120	26	0.8		1		0.242	No	No	No	No
Methyl chloride		1	0.6	120	26						No	Yes	NA	No
Methyl iodide		1	0.6	120	26	2.5					No	No	NA	No
Methyl tert-butyl ether	7.2	1	0.6	120	26			1			No	No	No	No
Methylene chloride	1.5	2	1.2	230	26	1.5		17		1	No	Yes	Yes	No
n-Butylbenzene		1	0.6	120	26						No	No	NA	No
n-Propylbenzene		1	0.6	120	26						No	No	NA	No
o-Chlorotoluene		1	0.6	120	26						No	No	NA	No
o-Xylene	840	1	0.6	120	47						No	Yes	No	No
Styrene	120	1	0.6	120	26						No	Yes	No	No
tert-Butylbenzene		1	0.6	120	26						No	No	NA	No
Tetrachloroethene	1.6	1	0.6	120	26			1			No	Yes	No	No
Toluene	55	1	0.6	120	47	2.8				0.0509	No	Yes	No	No
trans-1,2-Dichloroethene	32	1	0.6	120	26						No	No	No	No
trans-1,3-Dichloropropene	0.14	1	0.6	120	26			26			No	No	Yes	No
trans-1,4-Dichlorobutene		5	2.9	590	26						No	No	NA	No
Trichloroethene	0.27	1	0.6	120	26			21			No	No	Yes	No
Vinyl acetate	2300	5	2.9	590	26						No	No	No	No
Vinyl chloride	0.055	1	0.6	120	26			26			No	No	Yes	No

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Table 4-5
COPC Selection Process for Saturated Zone Soil
5900 West Marginal Way Site
Seattle, Washington

Analyte	Saturated Zone SLs (Most Stringent Soil pCUL, Saturated Zone, Potable GW)	PQL ¹	Minimum PQL	Maximum PQL	Total Number of Samples	Maximum Detection	Sample Statistics				Elimination Criteria			
							Number of Exceedances, Detected	Number of Exceedances, Not Detected (PQL > SL)	Exceedance Frequency (%)	Maximum Exceedance Factor	Detected SL Exceedances > =1	Detected in other Media	SL < PQL	Retained as COPC?
Total Petroleum Hydrocarbons (mg/kg)														
Diesel Range Organics	260	5	5.0	1100	56	16000	5		8.93	61.5	Yes	Yes	No	Yes
Gasoline Range Organics	30	5	3.3	24	49	110	3		6.12	3.67	Yes	Yes	No	Yes
Motor Oil Range Organics	2000		10	2200	56	14000	1		1.79	7	Yes	Yes	No	Yes
Semivolatile Organic Compounds (µg/kg)														
1,2-Dichlorobenzene	3.1	1	18	120	87			23			No	Yes	No	No
1,2,4-Trichlorobenzene	0.072	5	18	120	87			87			No	Yes	Yes	No
1,3-Dichlorobenzene		1	18	120	87						No	No	NA	No
1,4-Dichlorobenzene	8.1	1	18	120	87	10	1	4	1.15	1.23	Yes	Yes	No	Yes
2-Chloronaphthalene		20	18	120	87						No	No	NA	No
2-Chlorophenol	11	20	18	1200	192	3100	39	32	20.3	282	Yes	Yes	Yes	Yes
2-Nitroaniline	800000	100	88	580	87						No	No	No	No
2,2-Oxybis(1-chloropropane)		20	18	120	87						No	No	NA	No
2,3,4,6-Tetrachlorophenol	3200	20	18	1200	132	98000	4	1	3.03	30.6	Yes	Yes	No	Yes
2,4-Dichlorophenol	4.3	20	92	6000	192	1800	39	153	20.3	419	Yes	Yes	Yes	Yes
2,4-Dimethylphenol	3.1	40	35	230	87	9.7	1	84	1.15	3.13	Yes	Yes	Yes	Yes
2,4-Dinitrophenol	9.2	850	180	4900	87			87			No	No	Yes	No
2,4-Dinitrotoluene	0.069	100	88	580	87			87			No	No	Yes	No
2,4,5-Trichlorophenol	1100	100	88	6000	192	780		3		0.709	No	Yes	No	No
2,4,6-Trichlorophenol	0.19	100	88	6000	192	910	30	162	15.6	4790	Yes	Yes	Yes	Yes
2,6-Dinitrotoluene	0.021	100	88	580	87			87			No	No	Yes	No
3-Nitroaniline		100	88	580	87						No	No	NA	No
3,3'-Dichlorobenzidine	0.0033	150	92	870	87			87			No	No	Yes	No
4-Bromophenyl phenyl ether		20	18	120	87						No	No	NA	No
4-Chloro-3-methylphenol		100	88	580	87						No	No	NA	No
4-Chlorophenyl phenyl ether		20	18	120	87						No	No	NA	No
4-Nitrophenol	7000	100	88	580	87						No	No	No	No
Benzoic acid	170	400	180	2300	87	960	7	4	8.05	5.65	Yes	Yes	Yes	Yes
Benzyl alcohol	57	20	18	120	87	44				0.772	No	Yes	No	No
Benzyl butyl phthalate	0.18	5	18	120	87	120	2	85	2.3	667	Yes	Yes	Yes	Yes
Bis(2-chloroethoxy)methane		20	18	120	87						No	No	NA	No
Bis(2-ethylhexyl)phthalate	5.1	25	22	140	87	450	19	68	21.8	88.2	Yes	Yes	Yes	Yes
Carbazole		20	18	120	87	100					No	No	NA	No
Di-n-octyl phthalate	330	20	18	120	87	25				0.0758	No	Yes	No	No
Dibutyl Phthalate	15	20	18	120	87	530	7	4	8.05	35.3	Yes	Yes	Yes	Yes
Dichloroethyl ether	0.014	20	18	120	87			87			No	No	Yes	No
Diethyl Phthalate	34	5	18	290	87	110	3	38	3.45	3.24	Yes	Yes	No	Yes
Dimethylphthalate	71	5	18	120	87						No	Yes	No	No
Dinitro-o-cresol		200	180	1200	87						No	No	NA	No
Ethylene dibromide	0.018	1	0.6	120	26	0.5	4	22	15.4	27.8	Yes	No	Yes	Yes
Hexachlorobenzene	0.0004	5	18	1200	124	920	12	112	9.68	2300000	Yes	Yes	Yes	Yes
Hexachlorobutadiene	0.54	5	2.9	590	113			108			No	No	Yes	No

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5900 West Marginal Way Site
Seattle, Washington

Sample Statistics											Elimination Criteria			
Analyte	Saturated Zone SLs (Most Stringent Soil pCUL, Saturated Zone, Potable GW)	PQL ¹	Minimum PQL	Maximum PQL	Total Number of Samples	Maximum Detection	Number of Exceedances, Detected	Number of Exceedances, Not Detected (PQL > SL)	Exceedance Frequency (%)	Maximum Exceedance Factor	Detected SL Exceedances > =1	Detected in other Media	SL < PQL	Retained as COPC?
Hexachlorocyclopentadiene	200	400	92	2300	87			1			No	No	Yes	No
Hexachloroethane	0.041	20	18	120	87			87			No	No	Yes	No
Isophorone	15	20	18	120	87			1			No	No	Yes	No
n-Nitrosodi-n-propylamine	0.0039	20	18	120	87			87			No	No	Yes	No
n-Nitrosodiphenylamine	1.1	12	18	120	87			87			No	Yes	Yes	No
Nitrobenzene	6.5	20	18	120	87			22			No	No	Yes	No
o-Cresol	10	5	18	120	87	15	6	4	6.9	1.5	Yes	Yes	No	Yes
p-Chloroaniline	0.077	270	92	1600	87			87			No	No	Yes	No
p-Cresol	670	10	18	230	87	640				0.955	No	Yes	No	No
p-Nitroaniline		100	88	580	87						No	No	NA	No
Pentachlorophenol	0.0018	50	6.6	19000	224	1000000	112	112	50	556000000	Yes	Yes	Yes	Yes
Phenol	120	5	18	1200	159	5200	29	1	18.2	43.3	Yes	Yes	No	Yes
Polycyclic Aromatic Hydrocarbons (µg/kg)														
1-Methylnaphthalene	29000	5	4.4	14	89	210				0.00724	No	Yes	No	No
2-Methylnaphthalene	670	5	4.4	14	89	230				0.343	No	Yes	No	No
Acenaphthene	28	5	4.4	14	89	260	3		3.37	9.29	Yes	Yes	No	Yes
Acenaphthylene	1300	5	4.4	100	89	960				0.738	No	Yes	No	No
Anthracene	51	5	4.4	14	89	430	2		2.25	8.43	Yes	Yes	No	Yes
Benzo(a)anthracene	0.057	5	4.4	100	89	2300	54	35	60.7	40400	Yes	Yes	Yes	Yes
Benzo(a)pyrene	0.016	5	4.4	100	89	4700	52	37	58.4	294000	Yes	Yes	Yes	Yes
Benzo(g,h,i)perylene	670	5	4.4	100	89	2700	1		1.12	4.03	Yes	Yes	No	Yes
Chrysene	6.4	5	4.4	100	89	3900	40		44.9	609	Yes	Yes	No	Yes
Dibenzo(a,h)anthracene	0.029	5	4.4	14	89	720	21	68	23.6	24800	Yes	Yes	Yes	Yes
Dibenzofuran	540	5	4.4	14	89	96				0.178	No	Yes	No	No
Fluoranthene	90	5	4.4	100	89	2200	5		5.62	24.4	Yes	Yes	No	Yes
Fluorene	29	5	4.4	14	89	370	3		3.37	12.8	Yes	Yes	No	Yes
Indeno(1,2,3-cd)pyrene	0.56	5	4.4	100	89	2100	40	49	44.9	3750	Yes	Yes	Yes	Yes
Naphthalene	2.1	5	4.4	14	89	280	74	15	83.1	133	Yes	Yes	Yes	Yes
Phenanthrene	1500	5	4.4	52	89	1400				0.933	No	Yes	No	No
Pyrene	140	5	4.4	100	89	6100	4		4.49	43.6	Yes	Yes	No	Yes
Total (B+J+K) Benzofluoranthenes	3200	5	4.4	100	89	5200	1		1.12	1.62	Yes	Yes	No	Yes
Total Carcinogenic PAHs ND=0	0.016				89	5800	62	0	69.7	362000	Yes	Yes	No	Yes
Carcinogenic PAHs TEQ ND=1/2DL ²	0.016				89	5800	62	27	69.7	362000	Yes	Yes	No	Yes
Polychlorinated Biphenyls (µg/kg)														
Aroclor 1016		4	3.6	95	54						No	No	NA	No
Aroclor 1221		4	3.6	95	54						No	No	NA	No
Aroclor 1232		4	3.6	95	54						No	No	NA	No
Aroclor 1242		4	3.6	95	54						No	Yes	NA	No
Aroclor 1248		4	3.6	380	54	33					No	Yes	NA	No
Aroclor 1254		4	3.6	95	54	2300					No	Yes	NA	No
Aroclor 1260		4	3.6	240	54	190					No	Yes	NA	No

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Table 4-5
COPC Selection Process for Saturated Zone Soil
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Seattle, Washington

Sample Statistics											Elimination Criteria			
Analyte	Saturated Zone SLs (Most Stringent Soil pCUL, Saturated Zone, Potable GW)	PQL ¹	Minimum PQL	Maximum PQL	Total Number of Samples	Maximum Detection	Number of Exceedances, Detected	Number of Exceedances, Not Detected (PQL > SL)	Exceedance Frequency (%)	Maximum Exceedance Factor	Detected SL Exceedances > =1	Detected in other Media	SL < PQL	Retained as COPC?
Aroclors, Total (ND=0)	0.0022				54	2300	15		27.8	1050000	Yes	Yes	No	Yes
Aroclors, Total (ND=0/ND=1/2 DL) ³	0.0022				54	2500	15	39	27.8	1140000	Yes	Yes	No	Yes
Dioxins/Furans (pg/g)														
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	13	0.05	0.578	22.8	63	45.6	5		7.94	3.51	Yes	Yes	No	Yes
Dioxins/Furans Calculated TEQ (ND=0)	5.2				63	13400	28		44.4	2580	Yes	Yes	No	Yes
Dioxins/Furans Calculated TEQ (ND=1/2 DL)	5.2				63	13400	28		44.4	2580	Yes	Yes	No	Yes

Notes:

The Washington State Department of Ecology Lower Duwamish Waterway April 2019 pCUL Workbook was used as the source of screening levels.

1 = Source: ERM. 2012b. Revised Final Remedial Investigation Sampling and Analysis Plan. Appendix B Revised Final Remedial Investigation and Feasibility Study Work Plan. May.

2 = Toxicity Equivalency Quotient calculations for cPAHs (WAC 173-340-200) using benzo(a)pyrene as the reference chemical.

3 = Aroclors detected in any site media assigned ND=1/2DL (Aroclor 1242, 1248, 1254, 1260). Aroclors not detected in any site media assigned ND=0 (Aroclor 1016, 1221, 1232).

COPC = Contaminant of Potential Concern

GP = Direct Push Boring

GW = groundwater

mg/kg = milligrams per kilogram

MW = Monitoring Well

NA = Not applicable.

ND = 0 = non-detect values equal to zero

ND = 1/2DL = non-detect values calculated as one-half the laboratory detection limit

PAH = polycyclic aromatic hydrocarbons

pCUL = preliminary cleanup Level

pg/g = picograms per gram

PQL = Practical Quantitation Limit

S, D designation following well identification number = indicates shallow or deep monitoring well

SIIE = samples are anthropogenic solids, sampled during a soil excavation

Saturated Soil SL = Most Stringent Soil pCUL, Saturated Soil, Potable Water

SL = Screening Level

TB = top of riverbank boring

TEQ = Toxicity Equivalency Quotient

µg/kg = micrograms per kilogram

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Table 4-6
COPC Selection Process for Groundwater
5900 West Marginal Way Site
Seattle, Washington

Analyte	Groundwater SLs (Most Stringent pCUL, Potable Water)	PQL ¹	Minimum PQL	Maximum PQL	Total Number of Samples	Maximum Detection	Sample Statistics				Elimination Criteria			
							Number of Exceedances, Detected	Number of Exceedances, Not Detected (PQL > SL)	Exceedance Frequency (%)	Maximum Exceedance Factor	Detected SL Exceedances > =1	Detected in Other Media	SL < PQL	Retained as COPC?
Metals (µg/L)														
Chromium, VI	48	10	10	10	72	16				0.333	No	Yes	No	No
Dissolved Antimony	6	0.2	0.2	50	26	0.3		10		0.05	No	NA	No	No
Dissolved Arsenic	8	0.2	0.103	50	282	15600	212		75.2	1950	Yes	NA	No	Yes
Dissolved Beryllium	4	0.2	0.2	0.5	26						No	NA	No	No
Dissolved Chromium	100	0.5	0.50	5	185	32				0.32	No	NA	No	No
Dissolved Copper	3.1	0.5	0.50	2	185	61.7	26		14.1	19.9	Yes	NA	No	Yes
Dissolved Lead	8.1	0.1	0.1	0.2	26						No	NA	No	No
Dissolved Mercury	0.025	0.1	0.1	0.1	26			26			No	NA	Yes	No
Dissolved Nickel	8.2	0.5	0.5	1	26	8				0.976	No	NA	No	No
Dissolved Selenium	50	0.5	0.5	5	26	7				0.14	No	NA	No	No
Dissolved Silver	1.9	0.2	0.2	3	81	1		18		0.526	No	NA	No	No
Dissolved Thallium	0.062	0.2	0.2	0.5	26			26			No	NA	Yes	No
Dissolved Zinc	81	4	4	10	185	113	2		1.08	1.4	Yes	NA	No	Yes
Total Antimony	6	0.2	0.2	50	26	0.3		10		0.05	No	Yes	No	No
Total Arsenic	8	0.2	0.103	50	282	15600	212	2	75.2	1950	Yes	Yes	No	Yes
Total Beryllium	4	0.2	0.2	0.5	26						No	Yes	No	No
Total Chromium	100	0.5	0.50	5.00	185	60				0.6	No	Yes	No	No
Total Copper	3.1	0.5	0.50	2.5	185	138	59		31.9	44.5	Yes	Yes	No	Yes
Total Lead	8.1	0.1	0.1	0.2	26	0.1				0.0123	No	Yes	No	No
Total Mercury	0.025	0.1	0.1	0.1	26			26			No	Yes	Yes	No
Total Nickel	8.2	0.5	0.5	1	26	9.2	1		3.85	1.12	Yes	Yes	No	Yes
Total Selenium	50	0.5	0.5	5	26	6				0.12	No	No	No	No
Total Silver	1.9	0.2	0.2	3	81	0.51		18		0.268	No	Yes	No	No
Total Thallium	0.062	0.2	0.2	0.5	26			26			No	No	Yes	No
Total Zinc	81	4	4	25.0	185	132	2		1.08	1.63	Yes	Yes	No	Yes
Tributyltin	0.0074	0.0075	0.005	0.005	8						No	Yes	Yes	No
Volatile Organic Compounds (µg/L)														
1,1-Dichloroethane	7.7	0.2	0.2	0.2	16	0.2				0.026	No	No	No	No
1,1-Dichloroethene	7	0.2	0.2	0.2	16						No	No	No	No
1,1-Dichloropropene		0.2	0.2	0.2	16						No	No	NA	No
1,1,1-Trichloroethane	200	0.2	0.2	0.2	16						No	No	No	No
1,1,1,2-Tetrachloroethane	1.7	0.2	0.2	0.2	16						No	No	No	No
1,1,2-Trichloroethane	0.9	0.2	0.2	0.2	16						No	No	No	No
1,1,2,2-Tetrachloroethane	0.22	0.2	0.2	0.2	16						No	No	No	No
1,2-Dibromo-3-chloropropane	0.2	0.5	0.5	0.5	16			7			No	No	Yes	No
1,2-Dichloroethane	4.2	0.2	0.2	0.2	16						No	No	No	No
1,2-Dichloropropane	3.1	0.2	0.2	0.2	16						No	No	No	No
1,2,3-Trichlorobenzene		0.5	0.5	0.5	16						No	No	NA	No
1,2,3-Trichloropropane	0.0015	0.5	0.5	0.5	16			16			No	No	Yes	No
1,2,4-Trimethylbenzene	80	0.2	0.2	0.2	16						No	Yes	No	No
1,3-Dichloropropane		0.2	0.2	0.2	16						No	No	NA	No
1,3,5-Trimethylbenzene	80	0.2	0.2	0.2	16						No	Yes	No	No
2-Butanone	4800	5	5.0	5.0	16						No	Yes	No	No

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Table 4-6
COPC Selection Process for Groundwater
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Seattle, Washington

Analyte	Groundwater SLs (Most Stringent pCUL, Potable Water)	Sample Statistics									Elimination Criteria			
		PQL ¹	Minimum PQL	Maximum PQL	Total Number of Samples	Maximum Detection	Number of Exceedances, Detected	Number of Exceedances, Not Detected (PQL > SL)	Exceedance Frequency (%)	Maximum Exceedance Factor	Detected SL Exceedances > =1	Detected in Other Media	SL < PQL	Retained as COPC?
2-Chloroethyl vinyl ether		1	1.0	1.0	16						No	No	NA	No
2-Hexanone	40	5	5.0	5.0	16						No	No	No	No
2-Phenylbutane	800	0.2	0.2	0.2	16						No	No	No	No
2,2-Dichloropropane		0.2	0.2	0.2	16						No	No	NA	No
4-Chlorotoluene		0.2	0.2	0.2	16						No	No	NA	No
4-Methyl-2-pentanone	640	5	5.0	5.0	16						No	No	No	No
Acetone	7200	5	5.0	5.0	16	120				0.0167	No	Yes	No	No
Acrolein	1.1	5	5.0	5.0	16			9			No	No	Yes	No
Acrylonitrile	0.028	1	1.0	1.0	16			16			No	No	Yes	No
Benzene	1.6	0.2	0.2	0.2	16						No	Yes	No	No
Bromobenzene	64	0.2	0.2	0.2	16						No	No	No	No
Bromodichloromethane	1.8	0.2	0.2	0.2	16						No	No	No	No
Bromoform	12	0.2	0.2	0.2	16						No	No	No	No
Carbon disulfide	400	0.2	0.2	0.2	16						No	Yes	No	No
Carbon tetrachloride	0.35	0.2	0.2	0.2	16						No	No	No	No
Chlorobenzene	100	0.2	0.2	0.2	16						No	No	No	No
Chlorobromomethane		0.2	0.2	0.2	16						No	No	NA	No
Chloroethane	19000	0.2	0.2	0.2	16						No	No	No	No
Chloroform	1.2	0.2	0.2	0.2	16	0.2				0.167	No	Yes	No	No
cis-1,2-Dichloroethene	16	0.2	0.2	0.2	16						No	No	No	No
cis-1,3-Dichloropropene	0.44	0.2	0.2	0.2	16						No	No	No	No
Cumene	800	0.2	0.2	0.2	16						No	Yes	No	No
Cymene		0.2	0.2	0.2	16						No	Yes	NA	No
Dibromochloromethane	2.2	0.2	0.2	0.2	16						No	No	No	No
Dibromomethane	80	0.2	0.2	0.2	16						No	No	No	No
Ethyl bromide		0.2	0.2	0.2	16						No	No	NA	No
Ethylbenzene	31	0.2	0.2	0.2	16						No	Yes	No	No
Ethylene dibromide	0.05	0.2	0.2	0.2	16			16			No	Yes	Yes	No
Formaldehyde	1600	0	5	5	33	36				0.0225	No	NA	No	No
Freon 11	120	0.2	0.2	0.2	16						No	No	No	No
Freon 113	180	0.2	0.2	0.2	16						No	No	No	No
m,p Xylenes	1600	0.4	0.4	0.4	16	0.12				0.000075	No	Yes	No	No
Methyl bromide	11	1	1.0	1.0	16						No	Yes	No	No
Methyl chloride	150	0.5	0.5	0.5	16						No	Yes	No	No
Methyl iodide		1	1.0	1.0	16						No	Yes	NA	No
Methyl tert-butyl ether	24	0.5	0.5	0.5	16						No	No	No	No
Methylene chloride	5	0.5	0.5	1.0	16						No	Yes	No	No
n-Butylbenzene	400	0.2	0.2	0.2	16						No	No	No	No
n-Propylbenzene	800	0.2	0.2	0.2	16						No	No	No	No
o-Chlorotoluene	160	0.2	0.2	0.2	16						No	No	No	No
o-Xylene	430	0.2	0.2	0.2	16						No	Yes	No	No
Styrene	100	0.2	0.2	0.2	16						No	Yes	No	No
tert-Butylbenzene	800	0.2	0.2	0.2	16						No	No	No	No
Tetrachloroethene	2.9	0.2	0.2	0.2	16	0.2				0.069	No	No	No	No

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Table 4-6
COPC Selection Process for Groundwater
5900 West Marginal Way Site
Seattle, Washington

Analyte	Groundwater SLs (Most Stringent pCUL, Potable Water)	Sample Statistics									Elimination Criteria			
		PQL ¹	Minimum PQL	Maximum PQL	Total Number of Samples	Maximum Detection	Number of Exceedances, Detected	Number of Exceedances, Not Detected (PQL > SL)	Exceedance Frequency (%)	Maximum Exceedance Factor	Detected SL Exceedances > =1	Detected in Other Media	SL < PQL	Retained as COPC?
Toluene	130	0.2	0.2	0.2	16	0.1				0.000769	No	Yes	No	No
trans-1,2-Dichloroethene	100	0.2	0.2	0.2	16						No	No	No	No
trans-1,3-Dichloropropene	0.44	0.2	0.2	0.2	16						No	No	No	No
trans-1,4-Dichlorobutene		1	1.0	1.0	16						No	No	NA	No
Trichloroethene	0.7	0.2	0.2	0.2	16						No	No	No	No
Vinyl acetate	7800	0.2	0.2	1.0	16						No	No	No	No
Vinyl chloride	0.18	0.2	0.2	0.2	16						No	No	Yes	No
Total Petroleum Hydrocarbons (mg/L)														
Diesel Range Organics	0.5	0.1	0.10	0.10	13	3.2	2		15.4	6.4	Yes	Yes	No	Yes
Gasoline Range Organics	0.8	0.03	0.03	0.25	13	0.03				0.0375	No	Yes	No	No
Motor Oil Range Organics	0.5		0.20	0.20	13						No	Yes	No	No
Semivolatile Organic Compounds (µg/L)														
1,2-Dichlorobenzene	4.6	0.2	1.0	1.0	51						No	Yes	No	No
1,2,4-Trichlorobenzene	0.037	0.5	1.0	1.0	51			51			No	Yes	Yes	No
1,3-Dichlorobenzene	2	0.2	1.0	1.0	51						No	No	No	No
1,4-Dichlorobenzene	4.9	0.2	1.0	1.0	51						No	Yes	No	No
2-Chloronaphthalene	100	1	1.0	1.0	51						No	No	No	No
2-Chlorophenol	17	1	0.94	10	291	0.6				0.0353	No	Yes	No	No
2-Nitroaniline	160	3	3.0	5.0	51						No	No	No	No
2,2-Oxybis(1-chloropropane)	320	1	1.0	1.0	51						No	No	No	No
2,3,4,6-Tetrachlorophenol	480	1	0.94	10	265	54				0.112	No	Yes	No	No
2,4-Dichlorophenol	10	5	0.94	50	291	21	3	1	1.03	2.1	Yes	Yes	No	Yes
2,4-Dimethylphenol	6.3	1	1.0	3.0	51						No	Yes	No	No
2,4-Dinitrophenol	32	10	10	20	51						No	No	No	No
2,4-Dinitrotoluene	0.18	3	3.0	5.0	51			51			No	No	Yes	No
2,4,5-Trichlorophenol	600	5	0.94	50	291	3.7				0.00617	No	Yes	No	No
2,4,6-Trichlorophenol	0.28	3	0.94	50	291	1.6	2	233	0.687	5.71	Yes	Yes	Yes	Yes
2,6-Dinitrotoluene	0.058	3	3.0	5.0	51			51			No	No	Yes	No
3-Nitroaniline		3	3.0	5.0	51						No	No	NA	No
3,3'-Dichlorobenzidine	0.0033	5	5.0	5.0	51			51			No	No	Yes	No
4-Bromophenyl phenyl ether		1	1.0	1.0	51						No	No	NA	No
4-Chloro-3-methylphenol	36	3	3.0	5.0	51						No	No	No	No
4-Chlorophenyl phenyl ether		1	1.0	1.0	51						No	No	NA	No
4-Nitrophenol		10	5.0	10	51						No	No	NA	No
Benzoic acid	590	10	10	20	51						No	Yes	No	No
Benzyl alcohol	800	2	2.0	5.0	51						No	Yes	No	No
Benzyl butyl phthalate	0.013	1	1.0	1.0	51			51			No	Yes	Yes	No
Bis(2-chloroethoxy)methane		1	1.0	1.0	51						No	No	NA	No
Bis(2-ethylhexyl)phthalate	0.046	1	1.0	3.0	51	2.4	2	49	3.92	52.2	Yes	Yes	Yes	Yes
Carbazole		1	1.0	1.0	51						No	Yes	NA	No
Di-n-octyl phthalate	0.0039	1	1.0	1.0	51			51			No	Yes	Yes	No
Dibutyl Phthalate	8	1	1.0	1.0	51						No	Yes	No	No
Dichloroethyl ether	0.04	1	1.0	1.0	51			51			No	No	Yes	No
Diethyl Phthalate	93	1	1.0	1.0	51	0.8				0.0086	No	Yes	No	No

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Table 4-6
COPC Selection Process for Groundwater
5900 West Marginal Way Site
Seattle, Washington

Analyte	Groundwater SLs (Most Stringent pCUL, Potable Water)	Sample Statistics									Elimination Criteria			
		PQL ¹	Minimum PQL	Maximum PQL	Total Number of Samples	Maximum Detection	Number of Exceedances, Detected	Number of Exceedances, Not Detected (PQL > SL)	Exceedance Frequency (%)	Maximum Exceedance Factor	Detected SL Exceedances > =1	Detected in Other Media	SL < PQL	Retained as COPC?
Dimethylphthalate	600	1	1.0	1.0	51						No	Yes	No	No
Dinitro-o-cresol	7	10	10	10	51			2			No	No	Yes	No
Hexachlorobenzene	0.000005	1	1.0	1.0	123			123			No	Yes	Yes	No
Hexachlorobutadiene	0.01	0.5	1.0	3.0	51			51			No	No	Yes	No
Hexachlorocyclopentadiene	1	5	5.0	5.0	51			51			No	No	Yes	No
Hexachloroethane	0.02	1	1.0	2.0	51			51			No	No	Yes	No
Isophorone	46	1	1.0	1.0	51						No	No	No	No
n-Nitrosodi-n-propylamine	0.013	1	1.0	1.0	51			51			No	No	Yes	No
n-Nitrosodiphenylamine	0.69	3	1.0	1.0	51						No	Yes	Yes	No
Nitrobenzene	16	1	1.0	1.0	51						No	No	No	No
o-Cresol	27	1	1.0	1.0	51						No	Yes	No	No
p-Chloroaniline	0.22	5	5.0	5.0	51			51			No	No	Yes	No
p-Cresol	800	1	1.0	2.0	51						No	Yes	No	No
p-Nitroaniline		3	3.0	5.0	51						No	No	NA	No
Pentachlorophenol	0.002	0.5	0.25	120	291	7700	62	229	21.3	3850000	Yes	Yes	Yes	Yes
Phenol	370	1	0.94	10	291	35				0.0946	No	Yes	No	No
Polycyclic Aromatic Hydrocarbons (µg/L)														
1-Methylnaphthalene	1.5	0.1	0.10	0.10	51	0.22				0.147	No	Yes	No	No
2-Methylnaphthalene	32	0.1	0.10	0.10	51	0.11				0.00344	No	Yes	No	No
Acenaphthene	5.3	0.1	0.10	0.10	51	0.22				0.0415	No	Yes	No	No
Acenaphthylene		0.1	0.10	0.10	51	0.09					No	Yes	NA	No
Anthracene	2.1	0.1	0.10	0.10	51	0.08				0.0381	No	Yes	No	No
Benzo(a)anthracene	0.00016	0.1	0.10	0.10	51			51			No	Yes	Yes	No
Benzo(a)pyrene	0.000016	0.1	0.10	0.10	51			51			No	Yes	Yes	No
Benzo(g,h,i)perylene		0.1	0.10	0.10	51						No	Yes	NA	No
Chrysene	0.016	0.1	0.10	0.10	51			51			No	Yes	Yes	No
Dibenzo(a,h)anthracene	0.000016	0.1	0.10	0.10	51			51			No	Yes	Yes	No
Dibenzofuran	16	0.1	0.10	0.10	51	1				0.0625	No	Yes	No	No
Fluoranthene	1.8	0.1	0.10	0.10	51	0.24				0.133	No	Yes	No	No
Fluorene	3.7	0.1	0.10	0.10	51	0.17				0.0459	No	Yes	No	No
Indeno(1,2,3-cd)pyrene	0.00016	0.1	0.10	0.10	51			51			No	Yes	Yes	No
Naphthalene	1.4	0.1	0.10	0.10	51	0.21				0.15	No	Yes	No	No
Phenanthrene		0.1	0.10	0.10	51	0.44					No	Yes	NA	No
Pyrene	2	0.1	0.10	0.10	51	0.31				0.155	No	Yes	No	No
Total (B+J+K) Benzofluoranthenes		200	0.10	0.20	51						No	Yes	NA	No
Total Carcinogenic PAHs ND=0 ²	0.000016	0.1			51						No	Yes	Yes	Yes
Carcinogenic PAHs TEQ ND=1/2DL ^{2,3}	0.000016	0.1			51						No	Yes	Yes	Yes
Polychlorinated Biphenyls (µg/L)														
Aroclor 1016		0.01	0.010	0.010	11						No	No	NA	No
Aroclor 1221		0.01	0.010	0.010	11						No	No	NA	No
Aroclor 1232		0.01	0.010	0.010	11						No	No	NA	No
Aroclor 1242		0.01	0.010	0.010	11						No	Yes	NA	No
Aroclor 1248		0.01	0.010	0.025	11						No	Yes	NA	No
Aroclor 1254		0.01	0.010	0.040	11	0.006					No	Yes	NA	No

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Table 4-6
COPC Selection Process for Groundwater
5900 West Marginal Way Site
Seattle, Washington

Sample Statistics											Elimination Criteria			
Analyte	Groundwater SLs (Most Stringent pCUL, Potable Water)	PQL ¹	Minimum PQL	Maximum PQL	Total Number of Samples	Maximum Detection	Number of Exceedances, Detected	Number of Exceedances, Not Detected (PQL > SL)	Exceedance Frequency (%)	Maximum Exceedance Factor	Detected SL Exceedances > =1	Detected in Other Media	SL < PQL	Retained as COPC?
Aroclor 1260		0.01	0.010	0.010	11						No	Yes	NA	No
Aroclors, Total (ND=0)	0.000007	0.01			11	0.006	1		9.09	857	Yes	Yes	Yes	Yes
Aroclors, Total (ND=0/ND=1/2 DL) ⁴	0.000007	0.01			11	0.0099	1	10	9.09	1410	Yes	Yes	Yes	Yes
Dioxins/Furans (pg/L)														
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) ⁵	0.0051	4.4	10.0	12.5	73			73			No	Yes	Yes	Yes
Dioxins/Furans Calculated TEQ (ND=0)	0.0051				73	18	60		82.2	3530	Yes	Yes	No	Yes
Dioxins/Furans Calculated TEQ (ND=1/2 DL)	0.0051				73	19	68	5	93.2	3730	Yes	Yes	No	Yes

Notes:

The Washington State Department of Ecology Lower Duwamish Waterway April 2019 pCUL Workbook was used as the source of screening levels.

1 = Source: ERM. 2012b. Revised Final Remedial Investigation Sampling and Analysis Plan. Appendix B Revised Final Remedial Investigation and Feasibility Study Work Plan. May.

2 = Although carcinogenic PAH TEQs (ND=0 and ND=1/2DL) were not detected in groundwater, they are retained as a COPC because all sample PQLs were greater than the SL.

3 = Toxicity Equivalency Quotient calculations for cPAHs (WAC 173-340-200) using benzo(a)pyrene as the reference chemical.

4 = Aroclors detected in any site media assigned ND=1/2DL (Aroclor 1242, 1248, 1254, 1260). Aroclors not detected in any site media assigned ND=0 (Aroclor 1016, 1221, 1232).

5 = Although TCDD was not detected in groundwater, it is retained as a COPC because all sample PQLs were greater than the SL.

COPC = Contaminant of Potential Concern

Groundwater SL = Most Stringent pCUL Potable Water

GW = groundwater

mg/L = milligrams per liter

MW = Monitoring Well

NA = Not applicable.

ND = 0 = non-detect values equal to zero

ND = 1/2DL = non-detect values calculated as one-half the laboratory detection limit

PAH = polycyclic aromatic hydrocarbons

pCUL = preliminary cleanup level

pg/L = picograms per liter

PQL = Practical Quantitation Limit

S, D designation following well identification number = indicates shallow or deep monitoring well

SL = Screening Level

TEQ = Toxicity Equivalency Quotient

µg/L = micrograms per liter

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Table 4-7
COPC Selection Process for Sediment
5900 West Marginal Way Site
Seattle, Washington

Sample Statistics											Elimination Criteria				
Analyte	Sediment SLs (Target Sediment Concentration, Minimum ROD CUL + SMS Lower Tier)	PQL ¹	Minimum PQL ²	Maximum PQL ²	Total Number of Samples	Maximum Detection	Number of Exceedances, Detected	Number of Exceedances, Not Detected (PQL > SL)	Exceedance Frequency (%)	Maximum Exceedance Factor	Detected SL Exceedances > =1	Detected in Other Media	SL < PQL	Max Detect > PQL	Retained as COPC?
Metals (mg/kg)															
Arsenic	7	0.2	0.04	0.5	78	269	69		88.5	38.4	Yes	Yes	No	Yes	Yes
Cadmium	5.1	0.1	0.02	1	78	1.2				0.235	No	Yes	No	NA	No
Chromium	260	0.5	0.6	2	78	88				0.338	No	Yes	No	NA	No
Copper	390	0.5	0.2	0.7	78	405	1		1.28	1.04	Yes	Yes	No	Yes	Yes
Lead	450	0.1	0.02	1	78	1070	3		3.85	2.38	Yes	Yes	No	Yes	Yes
Mercury	0.41	0.025	0.02	0.06	78	0.5	2		2.56	1.22	Yes	Yes	No	Yes	Yes
Silver	6.1	0.2	0.3	1	78	3.3				0.541	No	Yes	No	NA	No
Tributyltin	0.0021	0.0039	0.0032	0.011	45	0.51	32		71.1	243	Yes	Yes	Yes	Yes	Yes
Zinc	410	4	1	4	78	1680	3		3.85	4.1	Yes	Yes	No	Yes	Yes
Volatile Organic Compounds (µg/kg)															
1,1-Dichloroethane					1						No	No	NA	NA	No
1,1-Dichloroethene					1						No	No	NA	NA	No
1,1-Dichloropropene					1						No	No	NA	NA	No
1,1,1-Trichloroethane					1						No	No	NA	NA	No
1,1,1,2-Tetrachloroethane					1						No	No	NA	NA	No
1,1,2-Trichloroethane					1						No	No	NA	NA	No
1,1,2,2-Tetrachloroethane					1						No	No	NA	NA	No
1,2-Dibromo-3-chloropropane					1						No	No	NA	NA	No
1,2-Dichloroethane					1						No	No	NA	NA	No
1,2-Dichloropropane					1						No	No	NA	NA	No
1,2,3-Trichlorobenzene					1						No	No	NA	NA	No
1,2,3-Trichloropropane					1						No	No	NA	NA	No
1,2,4-Trimethylbenzene					1						No	Yes	NA	NA	No
1,3-Dichloropropane		1			1						No	No	NA	NA	No
1,3,5-Trimethylbenzene					1						No	Yes	NA	NA	No
2-Butanone					1						No	Yes	NA	NA	No
2-Hexanone					1						No	No	NA	NA	No
2,2-Dichloropropane					1						No	No	NA	NA	No
4-Chlorotoluene					1						No	No	NA	NA	No
4-Methyl-2-pentanone					1						No	No	NA	NA	No
Acetone					1						No	Yes	NA	NA	No
Benzene					1						No	Yes	NA	NA	No
Bromobenzene					1						No	No	NA	NA	No
Bromodichloromethane					1						No	No	NA	NA	No
Bromoform					1						No	No	NA	NA	No
Carbon disulfide					1						No	Yes	NA	NA	No
Carbon tetrachloride					1						No	No	NA	NA	No
Chlorobenzene					1						No	No	NA	NA	No
Chlorobromomethane					1						No	No	NA	NA	No
Chloroethane					1						No	No	NA	NA	No
Chloroform					1						No	Yes	NA	NA	No
cis-1,2-Dichloroethene					1						No	No	NA	NA	No
cis-1,3-Dichloropropene					1						No	No	NA	NA	No

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Table 4-7
COPC Selection Process for Sediment
5900 West Marginal Way Site
Seattle, Washington

Analyte	Sediment SLs (Target Sediment Concentration, Minimum ROD CUL + SMS Lower Tier)	Sample Statistics									Elimination Criteria				
		PQL ¹	Minimum PQL ²	Maximum PQL ²	Total Number of Samples	Maximum Detection	Number of Exceedances, Detected	Number of Exceedances, Not Detected (PQL > SL)	Exceedance Frequency (%)	Maximum Exceedance Factor	Detected SL Exceedances > =1	Detected in Other Media	SL < PQL	Max Detect > PQL	Retained as COPC?
Cumene					1						No	Yes	NA	NA	No
Cymene					1						No	Yes	NA	NA	No
Dibromochloromethane					1						No	No	NA	NA	No
Dibromomethane					1						No	No	NA	NA	No
Ethylbenzene					1						No	Yes	NA	NA	No
Ethylene dibromide					1						No	Yes	NA	NA	No
Freon 11					1						No	No	NA	NA	No
Freon 113					1						No	No	NA	NA	No
m,p Xylenes					1						No	Yes	NA	NA	No
Methyl bromide					1						No	Yes	NA	NA	No
Methyl chloride					1						No	Yes	NA	NA	No
Methyl iodide					1						No	Yes	NA	NA	No
Methyl tert-butyl ether					1						No	No	NA	NA	No
Methylene chloride					1						No	Yes	NA	NA	No
n-Butylbenzene					1						No	No	NA	NA	No
n-Propylbenzene					1						No	No	NA	NA	No
o-Chlorotoluene					1						No	No	NA	NA	No
o-Xylene					1						No	Yes	NA	NA	No
Styrene					1						No	Yes	NA	NA	No
tert-Butylbenzene					1						No	No	NA	NA	No
Tetrachloroethene					1						No	No	NA	NA	No
Toluene					1						No	Yes	NA	NA	No
trans-1,2-Dichloroethene					1						No	No	NA	NA	No
trans-1,3-Dichloropropene					1						No	No	NA	NA	No
trans-1,4-Dichlorobutene					1						No	No	NA	NA	No
Trichloroethene					1						No	No	NA	NA	No
Vinyl chloride					1						No	No	NA	NA	No
Semivolatile Organic Compounds (µg/kg)															
1,2-Dichlorobenzene	36	1	4.5	5.0	66	8				0.222	No	No	No	NA	No
1,2,4-Trichlorobenzene	31	5	4.5	5.0	66	5.4				0.174	No	No	No	NA	No
1,4-Dichlorobenzene	110	1	4.5	5	66	15				0.136	No	Yes	No	NA	No
2,4-Dichlorophenol	507000	20			11						No	Yes	No	NA	No
2,4-Dimethylphenol	29	20	18	20	77	24		3		0.828	No	Yes	No	NA	No
3-Nitroaniline					11						No	No	NA	NA	No
3,3'-Dichlorobenzidine	1900				11						No	No	No	NA	No
Benzyl alcohol	57	20	18	20	77	330	27	2	35.1	5.79	Yes	Yes	No	Yes	Yes
Benzyl butyl phthalate	63	5	4.5	5.0	77	160	6	2	7.79	2.54	Yes	Yes	No	Yes	Yes
Bis(2-chloroethoxy)methane		20			11						No	No	NA	NA	No

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COPC Selection Process for Sediment
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Seattle, Washington

Analyte	Sediment SLs (Target Sediment Concentration, Minimum ROD CUL + SMS Lower Tier)	Sample Statistics									Elimination Criteria				
		PQL ¹	Minimum PQL ²	Maximum PQL ²	Total Number of Samples	Maximum Detection	Number of Exceedances, Detected	Number of Exceedances, Not Detected (PQL > SL)	Exceedance Frequency (%)	Maximum Exceedance Factor	Detected SL Exceedances > =1	Detected in Other Media	SL < PQL	Max Detect > PQL	Retained as COPC?
Bis(2-ethylhexyl)phthalate	1300	25	22	25	77	940				0.723	No	Yes	No	NA	No
Di-n-octyl phthalate	6200	20	18	20	77	40				0.00645	No	Yes	No	NA	No
Dibutyl Phthalate	1400	20	18	20	77	350				0.25	No	Yes	No	NA	No
Diethyl Phthalate	200	5	4.5	48	76	62				0.31	No	Yes	No	NA	No
Dimethylphthalate	71	5	4.5	9.6	77	20		2		0.282	No	No	No	NA	No
Hexachlorobenzene	22	5	4.5	190	78	4800	3	1	3.85	218	Yes	Yes	No	Yes	Yes
Hexachlorobutadiene	11	5	4.5	5.0	77			4			No	No	No	NA	No
Isophorone	898000	20			11						No	No	No	NA	No
n-Nitrosodiphenylamine	28	12	18	20	77	37	1	5	1.3	1.32	Yes	No	No	Yes	Yes
o-Cresol	63	5	4.5	5.0	77	24		2		0.381	No	Yes	No	NA	No
p-Cresol	670	10	20	40	76	430				0.642	No	Yes	No	NA	No
Pentachlorophenol	360	50	45	1900	77	20000	7	2	9.09	55.6	Yes	Yes	No	Yes	Yes
Phenol	420	5	18	20	77	680	5		6.49	1.62	Yes	Yes	No	Yes	Yes
Polycyclic Aromatic Hydrocarbons (µg/kg)															
2-Methylnaphthalene	670	5	4.7	20	81	650				0.97	No	Yes	No	NA	No
Acenaphthene	500	5	4.7	150	82	2200	3		3.66	4.4	Yes	Yes	No	Yes	Yes
Acenaphthylene	1300	5	4.7	20	82	500				0.385	No	Yes	No	NA	No
Anthracene	960	5	4.7	150	82	9300	3		3.66	9.69	Yes	Yes	No	Yes	Yes
Benzo(a)anthracene	1300	5	4.7	150	82	4100	3		3.66	3.15	Yes	Yes	No	Yes	Yes
Benzo(a)pyrene	1600	5	4.7	150	82	2000	2		2.44	1.25	Yes	Yes	No	Yes	Yes
Benzo(g,h,i)perylene	670	5	4.7	20	82	870	2		2.44	1.3	Yes	Yes	No	Yes	Yes
Chrysene	1400	5	4.7	150	82	5600	4		4.88	4	Yes	Yes	No	Yes	Yes
Dibenzo(a,h)anthracene	230	5	4.5	20	82	350	1		1.22	1.52	Yes	Yes	No	Yes	Yes
Dibenzofuran	540	5	4.7	20	81	1300	2		2.47	2.41	Yes	Yes	No	Yes	Yes
Fluoranthene	1700	5	4.7	190	82	14000	6		7.32	8.24	Yes	Yes	No	Yes	Yes
Fluorene	540	5	4.7	190	82	3000	2		2.44	5.56	Yes	Yes	No	Yes	Yes
Indeno(1,2,3-cd)pyrene	600	5	4.7	20	82	890	3		3.66	1.48	Yes	Yes	No	Yes	Yes
Naphthalene	2100	5	4.7	20	71	600				0.286	No	Yes	No	NA	No
Phenanthrene	1500	5	4.7	190	82	7800	3		3.66	5.2	Yes	Yes	No	Yes	Yes
Pyrene	2600	5	4.7	190	82	13000	5		6.1	5	Yes	Yes	No	Yes	Yes
Total (B+J+K) Benzofluoranthenes	3200	5	4.7	95	71	4000	1		1.41	1.25	Yes	Yes	No	Yes	Yes
Total Carcinogenic PAHs ND=0	90				74	2900	52		70.3	32.2	Yes	Yes	No	Yes	Yes
Carcinogenic PAHs TEQ ND=1/2DL ³	90				79	2900	59		74.7	32.2	Yes	Yes	No	Yes	Yes
Polychlorinated Biphenyls (µg/kg)															
Aroclor 1016		4	3.7	74	87						No	No	NA	NA	No
Aroclor 1221		4	3.7	74	87						No	No	NA	NA	No
Aroclor 1232		4	3.7	74	87						No	No	NA	NA	No
Aroclor 1242		4	3.7	74	87						No	Yes	NA	NA	No
Aroclor 1248		4	3.7	460	87	770					No	Yes	NA	NA	No
Aroclor 1254		4	3.7	74	87	1300					No	Yes	NA	NA	No
Aroclor 1260		4	3.7	93	87	370					No	Yes	NA	NA	No
Aroclors, Total (ND=0)	128	4			87	2240	52		59.8	17.5	Yes	Yes	No	Yes	Yes
Aroclors, Total (ND=0/ND=1/2 DL) ⁴	128	4			87	2200	54		62.1	17.2	Yes	Yes	No	Yes	Yes

PUBLIC REVIEW DRAFT
Table 4-7
COPC Selection Process for Sediment
5900 West Marginal Way Site
Seattle, Washington

Sample Statistics											Elimination Criteria				
Analyte	Sediment SLs (Target Sediment Concentration, Minimum ROD CUL + SMS Lower Tier)	PQL ¹	Minimum PQL ²	Maximum PQL ²	Total Number of Samples	Maximum Detection	Number of Exceedances, Detected	Number of Exceedances, Not Detected (PQL > SL)	Exceedance Frequency (%)	Maximum Exceedance Factor	Detected SL Exceedances > =1	Detected in Other Media	SL < PQL	Max Detect > PQL	Retained as COPC?
Dioxins/Furans (pg/g)															
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)		0.05	0.412	26.1	83	50.4					No	Yes	NA	NA	No
Dioxins/Furans Calculated TEQ (ND=0)	2				76	4335	72		94.7	2170	Yes	Yes	No	Yes	Yes
Dioxins/Furans Calculated TEQ (ND=1/2 DL)	2	5			83	4335	77		92.8	2170	Yes	Yes	Yes	Yes	Yes

Notes:

The Washington State Department of Ecology Lower Duwamish Waterway April 2019 pCUL Workbook was used as the source of screening levels.

1 = Source: ERM. 2012b. Revised Final Remedial Investigation Sampling and Analysis Plan. Appendix B Revised Final Remedial Investigation and Feasibility Study Work Plan. May.

2 = Partially populated by external datasets (DSI Duwamish River Contaminated Sediments and Lower Duwamish Feasibility Study Baseline) with no associated laboratory PQLs.

3 = Toxicity Equivalency Quotient calculations for cPAHs (WAC 173-340-200) using benzo(a)pyrene as the reference chemical.

4 = Aroclors detected in any site media assigned ND=1/2DL (Aroclor 1242, 1248, 1254, 1260). Aroclors not detected in any site media assigned ND=0 (Aroclor 1016, 1221, 1232).

COPC = Contaminant of Potential Concern

mg/kg = milligrams per kilogram

NA = Not applicable.

ND = 0 = non-detect values equal to zero

ND = 1/2DL = non-detect values calculated as one-half the laboratory detection limit

PAH = polycyclic aromatic hydrocarbons

pCUL = preliminary cleanup level

pg/g = picograms per gram

PQL = Practical Quantitation Limit

ROD = Record of Decision

SC = sediment core sample

SED = sediment sample

Sediment SL = Target Sediment Concentration Minimum ROD CUL + SMS Lower Tier

SL = Screening Level

SMS = Sediment Management Standards

SS = surface sediment sample

TEQ = Toxicity Equivalency Quotient

µg/kg = micrograms per kilogram

PUBLIC REVIEW DRAFT

Table 4-8

Summary of Constituents of Potential Concern in Media

5900 West Marginal Way Site

Seattle, Washington

Analyte	Vadose Soil	Saturated Soil	Groundwater	Sediment	Stormwater Solids
Metals					
Arsenic	X	X	X	X	X
Chromium	X	X			
Chromium, VI	X	X			
Copper	X	X	X	X	
Zinc	X	X	X	X	X
Antimony		X			
Barium		X			
Cadmium					X
Lead				X	
Mercury	X	X		X	
Nickel			X		
Silver	X	X			
Tributyltin	X			X	
Volatile Organic Compounds (VOCs)					
Benzene		X			
Ethylbenzene	X				
Methylene chloride	X				
Toluene	X				
Total Petroleum Hydrocarbons					
Gasoline Range Organics	X	X			
Diesel Range Organics	X	X	X		
Motor Oil Range Organics	X	X			
TPH-DRO/MORO	X	X	X		
Semivolatile Organic Compounds (SVOCs)					
Pentachlorophenol	X	X	X	X	
1,4-Dichlorobenzene		X			
2,3,4,6-Tetrachlorophenol		X			
2,4,6-Trichlorophenol	X	X	X		
2,4-Dichlorophenol	X	X	X		
2,4-Dimethylphenol		X			
2-Chlorophenol		X			
o-Cresol		X			
p-Cresol (4-Methylphenol)					X
Hexachlorobenzene	X	X		X	
Benzoic acid		X			X
Benzyl alcohol				X	X
Benzyl butyl phthalate		X		X	X
Bis(2-ethylhexyl)phthalate		X	X		X
Dibenzofuran				X	
Dibutyl Phthalate		X			

PUBLIC REVIEW DRAFT

Table 4-8

Summary of Constituents of Potential Concern in Media

5900 West Marginal Way Site

Seattle, Washington

Analyte	Vadose Soil	Saturated Soil	Groundwater	Sediment	Stormwater Solids
Diethyl Phthalate		X			
Ethylene dibromide		X			
n-Nitrosodiphenylamine				X	X
Phenol	X	X		X	X
Polycyclic Aromatic Hydrocarbons (PAHs)					
Carcinogenic PAHs					
Benzo(a)anthracene	X	X		X	
Benzo(a)pyrene	X	X		X	
Total (B+J+K) Benzo(a)fluoranthenes		X		X	
Chrysene		X		X	
Dibenzo(a,h)anthracene	X	X		X	
Indeno(1,2,3-cd)pyrene	X	X		X	
Total Carcinogenic PAHs (ND=0)	X	X	X	X	X
Carcinogenic PAH TEQ (ND=1/2DL)	X	X	X	X	X
Non-Carcinogenic PAHs					
Acenaphthene		X		X	
Acenaphthylene					
Anthracene		X		X	
Benzo(g,h,i)perylene		X		X	
Fluoranthene		X		X	
Fluorene		X		X	
Naphthalene	X	X			
Phenanthrene				X	
Pyrene		X		X	
Polychlorinated Biphenyls (PCBs)					
Aroclors, Total (ND = 0)	X	X	X	X	
Aroclors, Total (ND=0/ND=1/2 DL) ¹	X	X	X	X	
Dioxins/Furans (D/Fs)					
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	X	X	X		
Total Dioxin/Furan Calculated TEQ (ND = 0 DL)	X	X	X	X	X
Total Dioxin/Furan Calculated TEQ (ND = 1/2 DL)	X	X	X	X	X

Notes:

¹ = Aroclors detected in any site media assigned ND=1/2DL (Aroclor 1242, 1248, 1254, 1260). Aroclors not detected in any site media assigned ND=0 (Aroclor 1016, 1221, 1232).

X = Represents an analyte that had at least one detection above the screening level within the media shown.

Gray-highlighted cell = COPC with exceedance frequency > 10% and Exceedance factor > 2

Orange-highlighted cell = Primary COPC

Carcinogenic PAH TEQ (ND = 1/2 DL) = Toxicity Equivalency Quotient set to benzo(a)pyrene where non-detected compounds are equal to one-half the method detection limit.

Dioxin Furan Calculated TEQ (ND = 1/2 DL) = Toxicity Equivalency Quotient set to 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) where non-detected compounds are equal to one-half the method detection limit.

Total Aroclors (ND = 0) = sum of total aroclors where non-detect compounds are set to zero.

TPH-DRO/MORO = combined diesel-range and motor oil-range organics total petroleum hydrocarbons

PUBLIC REVIEW DRAFT
Table 5-1
Photoionization Detector
Readings at Soil Borings
5900 West Marginal Way Site
Seattle, Washington

Location	GP-26	GP-27	GP-28	GP-29	GP-30	GP-31	GP-32	GP-33	GP-34	GP-35	GP-36	GP-37	GP-38	GP-39	GP-40	GP-41	GP-42	GP-43
Ground Surface Elevation (ft)	14.06	13.24	13.67	14.29	14.49	14.37	14.12	14.49	14.7	16.77	16.24	16.13	16.1	16.08	16.64	16.02	17.37	16.43
Depth Range (ft)	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
0-1	1.1	0.9-1.9	1.6-2.6	1-1.8	0.6-0.8	2.7-4.3	1.3-2.2	1.3	0.8-2.2	No Data	No Data	0.8-2	1	1.5	No Data	1.4	No Data	No Data
1-2	2.8-3.4	2.3-4.9	2.7-5.5	2.6	0.6-0.9	4-4.3	3.2-4.3	2.6-4.8	2.7-3.6	No Data	72.1	1.9-2.5	0.4	No Data	No Data	1.3	No Data	No Data
2-3	3.5-3.8	4.8-5.6	3.4	1.3	1.1-2.1	81.6	2.4-2.9	3.6-4.1	72.1	No Data	No Data	1.8-1.9	0.6-1.2	4.8	No Data	--	No Data	No Data
3-4	4.1-4.4	3.3-3.8	2.9-4.1	No Data	2.9	18.6-89.1	1.9-3.2	11.8	76-85.7	No Data	18-48.2	1.7-1.9	1.4-1.5	5-5.8	No Data	--	No Data	No Data
4-5	3.6	0.6	2.1-4.2	0.9	1.9-3.4	5-7	2.1-2.3	5.2-8	8.7-9.9	No Data	4.6	0.7	1.5-1.6	4.5-5.5	No Data	--	No Data	No Data
5-6	3.8	0.1	1.9	No Data	2	5.6-57.9	2.8-3.1	4-4.7	8-9.5	1.7	No Data	1.1-1.3	1.3-1.6	No Data	No Data	--	No Data	0.3
6-7	4.2	0	1.6	0.7	1.5	6.4	0.2	No Data	6.2	No Data	43.7	1.3-1.2	1-1.6	6.7	2.4	--	6.7	No Data
7-8	2.7	0.3	2	1.2	1.6	5.2	0.7	3.2	5.4	No Data	No Data	1.2-1.4	2.8	11.6	No Data	--	No Data	0.1
8-9	2.2	0.5	1.5	1.1	1.9	0.7	0.8	3.1	4.2	0.4	0.7	11.5	1.7	No Data	2.6	--	No Data	No Data
9-10	2.1	--	--	2.1	2	1.2	0.4	2.1	3.1	No Data	0.9	5.5	4.4	11.8	No Data	--	2.5	No Data
10-11	3.1	--	--	0.9	1.2	--	0.3	2.1	2.8	2	No Data	5.8	5	5.9	2.4	--	No Data	No Data
11-12	3.7	--	--	0.7	1.4	--	--	--	--	No Data	1.4-2	6.1-4.9	5.5	No Data	No Data	--	2	No Data
12-13	4.1	--	--	1.1	--	--	--	--	--	No Data	--	--	--	13.5	No Data	--	No Data	No Data
13-14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	No Data	--
14-15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--
15-16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	No Data	--
16-17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--
17-18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	No Data	--
18-19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1	--
19-20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	No Data	--
20-21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--
21-22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	No Data	--
22-23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--
23-24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	No Data	--
24-25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--
25-26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
26-27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27-28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28-29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29-30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
ft = feet
ppm = parts per million
-- = borehole terminated; no data

PUBLIC REVIEW DRAFT
Table 5-1
Photoionization Detector
Readings at Soil Borings
5900 West Marginal Way Site
Seattle, Washington

Location	GP-44	GP-45	GP-46	GP-47	GP-48	GP-49	GP-50	GP-51	GP-52	GP-53	GP-54	GP-55	GP-56	GP-57	GP-58	GP-59	GP-60	GP-61
Ground Surface Elevation (ft)	15.9	15.56	15.34	17.31	16.77	16.53	14.26	17.31	17.55	13.99	13.92	15.75	16.37	17.18	17.27	16.92	14.55	13.27
Depth Range (ft)	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
0–1	1.3-2.1	0.6	1.1	3.4	0.2–1	No Data	2.1-2.3	No Data	No Data	0.2	No Data	1.3-1.6	1.4	0.9	0.8-1.2	0.4-1.2	No Data	1.8-2.3
1–2	0.8	0.5-0.8	0.6	--	--	No Data	2.1-3.8	No Data	No Data	0.2-1.2	No Data	4.5	0.6-17.9	2.7-3.1	1.6-5.1	2.2	No Data	3.8-4
2–3	2.5-3	0.8-3.3	3.5-4.3	--	--	No Data	4	No Data	No Data	2.1	0	4.5-4.6	No Data	2.9-3.9	7-7.2	0.9-4.5	0	4-4.1
3–4	1.2-2.5	3.1-3.4	4.3-4.4	--	--	No Data	4-4.9	No Data	No Data	2.6	No Data	4.8-5.1	3.1-11.5	3.2	1.9-12.5	3-3.1	No Data	4.4-4.6
4–5	3.2	1-2.7	3.7-3.9	--	--	No Data	3.1	No Data	No Data	2.1-3.6	2.1	1.1	10.1	4.1	8.5	3.7	0	3.8-4.1
5–6	0.8	0.1	1.9	--	--	No Data	0.3-3.5	No Data	No Data	0.4-3.8	No Data	No Data	8.2	3.7	4.2	4.2	No Data	1.6
6–7	0.8	0.2	2.1	--	--	2	0.3	1.4	0.6	4.2	1.1	1.8	7.2	2.8	3.7	5.1	1.2	1.3
7–8	0.7	0.3	1.9	--	--	No Data	1.5	No Data	No Data	5.3	No Data	1.2	8.1	3	7.1	6	No Data	1.8
8–9	0.9	No Data	2.6	--	--	1.8	0.9	1.4	No Data	6.2	1	No Data	8.1	No Data	7.8	4.1	1.2	1.2
9–10	0.9	0.4	2.2	--	--	No Data	14	No Data	0.3	4.1	No Data	5	7.2	2.1	4	1.7	No Data	--
10–11	0.8	--	--	--	--	1.6	1.7	No Data	No Data	--	1.1	1.5	5.1	2.8-3.1	2.8	0.8	-	--
11–12	1.3	--	--	--	--	No Data	--	1.3	0.2	--	No Data	No Data	4.1	4.1	5.8	1.2	--	--
12–13	2.3	--	--	--	--	No Data	--	No Data	No Data	--	--	3.2	3.1	5	--	1.4	--	--
13-14	--	--	--	--	--	--	--	No Data	No Data	--	--	--	--	--	--	--	--	--
14-15	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--
15-16	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--
16-17	--	--	--	--	--	--	--	No Data	--	--	--	--	--	--	--	--	--	--
17-18	--	--	--	--	--	--	--	No Data	--	--	--	--	--	--	--	--	--	--
18-19	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--
19-20	--	--	--	--	--	--	--	No Data	--	--	--	--	--	--	--	--	--	--
20-21	--	--	--	--	--	--	--	0.4	--	--	--	--	--	--	--	--	--	--
21-22	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--
22-23	--	--	--	--	--	--	--	No Data	--	--	--	--	--	--	--	--	--	--
23-24	--	--	--	--	--	--	--	No Data	--	--	--	--	--	--	--	--	--	--
24-25	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--
25-26	--	--	--	--	--	--	--	No Data	--	--	--	--	--	--	--	--	--	--
26-27	--	--	--	--	--	--	--	0.4	--	--	--	--	--	--	--	--	--	--
27-28	--	--	--	--	--	--	--	0.1	--	--	--	--	--	--	--	--	--	--
28-29	--	--	--	--	--	--	--	No Data	--	--	--	--	--	--	--	--	--	--
29-30	--	--	--	--	--	--	--	No Data	--	--	--	--	--	--	--	--	--	--

Notes:
ft = feet
ppm = parts per million
-- = borehole terminated; no data

PUBLIC REVIEW DRAFT
Table 5-1
Photoionization Detector
Readings at Soil Borings
5900 West Marginal Way Site
Seattle, Washington

Location	GP-62	GP-63	GP-64	GP-65	GP-66	GP-67	GP-68	GP-69	GP-70	GP-71	GP-72	GP-73	GP-74	GP-75	GP-76	GP-77	GP-78	GP-79	GP-80
Ground Surface Elevation (ft)	13.09	14.65	12.72	13.25	14.03	16.63	14.35	16.89	16.38	15.7	14.26	17.08	14.42	14.83	15.07	16.29	13.22	16.03	17.54
Depth Range (ft)	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
0–1	1.2-1.5	1.7	0.6-1.6	1.7-2	1.1-4.5	No Data	0	No Data	No Data	No Data	No Data	No Data	No Data	0	1.7	No Data	No Data	3.5-3.9	6.3
1–2	1.5-3.5	1.4-2.2	2.7-2.8	2.5-3.1	4.1-4.5	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	0	1.7-2	4.7-5.1	No Data	3.4-4.9	5.2-5
2–3	1.6-2.2	1.2	1-2.9	2.6-2.9	2.7-2.8	0.8	No Data	0.4	No Data	No Data	No Data	0	No Data	No Data	No Data	1.8-2.4	4.75-5.1	No Data	4.6-4.7
3–4	1.9-2.1	1.2	3.4-3.5	1.5-1.7	2.7-2.9	No Data	No Data	No Data	No Data	No Data	No Data	No Data	0	No Data	3.1-3.6	3.7-4.4	No Data	3.2-4.9	6-6.6
4–5	2.2-2.5	0.4-1.6	3.2	1.1	2.1-2.7	0.5	0	No Data	No Data	No Data	0	No Data	No Data	52.4	2.9-3	2.7-2.9	1.8	3.8-5.7	5.5-6.4
5–6	2.1	1.8	2.1	1.1	0.1-2.1	No Data	No Data	No Data	0.5	No Data	No Data	1.4	0.3	61	3-2.5	5.2-5.6	1.3	3.6-4	6.2-5.4
6–7	4.1	1.6	3.2	1.2	0.1	1.3	0	0.7	0.3	1.7	No Data	No Data	No Data	15.5	2.5-4.2	5.2-5.1	2.2	3.6-3.7	3.7-4.3
7–8	3.2	1.3	4.1	1	0.1	No Data	No Data	No Data	No Data	No Data	0	No Data	0.2	No Data	4.2-2	5.3-4.5	2.4	1	3.4-3.8
8–9	2.1	1.5	5.2	1	0.4	0.4	0	No Data	No Data	No Data	No Data	1	No Data	1.5	2-2.3	5.8	2.6	0.9	0.6-0.2
9–10	2.1	3.1	1.2	--	0.4	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	3.2-4.1	5.3	3.1	0.5	0.7
10–11	--	--	--	--	0.9	0.5	0	1.5	0.5	2.1	--	1.1	0	--	4.7	3	3.6	0.7	0.7
11–12	--	--	--	--	--	0.6	0.1	No Data	No Data	No Data	--	0.6	No Data	--	4.3	5	4.1	1	0.2
12–13	--	--	--	--	--	--	--	No Data	No Data	No Data	--	No Data	No Data	--	5.1	4.2	3.3	1	0.5
13-14	--	--	--	--	--	--	--	No Data	--	No Data	--	--	No Data	--	--	--	--	--	2.8
14-15	--	--	--	--	--	--	--	1.7	--	0	--	--	0	--	--	--	--	--	--
15-16	--	--	--	--	--	--	--	No Data	--	0	--	--	0	--	--	--	--	--	--
16-17	--	--	--	--	--	--	--	0	--	No Data	--	--	No Data	--	--	--	--	--	--
17-18	--	--	--	--	--	--	--	No Data	--	No Data	--	--	0	--	--	--	--	--	--
18-19	--	--	--	--	--	--	--	0	--	0	--	--	No Data	--	--	--	--	--	--
19-20	--	--	--	--	--	--	--	No Data	--	0	--	--	0	--	--	--	--	--	--
20-21	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--
21-22	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--
22-23	--	--	--	--	--	--	--	No Data	--	--	--	--	--	--	--	--	--	--	--
23-24	--	--	--	--	--	--	--	No Data	--	--	--	--	--	--	--	--	--	--	--
24-25	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--
25-26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
26-27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27-28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28-29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29-30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
ft = feet
ppm = parts per million
-- = borehole terminated; no data

PUBLIC REVIEW DRAFT
Table 5-1
Photoionization Detector
Readings at Soil Borings
5900 West Marginal Way Site
Seattle, Washington

Location	GP-81	GP-82	GP-83	MW-14D	MW-20D	MW-22	MW-23	MW-24	MW-25	MW-26	MW-27	MW-31D	MW-35D	MW-38D	MW-43D	MW-43S	MW-45D	MW-45S	MW-28S
Ground Surface Elevation (ft)	13.75	14.52	17.34	16.94	17.55	16.73	16.3	16.28	17.21	16.6	16.66	14.52	14.45	14.21	17.03	17.12	16.69	16.67	14.71
Depth Range (ft)	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
0-1	0.7-5.6	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	0.4	No Data	No Data	No Data	No Data	0.21
1-2	1.1-1.3	1.2	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	0.2	No Data	No Data	No Data	0	0.21
2-3	1.1-1.2	1-5.1	No Data	No Data	No Data	0	0	0	0	0	0	No Data	0	0.4	0	0	0.3	No Data	No Data
3-4	1-1.2	6.6-2.5	4.1	0.19	2.6	No Data	No Data	0	0	0	0	0.5	0	No Data	0	0	No Data	0	0.23
4-5	0-0.7	4.9	3.9	1.31	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	0	No Data	2.7	No Data	1.4	No Data	No Data
5-6	0.2-1	5-6.6	2.6	1.31	No Data	0	0	0	0	0	0	0.2	0.2	No Data	No Data	No Data	No Data	No Data	No Data
6-7	0	9.6	4.9	0.21	1.6	No Data	No Data	0	0	0	0	No Data	No Data	No Data	2.4	0	0.8	0	No Data
7-8	0	7.0-4.2	6.4	0.24	No Data	0	0	No Data	No Data	No Data	No Data	0.2	0.3	No Data	7.4	No Data	No Data	No Data	No Data
8-9	0	0.7-2.5	6.3	0.24	No Data	No Data	0	0	0	0	0	No Data	0.3	No Data	No Data	0	0.2	0	No Data
9-10	0	0.4	6.4	0.54	1.1	0	No Data	No Data	No Data	No Data	No Data	0.6	No Data	No Data	11.3	No Data	No Data	No Data	--
10-11	0.3	--	5.3	0.54	No Data	No Data	0	0	0	0	0	0	0.1	0	123.5	0	0	0.1	--
11-12	--	--	5.9	0.54	No Data	No Data	No Data	No Data	0	0	0	0	No Data	No Data	No Data	No Data	No Data	No Data	--
12-13	--	--	4.8	0.54	1.5	0	0	0	No Data	0	0	No Data	0.3	0.3	0.3	0	0	0.5	--
13-14	--	--	3.6	No Data	No Data	0	0	0	0	No Data	No Data	No Data	No Data	No Data	0.4	--	No Data	0	--
14-15	--	--	--	No Data	0	No Data	No Data	No Data	No Data	No Daya	No Data	0	0	0.1	No Data	--	0	--	--
15-16	--	--	--	No Data	0	--	--	--	--	--	--	0	0.4	No Data	0	--	No Data	--	--
16-17	--	--	--	No Data	No Data	--	--	--	--	--	--	No Data	No Data	0	No Data	--	0	--	--
17-18	--	--	--	No Data	0	--	--	--	--	--	--	0	No Data	0	0	--	No Data	--	--
18-19	--	--	--	No Data	0	--	--	--	--	--	--	No Data	0.1	No Data	No Data	--	0	--	--
19-20	--	--	--	Mo Data	0	--	--	--	--	--	--	No Data	No Data	No Data	No Data	--	0	--	--
20-21	--	--	--	No Data	0.4	--	--	--	--	--	--	0	0.1	0	0	--	No Data	--	--
21-22	--	--	--	No Data	No Data	--	--	--	--	--	--	No Data	No Data	No Data	0	--	0	--	--
22-23	--	--	--	No Data	0.4	--	--	--	--	--	--	No Data	No Data	0.7	No Data	--	No Data	--	--
23-24	--	--	--	No Data	No Data	--	--	--	--	--	--	0	No Data	No Data	No Data	--	No Data	--	--
24-25	--	--	--	No Data	0.2	--	--	--	--	--	--	No Data	0	0.1	0	--	0	--	--
25-26	--	--	--	--	0	--	--	--	--	--	--	0	0.5	--	No Data	--	--	--	--
26-27	--	--	--	--	No Data	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27-28	--	--	--	--	No Data	--	--	--	--	--	--	--	--	--	--	--	-	--	--
28-29	--	--	--	--	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29-30	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
ft = feet
ppm = parts per million
-- = borehole terminated; no data

PUBLIC REVIEW DRAFT
Table 5-1
Photoionization Detector
Readings at Soil Borings
5900 West Marginal Way Site
Seattle, Washington

Location	MW-29S	MW-30S	MW-31S	MW-32D	MW-32DR	MW-32S	MW-33S	MW-34S	MW-35S	MW-36S	TB-01A	TB-01B	TB-02B	TB-03C	TB-03D	TB-04A	TB-05A	TB-05B
Ground Surface Elevation (ft)	13.73	12.63	14.53	15.82	15.35	15.81	15.72	14.45	14.45	17.3	12.68	12.9	13.09	16.57	16.95	13.09	17.12	17.07
Depth Range (ft)	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
0–1	1.08–4.28	4.12–4.6	No Data	12.15	No Data	No Data	4.05	4.35	No Data	2.91	0	No Data	No Data	0	No Data	No Data	No Data	No Data
1–2	3.47–3.61	2.9–5.88	0.24	16.28–26.11	No Data	No Data	4.34	3.51	8.8	No Data	0	No Data	0	0	0	0	No Data	No Data
2–3	4.3–7.31	0.48–0.51	0.05	8.68	No Data	0.05	4.36	3.24	22.31–30.02	No Data	No Data	2.2	No Data	--	No Data	No Data	2.5	3.7
3–4	6.03–6.46	3.19	1.09	5.62–7.03	22.4	No Data	0.02	3.24–3.29	3.72	2.39	No Data	No Data	No Data	--	0	No Data	No Data	No Data
4–5	5.51	No Data	8.77	2.18	No Data	0.08	10.51	No Data	0.10	2.54	--	No Data	0	--	No Data	No Data	No Data	2.2
5–6	No Data	No Data	No Data	1.99	No Data	1.15	No Data	No Data	No Data	2.35	--	2.3	No Data	--	0	0	1.5	No Data
6–7	5.44	No Data	No Data	No Data	29.85	1.18	No Data	No Data	No Data	No Data	--	No Data	0	--	No Data	No Data	No Data	No Data
7–8	5.63	--	No Data	1.41	No Data	1.19	No Data	No Data	No Data	No Data	--	1	No Data	--	0	0	0	1.1
8–9	No Data	--	No Data	No Data	No Data	1.69	No Data	No Data	No Data	No Data	--	0	0	--	No Data	No Data	No Data	No Data
9–10	7.34	--	--	1.45	No Data	No Data	No Data	No Data	No Data	No Data	--	1.1	No Data	--	0	0	2.3	No Data
10–11	--	--	--	1.18	No Data	No Data	No Data	No Data	--	No Data	--	--	0	--	No Data	--	No Data	2.5
11–12	--	--	--	0.83	No Data	No Data	No Data	--	--	No Data	--	--	0	--	0	--	No Data	No Data
12–13	--	--	--	No Data	No Data	--	--	--	--	No Data	--	--	0	--	0	--	7.3	4.1
13–14	--	--	--	No Data	No Data	--	--	--	--	--	--	--	0	--	No Data	--	No Data	No Data
14–15	--	--	--	19.85	No Data	--	--	--	--	--	--	--	No Data	--	No Data	--	No Data	No Data
15–16	--	--	--	24.82	No Data	--	--	--	--	--	--	--	--	--	--	--	--	1.8
16–17	--	--	--	No Data	No Data	--	--	--	--	--	--	--	--	--	--	--	--	2.7
17–18	--	--	--	17.52	No Data	--	--	--	--	--	--	--	--	--	--	--	--	No Data
18–19	--	--	--	0.11	No Data	--	--	--	--	--	--	--	--	--	--	--	--	No Data
19–20	--	--	--	No Data	No Data	--	--	--	--	--	--	--	--	--	--	--	--	2.3
20–21	--	--	--	No Data	No Data	--	--	--	--	--	--	--	--	--	--	--	--	--
21–22	--	--	--	No Data	No Data	--	--	--	--	--	--	--	--	--	--	--	--	--
22–23	--	--	--	No Data	No Data	--	--	--	--	--	--	--	--	--	--	--	--	--
23–24	--	--	--	No Data	No Data	--	--	--	--	--	--	--	--	--	--	--	--	--
24–25	--	--	--	No Data	No Data	--	--	--	--	--	--	--	--	--	--	--	--	--
25–26	--	--	--	--	No Data	--	--	--	--	--	--	--	--	--	--	--	--	--
26–27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27–28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28–29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29–30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
ft = feet
ppm = parts per million
-- = borehole terminated; no data

PUBLIC REVIEW DRAFT
Table 5-1
Photoionization Detector
Readings at Soil Borings
5900 West Marginal Way Site
Seattle, Washington

Location	TB-06A	TB-06B	TB-06C	TB-06D	TB-06E	TB-06F	TB-07
Ground Surface Elevation (ft)	17.32	17.46	17.22	17.47	17.22	17.45	14.7
Depth Range (ft)	ppm	ppm	ppm	ppm	ppm	ppm	ppm
0–1	No Data	No Data	No Data	No Data	No Data	No Data	0
1–2	0	No Data	No Data	No Data	No Data	No Data	--
2–3	No Data	1.7	0.5	0.9	1.6	0	--
3–4	No Data	No Data	No Data	No Data	No Data	No Data	--
4–5	1	No Data	No Data	1.4	No Data	0	--
5–6	1	0	1.8	No Data	1.5	No Data	--
6–7	--	No Data	No Data	0.2	No Data	No Data	--
7–8	--	2.2	0.6	No Data	2.1	0.5	--
8–9	--	No Data	No Data	0.5	No Data	No Data	--
9–10	--	No Data	No Data	No Data	No Data	0	--
10–11	--	2.4	2	0.4	1.6	No Data	--
11–12	--	--	--	0.3	--	0	--
12–13	--	--	--	--	--	No Data	--
13-14	--	--	--	--	--	No Data	--
14-15	--	--	--	--	--	No Data	--
15-16	--	--	--	--	--	0	--
16-17	--	--	--	--	--	No Data	--
17-18	--	--	--	--	--	0	--
18-19	--	--	--	--	--	No Data	--
19-20	--	--	--	--	--	0	--
20-21	--	--	--	--	--	No Data	--
21-22	--	--	--	--	--	0	--
22-23	--	--	--	--	--	No Data	--
23-24	--	--	--	--	--	No Data	--
24-25	--	--	--	--	--	0	--
25-26	--	--	--	--	--	--	--
26-27	--	--	--	--	--	--	--
27-28	--	--	--	--	--	--	--
28-29	--	--	--	--	--	--	--
29-30	--	--	--	--	--	--	--

Notes:
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PUBLIC REVIEW DRAFT
Table 7-1
Sources of Contaminants of Concern, Release Mechanisms and Impacted Media
5900 West Marginal Way Site
Seattle, Washington

Primary Source	Operator	Time Period	Location		Primary Contaminants of Potential Concern											Primary Release						Secondary Release															
																Release Mechanism					Impacted Media		Release Mechanism					Impacted Media									
			On Property	Off-Property	Arsenic	Copper	Zinc	Tributyltin	PCP	Other Phenals	PCBs	D/F	TPH-DRO/MORO	cPAH TEQ	Individual cPAHs	Surface Spills and Leaks	Solid Waste Disposal	Liquid Waste Discharge/Deposition	Air Deposition	Surficial Erosion	Unsaturated Soil	Embayment Surface Water and Sediment	Leaching/Infiltration	Erosion	Storm Water Discharge/Deposition	Groundwater Discharge/Deposition	LDW Surface Water Transport/Deposition	Unsaturated Soil	Saturated Soil	Shallow Groundwater Aquifer	Deep Groundwater Aquifer	Storm Water	Embayment Surface Water and Sediment				
Wood preserving operations - treatment area	Mineralized Cell Wood Preserving Co.	1936 to 1939	●		●	●	●								●		●				●	●	●	●	●		●	●	●	●	●	●					
Wood preserving operations - treated log handling (shoreline , dock, log raft, truck)	Mineralized Cell Wood Preserving Co.	1936 to 1939	●		●	●	●								●						●	●															
Charcoal and Whetlerite manufacturing - production area	Carlisle Lumber Co., Crown Zellerbach and US Army	1941 to 1944	●			●	●								●	●	●	●			●	●	●	●	●		●	●	●	●	●	●					
Charcoal and Whetlerite manufacturing - testing area	Carlisle Lumber Co., Crown Zellerbach and US Army	1941 to 1944	●		●										●	●	○				●	●	●	●	●		●	●	●	●	●	●					
Chemical manufacturing - PCP and sodium pentachlorophenate pilot plant areas	Reichhold Chemical	1946 to 1961	●						●	●		●			●						●	●	●	●	●		●	●	●		●	●					
Chemical manufacturing - washwater impoundment and 240 foot outfall areas	Reichhold Chemical	1956 to 1957							●	●		●					●				●	●	●		●		●	●	●		●	●					
Chemical manufacturing - ancillary operations (laboratory, loading area, rail spur)	Reichhold Chemical	1946 to 1961	●						●	●		●			●						●						●	●									
Chemical manufacturing - stormwater trenches and outfalls	Reichhold Chemical	1946 to 1961	●		●	●	●		●	●	●	●	●	●					●		●	●	●	●	●		●	●	●		●	●					
Ancillary facility operations (i.e., maintenance)	Carlisle Lumber Co., Crown Zellerbach and US Army	1941 to 1944	●										●	●	●	●		●			●		●					●	●	●			●				
	Reichhold Chemical	1946 to 1961																																			
Facility demolition and redevelopment - impacted soil fill placement and spreading	Port of Seattle, Kaiser Cement	1964 to 1969	●		●	●	●		●	●	●	●	●	●		●				●	●	●	●	●		●	●	●	●	●	●	●					
Cement terminal operations - stormwater conveyance system and outfall	Kaiser Cement, Ash Grove, Lone Star/Glacier	1964 to Present	●		●		●		●	●	●	●	●	●			●				●	●	●	●	●		●	●	●	●	●	●					
Cement terminal operations - historical stormwater conveyance system	Kaiser Cement, Ash Grove, Lone Star/Glacier	1964 to Present	●		●		●		●	●	●	●	●	●			●				●	●	●	●	●		●	●	●	●	●	●					
Electrical equipment containing PCBs (transformers, etc.)	Mineralized Cell Wood Preserving Co.	1936 to 1939	●								○		○	○	○	●		●			●	●		●													
	Carlisle Lumber Co., Crown Zellerbach and US Army	1941 to 1944																																			
	Reichhold Chemical	1946 to 1961									●		●	●	●																						●
	Port of Seattle, Kaiser Cement	1964 to 1969																																			
	Kaiser Cement, Ash Grove, Lone Star/Glacier	1964 to Present																																			
Vehicle Operations (including truck, ship and/or rail)	Mineralized Cell Wood Preserving Co.	1936 to 1939	●										●	●	●	●				●	●	●	●	●		●	●	●		●	●	●					
	Carlisle Lumber Co., Crown Zellerbach and US Army	1941 to 1944																																			
	Reichhold Chemical	1946 to 1961																																			
	Port of Seattle, Kaiser Cement	1964 to 1969																																			
	Kaiser Cement, Ash Grove, Lone Star/Glacier	1964 to Present																																			
Off-Site stormwater - south ditch from West Marginal Way/western properties	Unknown; possibly City of Seattle	1940 to 1969	●	●	○	○	○		○	○	○	○	○	○			●				●	●	●	●	●		●	●	●	●	●	●					
Off-Site stormwater and wastewater - south ditch from tin recycler	MRI Corporation	1963 to 1998		●	○	○	○						○	○	○			●			●	●	●	●	●		●	●	●	●	●	●					
Off-Site stormwater - outfall from Port of Seattle T115/SPU	Seattle Public Utility	1970 to Present		●	●		●		●	●	●	●	●	●			●				●		●								●	●					
Off-Site stormwater - SPU 48-inch-diameter outfall	Seattle Public Utility	1970 to Present		●	●		●		●	●	●	●	●	●			●				●		●								●	●					
Off-Site stormwater - DSI outfall and sheetflow across upland property boundary	Duwamish Shipyard, Inc.	1930s to Present		●	●	●	●	●				○	●	●	●	●	●	●		●	●		●	●			●	●	●			●	●				
Off-Site LDW surface water and sediment - deposition from nearby industrial sources	Multiple	1900 to Present		●	●	●	●		●	●	●	●	●	●			●				●		●			●					●	●					
Off-Site impacted groundwater/bank soil - migration/erosion from Port of Seattle T115	Port of Seattle	1970 to Present		●	○	○	○						○	○	○			●		●		●										●	●				
Air Emissions from off-site sources	Multiple	1900 to Present		●	●	●	●		●	●	●	●	●	●				●		●	●	●	●	●	●	●	●	●	●	●	●	●	●				

Notes:
● = Confirmed based on historical information, published literature and/or sampling data.
○ = Presumed based on historical information, published literature and/or sampling data.

Key:
COPC = contaminant of potential concern
cPAHs = carcinogenic polycyclic aromatic hydrocarbons
D/Fs = dioxins and furans
PCB = polychlorinated biphenyls
PCP = pentachlorophenol
SPU = Seattle Public Utilities
T115 = Port of Seattle Terminal 115

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Table 7-2

Vertical Travel Time Through Aquitard in the Vicinity of the Former Wood Preserving Operations Area

5900 West Marginal Way Site

Seattle, Washington

Geologic Unit	Lithology	Approximate Depth to Top of Unit Throughout Site ¹ (ft bgs)	Approximate Depth to Bottom of Unit Throughout Site ¹ (ft bgs)	Approximate Thickness ² (ft)	Horizontal Hydraulic Conductivity ³ (ft/day)	Porosity ⁴ (unitless)
Shallow Aquifer	Shallow Fill	0.0 - 5.0	1.5 - 10.0	1.5 - 5	3.48	0.30
	Dredge Fill	0.0 - 10.0	4.5 - 14.0	5 - 8		
Silt Aquitard	Silt Aquitard	4.5 - 14.0	10.5 - 23.0	6 - 10	0.00283	0.20

Groundwater Flow Direction	Hydraulic Gradient ⁵ (ft/ft)	Equivalent Hydraulic Conductivity ⁶ (ft/day)	Specific Discharge ⁷ (ft/day)	Seepage Velocity ⁸ (ft/day)	Vertical Travel Time ⁹ (years)
Horizontal	0.003	1.78 - 2.25	0.00535 - 0.00676	0.0268 - 0.0338	--
Vertical	-0.335	0.00581 - 0.00802	0.00195 - 0.00269	0.00779 - 0.01076	4.3 - 7.2

Notes:

1. Approximate depths are estimated ranges from cross-sections throughout the site in Figures 2-14 through 2-19.
 2. Approximate thicknesses of geologic units is represented as a range based on deep soil borings in the vicinity of the former wood preserving operations area (MW-3D, MW-14D, MW-20D, MW-43D, and MW-45D).
 3. Horizontal hydraulic conductivities represent geometric means via estimated slug testing results, discussed in RI Section 2.9.
 4. Porosity values are estimated as described in RI Section 2.9.
 5. Average vertical hydraulic gradient is equal to the average of morning and afternoon vertical gradients as calculated in Table 2-2 from the January 2018 sampling event. The January 2018 downward vertical gradients ranged from -0.11 ft/ft to -0.51 ft/ft.
 6. Equivalent hydraulic conductivity is used to describe the average hydraulic conductivity obtained for an aquifer, when the matrix is composed of multiple permeabilities. Stratigraphy from MW-20D and MW-3D was used for calculations because these wells represent the minimum and maximum vertical travel times within the former wood preserving operations area.
 7. Specific discharge from the shallow to the deep aquifer, through the silt aquitard, is equal to the product of hydraulic gradient and equivalent hydraulic conductivity. Stratigraphy from MW-20D and MW-3D was used for calculations because these wells represent the minimum and maximum vertical travel times within the former wood preserving operations area.
 8. Seepage velocity from the shallow to the deep aquifer, through the silt aquitard, is equal to the quotient of specific discharge and porosity. Stratigraphy from MW-20D and MW-3D was used for calculations because these wells represent the minimum and maximum vertical travel times within the former wood preserving operations area.
 9. Vertical travel time from the shallow to the deep aquifer represents seepage velocity travel time based on total thickness from the shallow aquifer to the bottom of the silt aquitard. Stratigraphy from MW-20D and MW-3D was used for calculations because these wells represent the minimum and maximum vertical travel times within the former wood preserving operations area.
- bgs = below ground surface
ft = feet

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Table 7-3
Chemical Properties of Contaminants of Concern
5900 West Marginal Way Site
Seattle, Washington

Chemical of Interest	CAS No.	Boiling Point (C)	Melting Point (C)	Specific Gravity	Form at 20 C	Vapor Pressure (atm)	Volatile	Solubility at 20 C (mg/L)	Henry's Law Constant (atm-m3/mol)	Partitioning Coefficient Organic Carbon to Water (Koc) (L/kg)	Bioconcentration Factor (L/kg)
Metals											
Arsenic	7440-38-2	Sublimes ¹	613 ¹	5.75 ¹	solid	No Data	no	Insoluble ¹	No Data	No Data	44 ¹⁰
Copper	7440-50-8	2595 ¹	1083 ¹	8.94 ¹	solid	No Data	no	Insoluble ¹	No Data	No Data	36 ¹⁰
Zinc	7440-66-6	908 ⁵	419 ⁵	7.14 ⁵	solid	No Data	no	Insoluble ¹	No Data	No Data	47 ¹⁰
cPAHs											
Benzo(a)anthracene	56-55-3	438 ¹¹	162 ¹¹	1.3 ¹¹	solid		no	0.0094 ²	1.25E-05 ²	357,537 ⁸	30 ¹⁰
Benzo(a)pyrene	50-32-8	312	179	1.35 ¹¹	solid	7.2237E-12	no	0.00162 ²	4.6E-07 ²	968,774 ⁸	30 ¹⁰
Benzo(b)fluoranthene	205-99-2	481 ¹²	168 ¹²	No Data	solid		no	0.0015 ²	6.6E-07 ²	599,400 ²	30 ¹⁰
Benzo(k)fluoranthene	207-08-9	480 ¹²	217 ¹²	No Data	solid		no	0.0008 ²	5.8E-07 ²	587,400 ²	30 ¹⁰
Chrysene	218-01-9	448 ¹¹	255.5 ¹¹	1.27 ¹¹	solid		no	0.002 ²	5.2E-06 ²	180,500 ²	30 ¹¹
Dibenzo(a,h)anthracene	53-70-3	524 ¹¹	266.5 ¹¹	1.28 ¹¹	solid		no	0.00249 ²	3.8E-06 ²	17,891,014 ⁸	30 ¹⁰
Indeno(1,2,3-cd)pyrene	193-39-5	536 ¹²	164 ¹²	No Data	solid		no	0.000022 ²	1.6E-06 ²	3,470,000 ²	30 ¹⁰
Petroleum Hydrocarbons											
Total Petroleum Hydrocarbons (Aliphatic Medium) - Diesel Range	NA	No Data	No Data	0.81 - 0.96 ¹⁴	liquid	8.7E-4 ⁹	moderately	0.22 ²	3.4 ²	796 ²	No Data
Total Petroleum Hydrocarbons (Aromatic Medium) - Diesel Range	NA	No Data	No Data	0.81 - 0.96 ¹⁴	liquid	2.9E-3 ⁹	moderately	27.8 ²	4.79E-04 ²	2011 ²	No Data
Total Petroleum Hydrocarbons (Aliphatic High) - Heavy Oil Range	NA	No Data	No Data	0.88 - 0.94 ¹⁴	liquid	3.5E-4 ⁹	moderately	0.0037 ²	8.18 ²	4818 ²	No Data
Total Petroleum Hydrocarbons (Aromatic High) - Heavy Oil Range	NA	No Data	No Data	0.88 - 0.94 ¹⁴	liquid	3.2E-5 ⁹	no	0.26 ²	8.86E-06 ²	55450 ²	No Data
SVOCs											
Pentachlorophenol	87-86-5	309 ¹	190 ¹	1.98 ¹	solid	1.3E-07 ¹	no	14 mg/L ²	2.5E-08 ²	592 ²	11 ¹⁰
PCBs											
Aroclor 1254	11097-69-1	365 ³	No Data	1.51 ³	clear liquid ³	1.04E-07 ³	no	0.043 mg/L ²	2.8E-04 ²	130,000 ²	31,200 ¹⁰
Aroclor 1260	11096-82-5	154 ⁴	No Data	1.56 ⁵	sticky resin ⁵	5.3E-08 ⁵	no	0.014 mg/L ²	3.4E-04 ²	822,422 ⁸	10,000,000 ¹³
Dioxin/Furans											
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	1746-01-6	412.2 ⁷	305 ⁶	No Data	solid	1.97E-12 ⁶	no	2E-04 mg/L ²	5E-05 ²	250,000 ²	5000 ¹⁰

Notes:

1. From National Institute of Occupational Safety & Health (NIOSH) Pocket Guide to Chemical Hazards, Publication No. 97-140.

2. U.S. Environmental Protection Agency Regional Screening Level Chemical-specific Parameters Supporting Table, January 2015.

3. National Institutes of Health (NIH) U.S. National Library of Medicine (NLM) Toxicology Data Network (Toxnet) Data Sheet for Aroclor 1254.

4. National Institute of Standards and Technology (NIST) Material Safety Data Sheet for Aroclor 1260 in Transformer Oil, July 2011.

5. NIH NLM Toxnet Data Sheet for Aroclor 1260.

6. NIH NLM Toxnet Data Sheet for 2,3,7,8-TCDD.

7. California Office of Environmental Health Hazard Assessment (OEHHA) Chronic Toxicity Summary for Chlorinated Dibenzo-p-Dioxins and Chlorinated Dibenzofurans.

8. Soil Organic Carbon-Water Partitioning Values, Washington Administrative Code (WAC) 173-340-900 Table 747-1.

9. International Journal of Environmental Research & Public Health, ISSN 1660-4601, Risk-Based Evaluation of Total Petroleum Hydrocarbons in Vapor Intrusion Studies.

10. <https://fortress.wa.gov/ecy/clarc/FocusSheets/CLARC%20Parameters.pdf>.

11. <http://web.doh.state.nj.us/rtkhsfs/indexfs.aspx>.

12. International Programme on Chemical Safety INCHEM (<http://www.inchem.org/>).

13. HAZWRAP (1994).

14. Engineering Toolbox, Liquids and Fluids - Specific Gravities - SG, based on water at 60 degrees Fahrenheit and SG = 1.

Key:

atm = atmosphere

C = degrees Celsius

Koc = organic carbon-water partitioning coefficient

L/kg = liters per kilogram

mg/L = milligrams per liter