TABLE 1-1

Soil Cleanup Levels and Contaminants of Potential Concern

Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Chemical	CAS No.	Analytical Method	Method B Non-Cancer Soil Direct Contact (mg/kg)	Method B Cancer Soil Direct Contact (mg/kg)	TEE Soil CUL Industrial or Commercial Site (mg/kg)	Background Concentrations	Soil Cleanup Level Lowest ARAR (mg/kg), Adjusted for Background Concentration	MDL Used as Reporting Limit (1)	No. of Analyses	Number of Detections	Total % Detections
Chemical	**CAS**										
Metals											
Antimony	7440-36-0	EPA 6020	3.20E+01	na	na	na	3.20E+01		125	44	35.2%
Arsenic	7440-38-2	EPA 6020	2.40E+01	6.67E-01	2.00E+01	7.30E+00	7.30E+00		129	92	71.3%
Beryllium	7440-41-7	EPA 6020	1.60E+02	na	na	6.10E-01	1.60E+02		93	44	47.3%
Cadmium	7440-43-9	EPA 6020	8.00E+01	na	3.60E+01	7.70E+01	3.60E+01		130	47	36.2%
Chromium (III)	7440-47-3	EPA 6020	na	na	1.35E+02	4.80E+01	1.35E+02		130	130	100.0%
Chromium (VI)	18540-29-9	EPA 6020	2.40E+02	na	na	na	2.40E+02		5	0	0.0%
Copper	7440-50-8	EPA 6020	3.20E+03	na	5.50E+02	3.60E+01	5.50E+02		129	129	100.0%
Lead	7439-92-1	EPA 6020	na	na	2.20E+02	2.40E+01	2.20E+02		140	133	95.0%
Mercury, inorganic	7439-97-6	EPA 7471	na	na	7.00E-01	7.00E-02	7.00E-01		129	37	28.7%
Nickel	7440-02-0	EPA 6020	1.60E+03	na	1.85E+03	4.80E+01	1.60E+03		129	127	98.4%
Selenium	7782-49-2	EPA 6020	4.00E+02	na	8.00E-01	7.80E-01	8.00E-01		93	89	95.7%
Silver	7440-22-4	EPA 6020	4.00E+02	na	na	na	4.00E+02		125	33	26.4%
Thallium	7440-28-0	EPA 6020	8.00E-01	na	na	na	8.00E-01		125	3	2.4%
Zinc	7440-66-6	EPA 6020	2.40E+04	na	5.70E+02	8.50E+01	5.70E+02		129	128	99.2%
PCBs											
Aroclor 1016	na	EPA 8082	5.60E+00	1.43E+00	na	na	1.43E+00	X	132	12	9.1%
Aroclor 1221	na	EPA 8082	na	na	na	na	na	X	132	0	0.0%
Aroclor 1232	na	EPA 8082	na	na	na	na	na	X	132	0	0.0%
Aroclor 1242	na	EPA 8082	na	na	na	na	na	X	132	13	9.8%
Aroclor 1248	na	EPA 8082	na	na	na	na	na	X	132	0	0.0%
Aroclor 1254	na	EPA 8082	1.60E+00	5.00E-01	na	na	5.00E-01	X	132	29	22.0%
Aroclor 1260	na	EPA 8082	na	5.00E-01	na	na	5.00E-01	X	132	35	26.5%
Aroclor 1262	na	EPA 8082	na	na	na	na	na	X	96	0	0.0%
Aroclor 1268	na	EPA 8082	na	na	na	na	na	X	96	0	0.0%
Total PCBs	1336-36-3	EPA 8082	na	5.00E-01	2.00E+00	na	5.00E-01	X	132	58	43.9%
VOCs											
1,1,1,2-Tetrachloroethane	630-20-6	EPA 8260C	2.40E+03	3.85E+01	na	na	3.85E+01		87	0	0.0%
1,1,1-Trichloroethane	71-55-6	EPA 8260C	1.60E+05	na	na	na	1.60E+05		87	0	0.0%
1,1,2,2-Tetrachloroethane	79-34-5	EPA 8260C	1.60E+03	5.00E+00	na	na	5.00E+00		87	1	1.1%
1,1,2-Trichloroethane	79-00-5	EPA 8260C	3.20E+02	1.75E+01	na	na	1.75E+01		87	0	0.0%
1,1-Dichloroethane	75-34-3	EPA 8260C	1.60E+04	1.75E+02	na	na	1.75E+02		87	0	0.0%
1,1-Dichloroethylene	75-35-4	EPA 8260C	4.00E+03	na	na	na	4.00E+03		87	0	0.0%
1,1-Dichloropropene	563-58-6	EPA 8260C	na	na	na	na	na		87	0	0.0%
1,2,3-Trichlorobenzene	87-61-6	EPA 8260C	na	na	na	na	na		87	0	0.0%
1,2,3-Trichloropropane	96-18-4	EPA 8260C	3.20E+02	3.33E-02	na	na	3.33E-02		87	0	0.0%
1,2,4-Trichlorobenzene	120-82-1	EPA 8260C	8.00E+02	3.45E+01	na	na	3.45E+01		87	1	1.1%
1,2,4-Trimethylbenzene	95-63-6	EPA 8260C	na	na	na	na	na		87	8	9.2%
1,2-Dibromo-3-chloropropane	96-12-8	EPA 8260C	1.60E+01	1.25E+00	na	na	1.25E+00		87	0	0.0%
1,2-Dichloroethane (EDC)	107-06-2	EPA 8260C	4.80E+02	1.10E+01	na	na	1.10E+01		87	0	0.0%
1,2-Dichloropropane	78-87-5	EPA 8260C	7.20E+03	2.78E+01	na	na	2.78E+01		87	0	0.0%
1,3,5-Trimethylbenzene	108-67-8	EPA 8260C	8.00E+02	na	na	na	8.00E+02		87	2	2.3%
1,3-Dichloropropane	142-28-9	EPA 8260C	na	na	na	na	na		87	0	0.0%
2,2-Dichloropropane	594-20-7	EPA 8260C	na	na	na	na	na		87	0	0.0%
2-Chlorotoluene	95-49-8	EPA 8260C	1.60E+03	na	na	na	1.60E+03		87	0	0.0%
4-Chlorotoluene	106-43-4	EPA 8260C	na	na	na	na	na		87	0	0.0%
4-Isopropyltoluene	99-87-6	EPA 8260C	na	na	na	na	na		87	3	3.4%
Acetone	67-64-1	EPA 8260C	7.20E+04	na	na	na	7.20E+04		87	0	0.0%
Benzene	71-43-2	EPA 8260C	3.20E+02	1.82E+01	na	na	1.82E+01		88	3	3.4%
Bromobenzene	108-86-1	EPA 8260C	na	na	na	na	na		87	0	0.0%
Bromoform	75-25-2	EPA 8260C	1.60E+03	1.27E+02	na	na	1.27E+02		87	0	0.0%
Bromomethane	74-83-9	EPA 8260C	1.12E+02	na	na	na	1.12E+02		87	0	0.0%
Carbon disulfide	75-15-0	EPA 8260C	8.00E+03	na	na	na	8.00E+03		87	7	8.0%
Carbon tetrachloride	56-23-5	EPA 8260C	3.20E+02	1.43E+01	na	na	1.43E+01		87	0	0.0%

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Chemical	Highest Recorded Soil Concentation at DMC (mg/kg)	Location with Highest Concentration	Detections Above CUL	Total % of Samples with Detections Over CUL	Number of Different Locations with CUL Exceedances	Total % of Different Locations with CUL Exceedances	Exceedance Factor for Highest Concentrations	Preliminary Soil COPC List Based on SOIL CUL	Final Soil COPC List If number of locations > 5% and Exceedance Factor > 2 and Total % Detections Over CUL > 5%, **OR** Exceedance Factor >10	Groundwater COPC List See Table 2.
Chemical										
Metals										
Antimony	3.70E+01	B13	**1**	**0.80%**	**1**	**1.41%**	**1**	Antimony		
Arsenic	1.40E+02	MW-2D	**26**	**20.16%**	**20**	**28.17%**	**19**	Arsenic	Arsenic	Arsenic
Beryllium	5.24E-01	MW14	0	0.00%	0	0.00%				
Cadmium	4.30E+01	B3-R	**1**	**0.77%**	**1**	**1.41%**	**1**	Cadmium		
Chromium (III)	2.70E+03	B4	**9**	**6.92%**	**9**	**12.68%**	**20**	Chromium (III)	Chromium (III)	
Chromium (VI)	---	---	0	0.00%	0	0.00%				
Copper	1.42E+04	GLB02	**4**	**3.10%**	**4**	**5.63%**	**25**	Copper	Copper	Copper
Lead	1.20E+04	B3-R	**27**	**19.29%**	**23**	**32.39%**	**54**	Lead	Lead	Lead
Mercury, inorganic	1.50E+00	B3-R	**4**	**3.10%**	**4**	**5.63%**	**2**	Mercury, inorganic		Mercury
Nickel	4.39E+02	GLB10	0	0.00%	0	0.00%				Nickel
Selenium	2.02E+00	MW14	**84**	**90.32%**	**28**	**39.44%**	**2**	Selenium		
Silver	7.50E+00	MW14	0	0.00%	0	0.00%				
Thallium	6.20E+00	B3-R	**1**	**0.80%**	**1**	**1.41%**	**7**	Thallium		
Zinc	3.10E+04	B3-R	**12**	**9.30%**	**10**	**14.08%**	**54**	Zinc	Zinc	Zinc
PCBs										
Aroclor 1016	8.89E+00	MW05	**1**	**0.76%**	**1**	**1.41%**	**6**	Aroclor 1016		
Aroclor 1221	---	---	0	0.00%	0	0.00%				
Aroclor 1232	---	---	0	0.00%	0	0.00%				
Aroclor 1242	3.40E+01	B7	0	0.00%	0	0.00%				
Aroclor 1248	---	---	0	0.00%	0	0.00%				
Aroclor 1254	6.95E+00	MW05	**11**	**8.33%**	**11**	**15.49%**	**13**	Aroclor 1254	Aroclor 1254	Aroclor 1254
Aroclor 1260	2.40E+00	B1	**4**	**3.03%**	**4**	**5.63%**	**4**	Aroclor 1260		
Aroclor 1262	---	---	0	0.00%	0	0.00%				
Aroclor 1268	---	---	0	0.00%	0	0.00%				
Total PCBs	3.40E+01	B7	19	14.39%	14	19.72%	**68**	Total PCBs	Total PCBs	Total PCBs
VOCs										
1,1,1,2-Tetrachloroethane	---	---	0	0.00%	0	0.00%				
1,1,1-Trichloroethane	---	---	0	0.00%	0	0.00%				
1,1,2,2-Tetrachloroethane	1.54E+00	GLB04	0	0.00%	0	0.00%				
1,1,2-Trichloroethane	---	---	0	0.00%	0	0.00%				
1,1-Dichloroethane	---	---	0	0.00%	0	0.00%				
1,1-Dichloroethylene	---	---	0	0.00%	0	0.00%				
1,1-Dichloropropene	---	---	0	0.00%	0	0.00%				
1,2,3-Trichlorobenzene	---	---	0	0.00%	0	0.00%				
1,2,3-Trichloropropane	---	---	0	0.00%	0	0.00%				
1,2,4-Trichlorobenzene	1.47E+00	GLB06	0	0.00%	0	0.00%				
1,2,4-Trimethylbenzene	1.00E+00	GLB04	0	0.00%	0	0.00%				
1,2-Dibromo-3-chloropropane	---	---	0	0.00%	0	0.00%				
1,2-Dichloroethane (EDC)	---	---	0	0.00%	0	0.00%				
1,2-Dichloropropane	---	---	0	0.00%	0	0.00%				
1,3,5-Trimethylbenzene	1.60E-01	GLB05	0	0.00%	0	0.00%				
1,3-Dichloropropane	---	---	0	0.00%	0	0.00%				
2,2-Dichloropropane	---	---	0	0.00%	0	0.00%				
2-Chlorotoluene	---	---	0	0.00%	0	0.00%				
4-Chlorotoluene	---	---	0	0.00%	0	0.00%				
4-Isopropyltoluene	2.85E-01	GLB04	0	0.00%	0	0.00%				
Acetone	---	---	0	0.00%	0	0.00%				
Benzene	6.27E-02	GLB06	0	0.00%	0	0.00%				
Bromobenzene	---	---	0	0.00%	0	0.00%				
Bromoform	---	---	0	0.00%	0	0.00%				
Bromomethane	---	---	0	0.00%	0	0.00%				
Carbon disulfide	6.34E-02	MW11	0	0.00%	0	0.00%				
Carbon tetrachloride	---	---	0	0.00%	0	0.00%				

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Chemical	CAS No.	Analytical Method	Method B Non-Cancer Soil Direct Contact (mg/kg)	Method B Cancer Soil Direct Contact (mg/kg)	TEE Soil CUL Industrial or Commercial Site (mg/kg)	Background Concentrations	Soil Cleanup Level Lowest ARAR (mg/kg), Adjusted for Background Concentration	MDL Used as Reporting Limit (1)	No. of Analyses	Number of Detections	Total % Detections
Chemical	**CAS**										
VOCs											
Chlorobenzene	108-90-7	EPA 8260C	1.60E+03	na	na	na	1.60E+03		87	0	0.0%
Chloroethane	75-00-3	EPA 8260C	na	na	na	na	na		87	0	0.0%
Chloroform	67-66-3	EPA 8260C	8.00E+02	3.23E+01	na	na	3.23E+01		87	0	0.0%
Chloromethane	74-87-3	EPA 8260C	na	na	na	na	na		87	0	0.0%
cis-1,2-Dichloroethylene	156-59-2	EPA 8260C	1.60E+02	na	na	na	1.60E+02		87	0	0.0%
cis-1,3-Dichloropropene	10061-01-5	EPA 8260C	na	na	na	na	na		87	1	1.1%
Dibromochloromethane	124-48-1	EPA 8260C	1.60E+03	1.19E+01	na	na	1.19E+01		87	0	0.0%
Dibromomethane	74-95-3	EPA 8260C	8.00E+02	na	na	na	8.00E+02		87	0	0.0%
Dichlorobromomethane	75-27-4	EPA 8260C	1.60E+03	1.61E+01	na	na	1.61E+01		87	0	0.0%
Dichlorodifluoromethane (CFC-12)	75-71-8	EPA 8260C	1.60E+04	na	na	na	1.60E+04		87	0	0.0%
Ethylbenzene	100-41-4	EPA 8260C	8.00E+03	na	na	na	8.00E+03		87	4	4.6%
Ethylene dibromide (EDB)	106-93-4	EPA 8260C	7.20E+02	5.00E-01	na	na	5.00E-01		87	0	0.0%
Isopropylbenzene (Cumene)	98-82-8	EPA 8260C	8.00E+03	na	na	na	8.00E+03		87	1	1.1%
m,p-Xylene	179601-23-1	EPA 8260C	1.60E+04	na	na	na	1.60E+04		87	8	9.2%
Methyl isobutyl ketone (MIBK)	108-10-1	EPA 8260C	6.40E+03	na	na	na	6.40E+03		87	0	0.0%
Methyl tert-butyl ether (MTBE)	1634-04-4	EPA 8260C	na	5.56E+02	na	na	5.56E+02		87	0	0.0%
Methylene chloride	75-09-2	EPA 8260C	4.80E+02	5.00E+02	na	na	4.80E+02		87	7	8.0%
Naphthalene**	91-20-3	EPA 8260C	1.60E+03	na	na	na	1.60E+03		87	18	20.7%
n-Butylbenzene	104-51-8	EPA 8260C	4.00E+03	na	na	na	4.00E+03		87	4	4.6%
n-Propylbenzene	103-65-1	EPA 8260C	8.00E+03	na	na	na	8.00E+03		87	5	5.7%
o-Xylene	95-47-6	EPA 8260C	1.60E+04	na	na	na	1.60E+04		87	4	4.6%
Pentachloroethane	na		na	na	na	na	na		0	---	---
sec-Butylbenzene	135-98-8	EPA 8260C	8.00E+03	na	na	na	8.00E+03		87	4	4.6%
Styrene	100-42-5	EPA 8260C	1.60E+04	na	na	na	1.60E+04		87	0	0.0%
tert-Butylbenzene	98-06-6	EPA 8260C	8.00E+03	na	na	na	8.00E+03		87	1	1.1%
Tetrachloroethylene (PCE)	127-18-4	EPA 8260C	4.80E+02	4.76E+02	na	na	4.76E+02		87	2	2.3%
Toluene	108-88-3	EPA 8260C	6.40E+03	na	na	na	6.40E+03		87	5	5.7%
Total xylenes	1330-20-7	EPA 8260C	1.60E+04	na	na	na	1.60E+04		87	0	0.0%
trans-1,2-Dichloroethylene	156-60-5	EPA 8260C	1.60E+03	na	na	na	1.60E+03		87	0	0.0%
trans-1,3-Dichloropropene	10061-02-6	EPA 8260C	na	na	na	na	na		87	0	0.0%
Trichloroethylene (TCE)	79-01-6	EPA 8260C	4.00E+01	1.20E+01	na	na	1.20E+01		87	3	3.4%
Trichlorofluoroethane	27154-33-2		na	na	na	na	na		0	---	---
Vinyl acetate	108-05-4		8.00E+04	na	na	na	8.00E+04		0	---	---
Vinyl chloride	75-01-4	EPA 8260C	2.40E+02	na	na	na	2.40E+02		87	0	0.0%
SVOCs											
1,2-Dichlorobenzene	95-50-1	EPA 8270D	7.20E+03	na	na	na	7.20E+03		87	0	0.0%
1,3-Dichlorobenzene	541-73-1	EPA 8270D	na	na	na	na	na		87	1	1.1%
1,4-Dichlorobenzene	106-46-7	EPA 8270D	5.60E+03	1.85E+02	na	na	1.85E+02		87	2	2.3%
1,4-Dioxane	123-91-1		2.40E+03	1.00E+01	na	na	1.00E+01		0	---	---
2,4,5-Trichlorophenol	na		8.00E+03	na	na	na	8.00E+03		0	---	---
2,4,6-Trichlorophenol	na		8.00E+01	9.09E+01	na	na	8.00E+01		0	---	---
2,4-Dichlorophenol	120-83-2		2.40E+02	na	na	na	2.40E+02		0	---	---
2,4-Dimethylphenol	105-67-9		1.60E+03	na	na	na	1.60E+03		0	---	---
2,4-Dinitrophenol	51-28-5		1.60E+02	na	na	na	1.60E+02		0	---	---
2,4-Dinitrotoluene	121-14-2		1.60E+02	3.23E+00	na	na	3.23E+00		0	---	---
2,6-Dinitrotoluene	606-20-2		2.40E+01	6.67E-01	na	na	6.67E-01		0	---	---
2-Chloronaphthalene	91-58-7		6.40E+03	na	na	na	6.40E+03		0	---	---
2-Chlorophenol	95-57-8		4.00E+02	na	na	na	4.00E+02		0	---	---
2-Methylphenol (o-Cresol)	95-48-7		4.00E+03	na	na	na	4.00E+03		0	---	---
2-Nitroaniline	88-74-4		8.00E+02	na	na	na	8.00E+02		0	---	---
2-Nitrophenol	88-75-5		na	na	na	na	na		0	---	---
4,6-Dinitro-2-methylphenol	534-52-1		na	na	na	na	na		0	---	---
4-Bromophenyl phenyl ether	na		na	na	na	na	na		0	---	---
4-Chloro-3-methylphenol	59-50-7		na	na	na	na	na		0	---	---
4-Chloroaniline	106-47-8		3.20E+02	5.00E+00	na	na	5.00E+00		0	---	---
4-Chlorophenyl phenyl ether	7005-72-3		na	na	na	na	na		0	---	---
4-Methylphenol (p-Cresol)	106-44-5		8.00E+03	na	na	na	8.00E+03		0	---	---
4-Nitrophenol	100-02-7		na	na	na	na	na		0	---	---

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Chemical										
VOCs										
Chlorobenzene	---	---	0	0.00%	0	0.00%				
Chloroethane	---	---	0	0.00%	0	0.00%				
Chloroform	---	---	0	0.00%	0	0.00%				
Chloromethane	---	---	0	0.00%	0	0.00%				
cis-1,2-Dichloroethylene	---	---	0	0.00%	0	0.00%				
cis-1,3-Dichloropropene	6.65E-02	MW12	0	0.00%	0	0.00%				
Dibromochloromethane	---	---	0	0.00%	0	0.00%				
Dibromomethane	---	---	0	0.00%	0	0.00%				
Dichlorobromomethane	---	---	0	0.00%	0	0.00%				
Dichlorodifluoromethane (CFC-12)	---	---	0	0.00%	0	0.00%				
Ethylbenzene	4.14E-01	GLB05	0	0.00%	0	0.00%				
Ethylene dibromide (EDB)	---	---	0	0.00%	0	0.00%				
Isopropylbenzene (Cumene)	4.42E-01	GLB04	0	0.00%	0	0.00%				
m,p-Xylene	1.26E+00	MW05	0	0.00%	0	0.00%				
Methyl isobutyl ketone (MIBK)	---	---	0	0.00%	0	0.00%				
Methyl tert-butyl ether (MTBE)	---	---	0	0.00%	0	0.00%				
Methylene chloride	7.00E-02	MW14	0	0.00%	0	0.00%				
Naphthalene**	4.77E+00	GLB03	0	0.00%	0	0.00%				
n-Butylbenzene	7.18E-01	GLB04	0	0.00%	0	0.00%				
n-Propylbenzene	8.09E-01	GLB04	0	0.00%	0	0.00%				
o-Xylene	2.24E-01	GLB05	0	0.00%	0	0.00%				
Pentachloroethane	---	---	---	---	---					
sec-Butylbenzene	6.27E-01	GLB04	0	0.00%	0	0.00%				
Styrene	---	---	0	0.00%	0	0.00%				
tert-Butylbenzene	2.90E-02	GLB04	0	0.00%	0	0.00%				
Tetrachloroethylene (PCE)	7.89E-01	GLB13	0	0.00%	0	0.00%				
Toluene	8.59E-01	MW12	0	0.00%	0	0.00%				
Total xylenes	---	---	0	0.00%	0	0.00%				
trans-1,2-Dichloroethylene	---	---	0	0.00%	0	0.00%				
trans-1,3-Dichloropropene	---	---	0	0.00%	0	0.00%				
Trichloroethylene (TCE)	1.07E-01	MW12	0	0.00%	0	0.00%				
Trichlorofluoroethane	---	---	---	---	---					
Vinyl acetate	---	---	---	---	---					
Vinyl chloride	---	---	0	0.00%	0	0.00%				
SVOCs										
1,2-Dichlorobenzene	---	---	0	0.00%	0	0.00%				
1,3-Dichlorobenzene	2.37E-01	GLB06	0	0.00%	0	0.00%				
1,4-Dichlorobenzene	5.55E-01	GLB06	0	0.00%	0	0.00%				
1,4-Dioxane	---	---	---	---	---					
2,4,5-Trichlorophenol	---	---	---	---	---					
2,4,6-Trichlorophenol	---	---	---	---	---					
2,4-Dichlorophenol	---	---	---	---	---					
2,4-Dimethylphenol	---	---	---	---	---					
2,4-Dinitrophenol	---	---	---	---	---					
2,4-Dinitrotoluene	---	---	---	---	---					
2,6-Dinitrotoluene	---	---	---	---	---					
2-Chloronaphthalene	---	---	---	---	---					
2-Chlorophenol	---	---	---	---	---					
2-Methylphenol (o-Cresol)	---	---	---	---	---					
2-Nitroaniline	---	---	---	---	---					
2-Nitrophenol	---	---	---	---	---					
4,6-Dinitro-2-methylphenol	---	---	---	---	---					
4-Bromophenyl phenyl ether	---	---	---	---	---					
4-Chloro-3-methylphenol	---	---	---	---	---					
4-Chloroaniline	---	---	---	---	---					
4-Chlorophenyl phenyl ether	---	---	---	---	---					
4-Methylphenol (p-Cresol)	---	---	---	---	---					
4-Nitrophenol	---	---	---	---	---					

TABLE 1-1

Soil Cleanup Levels and Contaminants of Potential Concern

Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Chemical	CAS No.	Analytical Method	Method B Non-Cancer Soil Direct Contact (mg/kg)	Method B Cancer Soil Direct Contact (mg/kg)	TEE Soil CUL Industrial or Commercial Site (mg/kg)	Background Concentrations	Soil Cleanup Level Lowest ARAR (mg/kg), Adjusted for Background Concentration	MDL Used as Reporting Limit (1)	No. of Analyses	Number of Detections	Total % Detections
Chemical	**CAS**										
SVOCs											
Benzyl alcohol	100-51-6	EPA 8270D	8.00E+03	na	na	na	8.00E+03		46	0	0.0%
Bis(2-chloroethoxy)methane	111-91-1	EPA 8270D	na	na	na	na	na		46	0	0.0%
Bis(2-chloroethyl)ether	111-44-4		na	9.09E-01	na	na	9.09E-01		0	---	---
Bis(2-ethylhexyl) phthalate	117-81-7	EPA 8270D	1.60E+03	7.14E+01	na	na	7.14E+01		94	54	57.4%
bis(2-Ethylhexyl)adipate	na		na	na	na	na	na		0	---	---
Butyl benzyl phthalate	85-68-7	EPA 8270D	1.60E+04	5.26E+02	na	na	5.26E+02		94	15	16.0%
Carbazole	86-74-8	EPA 8270D	na	na	na	na	na		94	31	33.0%
Dibutyl phthalate	84-74-2	EPA 8270D	8.00E+03	na	na	na	8.00E+03		87	0	0.0%
Diethyl phthalate	84-66-2		6.40E+04	na	na	na	6.40E+04		0	---	---
Dimethyl phthalate	131-11-3	EPA 8270D	na	na	na	na	na		46	0	0.0%
Di-n-octyl phthalate	117-84-0		8.00E+02	na	na	na	8.00E+02		0	---	---
Hexachlorobenzene	118-74-1	EPA 8270D	6.40E+01	6.25E-01	3.10E+01	na	6.25E-01		46	1	2.2%
Hexachlorobutadiene	87-68-3	EPA 8270D	8.00E+01	1.28E+01	na	na	1.28E+01		87	0	0.0%
Hexachlorocyclopentadiene	77-47-4		4.80E+02	na	na	na	4.80E+02		0	---	---
Hexachloroethane	67-72-1		5.60E+01	2.50E+01	na	na	2.50E+01		0	---	---
Isophorone	78-59-1		1.60E+04	1.05E+03	na	na	1.05E+03		0	---	---
Nitrobenzene	98-95-3		1.60E+02	na	na	na	1.60E+02		0	---	---
n-Nitrosodi-n-propylamine	621-64-7		na	1.43E-01	na	na	1.43E-01		0	---	---
Pentachlorophenol	87-86-5	EPA 8270D	4.00E+02	2.50E+00	1.10E+01	na	2.50E+00		99	27	27.3%
Phenol	108-95-2	EPA 8270D	2.40E+04	na	na	na	2.40E+04		46	0	0.0%
PAHs											
1-Methylnaphthalene	90-12-0	EPA 8270D SIM	5.60E+03	3.45E+01	na	na	3.45E+01		100	21	21.0%
2-Methylnaphthalene	91-57-6	EPA 8270D SIM	3.20E+02	na	na	na	3.20E+02		101	26	25.7%
Acenaphthene	83-32-9	EPA 8270D SIM	4.80E+03	na	na	na	4.80E+03		101	28	27.7%
Acenaphthylene	208-96-8	EPA 8270D SIM	2.40E+04	na	na	na	2.40E+04		101	10	9.9%
Anthracene	120-12-7	EPA 8270D SIM	2.40E+04	na	na	na	2.40E+04		101	29	28.7%
Benzo(a)anthracene	56-55-3	EPA 8270D SIM	na	1.37E+00	na	na	1.37E+00		101	37	36.6%
Benzo(a)pyrene	50-32-8	EPA 8270D SIM	na	1.37E-01	3.00E+02	na	1.37E-01		101	43	42.6%
Benzo(b)fluoranthene	205-99-2	EPA 8270D SIM	na	1.37E+00	na	na	1.37E+00		101	42	41.6%
Benzo(g,h,i)perylene	191-24-2	EPA 8270D SIM	na	na	na	na	na		101	29	28.7%
Benzo(k)fluoranthene	207-08-9	EPA 8270D SIM	na	1.37E+01	na	na	1.37E+01		101	36	35.6%
Chrysene	218-01-9	EPA 8270D SIM	na	1.37E+02	na	na	1.37E+02		101	39	38.6%
Dibenz(a,h)anthracene	53-70-3	EPA 8270D SIM	na	1.37E-01	na	na	1.37E-01		101	16	15.8%
Dibenzofuran	132-64-9	EPA 8270D SIM	8.00E+01	na	na	na	8.00E+01		94	13	13.8%
Fluoranthene	206-44-0	EPA 8270D SIM	3.20E+03	na	na	na	3.20E+03		101	42	41.6%
Fluorene	86-73-7	EPA 8270D SIM	3.20E+03	na	na	na	3.20E+03		101	24	23.8%
Indeno(1,2,3-cd)pyrene	193-39-5	EPA 8270D SIM	na	1.37E+00	na	na	1.37E+00		101	27	26.7%
Naphthalene**	91-20-3	EPA 8270D SIM	1.60E+03	na	na	na	1.60E+03		101	25	24.8%
Phenanthrene	85-01-8	EPA 8270D SIM	na	na	na	na	na		101	39	38.6%
Pyrene	129-00-0	EPA 8270D SIM	2.40E+03	na	na	na	2.40E+03		101	46	45.5%
cPAH TEQ (2)	I	EPA 8270D SIM	na	1.37E-01	3.00E+02	na	1.37E-01		101	101	100.0%
Tins											
Tributyltin	36643-28-4		na	na	na	na	na		0	---	---
TPH											
Gasoline range organics (3)	J	NWTPH-Gx	1.00E+02	1.00E+02	1.20E+04	na	1.00E+02		96	17	17.7%
Diesel Range Organics (3)	J	NWTPH-Gx	1.00E+02	1.00E+02	1.50E+04	na	1.00E+02		134	23	17.2%
Oil range organics (Lube Oil) (3)	J	NWTPH-Gx	1.00E+02	1.00E+02	na	na	1.00E+02		134	23	17.2%

Notes:

(1)	Laboratory Reported Results to the Method Detection Limit (MDL) for One or More Sampling Events. See Summary Tables for Reporting Limits.
(2)	Benzo(a)pyrene Cleanup Levels used for Comparison
(3)	MTCA Method A Cleanup Levels used for Comparison for Petroleum Hydrocarbons
Tributyltin	Yellow Highlight Indicates that Contaminant Was Not Included in Analysis
Benzo	Green Highlight Indicates that Analyte is Included in Total PCB and/or cPAH TEQ Calculation
na	Cleanup/Permit Level Not Available
**	Naphthalene analyzed by methods 8270D SIM and 8260C
TEE	Terrestrial and Ecological Evaluation

TABLE 1-1

Soil Cleanup Levels and Contaminants of Potential Concern

Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Chemical	Highest Recorded Soil Concentation at DMC (mg/kg)	Location with Highest Concentration	Detections Above CUL	Total % of Samples with Detections Over CUL	Number of Different Locations with CUL Exceedances	Total % of Different Locations with CUL Exceedances	Exceedance Factor for Highest Concentrations	Preliminary Soil COPC List Based on SOIL CUL	Final Soil COPC List If number of locations > 5% and Exceedance Factor > 2 and Total % Detections Over CUL > 5%, **OR** Exceedance Factor >10	Groundwater COPC List See Table 2.
Chemical										
SVOCs										
Benzyl alcohol	---	---	0	0.00%	0	0.00%				
Bis(2-chloroethoxy)methane	---	---	0	0.00%	0	0.00%				
Bis(2-chloroethyl)ether	---	---	---	---	---					
Bis(2-ethylhexyl) phthalate	3.32E+01	MW05	0	0.00%	0	0.00%				Bis(2-ethylhexyl) phthalate
bis(2-Ethylhexyl)adipate	---	---	---	---	---					
Butyl benzyl phthalate	4.14E+01	MW05	0	0.00%	0	0.00%				
Carbazole	3.82E+00	GLB03	0	0.00%	0	0.00%				
Dibutyl phthalate	---	---	0	0.00%	0	0.00%				
Diethyl phthalate	---	---	---	---	---					
Dimethyl phthalate	---	---	0	0.00%	0					
Di-n-octyl phthalate	---	---	---	---	---					
Hexachlorobenzene	2.77E-01	MW08	0	0.00%	0	0.00%				
Hexachlorobutadiene	---	---	0	0.00%	0	0.00%				
Hexachlorocyclopentadiene	---	---	---	---	---					
Hexachloroethane	---	---	---	---	---					
Isophorone	---	---	---	---	---					
Nitrobenzene	---	---	---	---	---					
n-Nitrosodi-n-propylamine	---	---	---	---	---					
Pentachlorophenol	2.35E+02	MW06	**1**	**1.01%**	**1**	**1.41%**	**94**	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol
Phenol	---	---	0	0.00%	0	0.00%				
PAHs										
1-Methylnaphthalene	1.29E+01	GLB04	0	0.00%	0	0.00%				
2-Methylnaphthalene	1.75E+01	GLB04	0	0.00%	0	0.00%				
Acenaphthene	6.99E+00	GLB03	0	0.00%	0	0.00%				Acenaphthene
Acenaphthylene	4.12E-01	GLB03	0	0.00%	0	0.00%				
Anthracene	1.01E+01	GLB03	0	0.00%	0	0.00%				
Benzo(a)anthracene	2.44E+01	GLB03	**6**	**5.94%**	**5**	**7.04%**	**17**	Benzo(a)anthracene	Benzo(a)anthracene	Benzo(a)anthracene
Benzo(a)pyrene	2.06E+01	GLB03	**22**	**21.78%**	**18**	**25.35%**	**150**	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene
Benzo(b)fluoranthene	2.61E+01	GLB03	**8**	**7.92%**	**7**	**9.86%**	**19**	Benzo(b)fluoranthene	Benzo(b)fluoranthene	Benzo(b)fluoranthene
Benzo(g,h,i)perylene	7.08E+00	GLB03	0	0.00%	0	0.00%				
Benzo(k)fluoranthene	1.47E+01	GLB03	**1**	**0.99%**	**1**	**1.41%**	**1**	Benzo(k)fluoranthene		Benzo(k)fluoranthene
Chrysene	2.21E+01	GLB03	0	0.00%	0	0.00%				Chrysene
Dibenz(a,h)anthracene	1.87E+00	GLB03	**7**	**6.93%**	**7**	**9.86%**	**13**	Dibenz(a,h)anthracene	Dibenz(a,h)anthracene	Dibenz(a,h)anthracene
Dibenzofuran	4.56E+00	MW16	0	0.00%	0	0.00%				
Fluoranthene	4.34E+01	GLB03	0	0.00%	0	0.00%				
Fluorene	6.80E+00	GLB03	0	0.00%	0	0.00%				Fluorene
Indeno(1,2,3-cd)pyrene	9.20E+00	GLB03	**1**	0.99%	**1**	**1.41%**	**6**	Indeno(1,2,3-cd)pyrene		Indeno(1,2,3-cd)pyrene
Naphthalene**	1.34E+01	MW16	0	0.00%	0	0.00%				
Phenanthrene	4.04E+01	GLB03	0	0.00%	0	0.00%				
Pyrene	4.46E+01	GLB03	0	0.00%	0	0.00%				
cPAH TEQ (2)	2.84E+01	GLB03	27	**26.73%**	20	**28.17%**	**207**	cPAH TEQ (2)	cPAH TEQ (2)	
Tins										
Tributyltin	---	---	---	---	---					
TPH										
Gasoline range organics (3)	3.65E+02	GLB04	2	2.08%	2	2.82%	**3**	Gasoline range organics (3)		
Diesel Range Organics (3)	5.10E+03	B3-R	2	1.49%	2	2.82%	**51**	Diesel Range Organics (3)		Diesel range organics (3)
Oil range organics (Lube Oil) (3)	2.10E+04	B3-R	9	6.72%	8	11.27%	**210**	Oil range organics (Lube Oil) (3)	Oil range organics (Lube Oil) (3)	Oil range organics (Lube Oil) (3)

Notes:

(1) Laboratory Reported Results to the Method Detection Limit (MDL) for One or More Sampling Events. See Summary Tables for Reporting Limits.

(2) Benzo(a)pyrene Cleanup Levels used for Comparison

(3) MTCA Method A Cleanup Levels used for Comparison for Petroleum Hydrocarbons

Tributyltin Yellow Highlight Indicates that Contaminant Was Not Included in Analysis

Benzo Green Highlight Indicates that Analyte is Included in Total PCB and/or cPAH TEQ Calculation

na Cleanup/Permit Level Not Available

** Naphthalene analyzed by methods 8270D SIM and 8260C

TEE Terrestrial and Ecological Evaluation

TABLE 1-1a
Preliminary List of Soil Contaminants of Potential Concern
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Soil COPC	Cleanup Level Basis	Groundwater COPC List (1)	Lowest Cleanup Level, mg/kg
Arsenic	Background Concentration	X	7.30E+00
Chromium (III)	TEE		1.35E+02
Copper	TEE	X	5.50E+02
Lead	TEE	X	2.20E+02
Mercury	TEE	X	7.00E-01
Nickel (2)	MTCA Method B, Non-Cancer	X	1.60E+03
Zinc	TEE	X	5.70E+02
Total PCB Aroclors	MTCA Method B, Cancer	X	5.00E-01
Acenaphthene (2)	MTCA Method B, Non-Cancer	X	4.80E+03
Fluorene (2)	MTCA Method B, Non-Cancer	X	3.20E+03
Bis(2-ethylhexyl)phthalate (2)	MTCA Method B, Cancer	X	7.14E+01
Pentachlorophenol	MTCA Method B, Cancer	X	2.50E+00
cPAH TEQ	MTCA Method B, Cancer	X	1.37E-01
Diesel range organics (2)	MTCA Method A	X	2.00E+03
Oil range organics (Lube Oil)	MTCA Method A	X	2.00E+03

Notes:

(1) Contaminant Also Included on the Groundwater COPC List

(2) Contaminant Included as a Soil COPC Based on Grounwater COPC Evaluation

TABLE 1-2
Soil Sample Analyses, Metals
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	Antimony	Arsenic (4)	Beryllium	Cadmium	Total Chromium	Chromium (VI)	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc	TCLP Cadmium	TCLP Chromium	TCLP Lead
MTCA Method B Non-Cancer Cleanup Level (1)					32	24	160	80	na	240	3,200	250	2	1,600	400	400	0.8	24,000	na	na	na
MTCA Method B Cancer Cleanup Level (1)					na	0.667	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
TEE Cleanup Level (2)					na	20	na	36	135	na	550	220	0.7	1,850	0.8	na	na	570	na	na	na
Puget Sound Natural Background Levels (3)					na	7.30	0.600	0.800	48.2	na	36.4	16.8	na	38.2	na	na	na	85.1	na	na	na
(units in mg/kg)																					
TP-1-R	Riley Group	7/17/2000	TP-1-R-1.5'	1.5	<5.9	<12	---	**7.10**	**19.0**	---	**99.0**	**430**	**0.9**	**27.0**	---	<0.59	<5.9	**290**	**0.055**	---	**1.60**
TP-2-R		7/17/2000	TP-2-R-4.5'	4.5	<5.7	<11	---	**0.640**	**22.0**	---	**45.0**	**120**	**0.5**	**38.0**	---	**0.620**	<5.7	**150**	---	---	---
TP-2-R		7/17/2000	TP-2-R-5.5'	5.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TP-3-R		7/17/2000	TP-3-R-5.5'	5.5	<5.9	<12	---	**5.30**	**61.0**	---	**150**	**1,400**	<0.29	**150**	---	**0.840**	<0.59	**1,700**	**0.036**	---	**12.0**
TP-4-R		7/17/2000	TP-4-R-2'	2	<6.2	<12	---	**1.40**	**150**	---	**210**	**340**	<0.31	**200**	---	<0.62	<6.2	**240**	---	<0.2	<0.2
B1-R	Riley Group	8/3/2000	B-1-R-6	14-14.5	<5.7	<11	---	**1.10**	**21.0**	---	**91.0**	**70.0**	<0.28	**42.0**	---	<0.57	<5.7	**2,100**	---	---	---
B2-R		8/3/2000	B-2-R-1	2.5-4.0	<5.4	<11	---	<0.54	**110**	---	**190**	**170**	<0.27	**140**	---	<0.54	<5.4	**150**	---	---	---
B3-R		8/3/2000	B-3-R-3	12.5-14	<47	<11	---	**43.0**	**80.0**	---	**7,400**	**12,000**	**1.50**	**200**	---	**4.60**	**6.20**	**31,000**	---	---	---
B4-R		8/3/2000	B-4-R-3	10-11.5	<7.5	<15	---	<0.75	**12.0**	---	**26.0**	**24.0**	<0.37	**3.20**	---	<0.75	<7.5	**42.0**	---	---	---
B1	Farallon	3/13/2002	B1-0-3	0-3	<5.4	<11	---	<0.54	**15.0**	---	**58.0**	**330**	**0.280**	**58.0**	---	<0.54	<5.4	**170**	---	---	---
B2		3/13/2002	B2-0-3	0-3	<5.4	<11	---	<0.54	**40.0**	---	**71.0**	**140**	<0.27	**58.0**	---	<0.54	<5.4	**100**	---	---	---
B3		3/13/2002	B3-0-3	0-3	<5.4	<11	---	<0.54	**400**	---	**530**	**360**	<0.27	**510**	---	**1.10**	<5.4	**300**	---	---	---
B4 (TP-B4)		3/13/2002	TP-B4-0-3	0-3	<5.5	<11	---	<0.55	**2,700**	<2.2	**320**	**340**	<0.27	**320**	---	**1.50**	<5.5	**1,400**	---	---	---
B4		3/13/2002	B4-3-6	3-6	---	---	---	---	**5.10**	---	---	---	---	---	---	---	---	---	---	---	---
B5 (TP-B5)		3/13/2002	TP-B5-3-4	3-4	<5.6	<11	---	**2.40**	**230**	---	**220**	**670**	**0.5**	**120**	---	**0.560**	<5.6	**860**	---	---	---
B5		3/13/2002	B5-6-9	6-9	---	---	---	**1.90**	---	---	---	---	---	---	---	---	---	---	---	---	---
B6		3/13/2002	B6-0-3	0-3	<5.5	<11	---	<0.55	**12.0**	---	**15.0**	**67.0**	<0.27	**11.0**	---	<0.55	<5.5	**32.0**	---	---	---
B7 (TP-B7)		3/13/2002	TP-B7-2-4	2-4	**21.0**	<11	---	**0.650**	**260**	---	**6,900**	**850**	<0.27	**450**	---	**2.3**	<5.5	**480**	---	---	---
B7		3/13/2002	B7-6-7.5	6-7.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B8		3/13/2002	B8-2-3	2-3	<5.5	<11	---	<0.55	**40.0**	---	**71.0**	**310**	<0.27	**39.0**	---	<0.55	<5.5	**79.0**	---	---	---
B9		3/13/2002	B9-1.5-2	1.5-2	<5.4	<11	---	<0.54	**10.0**	---	**14.0**	**9.90**	<0.27	**8.20**	---	<0.54	<5.4	**26.0**	---	---	---
B10		3/13/2002	B10-1-3	1-3	<5.6	**12.0**	---	<0.56	**7.40**	---	**21.0**	**8.50**	<0.28	**12.0**	---	<0.56	<5.6	**24.0**	---	---	---
B11		3/14/2002	B11-0-3	0-3	<5.3	<11	---	<0.53	**7.00**	---	**9.50**	<5.3	<0.26	**7.90**	---	<0.53	<5.3	**19.0**	---	---	---
B12 (TP-B12)		3/14/2002	B12-0-1 (TP-B12-0-1)	0-1	<5.6	<11	---	<0.56	**24.0**	---	**12.0**	<5.6	<0.28	**34.0**	---	<0.56	<5.6	**29.0**	---	---	---
B13		3/13/2002	B13-0-3	0-3	**37.0**	<11	---	<0.56	**36.0**	---	**85.0**	**140**	<0.28	**37.0**	---	<0.56	<5.6	**230**	---	---	---
B14		3/13/2002	B14-2-3	2-3	<5.4	<11	---	<0.54	**7.20**	---	**16.0**	**12.0**	<0.27	**11.0**	---	<0.54	<5.4	**41.0**	---	---	---
B15		3/14/2002	B15-0-3	0-3	<5.4	<11	---	**0.9**	**28.0**	---	**290.0**	**200**	**0.430**	**29.0**	---	<0.58	<5.8	**250**	---	---	---
B16		3/14/2002	B16-0-1.5	0-1.5	<5.8	<12	---	**0.9**	**28.0**	---	**290.0**	**200**	**0.430**	**29.0**	---	<0.58	<5.8	**250**	---	---	---
B17		3/14/2002	B17-0-3	0-3	<5.3	<11	---	<0.53	**26.0**	---	**91.0**	**67.0**	<0.26	**52.0**	---	<0.53	<5.3	**94.0**	---	---	---
B18		3/14/2002	B18-0-3	0-3	<5.6	<11	---	**1.10**	**33.0**	---	**100.0**	**540**	**1.10**	**42.0**	---	**1.00**	<5.6	**290**	---	---	---
B19		3/13/2002	B19-1.5-3	1.5-3	<5.2	<10	---	<0.52	**8.10**	---	**43.0**	**70.0**	<0.26	**11.0**	---	<0.52	<5.2	**83.0**	---	---	---

TABLE 1-2
Soil Sample Analyses, Metals
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	Antimony	Arsenic (4)	Beryllium	Cadmium	Total Chromium	Chromium (VI)	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc	TCLP Cadmium	TCLP Chromium	TCLP Lead
MTCA Method B Non-Cancer Cleanup Level (1)					32	24	160	80	na	240	3,200	250	2	1,600	400	400	0.8	24,000	na	na	na
MTCA Method B Cancer Cleanup Level (1)					na	0.667	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
TEE Cleanup Level (2)					na	20	na	36	135	na	550	220	0.7	1,850	0.8	na	na	570	na	na	na
Puget Sound Natural Background Levels (3)					na	7.30	0.600	0.800	48.2	na	36.4	16.8	na	38.2	na	na	na	85.1	na	na	na
(units in mg/kg)																					
MW1	Farallon	3/18/2002	MW1-3-4.5	3-4.5	<5.7	<11	---	<0.57	**16.0**	---	**23.0**	**60.0**	<0.29	**15.0**	---	<0.57	<5.7	**64.0**	---	---	---
		3/18/2002	MW1-5-6.5	5-6.5	<5.3	<11	---	<0.53	**25.0**	---	**12.0**	**47.0**	<0.27	**13.0**	---	<0.53	<5.3	**18.0**	---	---	---
		3/18/2002	MW1-7.5-9	7.5-9	<7	<14	---	<0.7	**13.0**	---	**23.0**	<7.0	<0.35	**13.0**	---	<0.7	<7.0	**66.0**	---	---	---
MW2		3/18/2002	MW2-2-4	2-4	<6.3	<13	---	<0.63	**38.0**	---	**36.0**	**210**	<0.31	**45.0**	---	<0.63	<6.3	**83.0**	---	---	---
MW3		3/18/2002	MW3-2.5-4	2.5-4	<5.7	<11	---	<0.57	**21.0**	---	**62.0**	**70.0**	<0.28	**36.0**	---	<0.57	<5.7	**110**	---	---	---
MW4			**Soil Samples Not Collected**		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Excavation, EX1	Farallon	5/13/2002	EX1-8.5-10.0	8.5-10	---	---	---	---	---	---	---	**510**	---	---	---	---	---	---	---	---	**28.0**
		5/13/2002	EX1-SSW-3-4.0	3-4	---	---	---	---	---	---	---	**140**	---	---	---	---	---	---	---	---	**3.20**
		5/13/2002	EX1-WSW-4.0	4	---	---	---	---	---	---	---	**45.0**	---	---	---	---	---	---	---	---	**4.10**
		5/13/2002	EX1-NSW-4.0	4	---	---	---	---	---	---	---	**95.0**	---	---	---	---	---	---	---	---	<0.20
		5/13/2002	EX1-ESW-4.0	4	---	---	---	---	---	---	---	**510**	---	---	---	---	---	---	---	---	**7.30**
		5/13/2002	EX1-11.0-11.5	11-11.5	---	---	---	---	---	---	---	**1,500**	---	---	---	---	---	---	---	---	**13.0**
		5/13/2002	EX1-ESW2-4.0	4	---	---	---	---	---	---	---	**99.0**	---	---	---	---	---	---	---	---	**1.40**
		5/13/2002	EX1-15.0-15.5	15-15.5	---	---	---	---	---	---	---	**79.0**	---	---	---	---	---	---	---	---	**0.290**
Stockpile	Farallon	5/13/2002	SP1	---	---	---	---	---	---	---	---	**19.0**	---	---	---	---	---	---	---	---	---
		5/13/2002	SP2	---	---	---	---	---	---	---	---	**14.0**	---	---	---	---	---	---	---	---	---
		5/13/2002	SP3	---	---	---	---	---	---	---	---	**1,300**	---	---	---	---	---	---	---	---	**14.0**
SB-1N	Farallon	1/8/2004	SB-1N	5-8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SB-3N		1/8/2004	SB-3N	8-12	<6.8	<14	<0.68	<0.68	**48.0**	---	**45.0**	<6.8	<0.34	<3.4	<14	<0.68	<0.68	<0.34	---	---	---
SB-3S		1/9/2008	SB-3S	6-8	<6.4	<13	<0.64	<0.64	**5.30**	---	**6.60**	<6.4	<0.32	**5.90**	<13	<0.64	<0.64	**23.0**	---	---	---
SB-4S		1/9/2008	SB-4S	6-8	<7.9	<16	<0.79	<0.79	**14.0**	---	**28.0**	<7.9	<0.40	**11.0**	<16	<0.79	<0.79	**30.0**	---	---	---
MW-1D	Pacific Crest	6/2/2008	MW1D-5-6.0	5-6	---	<11	---	**1.50**	**13.0**	<1.1	**67.0**	**2,000**	<0.28	<15	---	---	---	**180**	---	---	---
MW-2D		6/2/2008	MW2D-6-6.5	6-6.5	---	**140**	---	**6.40**	**120**	<1.2	**330**	**560**	<0.03	**120**	---	---	---	**1,300**	---	---	---
MW-3D		5/30/2008	MW3D-8	8	---	<12	---	**1.72**	**46.0**	<1.0	**32.0**	<6.0	<0.30	**53.0**	---	---	---	**65.0**	---	---	---
MW-4D		5/30/2008	MW4D-6.5	6.5	---	<10	---	<0.52	**7.20**	<1.2	**12.0**	**17.0**	<0.26	**8.70**	---	---	---	**98.0**	---	---	---
MW05	G-Logics	10/19/2015	MW05-03-20151019	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/19/2015	MW05-06-20151019	6	**6.78 J**	**8.98**	**0.206**	**23.4**	**30.0**	---	**167**	**1,360 J**	**0.519**	**51.4**	**1.15**	**0.447**	<0.176	**1,580**	---	---	---
		10/19/2015	MW05-10-20151019	10	**11.9 J**	**6.15**	**0.182**	**2.09**	**22.8**	---	**87.4**	**477 J**	<0.251	**80.4**	**0.961**	**0.127**	<0.168	**496**	---	---	---
		10/19/2015	MW05-13-20151019	13	<0.209 JU	**3.06**	<0.209	<0.209	**12.5**	---	**9.62**	**1.33 J**	<0.318	**12.7**	**0.859**	<0.104	<0.209	**23.8**	---	---	---
		10/19/2015	MW05-20-20151019	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

TABLE 1-2
Soil Sample Analyses, Metals
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	Antimony	Arsenic (4)	Beryllium	Cadmium	Total Chromium	Chromium (VI)	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc	TCLP Cadmium	TCLP Chromium	TCLP Lead
MTCA Method B Non-Cancer Cleanup Level (1)					32	24	160	80	na	240	3,200	250	2	1,600	400	400	0.8	24,000	na	na	na
MTCA Method B Cancer Cleanup Level (1)					na	0.667	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
TEE Cleanup Level (2)					na	20	na	36	135	na	550	220	0.7	1,850	0.8	na	na	570	na	na	na
Puget Sound Natural Background Levels (3)					na	7.30	0.600	0.800	48.2	na	36.4	16.8	na	38.2	na	na	na	85.1	na	na	na
(units in mg/kg)																					
MW06	G-Logics	10/21/2015	MW06-03-20151021	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/21/2015	MW06-06-20151021	6	**0.192 J**	**5.14 J**	<0.174	<0.174	**8.99**	---	**9.07**	**95.9**	<0.256	**5.96**	**0.914**	<0.869 JU	<0.174	**44.4 J**	---	---	---
		10/21/2015	MW06-11-20151021	11	<0.215 JU	**5.84 J**	**0.309**	<0.215	**19.0**	---	**20.0**	**2.12**	<0.350	**17.2**	**1.54**	<0.108 JU	<0.215	**34.3 J**	---	---	---
		10/21/2015	MW06-14-20151021	14	<0.214 JU	**1.47 J**	<0.214	<0.214	**9.33**	---	**8.64**	**1.06**	<0.309	**7.22**	**1.13**	<0.107 JU	<0.214	**21.7 J**	---	---	---
		10/21/2015	MW06-20-20151021	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW07	G-Logics	10/20/2015	MW07-04-20151020	4	**1.18 J**	**4.41**	**0.242**	**0.708**	**29.1**	---	**74.3**	**382 J**	**0.743**	**31.2**	**0.805**	**0.287 J**	<0.186	**265**	---	---	---
		10/20/2015	MW07-08-20151020	8	<0.198 JU	**2.23**	<0.198	<0.198	**9.87**	---	**8.53**	**1.71 J**	<0.285	**6.44**	**0.873**	<0.0991 JU	**0.198**	**21.1**	---	---	---
		10/20/2015	MW07-13-20151020	13	<0.213 JU	**6.06**	**0.359**	<0.213	**19.7**	---	**25.5**	**6.92 J**	<0.317	**14.7**	**1.81**	<0.106 JU	**0.213**	**41.8**	---	---	---
		10/20/2015	MW07-18-20151020	18	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW08	G-Logics	10/20/2015	MW08-06-20151020	6	<0.163 JU	**3.17**	**0.201**	**0.163**	**26.4**	---	**14.6**	**97.0 J**	<0.265	**34.6**	**0.79**	<0.0816 JU	<0.163	**48.4**	---	---	---
		10/20/2015	MW08-08-20151020	8	**0.264 J**	**3.86**	**0.211**	**0.315**	**29.6**	---	**22.1**	**668 J**	<0.312	**34.9**	**1.10**	<0.0923 JU	<0.185	**137**	---	---	---
		10/20/2015	MW08-11-20151020	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/20/2015	MW08-15-20151020	15	<0.201 JU	**1.89**	<0.201	<0.201	**12.8**	---	**19.2**	**27.6 J**	<0.326	**10.0**	**0.98**	<0.100 JU	<0.201	**35.4**	---	---	---
		10/20/2015	MW08-21-20151020	21	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW09	G-Logics	10/22/2015	MW09-05-20151022	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/22/2015	MW09-08-20151022	8	<0.196 JU	**2.64**	**0.272**	<0.196	**10.0**	---	**12.3**	**1.46**	<0.340	**10.1**	**1.23**	<0.0978	<0.196	**23.5**	---	---	---
		10/22/2015	MW09-13-20151022	13	<0.185 JU	**1.42**	<0.185	<0.185	**11.7**	---	**7.89**	**0.952**	<0.309	**7.11**	**1.08**	<0.463	<0.185	**21.1**	---	---	---
		10/22/2015	MW09-16-20151022	16	<0.198 JU	**3.08**	**0.247**	<0.198	**17.2**	---	**15.4**	**2.76**	<0.303	**11.0**	**1.48**	<0.0990	<0.198	**27.5**	---	---	---
		10/22/2015	MW09-20-20151022	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW09D	G-Logics	10/22/2015	MW09D-05-20151022	5	**17.7 J**	**9.20**	<0.174	**0.342**	**10.9**	---	**17.8**	**246**	<0.249	**7.95**	**0.923**	<0.0872	<0.174	**51.1**	---	---	---
		10/22/2015	MW09D-10-20151022	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/22/2015	MW09D-14-20151022	14	**0.218 J**	**3.82**	<0.197	<0.197	**15.1**	---	**13.7**	**1.58**	<0.293	**11.3**	**1.39**	<0.0987	<0.197	**29.1**	---	---	---
		10/22/2015	MW09D-18-20151022	18	<0.201 JU	**2.46**	<0.201	<0.201	**9.85**	---	**11.7**	**1.10**	<0.299	**9.91**	**1.27**	<0.101	<0.201	**21.3**	---	---	---
		10/22/2015	MW09D-23-20151022	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/22/2015	MW09D-26-20151022	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/22/2015	MW09D-31-20151022	31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

TABLE 1-2
Soil Sample Analyses, Metals
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	Antimony	Arsenic (4)	Beryllium	Cadmium	Total Chromium	Chromium (VI)	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc	TCLP Cadmium	TCLP Chromium	TCLP Lead
MTCA Method B Non-Cancer Cleanup Level (1)					32	24	160	80	na	240	3,200	250	2	1,600	400	400	0.8	24,000	na	na	na
MTCA Method B Cancer Cleanup Level (1)					na	0.667	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
TEE Cleanup Level (2)					na	20	na	36	135	na	550	220	0.7	1,850	0.8	na	na	570	na	na	na
Puget Sound Natural Background Levels (3)					na	7.30	0.600	0.800	48.2	na	36.4	16.8	na	38.2	na	na	na	85.1	na	na	na
(units in mg/kg)																					
MW10	G-Logics	10/22/2015	MW10-06-20151022	6	<0.172	**2.88**	<0.172	<0.172	**11.8**	---	**9.30**	**1.37**	<0.228	**7.84**	**1.07**	<0.0859	<0.172	**20.4**	---	---	---
		10/22/2015	MW10-10-20151022	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/22/2015	MW10-16-20151022	16	<0.220	**2.93**	<0.220	<0.220	**19.3**	---	**15.9**	**4.30**	<0.297	**13.6**	**1.52**	<0.110	<0.220	**29.2**	---	---	---
		10/22/2015	MW10-18-20151022	18	<0.224	**9.11**	<0.224	<0.224	**17.3**	---	**16.3**	**3.74**	<0.311	**14.2**	**1.40**	<0.112	<0.224	**33.1**	---	---	---
MW10D	G-Logics	10/22/2015	MW10D-04-20151022	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/22/2015	MW10D-06-20151022	6	<0.172 JU	**2.40**	<0.172	<0.172	**7.98**	---	**7.80**	**1.22**	<0.237	**6.35**	**1.20**	<0.0860	<0.172	**19.0**	---	---	---
		10/22/2015	MW10D-13-20151022	13	<0.192 JU	**2.75**	**0.194**	<0.192	**11.0**	---	**10.1**	**2.18**	<0.306	**8.60**	**1.35**	<0.0959	<0.192	**24.2**	---	---	---
		10/22/2015	MW10D-18-20151022	18	<0.208	**1.28**	<0.208	<0.208	**11.1**	---	**8.92**	**1.42**	<0.273	**7.03**	**1.10**	<0.104	<0.208	**21.9**	---	---	---
		10/22/2015	MW10D-24-20151022	24	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/22/2015	MW10D-28-20151022	28	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/22/2015	MW10D-31-20151022	31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW11	G-Logics	10/20/2015	MW11-06-20151020	6	**0.511 J**	**6.89**	**0.345**	**0.683**	**50.3**	---	**55.8**	**45.6 J**	<0.318	**54.4**	**1.62**	**0.109 J**	<0.182	**199**	---	---	---
		10/20/2015	MW11-11-20151020	11	**1.53 J**	**20.4**	**0.242**	**1.95**	**35.0**	---	**340**	**140 J**	<0.342	**48.4**	**1.12**	**0.271 J**	<0.215	**0.376**	---	---	---
		10/20/2015	MW11-16-20151020	16	<0.230 JU	**4.87**	**0.346**	<0.230	**11.2**	---	**16.2**	**1.56 J**	<0.359	**10.2**	**1.21**	<0.115 JU	<0.230	**26.6**	---	---	---
		10/20/2015	MW11-20-20151020	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW12	G-Logics	10/20/2015	MW12-04-20151020	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/20/2015	MW12-06-20151020	6	**7.22 J**	**9.92**	**0.175**	**2.39**	**88.2**	---	**8,950 D**	**755 J**	**0.657**	**65.8**	**1.05**	**0.676 J**	<0.173	**6,460**	---	---	---
		10/20/2015	MW12-11-20151020	11	**1.80 J**	**6.13**	<0.182	**1.06**	**20.6**	---	**38.3**	**138 J**	<0.314	**17.2**	**1.07**	<0.0910 JU	<0.182	**833**	---	---	---
		10/20/2015	MW12-16-20151020	16	<0.195 JU	**1.61**	<0.195	<0.195	**13.5**	---	**14.3**	**1.41 J**	<0.331	**5.94**	**1.11**	<0.0973 JU	<0.195	**22.1**	---	---	---
MW12D	G-Logics	10/19/2015	MW12D-04-20151019	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/19/2015	MW12D-08-20151019	8	<0.167 JU	**3.36**	<0.167	<0.167	**11.8**	---	**10.0**	**1.80 J**	<0.235	**7.79**	**0.754**	<0.0836	<0.167	**28.4**	---	---	---
		10/19/2015	MW12D-10-20151019	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/19/2015	MW12D-11-20151019	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/19/2015	MW12D-14-20151019	14	<0.210 JU	**4.07**	**0.249**	<0.210	**13.4**	---	**12.4**	**1.36 J**	<0.287	**10.5**	**1.22**	<0.105	<0.210	**26.8**	---	---	---
		10/19/2015	MW12D-16-20151019	16	<0.200 JU	**5.71**	**0.399**	<0.200	**18.0**	---	**20.7**	**2.71 J**	<0.324	**11.5**	**1.48**	<0.100	<0.200	**31.7**	---	---	---
		10/19/2015	MW12D-23-20151019	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/19/2015	MW12D-31-20151019	31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

TABLE 1-2
Soil Sample Analyses, Metals
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	Antimony	Arsenic (4)	Beryllium	Cadmium	Total Chromium	Chromium (VI)	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc	TCLP Cadmium	TCLP Chromium	TCLP Lead
MTCA Method B Non-Cancer Cleanup Level (1)					32	24	160	80	na	240	3,200	250	2	1,600	400	400	0.8	24,000	na	na	na
MTCA Method B Cancer Cleanup Level (1)					na	0.667	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
TEE Cleanup Level (2)					na	20	na	36	135	na	550	220	0.7	1,850	0.8	na	na	570	na	na	na
Puget Sound Natural Background Levels (3)					na	7.30	0.600	0.800	48.2	na	36.4	16.8	na	38.2	na	na	na	85.1	na	na	na
(units in mg/kg)																					
MW13	G-Logics	10/21/2015	MW13-04-20151021	4	<0.182 JU	**1.77 J**	**0.213**	<0.182	**27.3**	---	**13.2**	**24.3**	<0.273	**43.0**	**0.870**	<0.0910 JU	<0.182	**34.7 J**	---	---	---
		10/21/2015	MW13-10-20151021	10	<0.231 JU	**7.61 J**	**0.432**	<0.231	**18.0**	---	**26.6**	**5.80**	<0.335	**17.4**	**2.02**	<0.115 JU	<0.231	**33.7 J**	---	---	---
		10/21/2015	MW13-13-20151021	13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/21/2015	MW13-18-20151021	18	<0.207 JU	**2.45 J**	<0.207	<0.207	**13.7**	---	**9.24**	**1.20**	<0.304	**5.93**	**1.21**	<0.104 JU	<0.207	**17.8 J**	---	---	---
		10/21/2015	MW13-21-20151021	21	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW14	G-Logics	10/21/2015	MW14-03-20151021	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/21/2015	MW14-06-20151021	6	**0.568 J**	**5.85 J**	**0.517**	**0.250**	**22.7**	---	**37.3**	**40.2**	<0.293	**28.9**	**1.58**	<0.0941 JU	<0.188	**79.6 J**	---	---	---
		10/21/2015	MW14-11-20151021	11	**0.787 J**	**11.7 J**	**0.397**	**3.42**	**38.8**	---	**44.5**	**47.3**	**0.308**	**19.5**	**1.95**	**2.12 J**	<0.200	**140 J**	---	---	---
		10/21/2015	MW14-13-20151021	13	**0.464 J**	**14.1 J**	**0.524**	**11.8**	**84.7**	---	**74.3**	**140**	<0.395	**22.1**	**2.02**	**7.50 J**	<0.252	**302 J**	---	---	---
		10/21/2015	MW14-16-20151021	16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/21/2015	MW14-20-20151021	20	**0.592 J**	**4.00 J**	**0.219**	**0.329**	**16.4**	---	**23.3**	**39.8**	<0.287	**11.1**	**1.12**	**0.405 J**	<0.198	**63.9 J**	---	---	---
MW15	G-Logics	10/21/2015	MW15-06-20151021	6	**0.345 J**	**2.68 J**	<0.161	**0.230**	**12.6**	---	**24.9**	**33.2**	<0.260	**9.03**	**1.01**	<0.0806 JU	<0.161	**82.6 J**	---	---	---
		10/21/2015	MW15-11-20151021	11	<0.224 JU	**8.86 J**	**0.331**	<0.224	**22.6**	---	**27.5**	**4.74**	<0.305	**18.5**	**1.94**	<0.112 JU	<0.224	**49.4 J**	---	---	---
		10/21/2015	MW15-15-20151021	15	<0.188 JU	**1.01 J**	<0.188	<0.188	**11.9**	---	**8.53**	**1.39**	<0.308	**6.63**	**1.08**	<0.0940 JU	<0.188	**24.9 J**	---	---	---
		10/21/2015	MW15-20-20151021	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW16	G-Logics	10/19/2015	MW16-03-20151019	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/19/2015	MW16-06-20151019	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/19/2015	MW16-10-20151019	10	**9.48 J**	**24.8**	**0.359**	**0.283**	**27.4**	---	**76.1**	**51.6 J**	<0.272	**27.4**	**1.37**	**0.212**	<0.199	**147**	---	---	---
		10/19/2015	MW16-13-20151019	13	**0.67 J**	**4.27**	**0.290**	<0.168	**39.3**	---	**19.8**	**18.3 J**	<0.237	**38.0**	**1.11**	<0.0842	<0.168	**54.1**	---	---	---
		10/19/2015	MW16-15-20151019	15	**2.41 J**	**14.6**	**0.215**	**0.99**	**49.5**	---	**187**	**321 J**	**1.06**	**38.7**	**0.819**	**0.214**	<0.188	**395**	---	---	---
		10/19/2015	MW16-18-20151019	18	<0.201 JU	**0.963**	<0.201	<0.201	**11.2**	---	**8.57**	**1.85 J**	<0.318	**7.47**	**0.828**	<0.101	<0.201	**22.1**	---	---	---
		10/19/2015	MW16-20-20151019	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GLB01	G-Logics	3/29/2016	GLB01-07-20160328	7	**0.538 J**	**4.91**	<0.171	**0.405**	**30.0**	---	**110**	**115 J**	**0.0659**	**35.9**	**1.84**	<0.0856	<0.171	**131**	---	---	---
		3/29/2016	GLB01-12-20160328	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/29/2016	GLB01-14-20160328	14	**0.221 J**	**7.95**	**0.23**	**7.65**	**29.2**	---	**27.8**	**13.0 J**	**0.0349**	**29.0**	**1.07**	**0.245**	<0.196	**106**	---	---	---
		3/29/2016	GLB01-20-20160328	20	<0.198	**1.08**	<0.198	<0.198	**10.6**	---	**5.15**	**0.997**	<0.0225	**5.70**	**1.08**	<0.0991	<0.198	**24.0**	---	---	---

TABLE 1-2
Soil Sample Analyses, Metals
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	Antimony	Arsenic (4)	Beryllium	Cadmium	Total Chromium	Chromium (VI)	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc	TCLP Cadmium	TCLP Chromium	TCLP Lead
MTCA Method B Non-Cancer Cleanup Level (1)					32	24	160	80	na	240	3,200	250	2	1,600	400	400	0.8	24,000	na	na	na
MTCA Method B Cancer Cleanup Level (1)					na	0.667	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
TEE Cleanup Level (2)					na	20	na	36	135	na	550	220	0.7	1,850	0.8	na	na	570	na	na	na
Puget Sound Natural Background Levels (3)					na	7.30	0.600	0.800	48.2	na	36.4	16.8	na	38.2	na	na	na	85.1	na	na	na
(units in mg/kg)																					
GLB02	G-Logics	3/28/2016	GLB02-03-20160328	3	**1.07**	**23.0**	**0.191**	**0.256**	**34.2 J**	---	**31.8**	**24.6 J**	**0.0258**	**83.4**	**1.39**	**0.0963**	<0.173	**91.8**	---	---	---
		3/28/2016	GLB02-08-20160328	8	**0.974**	**5.42**	<0.178	**1.08**	**67.7 J**	---	**14,200**	**179 J**	**0.0992**	**736**	**0.791**	**0.754**	<0.0267	**3,040**	---	---	---
		3/28/2016	GLB02-14-20160328	14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/28/2016	GLB02-17-20160328	17	**0.719**	**5.42**	<0.197	**0.897**	**30.4 J**	---	**2,470**	**152 J**	**0.160**	**129**	**0.674**	**0.381**	<0.197	**601**	---	---	---
		3/28/2016	GLB02-20-20160328	20	**1.98**	**7.99**	<0.172	**5.33**	**37.1 J**	---	**210**	**148 J**	**0.175**	**37.6**	**0.867**	**0.132**	<0.172	**3,560**	---	---	---
GLB03	G-Logics	3/28/2016	GLB03-04-20160328	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/28/2016	GLB03-08-20160328	8	**0.604**	**3.98**	<0.169	<0.169	**12.0 J**	---	**24.5**	**30.0 J**	**0.0568**	**11.2**	**1.06**	<0.0847	<0.169	**57.2**	---	---	---
		3/28/2016	GLB03-17-20160328	17	<0.209	**3.92**	<0.209	<0.209	**12.9 J**	---	**13.2**	**1.78 J**	<0.0248	**9.89**	**1.23**	<0.105	<0.209	**26.5**	---	---	---
		3/28/2016	GLB03-20-20160328	20	<0.189	**1.49**	<0.189	<0.189	**10.7 J**	---	**8.72**	**1.11 J**	<0.0243	**7.49**	**1.13**	<0.0945	<0.189	**20.6**	---	---	---
GLB04	G-Logics	3/28/2016	GLB04-04-20160328	4	**0.524**	**8.89**	**0.387**	<0.195	**56.9 J**	---	**40.2**	**18.9 J**	**0.057**	**68.7**	**1.95**	<0.0977	<0.195	**87.7**	---	---	---
		3/28/2016	GLB04-07-20160328	7	**18.4**	**84.2**	<0.171	**2.35**	**170 J**	---	**225**	**4,700 J**	**0.337**	**90.4**	**0.975**	**0.197**	<0.171	**925**	---	---	---
		3/28/2016	GLB04-12-20160328	12	**2.39**	**5.11**	**0.271**	**0.262**	**19.1 J**	---	**24.3**	**385 J**	**0.0512**	**19.5**	**1.87**	<0.0967	<0.193	**215**	---	---	---
		3/28/2016	GLB04-16-20160328	16	<0.198	**1.06**	<0.198	<0.198	**10.9 J**	---	**7.99**	**4.61 J**	<0.0232	**6.50**	**1.00**	<0.099	<0.198	**19.3**	---	---	---
		3/28/2016	GLB04-20-20160328	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GLB05	G-Logics	3/28/2016	GLB05-04-20160328	4	**3.60 J**	**11.6**	**0.201**	**0.980**	**190**	---	**437**	**1,260 J**	**0.0436**	**315**	**0.956**	**0.446**	<0.167	**370 J**	---	---	---
		3/28/2016	GLB05-08-20160328	8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/28/2016	GLB05-12-20160328	12	<0.209 JU	**3.09**	**0.247**	<0.209	**13.2**	---	**14.7**	**2.09 J**	**0.0280**	**8.47**	**1.42**	<0.105	<0.209	**32.7 J**	---	---	---
		3/28/2016	GLB05-16-20160328	16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/28/2016	GLB05-20-20160328	20	<0.205	**3.12**	<0.205	<0.205	**12.6 J**	---	**16.7**	**1.4 J**	**0.400**	**7.51**	**1.35**	<0.102	<0.205	**25.9**	---	---	---
GLB06	G-Logics	3/29/2016	GLB06-04-20160328	4	<0.186 JU	**4.18**	<0.186	<0.186	**12.9**	---	**17.4**	**11.9 J**	**0.0315**	**6.60**	**1.23**	<0.093	<0.186	**44.5**	---	---	---
		3/29/2016	GLB06-07-20160328	7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/29/2016	GLB06-09-20160328	9	**0.212 J**	**6.17**	**0.376**	<0.178	**40.5**	---	**31.9**	**31.0 J**	**0.0564**	**49.5**	**1.16**	<0.0889	<0.178	**71.4**	---	---	---
		3/29/2016	GLB06-14-20160328	14	<0.208 JU	**4.00**	**0.281**	<0.208	**18.6**	---	**20.4**	**6.20 J**	**0.0384**	**15.4**	**1.53**	<0.104	<0.208	**37.4**	---	---	---
		3/29/2016	GLB06-20-20160328	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GLB07	G-Logics	3/28/2016	GLB07-04-20160328	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/28/2016	GLB07-08-20160328	8	**2.98 J**	**28.0**	<0.0565	<0.431	**342**	---	**2,240**	**351 J**	**0.0632 J**	**209**	<0.607	<0.256	<0.012	**395 J**	---	---	---
		3/28/2016	GLB07-15-20160328	15	**0.255 J**	**7.44**	<0.2	**0.264**	**29.2**	---	**45.7**	**49.0 J**	<0.0227 JU	**11.8**	**1.16**	**2.19**	<0.2	**86.3 J**	---	---	---
		3/28/2016	GLB07-19-20160328	19	<0.217 JU	**4.49**	**0.319**	<0.217	**15.8**	---	**19.1**	**4.63 J**	<0.0257 JU	**10.8**	**1.70**	<0.109	<0.217	**34.9 J**	---	---	---

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Soil Sample Analyses, Metals
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	Antimony	Arsenic (4)	Beryllium	Cadmium	Total Chromium	Chromium (VI)	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc	TCLP Cadmium	TCLP Chromium	TCLP Lead
MTCA Method B Non-Cancer Cleanup Level (1)					32	24	160	80	na	240	3,200	250	2	1,600	400	400	0.8	24,000	na	na	na
MTCA Method B Cancer Cleanup Level (1)					na	0.667	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
TEE Cleanup Level (2)					na	20	na	36	135	na	550	220	0.7	1,850	0.8	na	na	570	na	na	na
Puget Sound Natural Background Levels (3)					na	7.30	0.600	0.800	48.2	na	36.4	16.8	na	38.2	na	na	na	85.1	na	na	na
(units in mg/kg)																					
GLB08	G-Logics	3/28/2016	GLB08-08-20160328	8	<0.172 JU	**3.17**	**0.201**	<0.172	**13.4**	---	**12.6**	**1.72 J**	<0.0233	**11.2**	**1.51**	<0.086	<0.172	**30.3 J**	---	---	---
		3/28/2016	GLB08-12-20160328	12	<0.195 JU	**1.93**	<0.195	<0.195	**12.8**	---	**10.8**	**1.28 J**	<0.0236	**8.11**	**1.36**	<0.0973	<0.195	**25.6 J**	---	---	---
		3/28/2016	GLB08-16-20160328	16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/28/2016	GLB08-20-20160328	20	<0.198 JU	**2.19**	<0.198	<0.198	**11.7**	---	**11.9**	**2.17 J**	<0.0224	**7.90**	**1.08**	<0.0988	<0.198	**25.4 J**	---	---	---
GLB09	G-Logics	3/29/2016	GLB09-03-20160328	3	<0.17 JU	**3.52**	<0.17	<0.17	**8.81**	---	**11.4**	**3.72 J**	<0.0211	**6.19**	**0.963**	<0.085	<0.17	**19.7**	---	---	---
		3/29/2016	GLB09-08-20160328	8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/29/2016	GLB09-14-20160328	14	<0.191 JU	**3.85**	**0.221**	<0.191	**12.7**	---	**20.0**	**2.18 J**	<0.0223	**9.07**	**1.37**	<0.0953	<0.191	**24.1**	---	---	---
		3/29/2016	GLB09-20-20160328	20	<0.195 JU	**3.49**	<0.195	<0.195	**9.62**	---	**11.3**	**1.22 J**	<0.0235	**7.20**	**0.991**	<0.0974	<0.195	**18.70**	---	---	---
GLB10	G-Logics	3/29/2016	GLB10-04-20160328	4	**0.607 J**	**5.31**	**0.281**	**0.467**	**27.0**	---	**57.7**	**86.6 J**	**0.438**	**30.0**	**1.19**	**0.218**	<0.185	**160**	---	---	---
		3/29/2016	GLB10-08-20160328	8	**0.991 J**	**12.6**	<0.164	**0.205**	**338**	---	**180**	**50.3 J**	**0.103**	**439**	**0.508**	**0.114**	<0.164	**121**	---	---	---
GLB11	G-Logics	3/28/2016	GLB11-06-20160328	6	**27.1**	**20.6**	**0.328**	**1.35**	**37.7 J**	---	**298**	**1,890 J**	**0.108**	**34.6**	**1.45**	**0.214**	<0.174	**205**	---	---	---
		3/28/2016	GLB11-12-20160328	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/28/2016	GLB11-15-20160328	15	<0.217	**4.39**	**0.290**	<0.217	**21.3 J**	---	**24.1**	**2.73 J**	**0.0344**	**12.9**	**1.88**	<0.109	<0.217	**35.4**	---	---	---
		3/28/2016	GLB11-20-20160328	20	<0.198	**2.09**	**0.209**	<0.198	**11.8 J**	---	**10.5**	**1.14 J**	<0.0223	**7.67**	**1.44**	<0.0988	<0.198	**20.8**	---	---	---
GLB12	G-Logics	3/29/2016	GLB12-04-20160328	4	**0.431 J**	**6.44 J**	**0.213**	<0.164	**23.2**	---	**16.7**	**14.5**	**0.0225**	**14.1**	**1.35**	<0.0818	<0.164	**40.8**	---	---	---
		3/29/2016	GLB12-06-20160328	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/29/2016	GLB12-10-20160328	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/29/2016	GLB12-14-20160328	14	<0.187 JU	**1.16 J**	<0.187	<0.187	**13.4**	---	**7.69**	**1.23**	<0.0224	**5.40**	**0.931**	<0.0933	<0.187	**17.1**	---	---	---
		3/29/2016	GLB12-20-20160328	20	<0.191 JU	**1.30 J**	<0.191	<0.191	**11.7**	---	**9.63**	**1.03**	<0.0220	**7.62**	**1.07**	<0.0957	<0.191	**26.7**	---	---	---
GLB13	G-Logics	3/28/2016	GLB13-01-20160328	1	**0.326**	**21.6**	**0.260**	<0.208	**30.6 J**	---	**38.8**	**14.6 J**	<0.0261	**22.8**	**1.97**	<0.104	<0.208	**87.4**	---	---	---
		3/28/2016	GLB13-04-20160328	4	**0.658**	**3.08**	**0.290**	**0.228**	**23.5 J**	---	**73.8**	**103 J**	**0.0774**	**30.3**	**1.54**	**0.0823**	<0.162	**81.9**	---	---	---
		3/28/2016	GLB13-12-20160328	12	<0.195	**2.43**	<0.195	<0.195	**10.8 J**	---	**10.0**	**4.34 J**	<0.0243	**7.30**	**1.32**	<0.0974	<0.195	**22.5**	---	---	---

TABLE 1-2
Soil Sample Analyses, Metals
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	Antimony	Arsenic (4)	Beryllium	Cadmium	Total Chromium	Chromium (VI)	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc	TCLP Cadmium	TCLP Chromium	TCLP Lead
MTCA Method B Non-Cancer Cleanup Level (1)					32	24	160	80	na	240	3,200	250	2	1,600	400	400	0.8	24,000	na	na	na
MTCA Method B Cancer Cleanup Level (1)					na	0.667	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
TEE Cleanup Level (2)					na	20	na	36	135	na	550	220	0.7	1,850	0.8	na	na	570	na	na	na
Puget Sound Natural Background Levels (3)					na	7.30	0.600	0.800	48.2	na	36.4	16.8	na	38.2	na	na	na	85.1	na	na	na
(units in mg/kg)																					
GLB14	G-Logics	3/29/2016	GLB14-02-20160328	2	**0.207 J**	**4.09**	<0.181	<0.181	**20.5**	---	**29.5**	**3.70 J**	<0.0201	**14.5**	**0.850**	**0.272**	<0.181	**38.7**	---	---	---
		3/29/2016	GLB14-06-20160328	6	**1.19 J**	**11.9**	<0.197	<0.197	**19.5**	---	**23.0**	**15.4 J**	<0.0219	**20.3**	**0.866**	<0.0983	<0.197	**48.9**	---	---	---
		3/29/2016	GLB14-12-20160328	12	**0.390 J**	**6.20**	<0.209	**0.327**	**14.7**	---	**31.3**	**25.9 J**	**0.0446**	**12.2**	**0.999**	**0.275**	<0.209	**72.3**	---	---	---
		3/29/2016	GLB14-15-20160328	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/29/2016	GLB14-20-20160328	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Notes: Refer to site diagram(s) for sampling locations.

See Table 1-1 for Details Regarding ARARs used for Soil Screening Criteria.

(1) Direct Contact, Method B Non-Cancer and Cancer Cleanup Levels, Based on Ecology "Cleanup Levels and Risk Calculation (CLARC)" Website, Accessed July 2017

(2) Terrestrial Ecological Evaluation, Industrial or Commercial Cleanup Levels Based on MTCA Table 749-2

(3) Natural Background Concentrations Based on Ecology Publication #94-115 (dated October, 1994)

(4) Cleanup Level for Arsenic Adjusted to the Natural Background Concentrations of 7.3 mg/kg in the Puget Sound Area

na Cleanup Level Not Available

dup Blind Field Duplicate

--- Not Analyzed/No Data

nd Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified

<50.0 Not Detected at Specified Laboratory Reporting Limit

<49.9 Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level

250 Bold Number(s) Indicates Contaminant Detected.

1,440 Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level

1.70 Bold Number(s) and Purple Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level, but is Not a Final COPC

TCLP Analysis Using Toxicity Characteristic Leaching Procedure

U Not Detected Above the Reported Sample Quantitation Limit

J Estimated Concentration, Analyte Detected Below Reporting Limit

TABLE 1-3
Soil Sample Analyses, Polychlorinated Biphenyls (PCBs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Total PCB Aroclors (3)	Total PCB Congener (3)
MTCA Method B Non-Cancer Cleanup Level (1)					5.6	na	na	na	na	1.6	na	na	na	na	na
MTCA Method B Cancer Cleanup Level (1)					1.43	na	na	na	na	0.50	0.50	na	na	0.50	0.50
TEE Cleanup Level (2)					na	na	na	na	na	na	na	na	na	2.00	2.00
(units in mg/kg)															
TP-1-R	Riley Group	7/17/2000	TP-1-R-1.5'	1.5	<0.059	<0.059	<0.059	<0.059	<0.059	<0.059	**0.0810**	---	---	**0.0810**	---
TP-2-R		7/17/2000	TP-2-R-4.5'	4.5	<0.061	<0.061	<0.061	<0.061	<0.061	<0.061	**0.0900**	---	---	**0.0900**	---
TP-2-R		7/17/2000	TP-2-R-5.5'	5.5	---	---	---	---	---	---	---	---	---	---	---
TP-3-R		7/17/2000	TP-3-R-5.5'	5.5	<0.059	<0.059	<0.059	**2.30**	<0.059	<0.059	<0.059	---	---	**2.30**	---
TP-4-R		7/17/2000	TP-4-R-2'	2	<0.062	<0.062	<0.062	**0.530**	<0.057	<0.057	**0.0150**	---	---	**2.13**	---
B1-R	Riley Group	8/3/2000	B-1-R-6	14-14.5	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	**0.150**	---	---	**0.150**	---
B2-R		8/3/2000	B-2-R-1	2.5-4.0	<0.054	<0.054	<0.054	**1.00**	---	**0.380**	**0.110**	---	---	**1.49**	---
B3-R		8/3/2000	B-3-R-3	12.5-14	<0.62	<0.62	<0.62	**5.00**	<0.62	**3.10**	**1.70**	---	---	**9.80**	---
B4-R		8/3/2000	B-4-R-3	10-11.5	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	---	---	<0.075	---
B1	Farallon	3/13/2002	B1-0-3	0-3	<0.54	<0.54	<0.54	**1.70**	<0.54	**1.80**	**2.40**	---	---	**5.90**	---
B2		3/13/2002	B2-0-3	0-3	<0.054	<0.054	<0.054	**0.500**	<0.054	**0.970**	**0.390**	---	---	**1.86**	---
B3		3/13/2002	B3-0-3	0-3	<0.54	<0.54	<0.54	**6.00**	<0.54	**2.50**	<0.54	---	---	**8.50**	---
B4 (TP-B4)		3/13/2002	B4-0-3	0-3	<0.55	<0.55	<0.55	**3.70**	<0.55	**1.70**	<0.55	---	---	**5.40**	---
B4		3/13/2002	B4-3-6	3-6	---	---	---	---	---	---	---	---	---	---	---
B5 (TP-B5)		3/13/2002	B5-3-4	3-4	<0.56	<0.56	<0.56	**5.80**	<0.56	**1.70**	**0.790**	---	---	**8.29**	---
B5		3/13/2002	B5-6-9	6-9	---	---	---	---	---	---	---	---	---	---	---
B6		3/13/2002	B6-0-3	0-3	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55	---	---	<0.55	---
B7 (TP-B7)		3/13/2002	B7-2-4	2-4	<5.5	<5.5	<5.5	**34.0**	<5.5	<5.5	<5.5	---	---	**34.0**	---
B7		3/13/2002	B7-6-7.5	6-7.5	<0.054	<0.054	<0.054	**0.240**	<0.054	**0.190**	**0.110**	---	---	**0.540**	---
B8		3/13/2002	B8-2-3	2-3	<0.055	<0.055	<0.055	<0.055	<0.055	**0.860**	**0.120**	---	---	**0.206**	---
B9		3/13/2002	B9-1.5-2	1.5-2	<0.054	<0.054	<0.054	<0.054	<0.054	<0.054	<0.054	---	---	<0.054	---
B10		3/13/2002	B10-1-3	1-3	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	---	---	<0.056	---
B11		3/14/2002	B11-0-3	0-3	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	---	---	<0.053	---
B12 (TP-B12)		3/14/2002	B12-0-1	0-1	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	---	---	<0.055	---
B13		3/13/2002	B13-0-3	0-3	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	**0.100**	---	---	**0.100**	---
B14		3/13/2002	B14-2-3	2-3	<0.054	<0.054	<0.054	<0.054	<0.054	<0.054	<0.054	---	---	<0.054	---
B15		3/14/2002	B15-0-3	0-3	<0.054	<0.054	<0.054	<0.054	<0.054	<0.054	**0.0570**	---	---	**0.0570**	---
B16		3/14/2002	B16-0-1.5	0-1.5	<0.058	<0.058	<0.058	**0.120**	<0.058	**0.130**	**0.150**	---	---	**0.400**	---
B17		3/14/2002	B17-0-3	0-3	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	**0.0600**	---	---	**0.0600**	---

Table is in color, black and white copies may not be suitable for review.

TABLE 1-3
Soil Sample Analyses, Polychlorinated Biphenyls (PCBs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Total PCB Aroclors (3)	Total PCB Congener (3)
MTCA Method B Non-Cancer Cleanup Level (1)					5.6	na	na	na	na	1.6	na	na	na	na	na
MTCA Method B Cancer Cleanup Level (1)					1.43	na	na	na	na	0.50	0.50	na	na	0.50	0.50
TEE Cleanup Level (2)					na	na	na	na	na	na	na	na	na	2.00	2.00
(units in mg/kg)															
B18		3/14/2002	B18-0-3	0-3	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	**0.110**	---	---	**0.110**	---
B19		3/13/2002	B19-1.5-3	1.5-3	<0.052	<0.052	<0.052	<0.052	<0.052	**0.140**	<0.052	---	---	**0.140**	---
MW1	Farallon	3/18/2002	MW1-3-4.5	3-4.5	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	---	---	<0.057	---
		3/18/2002	MW1-5-6.5	5-6.5	<0.053	<0.053	<0.053	**0.0680**	<0.053	<0.053	<0.053	---	---	**0.0680**	---
		3/18/2002	MW1-7.5-9	7.5-9	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	---	---	<0.070	---
MW2		3/18/2002	MW2-2-4	2-4	<0.063	<0.063	<0.063	<0.063	<0.063	**0.0910**	<0.063	---	---	**0.0910**	---
MW3		3/18/2002	MW3-2.5-4	2.5-4	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	---	---	<0.057	---
SB-1N	Farallon	1/8/2004	SB-1N	5-8	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	---	---	<0.053	---
SB-3N		1/8/2004	SB-3N	8-12	<0.068	<0.068	<0.068	<0.068	<0.068	**0.0840**	<0.068	---	---	**0.0840**	---
SB-3S		1/9/2008	SB-3S	6-8	<0.064	<0.064	<0.064	<0.064	<0.064	<0.064	<0.064	---	---	<0.064	---
SB-4S		1/9/2008	SB-4S	6-8	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	---
MW-1D	Pacific Crest	6/2/2008	MW1D-5-6.0	5-6	<0.056	<0.056	<0.056	<0.056	<0.056	**0.0570**	<0.056	<0.056	<0.056	**0.0570**	---
MW-2D		6/2/2008	MW2D-6-6.5	6-6.5	<0.061	<0.061	<0.061	<0.061	<0.061	**0.340**	**0.330**	<0.061	<0.061	**0.670**	---
MW-3D		5/30/2008	MW3D-8	8	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.54	---
MW-4D		5/30/2008	MW4D-6.5	6.5	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	---
MW05	G-Logics	10/19/2015	MW05-03-20151019	3	---	---	---	---	---	---	---	---	---	---	---
		10/19/2015	MW05-06-20151019	6	**8.89 JD**	<0.0154 JDU	<0.0154 JDU	<0.0154 JDU	<0.0154 JDU	**6.95 JD**	<0.0154 JDU	<0.0154 JDU	<0.0154 JDU	**15.8 JD**	---
		10/19/2015	MW05-10-20151019	10	**0.0678 JD**	<0.00313 JDU	<0.00313 JDU	<0.00313 JDU	<0.00313 JDU	<0.00313 JDU	**0.0508 JD**	<0.00313 JDU	<0.00313 JDU	**0.119 JD**	---
		10/19/2015	MW05-13-20151019	13	<0.00201 JU	<0.00201 JU	<0.00201 JU	<0.00201 JU	<0.00201 JU	<0.00201 JU	<0.00201 JU	<0.00201 JU	<0.00201 JU	<0.00201 JU	---
		10/19/2015	MW05-20-20151019	20	---	---	---	---	---	---	---	---	---	---	---
MW06	G-Logics	10/21/2015	MW06-03-20151021	3	---	---	---	---	---	---	---	---	---	---	---
		10/21/2015	MW06-06-20151021	6	<0.00173	<0.00173	<0.00173	<0.00173	<0.00173	<0.00173	<0.00173	<0.00173	<0.00173	<0.00173	---
		10/21/2015	MW06-11-20151021	11	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	---
		10/21/2015	MW06-14-20151021	14	<0.00192	<0.00192	<0.00192	<0.00192	<0.00192	<0.00192	<0.00192	<0.00192	<0.00192	<0.00192	---
		10/21/2015	MW06-20-20151021	20	---	---	---	---	---	---	---	---	---	---	---

TABLE 1-3
Soil Sample Analyses, Polychlorinated Biphenyls (PCBs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Total PCB Aroclors (3)	Total PCB Congener (3)
MTCA Method B Non-Cancer Cleanup Level (1)					5.6	na	na	na	na	1.6	na	na	na	na	na
MTCA Method B Cancer Cleanup Level (1)					1.43	na	na	na	na	0.50	0.50	na	na	0.50	0.50
TEE Cleanup Level (2)					na	na	na	na	na	na	na	na	na	2.00	2.00
(units in mg/kg)															
MW07	G-Logics	10/20/2015	MW07-04-20151020	4	<0.00170	<0.00170	<0.00170	<0.00170	<0.00170	<0.00170	**0.0240 J**	<0.00170	<0.00170	**0.0240 J**	---
		10/20/2015	MW07-08-20151020	8	<0.00203	<0.00203	<0.00203	<0.00203	<0.00203	<0.00203	<0.00203	<0.00203	<0.00203	<0.00203	---
		10/20/2015	MW07-13-20151020	13	<0.00207	<0.00207	<0.00207	<0.00207	<0.00207	<0.00207	<0.00207	<0.00207	<0.00207	<0.00207	---
		10/20/2015	MW07-18-20151020	18	---	---	---	---	---	---	---	---	---	---	---
MW08	G-Logics	10/20/2015	MW08-06-20151020	6	<0.00155	<0.00155	<0.00155	<0.00155	<0.00155	<0.00155	**0.0271 J**	<0.00155	<0.00155	**0.0271 J**	---
		10/20/2015	MW08-08-20151020	8	<0.00185	<0.00185	<0.00185	<0.00185	<0.00185	<0.00185	<0.00185	<0.00185	<0.00185	<0.00185	---
		10/20/2015	MW08-11-20151020	11	---	---	---	---	---	---	---	---	---	---	---
		10/20/2015	MW08-15-20151020	15	<0.00193	<0.00193	<0.00193	<0.00193	<0.00193	<0.00193	<0.00193	<0.00193	<0.00193	<0.00193	---
		10/20/2015	MW08-21-20151020	21	---	---	---	---	---	---	---	---	---	---	---
MW09	G-Logics	10/22/2015	MW09-05-20151022	5	---	---	---	---	---	---	---	---	---	---	---
		10/22/2015	MW09-08-20151022	8	<0.00215	<0.00215	<0.00215	<0.00215	<0.00215	<0.00215	<0.00215	<0.00215	<0.00215	<0.00215	---
		10/22/2015	MW09-13-20151022	13	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	---
		10/22/2015	MW09-16-20151022	16	<0.00206	<0.00206	<0.00206	<0.00206	<0.00206	<0.00206	<0.00206	<0.00206	<0.00206	<0.00206	---
		10/22/2015	MW09-20-20151022	20	---	---	---	---	---	---	---	---	---	---	---
MW09D	G-Logics	10/22/2015	MW09D-05-20151022	5	<0.00155	<0.00155	<0.00155	<0.00155	<0.00155	<0.00155	<0.00155	<0.00155	<0.00155	<0.00155	---
		10/22/2015	MW09D-10-20151022	10	---	---	---	---	---	---	---	---	---	---	---
		10/22/2015	MW09D-14-20151022	14	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	---
		10/22/2015	MW09D-18-20151022	18	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	---
		10/22/2015	MW09D-23-20151022	23	---	---	---	---	---	---	---	---	---	---	---
		10/22/2015	MW09D-26-20151022	26	---	---	---	---	---	---	---	---	---	---	---
		10/22/2015	MW09D-31-20151022	31	---	---	---	---	---	---	---	---	---	---	---
MW10	G-Logics	10/22/2015	MW10-06-20151022	6	<0.00164	<0.00164	<0.00164	<0.00164	<0.00164	<0.00164	<0.00164	<0.00164	<0.00164	<0.00164	---
		10/22/2015	MW10-10-20151022	10	---	---	---	---	---	---	---	---	---	---	---
		10/22/2015	MW10-16-20151022	16	<0.00213	<0.00213	<0.00213	<0.00213	<0.00213	<0.00213	<0.00213	<0.00213	<0.00213	<0.00213	---
		10/22/2015	MW10-18-20151022	18	<0.00211	<0.00211	<0.00211	<0.00211	<0.00211	<0.00211	<0.00211	<0.00211	<0.00211	<0.00211	---

TABLE 1-3
Soil Sample Analyses, Polychlorinated Biphenyls (PCBs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Total PCB Aroclors (3)	Total PCB Congener (3)
MTCA Method B Non-Cancer Cleanup Level (1)					5.6	na	na	na	na	1.6	na	na	na	na	na
MTCA Method B Cancer Cleanup Level (1)					1.43	na	na	na	na	0.50	0.50	na	na	0.50	0.50
TEE Cleanup Level (2)					na	na	na	na	na	na	na	na	na	2.00	2.00
(units in mg/kg)															
MW10D	G-Logics	10/22/2015	MW10D-04-20151022	4	---	---	---	---	---	---	---	---	---	---	---
		10/22/2015	MW10D-06-20151022	6	<0.00165	<0.00165	<0.00165	<0.00165	<0.00165	<0.00165	<0.00165	<0.00165	<0.00165	<0.00165	---
		10/22/2015	MW10D-13-20151022	13	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	---
		10/22/2015	MW10D-18-20151022	18	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	---
		10/22/2015	MW10D-24-20151022	24	---	---	---	---	---	---	---	---	---	---	---
		10/22/2015	MW10D-28-20151022	28	---	---	---	---	---	---	---	---	---	---	---
		10/22/2015	MW10D-31-20151022	31	---	---	---	---	---	---	---	---	---	---	---
MW11	G-Logics	10/20/2015	MW11-06-20151020	6	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	**0.487**	<0.00189	<0.00189	<0.00189	**0.487**	---
		10/20/2015	MW11-11-20151020	11	<0.00191	<0.00191	<0.00191	<0.00191	<0.00191	**0.0204 J**	<0.00191	<0.00191	<0.00191	**0.0204 J**	---
		10/20/2015	MW11-16-20151020	16	<0.00210	<0.00210	<0.00210	<0.00210	<0.00210	<0.00210	<0.00210	<0.00210	<0.00210	<0.00210	---
		10/20/2015	MW11-20-20151020	20	---	---	---	---	---	---	---	---	---	---	---
MW12	G-Logics	10/20/2015	MW12-04-20151020	4	---	---	---	---	---	---	---	---	---	---	---
		10/20/2015	MW12-06-20151020	6	<0.00172	<0.00172	<0.00172	<0.00172	<0.00172	<0.00172	<0.00172	<0.00172	<0.00172	<0.00172	---
		10/20/2015	MW12-11-20151020	11	<0.00182	<0.00182	<0.00182	<0.00182	<0.00182	<0.00182	**0.0174 J**	<0.00182	<0.00182	**0.0174 J**	---
		10/20/2015	MW12-16-20151020	16	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	---
MW12D	G-Logics	10/19/2015	MW12D-04-20151019	4	---	---	---	---	---	---	---	---	---	---	---
		10/19/2015	MW12D-08-20151019	8	<0.00165 JU	<0.00165 JU	<0.00165 JU	<0.00165 JU	<0.00165 JU	<0.00165 JU	<0.00165 JU	<0.00165 JU	<0.00165 JU	<0.00165 JU	---
		10/19/2015	MW12D-10-20151019	10	---	---	---	---	---	---	---	---	---	---	---
		10/19/2015	MW12D-11-20151019	11	---	---	---	---	---	---	---	---	---	---	---
		10/19/2015	MW12D-14-20151019	14	<0.00189 JU	<0.00189 JU	<0.00189 JU	<0.00189 JU	<0.00189 JU	<0.00189 JU	<0.00189 JU	<0.00189 JU	<0.00189 JU	<0.00189 JU	---
		10/19/2015	MW12D-16-20151019	16	<0.00178 JU	<0.00178 JU	<0.00178 JU	<0.00178 JU	<0.00178 JU	<0.00178 JU	<0.00178 JU	<0.00178 JU	<0.00178 JU	<0.00178 JU	---
		10/19/2015	MW12D-23-20151019	23	---	---	---	---	---	---	---	---	---	---	---
		10/19/2015	MW12D-31-20151019	31	---	---	---	---	---	---	---	---	---	---	---
MW13	G-Logics	10/21/2015	MW13-04-20151021	4	<0.00148	<0.00148	<0.00148	<0.00148	<0.00148	<0.00148	**0.00410 J**	<0.00148	<0.00148	**0.00410 J**	---
		10/21/2015	MW13-10-20151021	10	<0.00225	<0.00225	<0.00225	<0.00225	<0.00225	<0.00225	<0.00225	<0.00225	<0.00225	<0.00225	---
		10/21/2015	MW13-13-20151021	13	---	---	---	---	---	---	---	---	---	---	---
		10/21/2015	MW13-18-20151021	18	<0.00182	<0.00182	<0.00182	<0.00182	<0.00182	<0.00182	<0.00182	<0.00182	<0.00182	<0.00182	---
		10/21/2015	MW13-21-20151021	21	---	---	---	---	---	---	---	---	---	---	---

TABLE 1-3
Soil Sample Analyses, Polychlorinated Biphenyls (PCBs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Total PCB Aroclors (3)	Total PCB Congener (3)
MTCA Method B Non-Cancer Cleanup Level (1)					5.6	na	na	na	na	1.6	na	na	na	na	na
MTCA Method B Cancer Cleanup Level (1)					1.43	na	na	na	na	0.50	0.50	na	na	0.50	0.50
TEE Cleanup Level (2)					na	na	na	na	na	na	na	na	na	2.00	2.00
(units in mg/kg)															
MW14	G-Logics	10/21/2015	MW14-03-20151021	3	---	---	---	---	---	---	---	---	---	---	---
		10/21/2015	MW14-06-20151021	6	<0.00178	<0.00178	<0.00178	<0.00178	<0.00178	<0.00178	<0.00178	<0.00178	<0.00178	<0.00178	---
		10/21/2015	MW14-11-20151021	11	<0.00204	<0.00204	<0.00204	<0.00204	<0.00204	<0.00204	<0.00204	<0.00204	<0.00204	<0.00204	---
		10/21/2015	MW14-13-20151021	13	<0.00233 JU	<0.00233 JU	<0.00233 JU	<0.00233 JU	<0.00233 JU	<0.00233 JU	**0.0519 J**	<0.00233 JU	<0.00233 JU	**0.0519 J**	---
		10/21/2015	MW14-16-20151021	16	---	---	---	---	---	---	---	---	---	---	---
		10/21/2015	MW14-20-20151021	20	<0.00196	<0.00196	<0.00196	<0.00196	<0.00196	<0.00196	<0.00196	<0.00196	<0.00196	<0.00196	---
MW15	G-Logics	10/21/2015	MW15-06-20151021	6	<0.00164	<0.00164	<0.00164	<0.00164	<0.00164	<0.00164	**0.279**	<0.00164	<0.00164	**0.279**	---
		10/21/2015	MW15-11-20151021	11	<0.00215	<0.00215	<0.00215	<0.00215	<0.00215	<0.00215	**0.00270 J**	<0.00215	<0.00215	**0.00270 J**	---
		10/21/2015	MW15-15-20151021	15	<0.00203	<0.00203	<0.00203	<0.00203	<0.00203	<0.00203	<0.00203	<0.00203	<0.00203	<0.00203	---
		10/21/2015	MW15-20-20151021	20	---	---	---	---	---	---	---	---	---	---	---
MW16	G-Logics	10/19/2015	MW16-03-20151019	3	---	---	---	---	---	---	---	---	---	---	---
		10/19/2015	MW16-06-20151019	6	---	---	---	---	---	---	---	---	---	---	---
		10/19/2015	MW16-10-20151019	10	<0.00174 JU	<0.00174 JU	<0.00174 JU	<0.00174 JU	<0.00174 JU	<0.00174 JU	**0.0575 J**	<0.00174 JU	<0.00174 JU	**0.0575 J**	---
		10/19/2015	MW16-13-20151019	13	<0.00170 JU	<0.00170 JU	<0.00170 JU	<0.00170 JU	<0.00170 JU	<0.00170 JU	<0.00170 JU	<0.00170 JU	<0.00170 JU	<0.00170 JU	---
		10/19/2015	MW16-15-20151019	15	**0.0727 J**	<0.00189 JU	<0.00189 JU	<0.00189 JU	<0.00189 JU	<0.00189 JU	**0.0347 J**	<0.00189 JU	<0.00189 JU	**0.107**	---
		10/19/2015	MW16-18-20151019	18	<0.00184 JU	<0.00184 JU	<0.00184 JU	<0.00184 JU	<0.00184 JU	<0.00184 JU	<0.00184 JU	<0.00184 JU	<0.00184 JU	<0.00184 JU	---
		10/19/2015	MW16-20-20151019	20	---	---	---	---	---	---	---	---	---	---	---
GLB01	G-Logics	3/29/2016	GLB01-07-20160328	7	<0.007 JU	<0.007 JU	<0.007 JU	<0.007 JU	<0.0053 JU	<0.0053 JU	<0.0053 JU	<0.0053 JU	<0.0053 JU	<0.007 JU	---
		3/29/2016	GLB01-12-20160328	12	---	---	---	---	---	---	---	---	---	---	---
		3/29/2016	GLB01-14-20160328	14	<0.0081 JU	<0.0081 JU	<0.0081 JU	<0.0081 JU	<0.0062 JU	<0.0062 JU	**0.0144 J**	<0.0062 JU	<0.0062 JU	**0.0144 J**	---
		3/29/2016	GLB01-20-20160328	20	<0.0493 JU	<0.0493 JU	<0.0493 JU	<0.0493 JU	<0.0376 JU	<0.0376 JU	<0.0376 JU	<0.0376 JU	<0.0376 JU	<0.0493 JU	---
GLB02	G-Logics	3/28/2016	GLB02-03-20160328	3	<0.0067 JU	<0.0067 JU	<0.0067 JU	<0.0067 JU	<0.0051 JU	**0.0097 J**	<0.0051 JU	<0.0051 JU	<0.0051 JU	**0.0097 J**	---
		3/28/2016	GLB02-08-20160328	8	**0.0251 J**	<0.0017 JU	<0.0017 JU	<0.0017 JU	<0.0013 JU	**0.104 J**	**0.0584 J**	<0.0013 JU	<0.0013 JU	**0.188 J**	---
		3/28/2016	GLB02-14-20160328	14	---	---	---	---	---	---	---	---	---	---	---
		3/28/2016	GLB02-17-20160328	17	**0.128 J**	<0.0087 JU	<0.0087 JU	<0.0087 JU	<0.0067JU	**0.204 J**	<0.0067JU	<0.0067JU	<0.0067JU	**0.332 J**	---
		3/28/2016	GLB02-20-20160328	20	**0.313 J**	<0.0077 JU	<0.0077 JU	<0.0077 JU	<0.0059 JU	**0.140 J**	<0.0059 JU	<0.0059 JU	<0.0059 JU	**0.454 J**	---

TABLE 1-3
Soil Sample Analyses, Polychlorinated Biphenyls (PCBs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Total PCB Aroclors (3)	Total PCB Congener (3)
MTCA Method B Non-Cancer Cleanup Level (1)					5.6	na	na	na	na	1.6	na	na	na	na	na
MTCA Method B Cancer Cleanup Level (1)					1.43	na	na	na	na	0.50	0.50	na	na	0.50	0.50
TEE Cleanup Level (2)					na	na	na	na	na	na	na	na	na	2.00	2.00
(units in mg/kg)															
GLB03	G-Logics	3/28/2016	GLB03-04-20160328	4	---	---	---	---	---	---	---	---	---	---	---
		3/28/2016	GLB03-08-20160328	8	**0.0778 J**	<0.0068 JU	<0.0068 JU	<0.0068 JU	<0.0052 JU	<0.0052 JU	<0.0052 JU	<0.0052 JU	<0.0052 JU	**0.0778 J**	---
		3/28/2016	GLB03-17-20160328	17	<0.0094 JU	<0.0094 JU	<0.0094 JU	<0.0094 JU	<0.0072 JU	<0.0072 JU	<0.0072 JU	<0.0072 JU	<0.0072 JU	<0.0094 JU	---
		3/28/2016	GLB03-20-20160328	20	<0.0078 JU	<0.0078 JU	<0.0078 JU	<0.0078 JU	<0.006 JU	<0.006 JU	<0.006 JU	<0.006 JU	<0.006 JU	<0.0078 JU	---
GLB04	G-Logics	3/28/2016	GLB04-04-20160328	4	<0.0076 JU	<0.0076 JU	<0.0076 JU	<0.0076 JU	<0.0058 JU	<0.0058 JU	<0.0058 JU	<0.0058 JU	<0.0058 JU	<0.0076 JU	---
		3/28/2016	GLB04-07-20160328	7	**0.295 J**	<0.0069 JU	<0.0069 JU	<0.0069 JU	<0.0052 JU	**0.474 JD**	<0.0052 JU	<0.0052 JU	<0.0052 JU	**0.769 J**	---
		3/28/2016	GLB04-12-20160328	12	<0.0083 JU	<0.0083 JU	<0.0083 JU	<0.0083 JU	<0.0063 JU	**0.0266 J**	<0.0063 JU	<0.0063 JU	<0.0063 JU	**0.0266 J**	---
		3/28/2016	GLB04-16-20160328	16	<0.0083 JU	<0.0083 JU	<0.0083 JU	<0.0083 JU	<0.0064 JU	<0.0064 JU	<0.0064 JU	<0.0064 JU	<0.0064 JU	<0.0083 JU	---
		3/28/2016	GLB04-20-20160328	20	---	---	---	---	---	---	---	---	---	---	---
GLB05	G-Logics	3/28/2016	GLB05-04-20160328	4	**0.401 J**	<0.0071 JU	<0.0071 JU	<0.0071 JU	<0.0054 JU	**0.229 J**	<0.0054 JU	<0.0054 JU	<0.0054 JU	**0.630 J**	---
		3/28/2016	GLB05-08-20160328	8	---	---	---	---	---	---	---	---	---	---	---
		3/28/2016	GLB05-12-20160328	12	<0.0086 JU	<0.0086 JU	<0.0086 JU	<0.0086 JU	<0.0065 JU	<0.0065 JU	<0.0065 JU	<0.0065 JU	<0.0065 JU	<0.0086 JU	---
		3/28/2016	GLB05-16-20160328	16	---	---	---	---	---	---	---	---	---	---	---
		3/28/2016	GLB05-20-20160328	20	<0.0087 JU	<0.0087 JU	<0.0087 JU	<0.0087 JU	<0.0066 JU	<0.0066 JU	<0.0066 JU	<0.0066 JU	<0.0066 JU	<0.0087 JU	---
GLB06	G-Logics	3/29/2016	GLB06-04-20160328	4	<0.0079 JU	<0.0079 JU	<0.0079 JU	<0.0079 JU	<0.0060 JU	<0.0060 JU	**0.584 JD**	<0.0060 JU	<0.0060 JU	**0.584 JD**	---
		3/29/2016	GLB06-07-20160328	7	---	---	---	---	---	---	---	---	---	---	---
		3/29/2016	GLB06-09-20160328	9	<0.0074 JU	<0.0074 JU	<0.0074 JU	<0.0074 JU	<0.0056 JU	<0.0056 JU	<0.0056 JU	<0.0056 JU	<0.0056 JU	<0.0074 JU	---
		3/29/2016	GLB06-14-20160328	14	<0.0092 JU	<0.0092 JU	<0.0092 JU	<0.0092 JU	<0.0070 JU	<0.0070 JU	<0.0070 JU	<0.0070 JU	<0.0070 JU	<0.0092 JU	---
		3/29/2016	GLB06-20-20160328	20	---	---	---	---	---	---	---	---	---	---	---
GLB07	G-Logics	3/28/2016	GLB07-04-20160328	4	---	---	---	---	---	---	---	---	---	---	---
		3/28/2016	GLB07-08-20160328	8	**0.0445 J**	<0.0076 JU	<0.0076 JU	<0.0076 JU	<0.0058 JU	<0.0058 JU	<0.0058 JU	<0.0058 JU	<0.0058 JU	**0.0445 J**	---
		3/28/2016	GLB07-15-20160328	15	<0.0087 JU	<0.0087 JU	<0.0087 JU	<0.0087 JU	<0.0066 JU	<0.0066 JU	<0.0066 JU	<0.0066 JU	<0.0066 JU	<0.0087 JU	---
		3/28/2016	GLB07-19-20160328	19	<0.0090 JU	<0.0090 JU	<0.0090 JU	<0.0090 JU	<0.0069 JU	<0.0069 JU	<0.0069 JU	<0.0069 JU	<0.0069 JU	<0.0090 JU	---
GLB08	G-Logics	3/28/2016	GLB08-08-20160328	8	<0.0080 JU	<0.0080 JU	<0.0080 JU	<0.0080 JU	<0.0061 JU	<0.0061 JU	<0.0061 JU	<0.0061 JU	<0.0061 JU	<0.0080 JU	---
		3/28/2016	GLB08-12-20160328	12	<0.0090 JU	<0.0090 JU	<0.0090 JU	<0.0090 JU	<0.0068 JU	<0.0068 JU	<0.0068 JU	<0.0068 JU	<0.0068 JU	<0.0090 JU	---
		3/28/2016	GLB08-16-20160328	16	---	---	---	---	---	---	---	---	---	---	---
		3/28/2016	GLB08-20-20160328	20	<0.0085 JU	<0.0085 JU	<0.0085 JU	<0.0085 JU	<0.0065 JU	<0.0065 JU	<0.0065 JU	<0.0065 JU	<0.0065 JU	<0.0085 JU	---

TABLE 1-3
Soil Sample Analyses, Polychlorinated Biphenyls (PCBs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Total PCB Aroclors (3)	Total PCB Congener (3)
MTCA Method B Non-Cancer Cleanup Level (1)					5.6	na	na	na	na	1.6	na	na	na	na	na
MTCA Method B Cancer Cleanup Level (1)					1.43	na	na	na	na	0.50	0.50	na	na	0.50	0.50
TEE Cleanup Level (2)					na	na	na	na	na	na	na	na	na	2.00	2.00
(units in mg/kg)															
GLB09	G-Logics	3/29/2016	GLB09-03-20160328	3	<0.0073 JU	<0.0073 JU	<0.0073 JU	<0.0073 JU	<0.0056 JU	<0.0056 JU	<0.0056 JU	<0.0056 JU	<0.0056 JU	<0.0073 JU	---
		3/29/2016	GLB09-08-20160328	8	---	---	---	---	---	---	---	---	---	---	---
		3/29/2016	GLB09-14-20160328	14	<0.0088 JU	<0.0088 JU	<0.0088 JU	<0.0088 JU	<0.0067 JU	<0.0067 JU	<0.0067 JU	<0.0067 JU	<0.0067 JU	<0.0088 JU	---
		3/29/2016	GLB09-20-20160328	20	<0.0081 JU	<0.0081 JU	<0.0081 JU	<0.0081 JU	<0.0062 JU	<0.0062 JU	<0.0062 JU	<0.0062 JU	<0.0062 JU	<0.0081 JU	---
GLB10	G-Logics	3/29/2016	GLB10-04-20160328	4	**0.0132 J**	<0.0073 JU	<0.0073 JU	<0.0073 JU	<0.0056 JU	<0.0056 JU	**0.0167 J**	<0.0056 JU	<0.0056 JU	**0.0320 J**	---
		3/29/2016	GLB10-08-20160328	8	**0.0102 J**	<0.0072 JU	<0.0072 JU	<0.0072 JU	<0.0055 JU	<0.0055 JU	**0.0306 J**	<0.0055 JU	<0.0055 JU	**0.0408 J**	---
GLB11	G-Logics	3/28/2016	GLB11-06-20160328	6	<0.0081 JU	<0.0081 JU	<0.0081 JU	<0.0081 JU	<0.0062 JU	**0.0499 J**	<0.0062 JU	<0.0062 JU	<0.0062 JU	**0.0499 J**	---
		3/28/2016	GLB11-12-20160328	12	---	---	---	---	---	---	---	---	---	---	---
		3/28/2016	GLB11-15-20160328	15	<0.0087 JU	<0.0087 JU	<0.0087 JU	<0.0087 JU	<0.0067JU	<0.0067JU	<0.0067JU	<0.0067JU	<0.0067JU	<0.0087 JU	---
		3/28/2016	GLB11-20-20160328	20	<0.0086 JU	<0.0086 JU	<0.0086 JU	<0.0086 JU	<0.0065 JU	<0.0065 JU	<0.0065 JU	<0.0065 JU	<0.0065 JU	<0.0086 JU	---
GLB12	G-Logics	3/29/2016	GLB12-04-20160328	4	<0.0070 JU	<0.0070 JU	<0.0070 JU	<0.0070 JU	<0.0053 JU	<0.0053 JU	<0.0053 JU	<0.0053 JU	<0.0053 JU	<0.0070 JU	---
		3/29/2016	GLB12-06-20160328	6	---	---	---	---	---	---	---	---	---	---	---
		3/29/2016	GLB12-10-20160328	10	---	---	---	---	---	---	---	---	---	---	---
		3/29/2016	GLB12-14-20160328	14	<0.0091 JU	<0.0091 JU	<0.0091 JU	<0.0091 JU	<0.0069 JU	<0.0069 JU	**0.0144 J**	<0.0069 JU	<0.0069 JU	**0.0144 J**	---
		3/29/2016	GLB12-20-20160328	20	<0.0076 JU	<0.0076 JU	<0.0076 JU	<0.0076 JU	<0.0058 JU	<0.0058 JU	<0.0058 JU	<0.0058 JU	<0.0058 JU	<0.0076 JU	---
GLB13	G-Logics	3/28/2016	GLB13-01-20160328	1	<0.0088 JU	<0.0088 JU	<0.0088 JU	<0.0088 JU	<0.0067 JU	<0.0067 JU	<0.0067 JU	<0.0067 JU	<0.0067 JU	<0.0088 JU	---
		3/28/2016	GLB13-04-20160328	4	<0.0071 JU	<0.0071 JU	<0.0071 JU	<0.0071 JU	<0.0054 JU	<0.0054 JU	<0.0054 JU	<0.0054 JU	<0.0054 JU	<0.0071 JU	---
		3/28/2016	GLB13-12-20160328	12	<0.0085 JU	<0.0085 JU	<0.0085 JU	<0.0085 JU	<0.0065 JU	<0.0065 JU	<0.0065 JU	<0.0065 JU	<0.0065 JU	<0.0085 JU	---

TABLE 1-3
Soil Sample Analyses, Polychlorinated Biphenyls (PCBs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Total PCB Aroclors (3)	Total PCB Congener (3)
MTCA Method B Non-Cancer Cleanup Level (1)					5.6	na	na	na	na	1.6	na	na	na	na	na
MTCA Method B Cancer Cleanup Level (1)					1.43	na	na	na	na	0.50	0.50	na	na	0.50	0.50
TEE Cleanup Level (2)					na	na	na	na	na	na	na	na	na	2.00	2.00
(units in mg/kg)															
GLB14	G-Logics	3/29/2016	GLB14-02-20160328	2	<0.0078 JU	<0.0078 JU	<0.0078 JU	<0.0078 JU	<0.0060 JU	<0.0060 JU	<0.0060 JU	<0.0060 JU	<0.0060 JU	<0.0087 JU	---
		3/29/2016	GLB14-06-20160328	6	<0.0084 JU	<0.0084 JU	<0.0084 JU	<0.0084 JU	<0.0064 JU	<0.0064 JU	<0.0064 JU	<0.0064 JU	<0.0064 JU	<0.0094 JU	---
		3/29/2016	GLB14-12-20160328	12	<0.0077 JU	<0.0077 JU	<0.0077 JU	<0.0077 JU	<0.0059 JU	**0.0062 J**	<0.0059 JU	<0.0059 JU	<0.0059 JU	**0.0062 J**	---
		3/29/2016	GLB14-15-20160328	15	<0.0015 JU	<0.0015 JU	<0.0015 JU	<0.0015 JU	<0.0012 JU	<0.0012 JU	<0.0012 JU	<0.0012 JU	<0.0012 JU	<0.0015 JU	---
		3/29/2016	GLB14-20-20160328	20	---	---	---	---	---	---	---	---	---	---	---

Notes: Refer to site diagram(s) for sampling locations.
See Table 1-1 for Details Regarding ARARs used for Soil Screening Criteria.

(1) Direct Contact, Method B Non-Cancer and Cancer Cleanup Levels, Based on Ecology "Cleanup Levels and Risk Calculation (CLARC)" Website, Accessed July 2017
(2) Terrestrial Ecological Evaluation, Industrial or Commercial Cleanup Levels Based on MTCA Table 749-2
(3) Total PCBs Calculated by Summing the Detected PCBs
na Cleanup Level Not Available
dup Blind Field Duplicate
--- Not Analyzed/No Data
nd Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified
<50.0 Not Detected at Specified Laboratory Reporting Limit
<49.9 Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level
250 Bold Number(s) Indicates Contaminant Detected.
1,440 Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level
1.70 Bold Number(s) and Purple Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level, but is Not a Final COPC
D Dilution Required
J Estimated Concentration, Analyte Detected Below Reporting Limit

TABLE 1-4
Soil Sample Analyses, Semivolatile Organic Compounds (SVOCs) and Polycyclic Aromatic Hydrocarbons (PAHs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Di-n-Butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Pentachlorophenol	Phenanthrene	Pyrene	Hexachlorobenzene	Other SVOCs (3)
MTCA Method B Non-Cancer Cleanup Level (1)					5,600	320	4,800	24,000	24,000	na	1,600	16,000	na	80	8,000	3,200	3,200	1,600	400	na	2,400	64	various
MTCA Method B Cancer Cleanup Level (1)					34.5	na	na	na	na	na	71.4	526	na	na	na	na	na	na	2.5	na	na	0.6	various
TEE Cleanup Level (2)					na	na	na	na	na	na	na	na	na	na	na	na	na	na	11	na	na	31	various
(units in mg/kg)																							
TP-1-R	Riley Group	7/17/2000	TP-1-R-1.5'	1.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TP-2-R		7/17/2000	TP-2-R-4.5'	4.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TP-2-R		7/17/2000	TP-2-R-5.5'	5.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TP-3-R		7/17/2000	TP-3-R-5.5'	5.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TP-4-R		7/17/2000	TP-4-R-2'	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B1-R	Riley Group	8/3/2000	B-1-R-6	14-14.5	---	**0.210**	**3.00**	**0.062**	**2.40**	**0.320**	---	---	---	---	---	**12.0**	**4.30**	**0.800**	<2.8	**14.0**	**8.20**	---	---
B2-R		8/3/2000	B-2-R-1	2.5-4.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B3-R		8/3/2000	B-3-R-3	12.5-14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B4-R		8/3/2000	B-4-R-3	10-11.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B1	Farallon	3/13/2002	B1-0-3	0-3	**0.330**	**0.480**	**0.680**	<0.09	**0.420**	**0.230**	---	---	---	---	---	**1.30**	**0.630**	**3.40**	<1.8	**1.60**	**1.00**	---	---
B2		3/13/2002	B2-0-3	0-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B3		3/13/2002	B3-0-3	0-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B4 (TP-B4)		3/13/2002	B4-0-3	0-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B4		3/13/2002	B4-3-6	3-6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B5 (TP-B5)		3/13/2002	B5-3-4	3-4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B5		3/13/2002	B5-6-9	6-9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B6		3/13/2002	B6-0-3	0-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B7 (TP-B7)		3/13/2002	B7-2-4	2-4	**0.7200**	**1.30**	**0.140**	<0.04	**0.0980**	**0.100**	---	---	---	---	---	**0.300**	**0.170**	**0.490**	<0.37	**0.350**	**0.330**	---	---
B7		3/13/2002	B7-6-7.5	6-7.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B8		3/13/2002	B8-2-3	2-3	<0.04	**0.0610**	**0.0610**	<0.04	**0.130**	**0.280**	---	---	---	---	---	**0.380**	**0.630**	**0.110**	<3.7	**0.350**	**0.410**	---	---
B9		3/13/2002	B9-1.5-2	1.5-2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B10		3/13/2002	B10-1-3	1-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B11		3/14/2002	B11-0-3	0-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B12 (TP-B12)		3/14/2002	B12-0-1	0-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B13		3/13/2002	B13-0-3	0-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B14		3/13/2002	B14-2-3	2-3	<0.01	<0.01	<0.01	<0.01	**0.0100**	**0.0130**	---	---	---	---	---	**0.0280**	<0.01	<0.01	<0.36	**0.0140**	**0.0240**	---	---
B15		3/14/2002	B15-0-3	0-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B16		3/14/2002	B16-0-1.5	0-1.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B17		3/14/2002	B17-0-3	0-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B18		3/14/2002	B18-0-3	0-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B19		3/13/2002	B19-1.5-3	1.5-3	**0.7800**	**0.140**	**0.0130**	<0.0086	**0.0140**	**0.0280**	---	---	---	---	---	**0.0820**	**0.0210**	**0.06**	<1.7	**0.0870**	**0.130**	---	---
MW1	Farallon	3/18/2002	MW1-3-4.5	3-4.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/18/2002	MW1-5-6.5	5-6.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/18/2002	MW1-7.5-9	7.5-9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW2		3/18/2002	MW2-2-4	2-4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW3		3/18/2002	MW3-2.5-4	2.5-4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

TABLE 1-4
Soil Sample Analyses, Semivolatile Organic Compounds (SVOCs) and Polycyclic Aromatic Hydrocarbons (PAHs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Di-n-Butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Pentachlorophenol	Phenanthrene	Pyrene	Hexachlorobenzene	Other SVOCs (3)
MTCA Method B Non-Cancer Cleanup Level (1)					5,600	320	4,800	24,000	24,000	na	1,600	16,000	na	80	8,000	3,200	3,200	1,600	400	na	2,400	64	various
MTCA Method B Cancer Cleanup Level (1)					34.5	na	na	na	na	na	71.4	526	na	na	na	na	na	na	2.5	na	na	0.6	various
TEE Cleanup Level (2)					na	na	na	na	na	na	na	na	na	na	na	na	na	na	11	na	na	31	various
(units in mg/kg)																							
SB-1N	Farallon	1/8/2004	SB-1N	5-8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SB-3N		1/8/2004	SB-3N	8-12	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	---	---	---	---	---	<0.10	<0.10	<0.10	<4.8	<0.10	<0.10	---	---
SB-3S		1/9/2008	SB-3S	6-8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SB-4S		1/9/2008	SB-4S	6-8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-1D	Pacific Crest	6/2/2008	MW1D-5-6.0	5-6	**0.0160**	**0.0360**	**0.0100**	**0.0094**	**0.0270**	**0.120**	**0.0990**	<0.037	<0.037	<0.037	**0.0430**	**0.170**	**0.0160**	**0.0380**	<0.17	**0.110**	**0.150**	---	---
MW-2D		6/2/2008	MW2D-6-6.5	6-6.5	**0.0710**	**0.0250**	**0.0700**	**0.0083**	**0.130**	**0.420**	**0.0720**	**0.0990**	**0.0890**	**0.0420**	**0.0610**	**1.10**	**0.0710**	**0.0790**	<0.2	**0.560**	**0.950**	---	---
MW-3D		5/30/2008	MW3D-8	8	**0.0089**	**0.0091**	**0.0120**	<0.0080	<0.0080	<0.0080	<0.040	<0.040	<0.040	<0.040	<0.040	<0.0080	<0.0080	**0.0260**	---	<0.0080	<0.0080	---	---
MW-4D		5/30/2008	MW4D-6.5	6.5	<0.0069	<0.0069	<0.0069	<0.0069	<0.0069	<0.0069	<0.035	<0.035	<0.035	<0.035	<0.035	<0.0069	<0.0069	<0.0069	---	<0.0069	<0.0069	---	---
MW05	G-Logics	10/19/2015	MW05-03-20151019	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/19/2015	MW05-06-20151019	6	**0.795**	**1.76**	**0.384**	<0.0533	**0.23**	**0.266**	**33.2 D**	**41.4 D**	<0.533	**0.120**	**0.939**	**0.958**	**0.340**	**1.44**	<0.0213	**1.01**	**1.15**	<0.107	nd
		10/19/2015	MW05-10-20151019	10	<0.512 D	<0.512 D	<0.512 D	<0.512 D	<0.512 D	<0.512 D	**1.04 D**	<0.512 D	<5.12 D	<1.02 D	<0.512 D	<0.512 D	<0.512 D	<0.512 D	<0.205 D	<0.512 D	<0.512 D	<1.02 D	nd
		10/19/2015	MW05-13-20151019	13	<0.0626	<0.0626	<0.0626	<0.0626	<0.0626	<0.0626	<0.0626	<0.0626	<0.626	<0.125	<0.0626	<0.0626	<0.0626	<0.0626	<0.0250	<0.0626	<0.0626	<0.125	nd
		10/19/2015	MW05-20-20151019	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW06	G-Logics	10/21/2015	MW06-03-20151021	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/21/2015	MW06-06-20151021	6	<0.947 D	<0.947 D	<0.947 D	**0.0281 JD**	<0.947 D	**0.170 JD**	**0.259 JD**	<0.947 D	<0.473	<0.0947	<0.947 D	<0.947 D	<0.947 D	<0.947 D	**235 D**	<0.947 D	**1.05 D**	<0.0947	nd
		10/21/2015	MW06-11-20151021	11	<0.0660	<0.0660	<0.0660	<0.0660	<0.0660	<0.0660	<0.0660	<0.0660	<0.660	<0.132	<0.0660	<0.0660	<0.0660	<0.0660	**0.111**	<0.0660	<0.0660	<0.0660	nd
		10/21/2015	MW06-14-20151021	14	<0.0584	<0.0584	<0.0584	<0.0584	<0.0584	<0.0584	<0.0584	<0.0584	<0.584	<0.117	<0.0584	<0.0584	<0.0584	<0.0584	**0.308**	<0.0584	<0.0584	<0.117	nd
		10/21/2015	MW06-20-20151021	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW07	G-Logics	10/20/2015	MW07-04-20151020	4	<0.0550	<0.0550	<0.0550	<0.0550	<0.0550	**0.147**	<0.0550	<0.0550	<0.550	<0.110	<0.0550	**0.413**	<0.0550	<0.0550	**0.0335**	**0.3790**	**0.480**	<0.110	nd
		10/20/2015	MW07-08-20151020	8	<0.0568	<0.0568	<0.0568	<0.0568	<0.0568	<0.0568	<0.0568	<0.0568	<0.568	<0.114	<0.0568	<0.0568	<0.0568	<0.0568	<0.0227	<0.0568	<0.0568	<0.114	nd
		10/20/2015	MW07-13-20151020	13	<0.0641	<0.0641	<0.0641	<0.0641	<0.0641	<0.0641	<0.0641	<0.0641	<0.641	<0.128	<0.0641	<0.0641	<0.0641	<0.0641	<0.0257	<0.0641	<0.0641	<0.128	nd
		10/20/2015	MW07-18-20151020	18	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW08	G-Logics	10/20/2015	MW08-06-20151020	6	<0.0521	<0.0521	<0.0521	<0.0521	<0.0521	<0.0521	<0.0521	<0.0521	<0.521	<0.104	<0.0521	**0.196**	<0.0521	<0.0521	<0.0215	**0.105**	**0.274**	<0.104	nd
		10/20/2015	MW08-08-20151020	8	<0.0556	<0.0556	<0.0556	<0.0556	**0.09**	<0.0556	<0.0556	<0.0556	<0.556	<0.111	<0.0556	**1.48**	<0.0556	<0.0556	<0.0222	**1.03**	**1.98**	**0.227**	nd
		10/20/2015	MW08-11-20151020	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/20/2015	MW08-15-20151020	15	<0.0578	<0.0578	<0.0578	<0.0578	<0.0578	<0.0578	<0.0578	<0.0578	<0.578	<0.116	<0.0578	<0.0578	<0.0578	<0.0578	<0.0231	<0.0578	<0.0578	<0.116	nd
		10/20/2015	MW08-21-20151020	21	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW09	G-Logics	10/22/2015	MW09-05-20151022	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/22/2015	MW09-08-20151022	8	<0.0665	<0.0665	<0.0665	<0.0665	<0.0665	<0.0665	<0.0665	<0.0665	<0.665	<0.133	<0.0665	<0.0665	<0.0665	<0.0665	<0.0266	<0.0665	<0.0665	<0.133	nd
		10/22/2015	MW09-13-20151022	13	<0.0592	<0.0592	<0.0592	<0.0592	<0.0592	<0.0592	<0.0592	<0.0592	<0.592	<0.118	<0.0592	<0.0592	<0.0592	<0.0592	<0.0237	<0.0592	<0.0592	<0.118	nd
		10/22/2015	MW09-16-20151022	16	<0.0639	<0.0639	<0.0639	<0.0639	<0.0639	<0.0639	<0.0639	<0.0639	<0.639	<0.128	<0.0639	<0.0639	<0.0639	<0.0639	<0.0256	<0.0639	<0.0639	<0.128	nd
		10/22/2015	MW09-20-20151022	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

TABLE 1-4
Soil Sample Analyses, Semivolatile Organic Compounds (SVOCs) and Polycyclic Aromatic Hydrocarbons (PAHs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Di-n-Butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Pentachlorophenol	Phenanthrene	Pyrene	Hexachlorobenzene	Other SVOCs (3)
MTCA Method B Non-Cancer Cleanup Level (1)					5,600	320	4,800	24,000	24,000	na	1,600	16,000	na	80	8,000	3,200	3,200	1,600	400	na	2,400	64	various
MTCA Method B Cancer Cleanup Level (1)					34.5	na	na	na	na	na	71.4	526	na	na	na	na	na	na	2.5	na	na	0.6	various
TEE Cleanup Level (2)					na	na	na	na	na	na	na	na	na	na	na	na	na	na	11	na	na	31	various
(units in mg/kg)																							
MW09D	G-Logics	10/22/2015	MW09D-05-20151022	5	<0.0488	<0.0488	<0.0488	<0.0488	<0.0488	<0.0488	<0.0488	<0.0488	<0.488	<0.0975	<0.0488	<0.0488	<0.0488	<0.0488	<0.0195	**0.0504**	<0.0488	<0.0975	nd
		10/22/2015	MW09D-10-20151022	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/22/2015	MW09D-14-20151022	14	<0.0605	<0.0605	<0.0605	<0.0605	<0.0605	<0.0605	<0.0605	<0.0605	<0.605	<0.121	<0.0605	<0.0605	<0.0605	<0.0605	<0.0242	<0.0605	<0.0605	<0.121	nd
		10/22/2015	MW09D-18-20151022	18	<0.0626	<0.0626	**0.268**	<0.0626	<0.0626	<0.0626	<0.0626	<0.0626	<0.626	<0.125	<0.0626	<0.0626	<0.0626	<0.0626	<0.0251	<0.0626	<0.0626	<0.125	nd
		10/22/2015	MW09D-23-20151022	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/22/2015	MW09D-26-20151022	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/22/2015	MW09D-31-20151022	31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW10	G-Logics	10/22/2015	MW10-06-20151022	6	<0.0440	<0.0440	<0.0440	<0.0440	<0.0440	<0.0440	<0.0440	<0.0440	<0.440	<0.0880	<0.0440	<0.0440	<0.0440	<0.0440	<0.0176	<0.0440	<0.0440	<0.0880	nd
		10/22/2015	MW10-10-20151022	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/22/2015	MW10-16-20151022	16	<0.0674	<0.0674	<0.0674	<0.0674	<0.0674	<0.0674	<0.0674	<0.0674	<0.674	<0.135	<0.0674	<0.0674	<0.0674	<0.0674	<0.0270	<0.0674	<0.0674	<0.135	nd
		10/22/2015	MW10-18-20151022	18	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.714	<0.143	<0.0714	<0.0714	<0.0714	<0.0714	<0.0285	<0.0714	<0.0714	<0.143	nd
MW10D	G-Logics	10/22/2015	MW10D-04-20151022	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/22/2015	MW10D-06-20151022	6	<0.0489	<0.0489	<0.0489	<0.0489	<0.0489	<0.0489	<0.0489	<0.0489	<0.489	<0.0978	<0.0489	<0.0489	<0.0489	<0.0489	<0.0196	<0.0489	<0.0489	<0.0978	nd
		10/22/2015	MW10D-13-20151022	13	<0.0660	<0.0660	<0.0660	<0.0660	<0.0660	<0.0660	<0.0660	<0.0660	<0.660	<0.132	<0.0660	<0.0660	<0.0660	<0.0660	<0.0264	<0.0660	<0.0660	<0.132	nd
		10/22/2015	MW10D-18-20151022	18	<0.0604	<0.0604	<0.0604	<0.0604	<0.0604	<0.0604	<0.0604	<0.0604	<0.604	<0.121	<0.0604	<0.0604	<0.0604	<0.0604	<0.0241	<0.0604	<0.0604	<0.121	nd
		10/22/2015	MW10D-24-20151022	24	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/22/2015	MW10D-28-20151022	28	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/22/2015	MW10D-31-20151022	31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW11	G-Logics	10/20/2015	MW11-06-20151020	6	<0.0599	<0.0599	<0.0599	<0.0599	<0.0599	<0.0599	<0.0599	<0.0599	<0.599	<0.120	<0.0599	<0.0599	<0.0599	<0.0599	<0.0240	<0.0599	<0.0599	<0.120	nd
		10/20/2015	MW11-11-20151020	11	<0.0639 JU	<0.0639 JU	<0.0639 JU	<0.0639	<0.0639 JU	<0.0639 JU	<0.0639	<0.0639	<0.639	<0.128	<0.0639	**0.0704 J**	<0.0639 JU	<0.0639 JU	**0.0262**	<0.0639 JU	**0.0846 J**	<0.128	nd
		10/20/2015	MW11-16-20151020	16	<0.0688	<0.0688	<0.0688	<0.0688	<0.0688	<0.0688	<0.0688	<0.0688	<0.688	<0.138	<0.0688	<0.0688	<0.0688	<0.0688	<0.0275	<0.0688	<0.0688	<0.138	nd
		10/20/2015	MW11-20-20151020	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW12	G-Logics	10/20/2015	MW12-04-20151020	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/20/2015	MW12-06-20151020	6	**0.918**	**1.47**	**2.13**	**0.104**	**1.12**	**0.511**	**1.80**	**0.165**	**0.670**	**1.15**	**0.0692**	**3.62**	**1.79**	**3.89**	**0.0366**	**4.57**	**2.82**	<0.105	nd
		10/20/2015	MW12-11-20151020	11	**0.460 JD**	**0.606 JD**	**0.861 JD**	<2.91 D	**0.154 JD**	<2.910 D	**0.873 JD**	<2.910 D	<29.1 D	<5.820 D	**0.363 JD**	**0.483 JD**	**0.442 JD**	**1.404 JD**	<1.160 D	**0.844 JD**	**0.410 JD**	<5.820 D	nd
		10/20/2015	MW12-16-20151020	16	<0.0613	<0.0613	<0.0613	<0.0613	<0.0613	<0.0613	<0.0613	<0.0613	<0.613	<0.123	<0.0613	<0.0613	<0.0613	<0.0613	<0.0245	<0.0613	<0.0613	<0.123	nd
MW12D	G-Logics	10/19/2015	MW12D-04-20151019	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/19/2015	MW12D-08-20151019	8	<0.0505	<0.0505	<0.0505	<0.0505	<0.0505	<0.0505	<0.0505	<0.0505	<0.505	<0.101	<0.0505	<0.0505	<0.0505	<0.0505	<0.0202	<0.0505	<0.0505	<0.101	nd
		10/19/2015	MW12D-10-20151019	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/19/2015	MW12D-11-20151019	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/19/2015	MW12D-14-20151019	14	<0.0664	<0.0664	<0.0664	<0.0664	<0.0664	<0.0664	<0.0664	<0.0664	<0.664	<0.133	<0.0664	<0.0664	<0.0664	<0.0664	<0.0266	<0.0664	<0.0664	<0.133	nd
		10/19/2015	MW12D-16-20151019	16	<0.0625	<0.0625	<0.0625	<0.0625	**0.0748**	<0.0625	<0.0625	<0.0625	<0.625	<0.125	<0.0625	<0.0625	<0.0625	<0.0625	<0.0250	**0.0715**	<0.0625	<0.125	nd
		10/19/2015	MW12D-23-20151019	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/19/2015	MW12D-31-20151019	31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

TABLE 1-4
Soil Sample Analyses, Semivolatile Organic Compounds (SVOCs) and Polycyclic Aromatic Hydrocarbons (PAHs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Di-n-Butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Pentachlorophenol	Phenanthrene	Pyrene	Hexachlorobenzene	Other SVOCs (3)
MTCA Method B Non-Cancer Cleanup Level (1)					5,600	320	4,800	24,000	24,000	na	1,600	16,000	na	80	8,000	3,200	3,200	1,600	400	na	2,400	64	various
MTCA Method B Cancer Cleanup Level (1)					34.5	na	na	na	na	na	71.4	526	na	na	na	na	na	na	2.5	na	na	0.6	various
TEE Cleanup Level (2)					na	na	na	na	na	na	na	na	na	na	na	na	na	na	11	na	na	31	various
(units in mg/kg)																							
MW13	G-Logics	10/21/2015	MW13-04-20151021	4	<0.0478	<0.0478	<0.0478	<0.0478	<0.0478	<0.0478	<0.0478	<0.0478	<0.478	<0.0957	<0.0478	<0.0478	<0.0478	<0.0478	<0.0191	<0.0478	<0.0478	<0.0957	nd
		10/21/2015	MW13-10-20151021	10	<0.0720	<0.0720	<0.0720	<0.0720	<0.0720	<0.0720	<0.0720	<0.0720	<0.720	<0.144	<0.0720	<0.0720	<0.0720	<0.0720	<0.0288	<0.0720	<0.0720	<0.144	nd
		10/21/2015	MW13-13-20151021	13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/21/2015	MW13-18-20151021	18	<0.0591	<0.0591	<0.0591	<0.0591	<0.0591	<0.0591	**0.125**	<0.0591	<0.591	<0.118	<0.0591	<0.0591	<0.0591	<0.0591	<0.0236	<0.0591	<0.0591	<0.118	nd
		10/21/2015	MW13-21-20151021	21	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW14	G-Logics	10/21/2015	MW14-03-20151021	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/21/2015	MW14-06-20151021	6	**0.227**	**0.351**	<0.0543	<0.0543	<0.0543	<0.0543	<0.0543	<0.0543	<0.543	<0.109	<0.0543	<0.0543	<0.0543	**0.105**	<0.0217	**0.108**	**0.0730**	<0.109	nd
		10/21/2015	MW14-11-20151021	11	**0.0722**	**0.0948**	<0.0666	<0.0666	<0.0666	<0.0666	<0.0666	<0.0666	<0.666	<0.133	<0.0666	**0.232**	<0.0666	<0.0666	<0.0266	**0.159**	**0.232**	<0.133	nd
		10/21/2015	MW14-13-20151021	13	**0.193 JD**	**0.176 JD**	**0.051 JD**	<1.570 JD	**0.465 JD**	**0.388 JD**	**0.237 JD**	**0.326 JD**	<0.787	<0.157	**0.200 JD**	**0.192 JD**	**0.0784 JD**	**0.133 JD**	**0.866 D**	**0.462 JD**	**0.208 JD**	<0.157	nd
		10/21/2015	MW14-16-20151021	16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/21/2015	MW14-20-20151021	20	**0.178**	**0.112**	<0.0605	<0.0605	<0.0605	<0.0605	<0.0605	<0.0605	<0.605	<0.121	<0.0605	**0.104**	<0.0605	<0.0605	<0.0242	**0.149**	**0.131**	<0.121	nd
MW15	G-Logics	10/21/2015	MW15-06-20151021	6	<0.0518	<0.0518	<0.0518	<0.0518	<0.0518	**0.0523**	<0.0518	<0.0518	<0.518	<0.104	<0.0518	<0.0518	<0.0518	<0.0518	**0.621**	<0.0518	**0.0754**	<0.104	nd
		10/21/2015	MW15-11-20151021	11	<0.0652	<0.0652	<0.0652	<0.0652	<0.0652	<0.0652	<0.0652	<0.0652	<0.652	<0.130	<0.0652	<0.0652	<0.0652	<0.0652	<0.0261	<0.0652	<0.0652	<0.130	nd
		10/21/2015	MW15-15-20151021	15	<0.0599	<0.0599	<0.0599	<0.0599	<0.0599	<0.0599	<0.0599	<0.0599	<0.599	<0.120	<0.0599	<0.0599	<0.0599	<0.0599	**0.0331**	<0.0599	<0.0599	<0.120	nd
		10/21/2015	MW15-20-20151021	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW16	G-Logics	10/19/2015	MW16-03-20151019	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/19/2015	MW16-06-20151019	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/19/2015	MW16-10-20151019	10	<0.0558	**0.0608**	**0.198**	<0.0558	<0.0558	**0.0569**	**0.122**	<0.0558	<0.558	**0.149**	<.0558	**0.290**	**0.542**	<0.0558	<0.023	<0.0558	**0.222**	<0.112	nd
		10/19/2015	MW16-13-20151019	13	**3.90 J**	**5.25 D**	**6.080 D**	**0.0618**	**1.45 J**	<0.0525	<0.0525	<0.0525	**1.40 J**	**4.56**	<0.0525	**5.06**	**4.76**	**13.4 D**	<0.021	**10.6 D**	**3.22 J**	<0.105	nd
		10/19/2015	MW16-15-20151019	15	**1.67**	**0.474**	**1.49**	<0.0576	**0.744**	**0.569**	**0.822**	<0.0576	<0.576	**0.228**	<0.0576	**3.65**	**0.265**	**8.25**	<0.023	**1.24**	**4.48**	<0.115	nd
		10/19/2015	MW16-18-20151019	18	<0.0579	<0.0579	<0.0579	<0.0579	<0.0579	<0.0579	<0.0579	<0.0579	<0.622	<0.124	<0.0579	<0.0579	<0.0579	<0.0579	<0.0232	<0.0579	<0.0579	<0.124	nd
		10/19/2015	MW16-20-20151019	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GLB01	G-Logics	3/29/2016	GLB01-07-20160328	7	**0.274**	**0.132**	**2.08**	**0.102**	**4.11**	**1.09**	**1.850 B***	**0.0827**	**0.760**	**0.617**	**0.0239**	**9.79 D**	**1.92**	**0.0958**	**0.180**	**6.02 D**	**8.94 D**	---	---
		3/29/2016	GLB01-12-20160328	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/29/2016	GLB01-14-20160328	14	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	**2.06 B***	<0.0224	**0.0533**	<0.0224	**0.0241**	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	---	---
		3/29/2016	GLB01-20-20160328	20	<0.0246	<0.0246	<0.0246	<0.0246	<0.0246	<0.0246	**1.73 B***	<0.0246	<0.0246	<0.0246	<0.0246	<0.0246	<0.0246	<0.0246	<0.0246	<0.0246	<0.0246	---	---
GLB02	G-Logics	3/28/2016	GLB02-03-20160328	3	<0.0210	<0.0210	<0.0210	<0.0210	**0.108**	<0.0210	**1.69 B***	<0.0210	**0.0543**	<0.0210	<0.0210	**0.101**	<0.0210	<0.0210	**0.118**	**0.0903**	**0.102**	---	---
		3/28/2016	GLB02-08-20160328	8	**0.107**	**0.148**	**0.479**	<0.0211	**0.463**	<0.0211	**2.53 B***	**0.102**	<0.0211	**0.129**	**0.0386**	**0.377**	**0.289**	**0.117**	<0.0211	**0.386**	**0.409**	---	---
		3/28/2016	GLB02-14-20160328	14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/28/2016	GLB02-17-20160328	17	<0.0232	<0.0232	**0.056**	<0.0232	**0.110**	**0.0408**	**3.17 B***	**0.0559**	**0.0621**	<0.0232	<0.0232	**0.185**	**0.0333**	<0.0232	**0.175**	**0.0913**	**0.183**	---	---
		3/28/2016	GLB02-20-20160328	20	<0.0209	**0.0228**	**0.0271**	<0.0209	<0.0209	**0.0226**	**3.82 B***	**0.203**	<0.0209	<0.0209	**0.189**	**0.0898**	**0.0227**	<0.0209	**0.191**	**0.0670**	**0.149**	---	---
GLB03	G-Logics	3/28/2016	GLB03-04-20160328	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/28/2016	GLB03-08-20160328	8	**2.78**	**3.59**	**6.99 D**	**0.412**	**10.1 D**	**7.08 D**	**2.93 B***	**0.188**	**3.82**	**3.57**	**0.0814**	**43.4 D**	**6.8 D**	**5.460 D**	**0.04**	**40.4 D**	**44.6 D**	---	---
		3/28/2016	GLB03-17-20160328	17	<0.0246	<0.0246	<0.0246	<0.0246	<0.0246	<0.0246	**2.08 B***	<0.0246	**0.0625**	<0.0246	<0.0246	**0.0600**	<0.0246	<0.0246	<0.0246	**0.0601**	**0.0539**	---	---
		3/28/2016	GLB03-20-20160328	20	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	**1.94 B***	<0.0225	**0.0539**	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	---	---

TABLE 1-4
Soil Sample Analyses, Semivolatile Organic Compounds (SVOCs) and Polycyclic Aromatic Hydrocarbons (PAHs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Di-n-Butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Pentachlorophenol	Phenanthrene	Pyrene	Hexachlorobenzene	Other SVOCs (3)
MTCA Method B Non-Cancer Cleanup Level (1)					5,600	320	4,800	24,000	24,000	na	1,600	16,000	na	80	8,000	3,200	3,200	1,600	400	na	2,400	64	various
MTCA Method B Cancer Cleanup Level (1)					34.5	na	na	na	na	na	71.4	526	na	na	na	na	na	na	2.5	na	na	0.6	various
TEE Cleanup Level (2)					na	na	na	na	na	na	na	na	na	na	na	na	na	na	11	na	na	31	various
(units in mg/kg)																							
GLB04	G-Logics	3/28/2016	GLB04-04-20160328	4	<0.0226	<0.0226	<0.0226	<0.0226	<0.0226	<0.0226	**1.25 B***	<0.0226	<0.0226	<0.0226	<0.0226	<0.0226	<0.0226	**0.554**	<0.0226	<0.0226	<0.0226	---	---
		3/28/2016	GLB04-07-20160328	7	**12.9 D**	**17.5 D**	**4.78**	**0.329**	**2.00**	**0.249**	**5.02 B***	**0.368**	**0.987**	**2.62**	**0.562**	**4.01**	**4.42**	**6.340 D**	**0.414**	**9.550 D**	**3.59**	---	---
		3/28/2016	GLB04-12-20160328	12	<0.0235	<0.0235	**0.188**	<0.0235	**0.150**	**0.930**	**2.56 B***	**0.0321**	**0.0699**	<0.0235	**0.0430**	**0.483**	<0.0235	<0.0235	**0.204**	**0.168**	**0.430**	---	---
		3/28/2016	GLB04-16-20160328	16	<0.0243	<0.0243	<0.0243	<0.0243	<0.0243	<0.0243	**1.81 B***	<0.0243	<0.0243	<0.0243	<0.0243	<0.0243	<0.0243	<0.0243	<0.0243	<0.0243	<0.0243	---	---
		3/28/2016	GLB04-20-20160328	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GLB05	G-Logics	3/28/2016	GLB05-04-20160328	4	**0.156**	**0.197**	**0.0397**	<0.0208	**0.266**	**0.0364**	**3.09 B***	**0.366**	**0.0613**	**0.0350**	**0.228**	**0.144**	**0.0710**	**0.149**	**0.192**	**0.222**	**0.167**	---	---
		3/28/2016	GLB05-08-20160328	8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/28/2016	GLB05-12-20160328	12	<0.0258	<0.0258	<0.0258	<0.0258	<0.0258	<0.0258	**1.32 B***	<0.0258	<0.0258	<0.0258	<0.0258	<0.0258	<0.0258	<0.0258	<0.0258	<0.0258	<0.0258	---	---
		3/28/2016	GLB05-16-20160328	16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/28/2016	GLB05-20-20160328	20	<0.0246	<0.0246	<0.0246	<0.0246	<0.0246	<0.0246	**1.34 B***	<0.0246	<0.0246	<0.0246	<0.0246	<0.0246	<0.0246	<0.0246	<0.0246	<0.0246	<0.0246	---	---
GLB06	G-Logics	3/29/2016	GLB06-04-20160328	4	<0.0228	<0.0228	**0.377**	**0.0265**	**0.382**	**0.167**	**1.30 B***	<22.8	**0.116**	**0.126**	<0.0228	**1.37**	**0.439**	**0.0264**	**0.137**	**1.55**	**1.51**	---	---
		3/29/2016	GLB06-07-20160328	7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/29/2016	GLB06-09-20160328	9	<0.0220	<0.0220	**0.0906**	<0.0220	**0.0705**	**0.0353**	**1.87 B***	<0.0220	**0.0683**	<0.0220	<0.0220	**0.220**	**0.05**	**0.0455**	<0.0220	**0.284**	**0.271**	---	---
		3/29/2016	GLB06-14-20160328	14	<0.0244	<0.0244	<0.0244	<0.0244	<0.0244	<0.0244	**1.96 B***	<0.0244	**0.0577**	<0.0244	<0.0244	<0.0244	<0.0244	<0.0244	<0.0244	<0.0244	<0.0244	---	---
		3/29/2016	GLB06-20-20160328	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GLB07	G-Logics	3/28/2016	GLB07-04-20160328	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/28/2016	GLB07-08-20160328	8	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	**0.0842**	<0.0218	<0.0218	<0.0218	<0.0218	**0.0402**	<0.0218	<0.0218	**0.0484**	<0.0218	**0.0431**	---	---
		3/28/2016	GLB07-15-20160328	15	<0.0258	<0.0258	<0.0258	<0.0258	<0.0258	<0.0258	**1.56 B***	<0.0258	**0.0618**	<0.0258	<0.0258	**0.0409**	<0.0258	<0.0258	<0.0258	<0.0258	**0.0590**	---	---
		3/28/2016	GLB07-19-20160328	19	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	**1.30 B***	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	**0.0273**	<0.0256	<0.0256	---	---
GLB08	G-Logics	3/28/2016	GLB08-08-20160328	8	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	**1.19 B***	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	---	---
		3/28/2016	GLB08-12-20160328	12	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	**1.22 B***	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	---	---
		3/28/2016	GLB08-16-20160328	16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/28/2016	GLB08-20-20160328	20	<0.0237	<0.0237	<0.0237	<0.0237	<0.0237	<0.0237	**1.22 B***	<0.0237	**0.0559**	<0.0237	<0.0237	<0.0237	<0.0237	<0.0237	<0.0237	<0.0237	<0.0237	---	---
GLB09	G-Logics	3/29/2016	GLB09-03-20160328	3	<0.0199	<0.0199	<0.0199	<0.0199	<0.0199	<0.0199	**1.32 B***	<0.0199	**0.0472**	<0.0199	<0.0199	<0.0199	<0.0199	<0.0199	<0.0199	<0.0199	<0.0199	---	---
		3/29/2016	GLB09-08-20160328	8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/29/2016	GLB09-14-20160328	14	<0.0257	<0.0257	<0.0257	<0.0257	<0.0257	<0.0257	**1.54 B***	<0.0257	**0.0606**	<0.0257	<0.0257	<0.0257	<0.0257	<0.0257	**0.0305**	<0.0257	<0.0257	---	---
		3/29/2016	GLB09-20-20160328	20	<0.0246	<0.0246	<0.0246	<0.0246	<0.0246	<0.0246	**1.49 B***	<0.0246	<0.0246	<0.0246	<0.0246	<0.0246	<0.0246	<0.0246	<0.0246	<0.0246	<0.0246	---	---
GLB10	G-Logics	3/29/2016	GLB10-04-20160328	4	**0.0241**	<0.0221	<21.3	<0.0221	**0.0881**	**0.0453**	**2.18 B***	<0.0221	**0.0549**	<0.0221	**0.0265**	**0.110**	<0.0221	**0.0221**	**0.133**	**0.0734**	**0.120**	---	---
		3/29/2016	GLB10-08-20160328	8	<0.0200	**0.0259**	<0.0200	<0.0200	**0.0839**	<0.0200	**2.14 B***	**0.0292**	**0.0506**	<0.0200	<0.0200	**0.0589**	<0.0200	<0.0200	**0.113**	**0.0699**	**0.0636**	---	---
GLB11	G-Logics	3/28/2016	GLB11-06-20160328	6	<0.0214	**0.0252**	**0.0473**	<0.0214	**0.241**	**0.407**	**2.23 B***	**0.0629**	**0.0890**	**0.0347**	<0.0214	**1.29**	**0.0623**	**0.0416**	**0.131**	**0.402**	**1.38**	---	---
		3/28/2016	GLB11-12-20160328	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/28/2016	GLB11-15-20160328	15	<0.0251	<0.0251	<0.0251	<0.0251	<0.0251	<0.0251	**1.62 B***	<0.0251	<0.0251	<0.0251	<0.0251	<0.0251	<0.0251	<0.0251	**0.0445**	<0.0251	<0.0251	---	---
		3/28/2016	GLB11-20-20160328	20	<0.0224	<0.0224	**0.0845**	<0.0224	<0.0224	<0.0224	**1.25 B***	<0.0224	**0.0533**	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	---	---

TABLE 1-4
Soil Sample Analyses, Semivolatile Organic Compounds (SVOCs) and Polycyclic Aromatic Hydrocarbons (PAHs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Di-n-Butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Pentachlorophenol	Phenanthrene	Pyrene	Hexachlorobenzene	Other SVOCs (3)
MTCA Method B Non-Cancer Cleanup Level (1)					5,600	320	4,800	24,000	24,000	na	1,600	16,000	na	80	8,000	3,200	3,200	1,600	400	na	2,400	64	various
MTCA Method B Cancer Cleanup Level (1)					34.5	na	na	na	na	na	71.4	526	na	na	na	na	na	na	2.5	na	na	0.6	various
TEE Cleanup Level (2)					na	na	na	na	na	na	na	na	na	na	na	na	na	na	11	na	na	31	various
(units in mg/kg)																							
GLB12	G-Logics	3/29/2016	GLB12-04-20160328	4	<0.0213	<0.0213	<0.0213	<0.0213	<0.0213	<0.0213	**1.53 B***	<0.0213	**0.0517**	<0.0213	<0.0213	**0.0322**	<0.0213	<0.0213	<0.0213	<0.0213	**0.0375**	---	---
		3/29/2016	GLB12-06-20160328	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/29/2016	GLB12-10-20160328	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/29/2016	GLB12-14-20160328	14	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	**1.46 B***	<0.0250	**0.0588**	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	---	---
		3/29/2016	GLB12-20-20160328	20	<0.0230	<0.0230	<0.0230	<0.0230	<0.0230	<0.0230	**1.62 B***	<0.0230	**0.0542**	<0.0230	<0.0230	<0.0230	<0.0230	<0.0230	<0.0230	<0.0230	<0.0230	---	---
GLB13	G-Logics	3/28/2016	GLB13-01-20160328	1	<0.0242	<0.0242	<0.0242	<0.0242	<0.0242	**0.0757**	**1.46 B***	<0.0242	**0.0625**	<0.0242	<0.0242	**0.0735**	<0.0242	<0.0242	**0.111**	**0.0687**	**0.0807**	---	---
		3/28/2016	GLB13-04-20160328	4	<0.0193	<0.0193	<0.0193	<0.0193	<0.0193	**0.0645**	**1.61 B***	**0.0240**	**0.0486**	<0.0193	<0.0193	**0.0694**	<0.0193	<0.0193	<0.0193	**0.0299**	**0.0851**	---	---
		3/28/2016	GLB13-12-20160328	12	<0.0249	<0.0249	<0.0249	<0.0249	<0.0249	<0.0249	**1.77 B***	<0.0249	**0.0599**	<0.0249	<0.0249	<0.0249	<0.0249	<0.0249	<0.0249	<0.0249	**0.0258**	---	---
GLB14	G-Logics	3/29/2016	GLB14-02-20160328	2	<0.0213	<0.0213	<0.0213	<0.0213	<0.0213	<0.0213	**1.75 B***	<0.0213	**0.0505**	<0.0213	<0.0213	<0.0213	<0.0213	<0.0213	**0.0853**	<0.0213	<0.0213	---	---
		3/29/2016	GLB14-06-20160328	6	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	**0.133 B***	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	---	---
		3/29/2016	GLB14-12-20160328	12	<0.0237	<0.0237	<0.0237	<0.0237	<0.0237	<0.0237	**0.241 B***	<0.0237	<0.0237	<0.0237	<0.0237	**0.0328**	<0.0237	<0.0237	<0.0237	<0.0237	**0.0618**	---	---
		3/29/2016	GLB14-15-20160328	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/29/2016	GLB14-20-20160328	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Notes:
Refer to site diagram(s) for sampling locations.
See Table 1-1 for Details Regarding ARARs used for Soil Screening Criteria.

(1) Direct Contact, Method B Non-Cancer and Cancer Cleanup Levels, Based on Ecology "Cleanup Levels and Risk Calculation (CLARC)" Website, Accessed July 2017
(2) Terrestrial Ecological Evaluation, Industrial or Commercial Cleanup Levels Based on MTCA Table 749-2
(3) Analytes Not Listed were Not Detected Above Laboratory Reporting Limits
na Cleanup Level Not Available
dup Blind Field Duplicate
--- Not Analyzed/No Data
nd Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified
<50.0 Not Detected at Specified Laboratory Reporting Limit
<49.9 Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level
250 Bold Number(s) Indicates Contaminant Detected.
1,440 Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level
1.70 Bold Number(s) and Purple Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level, but is Not a Final COPC
B Analyte Detected in Associated Method Blank
D Dilution Required
J Estimated Concentration, Analyte Detected Below Reporting Limit
Q Analyte with Initial or Continuing Calibration that does not Meet Established Acceptance Criteria
* Flagged Value is Not Within Established Control Limits

TABLE 1-5a
Soil Sample Analyses, cPAH Toxicity Equivalency Quotient Calculations (1)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

TEQ = ([Benzo(a)anthracene]*0.1) + ([Chysene]*0.01) + ([Benzo(b)fluoranthene]*0.1) + ([Benzo(a)pyrene]*1) +

([Indeno(1,2,3-cd)pyrene]*0.1) + ([Dibenzo(a,h)anthracene]*0.1)

Sample Name	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	TEQ (2)
Toxicity Equivalency Factor (TEF)	0.1	0.01	0.1	0.1	1	0.1	0.1	
MW05-03-20151019	---	---	---	---	---	---	---	---
MW05-06-20151019	**0.461**	**0.908**	**0.926**	**0.225**	**0.648**	**0.294**	**0.129**	0.861
MW05-10-20151019	0.256	0.256	**0.797**	0.256	0.256	0.256	0.256	0.441
MW05-13-20151019	0.0313	0.0313	0.0313	0.0313	0.0313	0.0313	0.0313	0.0473
MW05-20-20151019	---	---	---	---	---	---	---	---
MW06-03-20151021	---	---	---	---	---	---	---	---
MW06-06-20151021	0.474	**0.792**	**0.803**	**0.130**	**0.249**	**0.218**	**0.474**	0.467
MW06-11-20151021	0.0330	0.0330	0.0330	0.0330	0.0330	0.0330	0.0330	0.0498
MW06-14-20151021	0.0292	0.0292	0.0292	0.0292	0.0292	0.0292	0.0292	0.0441
MW06-20-20151021	---	---	---	---	---	---	---	---
MW07-04-20151020	**0.165**	**0.217**	**0.188**	**0.112**	**0.213**	**0.107**	0.0275	0.275
MW07-08-20151020	0.0284	0.0284	0.0284	0.0284	0.0284	0.0284	0.0284	0.0429
MW07-13-20151020	0.0321	0.0321	0.0321	0.0321	0.0321	0.0321	0.0321	0.0484
MW07-18-20151020	---	---	---	---	---	---	---	---
MW08-06-20151020	**0.119**	**0.120**	**0.128**	0.0261	**0.977**	0.0261	0.0261	1.01
MW08-08-20151020	**0.766**	**0.720**	**0.671**	**0.297**	**0.555**	**0.187**	**0.066**	0.761
MW08-11-20151020	---	---	---	---	---	---	---	---
MW08-15-20151020	0.0289	0.0289	0.0621	0.0289	0.0289	0.0289	0.0289	0.0470
MW08-21-20151020	---	---	---	---	---	---	---	---
MW09-05-20151022	---	---	---	---	---	---	---	---
MW09-08-20151022	0.0333	0.0333	0.0333	0.0333	0.0333	0.0333	0.0333	0.0502
MW09-13-20151022	0.0296	0.0296	0.0296	0.0296	0.0296	0.0296	0.0296	0.0447
MW09-16-20151022	0.0320	0.0320	0.0320	0.0320	0.0320	0.0320	0.0320	0.0482
MW09-20-20151022	---	---	---	---	---	---	---	---
MW09D-05-20151022	0.0244	0.0244	0.0244	0.0244	0.0244	0.0244	0.0244	0.0368
MW09D-10-20151022	---	---	---	---	---	---	---	---
MW09D-14-20151022	0.0303	0.0303	0.0303	0.0303	0.0303	0.0303	0.0303	0.0457
MW09D-18-20151022	0.0313	0.0313	0.0313	0.0313	0.0313	0.0313	0.0313	0.0473
MW09D-23-20151022	---	---	---	---	---	---	---	---
MW09D-26-20151022	---	---	---	---	---	---	---	---
MW09D-31-20151022	---	---	---	---	---	---	---	---
MW10-06-20151022	0.0220	0.0220	0.0220	0.0220	0.0220	0.0220	0.0220	0.0332
MW10-10-20151022	---	---	---	---	---	---	---	---
MW10-16-20151022	0.0337	0.0337	0.0337	0.0337	0.0337	0.0337	0.0337	0.0509
MW10-18-20151022	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0539

TABLE 1-5a
Soil Sample Analyses, cPAH Toxicity Equivalency Quotient Calculations (1)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

TEQ = ([Benzo(a)anthracene]*0.1) + ([Chysene]*0.01) + ([Benzo(b)fluoranthene]*0.1) + ([Benzo(a)pyrene]*1) +

([Indeno(1,2,3-cd)pyrene]*0.1) + ([Dibenzo(a,h)anthracene]*0.1)

Sample Name	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	TEQ (2)
Toxicity Equivalency Factor (TEF)	0.1	0.01	0.1	0.1	1	0.1	0.1	
MW10D-04-20151022	---	---	---	---	---	---	---	---
MW10D-06-20151022	0.0245	0.0245	0.0245	0.0245	0.0245	0.0245	0.0245	0.0369
MW10D-13-20151022	0.0330	0.0330	0.0330	0.0330	0.0330	0.0330	0.0330	0.0498
MW10D-18-20151022	0.0302	0.0302	0.0302	0.0302	0.0302	0.0302	0.0302	0.0456
MW10D-24-20151022	---	---	---	---	---	---	---	---
MW10D-28-20151022	---	---	---	---	---	---	---	---
MW10D-31-20151022	---	---	---	---	---	---	---	---
MW11-06-20151020	0.0300	0.0300	0.0300	0.0300	0.0300	0.0300	0.0300	0.0452
MW11-11-20151020	0.0320	0.0320	0.0320	0.0320	0.0320	0.0320	0.0320	0.0482
MW11-16-20151020	0.0344	0.0344	0.0344	0.0344	0.0344	0.0344	0.0344	0.0519
MW11-20-20151020	---	---	---	---	---	---	---	---
MW12-04-20151020	---	---	---	---	---	---	---	---
MW12-06-20151020	**1.02**	**1.37**	**1.46**	**0.55**	**1.06**	**0.52**	**0.18**	1.45
MW12-11-20151020	**0.433**	**0.180**	**2.209**	**71.500**	**0.522**	**0.608**	1.46	8.14
MW12-16-20151020	0.0307	0.0307	0.0307	0.0307	0.0307	0.0307	0.0307	0.0463
MW12D-04-20151019	---	---	---	---	---	---	---	---
MW12D-08-20151019	0.0253	0.0253	0.0253	0.0253	0.0253	0.0253	0.0253	0.0381
MW12D-10-20151019	---	---	---	---	---	---	---	---
MW12D-11-20151019	---	---	---	---	---	---	---	---
MW12D-14-20151019	0.0332	0.0332	0.0332	0.0332	0.0332	0.0332	0.0332	0.0501
MW12D-16-20151019	0.0313	0.0313	0.0313	0.0313	0.0313	0.0313	0.0313	0.0472
MW12D-23-20151019	---	---	---	---	---	---	---	---
MW12D-31-20151019	---	---	---	---	---	---	---	---
MW13-04-20151021	0.0239	0.0239	0.0239	0.0239	0.0239	0.0239	0.0239	0.0361
MW13-10-20151021	0.0360	0.0360	0.0360	0.0360	0.0360	0.0360	0.0360	0.0544
MW13-13-20151021	---	---	---	---	---	---	---	---
MW13-18-20151021	0.0296	0.0296	0.0296	0.0296	0.0296	0.0296	0.0296	0.0446
MW13-21-20151021	---	---	---	---	---	---	---	---
MW14-03-20151021	---	---	---	---	---	---	---	---
MW14-06-20151021	0.0272	0.0272	**0.0689**	0.0272	0.0272	0.0272	0.0272	0.0452
MW14-11-20151021	**0.109**	**0.114**	**0.154**	0.0333	**0.0951**	0.0333	0.0333	0.133
MW14-13-20151021	**0.785**	**0.667**	**1.435**	**0.190**	**2.050**	**0.382**	**0.414**	2.38
MW14-16-20151021	---	---	---	---	---	---	---	---
MW14-20-20151021	0.0303	0.0303	0.0863	0.0303	0.0303	0.0303	0.0303	0.0513

TABLE 1-5a
Soil Sample Analyses, cPAH Toxicity Equivalency Quotient Calculations (1)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

TEQ = ([Benzo(a)anthracene]*0.1) + ([Chysene]*0.01) + ([Benzo(b)fluoranthene]*0.1) + ([Benzo(a)pyrene]*1) +

([Indeno(1,2,3-cd)pyrene]*0.1) + ([Dibenzo(a,h)anthracene]*0.1)

Sample Name	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	TEQ (2)
Toxicity Equivalency Factor (TEF)	0.1	0.01	0.1	0.1	1	0.1	0.1	
MW15-06-20151021	0.0259	0.0259	0.0259	0.0259	0.0259	0.0259	0.0259	0.0391
MW15-11-20151021	0.0326	0.0326	0.0326	0.0326	0.0326	0.0326	0.0326	0.0492
MW15-15-20151021	0.0300	0.0300	0.0300	0.0300	0.0300	0.0300	0.0300	0.0452
MW15-20-20151021	---	---	---	---	---	---	---	---
MW16-03-20151019	---	---	---	---	---	---	---	---
MW16-06-20151019	---	---	---	---	---	---	---	---
MW16-10-20151019	0.0279	**0.086**	**0.097**	0.0279	**0.076**	0.0279	0.0279	0.0972
MW16-13-20151019	**0.734**	**0.451**	**0.335**	**0.139**	**0.227**	0.0260	0.0260	0.358
MW16-15-20151019	**2.14**	**2.24**	**1.62**	**0.68**	**1.50**	**0.49**	**0.22**	2.04
MW16-18-20151019	0.0285	0.0285	0.0285	0.0285	0.0285	0.0285	0.0285	0.0430
MW16-20-20151019	---	---	---	---	---	---	---	---
GLB01-07-20160328	**2.86**	**3.20**	**5.33**	**3.75**	**2.64**	**1.07**	**0.487**	4.022
GLB01-12-20160328	---	---	---	---	---	---	---	
GLB01-14-20160328	0.0112	0.0112	0.0112	0.0112	0.0112	0.0112	0.0112	0.0169
GLB01-20-20160328	0.0123	0.0123	0.0123	0.0123	0.0123	0.0123	0.0123	0.0186
GLB02-03-20160328	**0.0534**	**0.0635**	**0.122**	**0.0736**	**0.0611**	**0.0245**	0.0105	0.0901
GLB02-08-20160328	**0.149**	**0.0213**	**0.200**	**0.115**	**0.0979**	0.0106	0.0106	0.147
GLB02-14-20160328	---	---	---	---	---	---	---	---
GLB02-17-20160328	**0.115**	**0.0827**	**0.185**	**0.108**	**0.0956**	**0.0337**	0.0116	0.142
GLB02-20-20160328	**0.0381**	**0.0461**	**0.0529**	**0.0369**	**0.0455**	0.105	0.105	0.0797
GLB03-04-20160328	---	---	---	---	---	---	---	
GLB03-08-20160328	**24.4**	**22.1**	**26.1**	**14.7**	**20.6**	**9.20**	**1.865**	28.4
GLB03-17-20160328	**0.0313**	0.0123	**0.0297**	**0.0315**	0.0123	0.0123	0.0123	0.0241
GLB03-20-20160328	0.0113	0.0113	0.0113	0.0113	0.0113	0.0113	0.0113	0.0170
GLB04-04-20160328	0.0113	0.0113	0.0113	0.0113	**0.0327**	0.0113	0.0113	0.0385
GLB04-07-20160328	**1.60**	**1.34**	**2.24**	**1.37**	**0.878**	**0.331**	**0.163**	1.462
GLB04-12-20160328	**0.288**	**0.191**	**0.465**	**0.260**	**0.244**	**0.0895**	0.01	0.357
GLB04-16-20160328	0.0122	0.0122	0.0122	0.0122	0.0122	0.0122	0.0122	0.0183
GLB04-20-20160328	---	---	---	---	---	---	---	---
GLB05-04-20160328	**0.0615**	**0.0941**	**0.160**	**0.0937**	**0.137**	**0.0233**	0.0104	0.173
GLB05-08-20160328	---	---	---	---	---	---	---	---
GLB05-12-20160328	0.0129	0.0129	0.0129	0.0129	**0.0494**	0.0129	0.0129	0.0560
GLB05-16-20160328	---	---	---	---	---	---	---	---
GLB05-20-20160328	0.0123	0.0123	0.0123	0.0123	0.0123	0.0123	0.0123	0.0186

TABLE 1-5a
Soil Sample Analyses, cPAH Toxicity Equivalency Quotient Calculations (1)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

TEQ = ([Benzo(a)anthracene]*0.1) + ([Chysene]*0.01) + ([Benzo(b)fluoranthene]*0.1) + ([Benzo(a)pyrene]*1) +

([Indeno(1,2,3-cd)pyrene]*0.1) + ([Dibenzo(a,h)anthracene]*0.1)

Sample Name	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	TEQ (2)
Toxicity Equivalency Factor (TEF)	0.1	0.01	0.1	0.1	1	0.1	0.1	
GLB06-04-20160328	**0.589**	**0.465**	**0.730**	**0.409**	**0.424**	**0.0349**	**0.0302**	0.608
GLB06-07-20160328	---	---	---	---	---	---	---	---
GLB06-09-20160328	**0.133**	**0.101**	**0.116**	**0.0706**	**0.110**	0.011	0.011	0.145
GLB06-14-20160328	0.0122	0.0122	0.0122	0.0122	**0.0678**	0.0122	0.0122	0.0740
GLB06-20-20160328	---	---	---	---	---	---	---	---
GLB07-04-20160328	---	---	---	---	---	---	---	---
GLB07-08-20160328	0.0109	0.0109	0.0109	0.0109	0.0109	0.0109	0.0109	0.0165
GLB07-15-20160328	**0.0463**	**0.0610**	**0.0485**	**0.0368**	**0.0403**	0.0129	0.0129	0.0567
GLB07-19-20160328	0.0128	0.0128	0.0128	0.0128	**0.0306**	0.0128	0.0128	0.0371
GLB08-08-20160328	0.0112	0.0112	0.0112	0.0112	0.0112	0.0112	0.0112	0.0169
GLB08-12-20160328	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0189
GLB08-16-20160328	---	---	---	---	---	---	---	---
GLB08-20-20160328	0.0119	0.0119	0.0119	0.0119	0.0119	0.0119	0.0119	0.0179
GLB09-03-20160328	**0.0345**	**0.0229**	0.00995	0.00995	0.00995	0.00995	0.00995	0.0176
GLB09-08-20160328	---	---	---	---	---	---	---	---
GLB09-14-20160328	0.0129	0.0129	0.0129	0.0129	**0.0374**	0.0129	0.0129	0.0440
GLB09-20-20160328	0.0123	0.0123	0.0123	0.0123	**0.0266**	0.0123	0.0123	0.0329
GLB10-04-20160328	**0.0562**	**0.0612**	**0.145**	**0.0854**	**0.0799**	**0.0356**	0.0106	0.114
GLB10-08-20160328	**0.0401**	**0.0544**	**0.0673**	**0.0441**	**0.0358**	0.0100	0.0100	0.0535
GLB11-06-20160328	**0.899**	**0.820**	**1.78**	**1.06**	**0.888**	**0.0840**	**0.0974**	1.29
GLB11-12-20160328	---	---	---	---	---	---	---	---
GLB11-15-20160328	0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0190
GLB11-20-20160328	0.0112	0.0112	0.0112	0.0112	0.0112	0.0112	0.0112	0.0169

TABLE 1-5a
Soil Sample Analyses, cPAH Toxicity Equivalency Quotient Calculations (1)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

TEQ = ([Benzo(a)anthracene]*0.1) + ([Chysene]*0.01) + ([Benzo(b)fluoranthene]*0.1) + ([Benzo(a)pyrene]*1) +

([Indeno(1,2,3-cd)pyrene]*0.1) + ([Dibenzo(a,h)anthracene]*0.1)

Sample Name	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	TEQ (2)
Toxicity Equivalency Factor (TEF)	0.1	0.01	0.1	0.1	1	0.1	0.1	
GLB12-04-20160328	**0.0419**	**0.0271**	**0.0633**	**0.0425**	**0.0404**	0.0107	0.0107	0.0576
GLB12-06-20160328	---	---	---	---	---	---	---	---
GLB12-10-20160328	---	---	---	---	---	---	---	---
GLB12-14-20160328	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0189
GLB12-20-20160328	0.0115	0.0115	0.0115	0.0115	0.0115	0.0115	0.0115	0.0174
GLB13-01-20160328	**0.0439**	**0.0395**	**0.0446**	**0.0340**	**0.0371**	0.0121	0.0121	0.0522
GLB13-04-20160328	**0.0626**	**0.0569**	**0.112**	**0.0674**	**0.0921**	**0.0496**	**0.0207**	0.124
GLB13-12-20160328	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0188
GLB14-02-20160328	0.0107	0.0107	0.0107	0.0107	0.0107	0.0107	0.0107	0.0161
GLB14-06-20160328	0.0113	0.0113	0.0113	0.0113	0.0113	0.0113	0.0113	0.0170
GLB14-12-20160328	0.0119	0.0119	0.0119	0.0119	0.0119	0.0119	0.0119	0.0179
GLB14-15-20160328	---	---	---	---	---	---	---	---
GLB14-20-20160328	---	---	---	---	---	---	---	---

Notes:

(1) One-half of the reporting limit was used for the TEQ calculation when the analyte was not detected.

(2) See Table 1-5 for Complete cPAH Results.

0.0439 Bold Number(s) Indicates Contaminant Detected.

0.0125 Non-Bold Number(s) Indicates that Contaminant Was Not Detected in Sample. Value is Equal to Half of the Reporting Limit.

TABLE 1-5a
Soil Sample Analyses, cPAH Toxicity Equivalency Quotient Calculations (1)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

TEQ = ([Benzo(a)anthracene]*0.1) + ([Chysene]*0.01) + ([Benzo(b)fluoranthene]*0.1) + ([Benzo(a)pyrene]*1) +

([Indeno(1,2,3-cd)pyrene]*0.1) + ([Dibenzo(a,h)anthracene]*0.1)

Sample Name	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	TEQ (2)
Toxicity Equivalency Factor (TEF)	0.1	0.01	0.1	0.1	1	0.1	0.1	
MW05-03-20151019	---	---	---	---	---	---	---	---
MW05-06-20151019	**0.461**	**0.908**	**0.926**	**0.225**	**0.648**	**0.294**	**0.129**	0.861
MW05-10-20151019	0.256	0.256	**0.797**	0.256	0.256	0.256	0.256	0.441
MW05-13-20151019	0.0313	0.0313	0.0313	0.0313	0.0313	0.0313	0.0313	0.0473
MW05-20-20151019	---	---	---	---	---	---	---	---
MW06-03-20151021	---	---	---	---	---	---	---	---
MW06-06-20151021	0.474	**0.792**	**0.803**	**0.130**	**0.249**	**0.218**	**0.474**	0.467
MW06-11-20151021	0.0330	0.0330	0.0330	0.0330	0.0330	0.0330	0.0330	0.0498
MW06-14-20151021	0.0292	0.0292	0.0292	0.0292	0.0292	0.0292	0.0292	0.0441
MW06-20-20151021	---	---	---	---	---	---	---	---
MW07-04-20151020	**0.165**	**0.217**	**0.188**	**0.112**	**0.213**	**0.107**	0.0275	0.275
MW07-08-20151020	0.0284	0.0284	0.0284	0.0284	0.0284	0.0284	0.0284	0.0429
MW07-13-20151020	0.0321	0.0321	0.0321	0.0321	0.0321	0.0321	0.0321	0.0484
MW07-18-20151020	---	---	---	---	---	---	---	---
MW08-06-20151020	**0.119**	**0.120**	**0.128**	0.0261	**0.977**	0.0261	0.0261	1.01
MW08-08-20151020	**0.766**	**0.720**	**0.671**	**0.297**	**0.555**	**0.187**	**0.066**	0.761
MW08-11-20151020	---	---	---	---	---	---	---	---
MW08-15-20151020	0.0289	0.0289	0.0621	0.0289	0.0289	0.0289	0.0289	0.0470
MW08-21-20151020	---	---	---	---	---	---	---	---
MW09-05-20151022	---	---	---	---	---	---	---	---
MW09-08-20151022	0.0333	0.0333	0.0333	0.0333	0.0333	0.0333	0.0333	0.0502
MW09-13-20151022	0.0296	0.0296	0.0296	0.0296	0.0296	0.0296	0.0296	0.0447
MW09-16-20151022	0.0320	0.0320	0.0320	0.0320	0.0320	0.0320	0.0320	0.0482
MW09-20-20151022	---	---	---	---	---	---	---	---
MW09D-05-20151022	0.0244	0.0244	0.0244	0.0244	0.0244	0.0244	0.0244	0.0368
MW09D-10-20151022	---	---	---	---	---	---	---	---
MW09D-14-20151022	0.0303	0.0303	0.0303	0.0303	0.0303	0.0303	0.0303	0.0457
MW09D-18-20151022	0.0313	0.0313	0.0313	0.0313	0.0313	0.0313	0.0313	0.0473
MW09D-23-20151022	---	---	---	---	---	---	---	---
MW09D-26-20151022	---	---	---	---	---	---	---	---
MW09D-31-20151022	---	---	---	---	---	---	---	---
MW10-06-20151022	0.0220	0.0220	0.0220	0.0220	0.0220	0.0220	0.0220	0.0332
MW10-10-20151022	---	---	---	---	---	---	---	---
MW10-16-20151022	0.0337	0.0337	0.0337	0.0337	0.0337	0.0337	0.0337	0.0509
MW10-18-20151022	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0539

TABLE 1-5a
Soil Sample Analyses, cPAH Toxicity Equivalency Quotient Calculations (1)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

TEQ = ([Benzo(a)anthracene]*0.1) + ([Chysene]*0.01) + ([Benzo(b)fluoranthene]*0.1) + ([Benzo(a)pyrene]*1) +

([Indeno(1,2,3-cd)pyrene]*0.1) + ([Dibenzo(a,h)anthracene]*0.1)

Sample Name	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	TEQ (2)
Toxicity Equivalency Factor (TEF)	0.1	0.01	0.1	0.1	1	0.1	0.1	
MW10D-04-20151022	---	---	---	---	---	---	---	---
MW10D-06-20151022	0.0245	0.0245	0.0245	0.0245	0.0245	0.0245	0.0245	0.0369
MW10D-13-20151022	0.0330	0.0330	0.0330	0.0330	0.0330	0.0330	0.0330	0.0498
MW10D-18-20151022	0.0302	0.0302	0.0302	0.0302	0.0302	0.0302	0.0302	0.0456
MW10D-24-20151022	---	---	---	---	---	---	---	---
MW10D-28-20151022	---	---	---	---	---	---	---	---
MW10D-31-20151022	---	---	---	---	---	---	---	---
MW11-06-20151020	0.0300	0.0300	0.0300	0.0300	0.0300	0.0300	0.0300	0.0452
MW11-11-20151020	0.0320	0.0320	0.0320	0.0320	0.0320	0.0320	0.0320	0.0482
MW11-16-20151020	0.0344	0.0344	0.0344	0.0344	0.0344	0.0344	0.0344	0.0519
MW11-20-20151020	---	---	---	---	---	---	---	---
MW12-04-20151020	---	---	---	---	---	---	---	---
MW12-06-20151020	**1.02**	**1.37**	**1.46**	**0.55**	**1.06**	**0.52**	**0.18**	1.45
MW12-11-20151020	**0.433**	**0.180**	**2.209**	**71.500**	**0.522**	**0.608**	1.46	8.14
MW12-16-20151020	0.0307	0.0307	0.0307	0.0307	0.0307	0.0307	0.0307	0.0463
MW12D-04-20151019	---	---	---	---	---	---	---	---
MW12D-08-20151019	0.0253	0.0253	0.0253	0.0253	0.0253	0.0253	0.0253	0.0381
MW12D-10-20151019	---	---	---	---	---	---	---	---
MW12D-11-20151019	---	---	---	---	---	---	---	---
MW12D-14-20151019	0.0332	0.0332	0.0332	0.0332	0.0332	0.0332	0.0332	0.0501
MW12D-16-20151019	0.0313	0.0313	0.0313	0.0313	0.0313	0.0313	0.0313	0.0472
MW12D-23-20151019	---	---	---	---	---	---	---	---
MW12D-31-20151019	---	---	---	---	---	---	---	---
MW13-04-20151021	0.0239	0.0239	0.0239	0.0239	0.0239	0.0239	0.0239	0.0361
MW13-10-20151021	0.0360	0.0360	0.0360	0.0360	0.0360	0.0360	0.0360	0.0544
MW13-13-20151021	---	---	---	---	---	---	---	---
MW13-18-20151021	0.0296	0.0296	0.0296	0.0296	0.0296	0.0296	0.0296	0.0446
MW13-21-20151021	---	---	---	---	---	---	---	---
MW14-03-20151021	---	---	---	---	---	---	---	---
MW14-06-20151021	0.0272	0.0272	**0.0689**	0.0272	0.0272	0.0272	0.0272	0.0452
MW14-11-20151021	**0.109**	**0.114**	**0.154**	0.0333	**0.0951**	0.0333	0.0333	0.133
MW14-13-20151021	**0.785**	**0.667**	**1.435**	**0.190**	**2.050**	**0.382**	**0.414**	2.38
MW14-16-20151021	---	---	---	---	---	---	---	---
MW14-20-20151021	0.0303	0.0303	0.0863	0.0303	0.0303	0.0303	0.0303	0.0513

TABLE 1-5a
Soil Sample Analyses, cPAH Toxicity Equivalency Quotient Calculations (1)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

TEQ = ([Benzo(a)anthracene]*0.1) + ([Chysene]*0.01) + ([Benzo(b)fluoranthene]*0.1) + ([Benzo(a)pyrene]*1) +

([Indeno(1,2,3-cd)pyrene]*0.1) + ([Dibenzo(a,h)anthracene]*0.1)

Sample Name	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	TEQ (2)
Toxicity Equivalency Factor (TEF)	0.1	0.01	0.1	0.1	1	0.1	0.1	
MW15-06-20151021	0.0259	0.0259	0.0259	0.0259	0.0259	0.0259	0.0259	0.0391
MW15-11-20151021	0.0326	0.0326	0.0326	0.0326	0.0326	0.0326	0.0326	0.0492
MW15-15-20151021	0.0300	0.0300	0.0300	0.0300	0.0300	0.0300	0.0300	0.0452
MW15-20-20151021	---	---	---	---	---	---	---	---
MW16-03-20151019	---	---	---	---	---	---	---	---
MW16-06-20151019	---	---	---	---	---	---	---	---
MW16-10-20151019	0.0279	**0.086**	**0.097**	0.0279	**0.076**	0.0279	0.0279	0.0972
MW16-13-20151019	**0.734**	**0.451**	**0.335**	**0.139**	**0.227**	0.0260	0.0260	0.358
MW16-15-20151019	**2.14**	**2.24**	**1.62**	**0.68**	**1.50**	**0.49**	**0.22**	2.04
MW16-18-20151019	0.0285	0.0285	0.0285	0.0285	0.0285	0.0285	0.0285	0.0430
MW16-20-20151019	---	---	---	---	---	---	---	---
GLB01-07-20160328	**2.86**	**3.20**	**5.33**	**3.75**	**2.64**	**1.07**	**0.487**	4.022
GLB01-12-20160328	---	---	---	---	---	---	---	
GLB01-14-20160328	0.0112	0.0112	0.0112	0.0112	0.0112	0.0112	0.0112	0.0169
GLB01-20-20160328	0.0123	0.0123	0.0123	0.0123	0.0123	0.0123	0.0123	0.0186
GLB02-03-20160328	**0.0534**	**0.0635**	**0.122**	**0.0736**	**0.0611**	**0.0245**	0.0105	0.0901
GLB02-08-20160328	**0.149**	**0.0213**	**0.200**	**0.115**	**0.0979**	0.0106	0.0106	0.147
GLB02-14-20160328	---	---	---	---	---	---	---	---
GLB02-17-20160328	**0.115**	**0.0827**	**0.185**	**0.108**	**0.0956**	**0.0337**	0.0116	0.142
GLB02-20-20160328	**0.0381**	**0.0461**	**0.0529**	**0.0369**	**0.0455**	0.105	0.105	0.0797
GLB03-04-20160328	---	---	---	---	---	---	---	
GLB03-08-20160328	**24.4**	**22.1**	**26.1**	**14.7**	**20.6**	**9.20**	**1.865**	28.4
GLB03-17-20160328	**0.0313**	0.0123	**0.0297**	**0.0315**	0.0123	0.0123	0.0123	0.0241
GLB03-20-20160328	0.0113	0.0113	0.0113	0.0113	0.0113	0.0113	0.0113	0.0170
GLB04-04-20160328	0.0113	0.0113	0.0113	0.0113	**0.0327**	0.0113	0.0113	0.0385
GLB04-07-20160328	**1.60**	**1.34**	**2.24**	**1.37**	**0.878**	**0.331**	**0.163**	1.462
GLB04-12-20160328	**0.288**	**0.191**	**0.465**	**0.260**	**0.244**	**0.0895**	0.01	0.357
GLB04-16-20160328	0.0122	0.0122	0.0122	0.0122	0.0122	0.0122	0.0122	0.0183
GLB04-20-20160328	---	---	---	---	---	---	---	---
GLB05-04-20160328	**0.0615**	**0.0941**	**0.160**	**0.0937**	**0.137**	**0.0233**	0.0104	0.173
GLB05-08-20160328	---	---	---	---	---	---	---	---
GLB05-12-20160328	0.0129	0.0129	0.0129	0.0129	**0.0494**	0.0129	0.0129	0.0560
GLB05-16-20160328	---	---	---	---	---	---	---	---
GLB05-20-20160328	0.0123	0.0123	0.0123	0.0123	0.0123	0.0123	0.0123	0.0186

TABLE 1-5a
Soil Sample Analyses, cPAH Toxicity Equivalency Quotient Calculations (1)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

TEQ = ([Benzo(a)anthracene]*0.1) + ([Chysene]*0.01) + ([Benzo(b)fluoranthene]*0.1) + ([Benzo(a)pyrene]*1) +

([Indeno(1,2,3-cd)pyrene]*0.1) + ([Dibenzo(a,h)anthracene]*0.1)

Sample Name	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	TEQ (2)
Toxicity Equivalency Factor (TEF)	0.1	0.01	0.1	0.1	1	0.1	0.1	
GLB06-04-20160328	**0.589**	**0.465**	**0.730**	**0.409**	**0.424**	**0.0349**	**0.0302**	0.608
GLB06-07-20160328	---	---	---	---	---	---	---	---
GLB06-09-20160328	**0.133**	**0.101**	**0.116**	**0.0706**	**0.110**	0.011	0.011	0.145
GLB06-14-20160328	0.0122	0.0122	0.0122	0.0122	**0.0678**	0.0122	0.0122	0.0740
GLB06-20-20160328	---	---	---	---	---	---	---	---
GLB07-04-20160328	---	---	---	---	---	---	---	---
GLB07-08-20160328	0.0109	0.0109	0.0109	0.0109	0.0109	0.0109	0.0109	0.0165
GLB07-15-20160328	**0.0463**	**0.0610**	**0.0485**	**0.0368**	**0.0403**	0.0129	0.0129	0.0567
GLB07-19-20160328	0.0128	0.0128	0.0128	0.0128	**0.0306**	0.0128	0.0128	0.0371
GLB08-08-20160328	0.0112	0.0112	0.0112	0.0112	0.0112	0.0112	0.0112	0.0169
GLB08-12-20160328	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0189
GLB08-16-20160328	---	---	---	---	---	---	---	---
GLB08-20-20160328	0.0119	0.0119	0.0119	0.0119	0.0119	0.0119	0.0119	0.0179
GLB09-03-20160328	**0.0345**	**0.0229**	0.00995	0.00995	0.00995	0.00995	0.00995	0.0176
GLB09-08-20160328	---	---	---	---	---	---	---	---
GLB09-14-20160328	0.0129	0.0129	0.0129	0.0129	**0.0374**	0.0129	0.0129	0.0440
GLB09-20-20160328	0.0123	0.0123	0.0123	0.0123	**0.0266**	0.0123	0.0123	0.0329
GLB10-04-20160328	**0.0562**	**0.0612**	**0.145**	**0.0854**	**0.0799**	**0.0356**	0.0106	0.114
GLB10-08-20160328	**0.0401**	**0.0544**	**0.0673**	**0.0441**	**0.0358**	0.0100	0.0100	0.0535
GLB11-06-20160328	**0.899**	**0.820**	**1.78**	**1.06**	**0.888**	**0.0840**	**0.0974**	1.29
GLB11-12-20160328	---	---	---	---	---	---	---	---
GLB11-15-20160328	0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0190
GLB11-20-20160328	0.0112	0.0112	0.0112	0.0112	0.0112	0.0112	0.0112	0.0169

TABLE 1-5a
Soil Sample Analyses, cPAH Toxicity Equivalency Quotient Calculations (1)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

TEQ = ([Benzo(a)anthracene]*0.1) + ([Chysene]*0.01) + ([Benzo(b)fluoranthene]*0.1) + ([Benzo(a)pyrene]*1) +

([Indeno(1,2,3-cd)pyrene]*0.1) + ([Dibenzo(a,h)anthracene]*0.1)

Sample Name	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	TEQ (2)
Toxicity Equivalency Factor (TEF)	0.1	0.01	0.1	0.1	1	0.1	0.1	
GLB12-04-20160328	**0.0419**	**0.0271**	**0.0633**	**0.0425**	**0.0404**	0.0107	0.0107	0.0576
GLB12-06-20160328	---	---	---	---	---	---	---	---
GLB12-10-20160328	---	---	---	---	---	---	---	---
GLB12-14-20160328	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0189
GLB12-20-20160328	0.0115	0.0115	0.0115	0.0115	0.0115	0.0115	0.0115	0.0174
GLB13-01-20160328	**0.0439**	**0.0395**	**0.0446**	**0.0340**	**0.0371**	0.0121	0.0121	0.0522
GLB13-04-20160328	**0.0626**	**0.0569**	**0.112**	**0.0674**	**0.0921**	**0.0496**	**0.0207**	0.124
GLB13-12-20160328	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0188
GLB14-02-20160328	0.0107	0.0107	0.0107	0.0107	0.0107	0.0107	0.0107	0.0161
GLB14-06-20160328	0.0113	0.0113	0.0113	0.0113	0.0113	0.0113	0.0113	0.0170
GLB14-12-20160328	0.0119	0.0119	0.0119	0.0119	0.0119	0.0119	0.0119	0.0179
GLB14-15-20160328	---	---	---	---	---	---	---	---
GLB14-20-20160328	---	---	---	---	---	---	---	---

Notes:

(1) One-half of the reporting limit was used for the TEQ calculation when the analyte was not detected.

(2) See Table 1-5 for Complete cPAH Results.

0.0439 Bold Number(s) Indicates Contaminant Detected.

0.0125 Non-Bold Number(s) Indicates that Contaminant Was Not Detected in Sample. Value is Equal to Half of the Reporting Limit.

TABLE 1-5
Soil Sample Analyses, Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	TEQ, nd RL=0.5 (3)
MTCA Method B Non-Cancer Cleanup Level (1)					na	na	na	na	na	na	na	na
MTCA Method B Cancer Cleanup Level (1)					1.37	137	1.37	13.7	0.137	1.37	0.137	0.137
TEE Cleanup Level (2)					na	na	na	na	300	na	na	300
(units in mg/kg)												
TP-1-R	Riley Group	7/17/2000	TP-1-R-1.5'	1.5	---	---	---	---	---	---	---	---
TP-2-R		7/17/2000	TP-2-R-4.5'	4.5	---	---	---	---	---	---	---	---
TP-2-R		7/17/2000	TP-2-R-5.5'	5.5	---	---	---	---	---	---	---	---
TP-3-R		7/17/2000	TP-3-R-5.5'	5.5	---	---	---	---	---	---	---	---
TP-4-R		7/17/2000	TP-4-R-2'	2	---	---	---	---	---	---	---	---
B1-R	Riley Group	8/3/2000	B-1-R-6	14-14.5	**2.40**	**3.40**	**1.00**	**0.800**	**0.910**	**0.310**	**0.0960**	**1.405**
B2-R		8/3/2000	B-2-R-1	2.5-4.0	---	---	---	---	---	---	---	---
B3-R		8/3/2000	B-3-R-3	12.5-14	---	---	---	---	---	---	---	---
B4-R		8/3/2000	B-4-R-3	10-11.5	---	---	---	---	---	---	---	---
B1	Farallon	3/13/2002	B1-0-3	0-3	**0.430**	**0.520**	**0.390**	**0.340**	**0.380**	**0.230**	<0.09	**0.529**
B2		3/13/2002	B2-0-3	0-3	---	---	---	---	---	---	---	---
B3		3/13/2002	B3-0-3	0-3	---	---	---	---	---	---	---	---
B4 (TP-B4)		3/13/2002	B4-0-3	0-3	---	---	---	---	---	---	---	---
B4		3/13/2002	B4-3-6	3-6	---	---	---	---	---	---	---	---
B5 (TP-B5)		3/13/2002	B5-3-4	3-4	---	---	---	---	---	---	---	---
B5		3/13/2002	B5-6-9	6-9	---	---	---	---	---	---	---	---
B6		3/13/2002	B6-0-3	0-3	---	---	---	---	---	---	---	---
B7 (TP-B7)		3/13/2002	B7-2-4	2-4	**0.170**	**0.290**	**0.190**	**0.130**	**0.150**	**0.093**	<0.04	**0.213**
B7		3/13/2002	B7-6-7.5	6-7.5	---	---	---	---	---	---	---	---
B8		3/13/2002	B8-2-3	2-3	**0.250**	**0.450**	**0.360**	**0.230**	**0.370**	**0.260**	**0.087**	**0.493**
B9		3/13/2002	B9-1.5-2	1.5-2	---	---	---	---	---	---	---	---
B10	Farallon	3/13/2002	B10-1-3	1-3	---	---	---	---	---	---	---	---
B11		3/14/2002	B11-0-3	0-3	---	---	---	---	---	---	---	---
B12 (TP-B12)		3/14/2002	B12-0-1	0-1	---	---	---	---	---	---	---	---
B13		3/13/2002	B13-0-3	0-3	---	---	---	---	---	---	---	---
B14		3/13/2002	B14-2-3	2-3	**0.018**	**0.031**	**0.031**	**0.024**	**0.012**	**0.013**	<0.09	**0.025**
B15		3/14/2002	B15-0-3	0-3	---	---	---	---	---	---	---	---
B16		3/14/2002	B16-0-1.5	0-1.5	---	---	---	---	---	---	---	---
B17		3/14/2002	B17-0-3	0-3	---	---	---	---	---	---	---	---
B18		3/14/2002	B18-0-3	0-3	---	---	---	---	---	---	---	---
B19		3/13/2002	B19-1.5-3	1.5-3	**0.051**	**0.100**	**0.056**	**0.029**	**0.043**	**0.028**	**0.011**	**0.061**
MW1	Farallon	3/18/2002	MW1-3-4.5	3-4.5	---	---	---	---	---	---	---	---
		3/18/2002	MW1-5-6.5	5-6.5	---	---	---	---	---	---	---	---
		3/18/2002	MW1-7.5-9	7.5-9	---	---	---	---	---	---	---	---
MW2		3/18/2002	MW2-2-4	2-4	---	---	---	---	---	---	---	---
MW3		3/18/2002	MW3-2.5-4	2.5-4	---	---	---	---	---	---	---	---
SB-1N	Farallon	1/8/2004	SB-1N	5-8	---	---	---	---	---	---	---	---
SB-3N		1/8/2004	SB-3N	8-12	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	**0.008**
SB-3S		1/9/2008	SB-3S	6-8	---	---	---	---	---	---	---	---
SB-4S		1/9/2008	SB-4S	6-8	---	---	---	---	---	---	---	---
MW-1D	Pacific Crest	6/2/2008	MW1D-5-6.0	5-6	**0.095**	**0.130**	**0.130**	**0.130**	**0.140**	**0.100**	**0.031**	**0.190**
MW-2D		6/2/2008	MW2D-6-6.5	6-6.5	**0.600**	**0.620**	**0.570**	**0.660**	**0.710**	**0.420**	**0.160**	**0.957**
MW-3D		5/30/2008	MW3D-8	8	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	**0.006**
MW-4D		5/30/2008	MW4D-6.5	6.5	<0.0069	<0.0069	<0.0069	<0.0069	<0.0069	<0.0069	<0.0069	**0.005**
MW05	G-Logics	10/19/2015	MW05-03-20151019	3	---	---	---	---	---	---	---	---
		10/19/2015	MW05-06-20151019	6	**0.461**	**0.908**	**0.926**	**0.225**	**0.648**	**0.294**	**0.129**	**0.861**
		10/19/2015	MW05-10-20151019	10	<0.512 D	<0.512 D	**0.797 D**	<0.512 D	<0.512 D	<0.512 D	<0.512 D	**0.441**
		10/19/2015	MW05-13-20151019	13	<0.0626	<0.0626	<0.0626	<0.0626	<0.0626	<0.0626	<0.0626	**0.047**
		10/19/2015	MW05-20-20151019	20	---	---	---	---	---	---	---	---

TABLE 1-5
Soil Sample Analyses, Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	TEQ, nd RL*0.5 (3)
MTCA Method B Non-Cancer Cleanup Level (1)					na	na	na	na	na	na	na	na
MTCA Method B Cancer Cleanup Level (1)					1.37	137	1.37	13.7	0.137	1.37	0.137	0.137
TEE Cleanup Level (2)					na	na	na	na	300	na	na	300
(units in mg/kg)												
MW06	G-Logics	10/21/2015	MW06-03-20151021	3	---	---	---	---	---	---	---	---
		10/21/2015	MW06-06-20151021	6	<0.947 D	**0.792 JD**	**0.803 JD**	**0.130 JD**	**0.249 JD**	**0.218 JD**	<0.947 D	**0.467**
		10/21/2015	MW06-11-20151021	11	<0.0660	<0.0660	<0.0660	<0.0660	<0.0660	<0.0660	<0.0660	**0.050**
		10/21/2015	MW06-14-20151021	14	<0.0584	<0.0584	<0.0584	<0.0584	<0.0584	<0.0584	<0.0584	**0.044**
		10/21/2015	MW06-20-20151021	20	---	---	---	---	---	---	---	---
MW07	G-Logics	10/20/2015	MW07-04-20151020	4	**0.165**	**0.217**	**0.188**	**0.112**	**0.213**	**0.107**	<0.0550	**0.275**
		10/20/2015	MW07-08-20151020	8	<0.0568	<0.0568	<0.0568	<0.0568	<0.0568	<0.0568	<0.0568	**0.043**
		10/20/2015	MW07-13-20151020	13	<0.0641	<0.0641	<0.0641	<0.0641	<0.0641	<0.0641	<0.0641	**0.048**
		10/20/2015	MW07-18-20151020	18	---	---	---	---	---	---	---	---
MW08	G-Logics	10/20/2015	MW08-06-20151020	6	**0.119**	**0.120**	**0.128**	<0.0521	**0.977**	<0.0521	<0.0521	**1.011**
		10/20/2015	MW08-08-20151020	8	**0.766**	**0.720**	**0.671**	**0.297**	**0.555**	**0.187**	**0.0657**	**0.761**
		10/20/2015	MW08-11-20151020	11	---	---	---	---	---	---	---	---
		10/20/2015	MW08-15-20151020	15	<0.0578	<0.0578	0.062	<0.0578	<0.0578	<0.0578	<0.0578	**0.047**
		10/20/2015	MW08-21-20151020	21	---	---	---	---	---	---	---	---
MW09	G-Logics	10/22/2015	MW09-05-20151022	5	---	---	---	---	---	---	---	---
		10/22/2015	MW09-08-20151022	8	<0.0665	<0.0665	<0.0665	<0.0665	<0.0665	<0.0665	<0.0665	**0.050**
		10/22/2015	MW09-13-20151022	13	<0.0592	<0.0592	<0.0592	<0.0592	<0.0592	<0.0592	<0.0592	**0.045**
		10/22/2015	MW09-16-20151022	16	<0.0639	<0.0639	<0.0639	<0.0639	<0.0639	<0.0639	<0.0639	**0.048**
		10/22/2015	MW09-20-20151022	20	---	---	---	---	---	---	---	---
MW09D	G-Logics	10/22/2015	MW09D-05-20151022	5	<0.0488	<0.0488	<0.0488	<0.0488	<0.0488	<0.0488	<0.0488	**0.037**
		10/22/2015	MW09D-10-20151022	10	---	---	---	---	---	---	---	---
		10/22/2015	MW09D-14-20151022	14	<0.0605	<0.0605	<0.0605	<0.0605	<0.0605	<0.0605	<0.0605	**0.046**
		10/22/2015	MW09D-18-20151022	18	<0.0626	<0.0626	<0.0626	<0.0626	<0.0626	<0.0626	<0.0626	**0.047**
		10/22/2015	MW09D-23-20151022	23	---	---	---	---	---	---	---	---
		10/22/2015	MW09D-26-20151022	26	---	---	---	---	---	---	---	---
		10/22/2015	MW09D-31-20151022	31	---	---	---	---	---	---	---	---
MW10	G-Logics	10/22/2015	MW10-06-20151022	6	<0.0440	<0.0440	<0.0440	<0.0440	<0.0440	<0.0440	<0.0440	**0.033**
		10/22/2015	MW10-10-20151022	10	---	---	---	---	---	---	---	---
		10/22/2015	MW10-16-20151022	16	<0.0674	<0.0674	<0.0674	<0.0674	<0.0674	<0.0674	<0.0674	**0.051**
		10/22/2015	MW10-18-20151022	18	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	<0.0714	**0.054**
MW10D	G-Logics	10/22/2015	MW10D-04-20151022	4	---	---	---	---	---	---	---	---
		10/22/2015	MW10D-06-20151022	6	<0.0489	<0.0489	<0.0489	<0.0489	<0.0489	<0.0489	<0.0489	**0.037**
		10/22/2015	MW10D-13-20151022	13	<0.0660	<0.0660	<0.0660	<0.0660	<0.0660	<0.0660	<0.0660	**0.050**
		10/22/2015	MW10D-18-20151022	18	<0.0604	<0.0604	<0.0604	<0.0604	<0.0604	<0.0604	<0.0604	**0.046**
		10/22/2015	MW10D-24-20151022	24	---	---	---	---	---	---	---	---
		10/22/2015	MW10D-28-20151022	28	---	---	---	---	---	---	---	---
		10/22/2015	MW10D-31-20151022	31	---	---	---	---	---	---	---	---
MW11	G-Logics	10/20/2015	MW11-06-20151020	6	<0.0599	<0.0599	<0.0599	<0.0599	<0.0599	<0.0599	<0.0599	**0.045**
		10/20/2015	MW11-11-20151020	11	<0.0639 JU	<0.0639 JU	<0.0639 JU	<0.0639 JU	<0.0639 JU	<0.0639	<0.0639	**0.048**
		10/20/2015	MW11-16-20151020	16	<0.0688	<0.0688	<0.0688	<0.0688	<0.0688	<0.0688	<0.0688	**0.052**
		10/20/2015	MW11-20-20151020	20	---	---	---	---	---	---	---	---
MW12	G-Logics	10/20/2015	MW12-04-20151020	4	---	---	---	---	---	---	---	---
		10/20/2015	MW12-06-20151020	6	**1.02**	**1.37**	**1.46**	**0.554**	**1.06**	**0.524**	**0.182**	**1.448**
		10/20/2015	MW12-11-20151020	11	**0.433 JD**	**0.180 JD**	**2.209 JD**	**0.0715 JD**	**0.522 JD**	**0.608 JD**	<2.910 D	**8.144**
		10/20/2015	MW12-16-20151020	16	<0.0613	<0.0613	<0.0613	<0.0613	<0.0613	<0.0613	<0.0613	**0.046**
MW12D	G-Logics	10/19/2015	MW12D-04-20151019	4	---	---	---	---	---	---	---	---
		10/19/2015	MW12D-08-20151019	8	<0.0505	<0.0505	<0.0505	<0.0505	<0.0505	<0.0505	<0.0505	**0.038**
		10/19/2015	MW12D-10-20151019	10	---	---	---	---	---	---	---	---
		10/19/2015	MW12D-11-20151019	11	---	---	---	---	---	---	---	---
		10/19/2015	MW12D-14-20151019	14	<0.0664	<0.0664	<0.0664	<0.0664	<0.0664	<0.0664	<0.0664	**0.050**
		10/19/2015	MW12D-16-20151019	16	<0.0625	<0.0625	<0.0625	<0.0625	<0.0625	<0.0625	<0.0625	**0.047**
		10/19/2015	MW12D-23-20151019	23	---	---	---	---	---	---	---	---
		10/19/2015	MW12D-31-20151019	31	---	---	---	---	---	---	---	---

TABLE 1-5
Soil Sample Analyses, Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracene	TEQ, nd RL*0.5 (3)
MTCA Method B Non-Cancer Cleanup Level (1)					na	na	na	na	na	na	na	na
MTCA Method B Cancer Cleanup Level (1)					1.37	137	1.37	13.7	0.137	1.37	0.137	0.137
TEE Cleanup Level (2)					na	na	na	na	300	na	na	300
(units in mg/kg)												
MW13	G-Logics	10/21/2015	MW13-04-20151021	4	<0.0478	<0.0478	<0.0478	<0.0478	<0.0478	<0.0478	<0.0478	**0.036**
		10/21/2015	MW13-10-20151021	10	<0.0720	<0.0720	<0.0720	<0.0720	<0.0720	<0.0720	<0.0720	**0.054**
		10/21/2015	MW13-13-20151021	13	---	---	---	---	---	---	---	---
		10/21/2015	MW13-18-20151021	18	<0.0591	<0.0591	<0.0591	<0.0591	<0.0591	<0.0591	<0.0591	**0.045**
		10/21/2015	MW13-21-20151021	21	---	---	---	---	---	---	---	---
MW14	G-Logics	10/21/2015	MW14-03-20151021	3	---	---	---	---	---	---	---	---
		10/21/2015	MW14-06-20151021	6	<0.0543	<0.0543	**0.0689**	<0.0543	<0.0543	<0.0543	<0.0543	**0.045**
		10/21/2015	MW14-11-20151021	11	**0.109**	**0.114**	**0.154**	<0.0666	**0.095**	<0.0666	<0.0666	**0.133**
		10/21/2015	MW14-13-20151021	13	<1.570 D	**0.667 JD**	**1.435 JD**	**0.190 JD**	**2.05 D**	**0.382 JD**	**0.414 JD**	**2.377**
		10/21/2015	MW14-16-20151021	16	---	---	---	---	---	---	---	---
		10/21/2015	MW14-20-20151021	20	<0.0605	<0.0605	**0.0863**	<0.0605	<0.0605	<0.0605	<0.0605	**0.051**
MW15	G-Logics	10/21/2015	MW15-06-20151021	6	<0.0518	<0.0518	<0.0518	<0.0518	<0.0518	<0.0518	<0.0518	**0.039**
		10/21/2015	MW15-11-20151021	11	<0.0652	<0.0652	<0.0652	<0.0652	<0.0652	<0.0652	<0.0652	**0.049**
		10/21/2015	MW15-15-20151021	15	<0.0599	<0.0599	<0.0599	<0.0599	<0.0599	<0.0599	<0.0599	**0.045**
		10/21/2015	MW15-20-20151021	20	---	---	---	---	---	---	---	---
MW16	G-Logics	10/19/2015	MW16-03-20151019	3	---	---	---	---	---	---	---	---
		10/19/2015	MW16-06-20151019	6	---	---	---	---	---	---	---	---
		10/19/2015	MW16-10-20151019	10	<0.0558	**0.0863**	**0.0970**	<0.0558	**0.0755**	<0.0558	<0.0558	**0.097**
		10/19/2015	MW16-13-20151019	13	**0.734**	**0.451**	**0.335**	**0.139**	**0.227**	<0.0525	<0.0525	**0.358**
		10/19/2015	MW16-15-20151019	15	**2.14**	**2.24**	**1.62**	**0.677**	**1.50**	**0.485**	**0.218**	**2.036**
		10/19/2015	MW16-18-20151019	18	<0.0579	<0.0579	<0.0579	<0.0579	<0.0579	<0.0579	<0.0579	**0.043**
		10/19/2015	MW16-20-20151019	20	---	---	---	---	---	---	---	---
GLB01	G-Logics	3/29/2016	GLB01-07-20160328	7	**2.86**	**3.20**	**5.33**	**3.75**	**2.64**	**1.07**	**0.487**	**4.022**
		3/29/2016	GLB01-12-20160328	12	---	---	---	---	---	---	---	---
		3/29/2016	GLB01-14-20160328	14	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	**0.017**
		3/29/2016	GLB01-20-20160328	20	<0.0246	<0.0246	<0.0246	<0.0246	<0.0246	<0.0246	<0.0246	**0.019**
GLB02	G-Logics	3/28/2016	GLB02-03-20160328	3	**0.0534**	**0.0635**	**0.122**	**0.0736**	**0.0611**	**0.0245**	<0.0210	**0.090**
		3/28/2016	GLB02-08-20160328	8	**0.149**	**0.0213**	**0.200**	**0.115**	**0.0979**	<0.0211	<0.0211	**0.147**
		3/28/2016	GLB02-14-20160328	14	---	---	---	---	---	---	---	---
		3/28/2016	GLB02-17-20160328	17	**0.115**	**0.0827**	**0.185**	**0.108**	**0.0956**	**0.0337**	<0.0232	**0.142**
		3/28/2016	GLB02-20-20160328	20	**0.0381**	**0.0461**	**0.0529**	**0.0369**	**0.0455**	<0.0209	<0.0209	**0.080**
GLB03	G-Logics	3/28/2016	GLB03-04-20160328	4	---	---	---	---	---	---	---	---
		3/28/2016	GLB03-08-20160328	8	**24.4 D**	**22.1 D**	**26.1 D**	**14.7 D**	**20.6 D**	**9.20 D**	**1.865 JD**	**28.448**
		3/28/2016	GLB03-17-20160328	17	**0.0313**	<0.0246	**0.0297**	**0.0315**	<0.0246	<0.0246	<0.0246	**0.024**
		3/28/2016	GLB03-20-20160328	20	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	**0.017**
GLB04	G-Logics	3/28/2016	GLB04-04-20160328	4	<0.0226	<0.0226	<0.0226	<0.0226	**0.03**	<0.0226	<0.0226	**0.038**
		3/28/2016	GLB04-07-20160328	7	**1.60**	**1.34**	**2.24**	**1.37**	**0.878**	**0.331**	**0.163**	**1.462**
		3/28/2016	GLB04-12-20160328	12	**0.288**	**0.191**	**0.465**	**0.260**	**0.244**	**0.0895**	<0.0235	**0.357**
		3/28/2016	GLB04-16-20160328	16	<0.0243	<0.0243	<0.0243	<0.0243	<0.0243	<0.0243	<0.0243	**0.018**
		3/28/2016	GLB04-20-20160328	20	---	---	---	---	---	---	---	---
GLB05	G-Logics	3/28/2016	GLB05-04-20160328	4	**0.0615**	**0.0941**	**0.160**	**0.0937**	**0.137**	**0.0233**	<0.0208	**0.173**
		3/28/2016	GLB05-08-20160328	8	---	---	---	---	---	---	---	---
		3/28/2016	GLB05-12-20160328	12	<0.0258	<0.0258	<0.0258	<0.0258	**0.0494**	<0.0258	<0.0258	**0.056**
		3/28/2016	GLB05-16-20160328	16	---	---	---	---	---	---	---	---
		3/28/2016	GLB05-20-20160328	20	<0.0246	<0.0246	<0.0246	<0.0246	<0.0246	<0.0246	<0.0246	**0.019**
GLB06	G-Logics	3/29/2016	GLB06-04-20160328	4	**0.589**	**0.465**	**0.730**	**0.409**	**0.424**	**0.0349**	**0.0302**	**0.608**
		3/29/2016	GLB06-07-20160328	7	---	---	---	---	---	---	---	---
		3/29/2016	GLB06-09-20160328	9	**0.133**	**0.101**	**0.116**	**0.0706**	**0.110**	<0.0220	<0.0220	**0.145**
		3/29/2016	GLB06-14-20160328	14	<0.0244	<0.0244	<0.0244	<0.0244	**0.0678**	<0.0244	<0.0244	**0.074**
		3/29/2016	GLB06-20-20160328	20	---	---	---	---	---	---	---	---
GLB07	G-Logics	3/28/2016	GLB07-04-20160328	4	---	---	---	---	---	---	---	---
		3/28/2016	GLB07-08-20160328	8	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	**0.016**
		3/28/2016	GLB07-15-20160328	15	**0.0463**	**0.0610**	**0.0485**	**0.0368**	**0.0403**	<0.0258	<0.0258	**0.057**
		3/28/2016	GLB07-19-20160328	19	<0.0256	<0.0256	<0.0256	<0.0256	**0.0306**	<0.0256	<0.0256	**0.037**

TABLE 1-5
Soil Sample Analyses, Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	TEQ, nd RL*0.5 (3)
MTCA Method B Non-Cancer Cleanup Level (1)					na	na	na	na	na	na	na	na
MTCA Method B Cancer Cleanup Level (1)					1.37	137	1.37	13.7	0.137	1.37	0.137	0.137
TEE Cleanup Level (2)					na	na	na	na	300	na	na	300
(units in mg/kg)												
GLB08	G-Logics	3/28/2016	GLB08-08-20160328	8	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	**0.017**
		3/28/2016	GLB08-12-20160328	12	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	**0.019**
		3/28/2016	GLB08-16-20160328	16	---	---	---	---	---	---	---	---
		3/28/2016	GLB08-20-20160328	20	<0.0237	<0.0237	<0.0237	<0.0237	<0.0237	<0.0237	<0.0237	**0.018**
GLB09	G-Logics	3/29/2016	GLB09-03-20160328	3	**0.0345**	**0.0229**	<0.0199	<0.0199	<0.0199	<0.0199	<0.0199	**0.018**
		3/29/2016	GLB09-08-20160328	8	---	---	---	---	---	---	---	---
		3/29/2016	GLB09-14-20160328	14	<0.0257	<0.0257	<0.0257	<0.0257	**0.0374**	<0.0257	<0.0257	**0.044**
		3/29/2016	GLB09-20-20160328	20	<0.0246	<0.0246	<0.0246	<0.0246	**0.0266**	<0.0246	<0.0246	**0.033**
GLB10	G-Logics	3/29/2016	GLB10-04-20160328	4	**0.0562**	**0.0612**	**0.145**	**0.0854**	**0.0799**	**0.0356**	<0.0221	**0.114**
		3/29/2016	GLB10-08-20160328	8	**0.0401**	**0.0544**	**0.0673**	**0.0441**	**0.0358**	<0.0200	<0.0200	**0.053**
GLB11	G-Logics	3/28/2016	GLB11-06-20160328	6	**0.899**	**0.820**	**1.78**	**1.06**	**0.888**	**0.0840**	**0.0974**	**1.288**
		3/28/2016	GLB11-12-20160328	12	---	---	---	---	---	---	---	---
		3/28/2016	GLB11-15-20160328	15	<0.0251	<0.0251	<0.0251	<0.0251	<0.0251	<0.0251	<0.0251	**0.019**
		3/28/2016	GLB11-20-20160328	20	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	**0.017**
GLB12	G-Logics	3/29/2016	GLB12-04-20160328	4	**0.0419**	**0.0271**	**0.0633**	**0.0425**	**0.0404**	<0.0213	<0.0213	**0.058**
		3/29/2016	GLB12-06-20160328	6	---	---	---	---	---	---	---	---
		3/29/2016	GLB12-10-20160328	10	---	---	---	---	---	---	---	---
		3/29/2016	GLB12-14-20160328	14	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	**0.019**
		3/29/2016	GLB12-20-20160328	20	<0.0230	<0.0230	<0.0230	<0.0230	<0.0230	<0.0230	<0.0230	**0.017**
GLB13	G-Logics	3/28/2016	GLB13-01-20160328	1	**0.0439**	**0.0395**	**0.0446**	**0.0340**	**0.0371**	<0.0242	<0.0242	**0.052**
		3/28/2016	GLB13-04-20160328	4	**0.0626**	**0.0569**	**0.112**	**0.0674**	**0.0921**	**0.0496**	**0.0207**	**0.124**
		3/28/2016	GLB13-12-20160328	12	<0.0249	<0.0249	<0.0249	<0.0249	<0.0249	<0.0249	<0.0249	**0.019**
GLB14	G-Logics	3/29/2016	GLB14-02-20160328	2	<0.0213	<0.0213	<0.0213	<0.0213	<0.0213	<0.0213	<0.0213	**0.016**
		3/29/2016	GLB14-06-20160328	6	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	**0.017**
		3/29/2016	GLB14-12-20160328	12	<0.0237	<0.0237	<0.0237	<0.0237	<0.0237	<0.0237	<0.0237	**0.018**
		3/29/2016	GLB14-15-20160328	15	---	---	---	---	---	---	---	---
		3/29/2016	GLB14-20-20160328	20	---	---	---	---	---	---	---	---

Notes:
Refer to site diagram(s) for sampling locations.
See Table 1-1 for Details Regarding ARARs used for Soil Screening Criteria.
(1) Direct Contact, Method B Non-Cancer and Cancer Cleanup Levels, Based on Ecology "Cleanup Levels and Risk Calculation (CLARC)" Website, Accessed July 2017
(2) Terrestrial Ecological Evaluation, Industrial or Commercial Cleanup Levels Based on MTCA Table 749-2
(3) Analytical Results for Each Individual cPAH is Multiplied by the Toxicity Equivalency Fraction (TEF) and then added together to produce a Toxicity Equivalency Quotient (TEQ).
When Analytical Results are Less Than Reporting Limits, Half of the Reporting Limit is Used for the Calculation.
na Cleanup Level Not Available
dup Blind Field Duplicate
--- Not Analyzed/No Data
nd Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified
<50.0 Not Detected at Specified Laboratory Reporting Limit
<49.9 Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level
250 Bold Number(s) Indicates Contaminant Detected.
1,440 Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level
1.70 Bold Number(s) and Purple Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level, but is Not a Final COPC
D Dilution Required
U Not Detected Above the Reported Sample Quantitation Limit
J Estimated Concentration, Analyte Detected Below Reporting Limit

TABLE 1-6
Soil Sample Analyses, Petroleum Hydrocarbons and Benzene
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	Gasoline Range Organics	Diesel Range Organics	Heavy Oil Range Organics	Benzene
MTCA Method A Cleanup Level (1)					30/100 (a)	2,000	2,000	320
MTCA Method B Non-Cancer Cleanup Level (2)					na	na	na	320
MTCA Method B Cancer Cleanup Level (2)					na	na	na	18.2
TEE Cleanup Level (3)					12,000	na	na	na
(units in mg/kg)								
TP-1-R	Riley Group	7/17/2000	TP-1-R-1.5'	1.5	<28	<28	**1,600**	---
TP-2-R		7/17/2000	TP-2-R-4.5'	4.5	---	---	---	---
TP-2-R		7/17/2000	TP-2-R-5.5'	5.5	<32	<64	<130	---
TP-3-R		7/17/2000	TP-3-R-5.5'	5.5	<29	<29	**1,400**	---
TP-4-R		7/17/2000	TP-4-R-2'	2	<31	<31	**1,600**	---
B1-R	Riley Group	8/3/2000	B-1-R-6	14-14.5	---	**210**	**440**	---
B2-R		8/3/2000	B-2-R-1	2.5-4.0	---	**460**	**1,400**	---
B3-R		8/3/2000	B-3-R-3	12.5-14	---	**5,100**	**21,000**	---
B4-R		8/3/2000	B-4-R-3	10-11.5	---	<27	<75	---
B1	Farallon	3/13/2002	B1-0-3	0-3	---	<140	**850**	---
B2		3/13/2002	B2-0-3	0-3	---	<130	**720**	---
B3		3/13/2002	B3-0-3	0-3	---	**350**	**1,800**	---
B4 (TP-B4)		3/13/2002	B4-0-3	0-3	---	**730**	**3,700**	---
B4		3/13/2002	B4-3-6	3-6	---	<26	<52	---
B5 (TP-B5)		3/13/2002	B5-3-4	3-4	---	**4,800**	**10,000**	---
B5		3/13/2002	B5-6-9	6-9	---	<140	**570**	---
B6		3/13/2002	B6-0-3	0-3	---	<27	**100**	---
B7 (TP-B7)		3/13/2002	B7-2-4	2-4	---	<140	**3,700**	---
B7		3/13/2002	B7-6-7.5	6-7.5	---	<27	**540**	---
B8		3/13/2002	B8-2-3	2-3	---	<28	**1,800**	---
B9		3/13/2002	B9-1.5-2	1.5-2	---	<26	**160**	---
B10		3/13/2002	B10-1-3	1-3	---	<27	<56	---
B11		3/14/2002	B11-0-3	0-3	---	<28	<53	---
B12 (TP-B12)		3/14/2002	B12-0-1	0-1	---	<27	<55	---
B13		3/13/2002	B13-0-3	0-3	---	<28	**580**	---
B14		3/13/2002	B14-2-3	2-3	---	<27	**82**	---
B15		3/14/2002	B15-0-3	0-3	---	**97**	**390**	---
B16		3/14/2002	B16-0-1.5	0-1.5	---	<29	**790**	---
B17		3/14/2002	B17-0-3	0-3	---	<26	**270**	---
B18		3/14/2002	B18-0-3	0-3	---	<28	**820**	---
B19		3/13/2002	B19-1.5-3	1.5-3	---	**180**	**810**	---
MW1	Farallon	3/18/2002	MW1-3-4.5	3-4.5	---	<29	**120**	---
		3/18/2002	MW1-5-6.5	5-6.5	---	<27	<54	---
		3/18/2002	MW1-7.5-9	7.5-9	---	<36	<71	---
MW2		3/18/2002	MW2-2-4	2-4	---	<31	**1,400**	---
MW3		3/18/2002	MW3-2.5-4	2.5-4	---	<28	**160**	---
SB-1N	Farallon	1/8/2004	SB-1N	5-8	---	<27	<53	---
SB-3N		1/8/2004	SB-3N	8-12	---	<34	**410**	---
SB-3S		1/9/2008	SB-3S	6-8	---	<32	<64	---
SB-4S		1/9/2008	SB-4S	6-8	---	<40	<79	---
MW-1D	Pacific Crest	6/2/2008	MW1D-5-6.0	5-6	<6.7	<42	**310**	---
MW-2D		6/2/2008	MW2D-6-6.5	6-6.5	<5.5	**53**	**110**	---
MW-3D		5/30/2008	MW3D-8	8	<6.2	<30	<60	---
MW-4D		5/30/2008	MW4D-6.5	6.5	<5.4	<28	<52	---
MW05	G-Logics	10/19/2015	MW05-03-20151019	3	---	---	---	---
		10/19/2015	MW05-06-20151019	6	**26.2**	<22.7	**1,950**	<0.0206
		10/19/2015	MW05-10-20151019	10	**18.7**	<21.9	**851**	<0.0189
		10/19/2015	MW05-13-20151019	13	<6.88	<25.0	<62.4	<0.0275
		10/19/2015	MW05-20-20151019	20	---	---	---	---

TABLE 1-6
Soil Sample Analyses, Petroleum Hydrocarbons and Benzene
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	Gasoline Range Organics	Diesel Range Organics	Heavy Oil Range Organics	Benzene
MTCA Method A Cleanup Level (1)					30/100 (a)	2,000	2,000	320
MTCA Method B Non-Cancer Cleanup Level (2)					na	na	na	320
MTCA Method B Cancer Cleanup Level (2)					na	na	na	18.2
TEE Cleanup Level (3)					12,000	na	na	na
(units in mg/kg)								
MW06	G-Logics	10/21/2015	MW06-03-20151021	3	---	---	---	---
		10/21/2015	MW06-06-20151021	6	<5.86	<18.3	**4,970 D**	<0.0234
		10/21/2015	MW06-11-20151021	11	<8.02	<27.1	<67.7	<0.0321
		10/21/2015	MW06-14-20151021	14	<6.23	<22.7	<56.7	<0.0249
		10/21/2015	MW06-20-20151021	20	---	---	---	---
MW07	G-Logics	10/20/2015	MW07-04-20151020	4	<4.87	<19.3	**527**	<0.0195
		10/20/2015	MW07-08-20151020	8	<6.40	<24.6	<61.5	<0.0256
		10/20/2015	MW07-13-20151020	13	<7.84	<23.8	<59.5	<0.0314
		10/20/2015	MW07-18-20151020	18	---	---	---	---
MW08	G-Logics	10/20/2015	MW08-06-20151020	6	<5.39	<20.3	<50.8	<0.0215
		10/20/2015	MW08-08-20151020	8	<7.58	<24.5	**234**	<0.0303
		10/20/2015	MW08-11-20151020	11	---	---	---	---
		10/20/2015	MW08-15-20151020	15	<7.97	<24.5	<61.2	<0.0319
		10/20/2015	MW08-21-20151020	21	---	---	---	---
MW09	G-Logics	10/22/2015	MW09-05-20151022	5	---	---	---	---
		10/22/2015	MW09-08-20151022	8	<7.77	<26.2	<65.5	<0.0311
		10/22/2015	MW09-13-20151022	13	<6.00	<24.6	<61.5	<0.0240
		10/22/2015	MW09-16-20151022	16	<6.09	<25.9	<64.6	<0.0244
		10/22/2015	MW09-20-20151022	20	---	---	---	---
MW09D	G-Logics	10/22/2015	MW09D-05-20151022	5	<6.17	<20.2	<50.5	<0.0247
		10/22/2015	MW09D-10-20151022	10	---	---	---	---
		10/22/2015	MW09D-14-20151022	14	<5.99	<25.4	<63.5	<0.0239
		10/22/2015	MW09D-18-20151022	18	<6.13	<23.7	<59.1	<0.0245
		10/22/2015	MW09D-23-20151022	23	---	---	---	---
		10/22/2015	MW09D-26-20151022	26	---	---	---	---
		10/22/2015	MW09D-31-20151022	31	---	---	---	---
MW10	G-Logics	10/22/2015	MW10-06-20151022	6	<6.85	<20.5	<51.3	<0.0274
		10/22/2015	MW10-10-20151022	10	---	---	---	---
		10/22/2015	MW10-16-20151022	16	<6.40	<25.6	<64.1	<0.0256
		10/22/2015	MW10-18-20151022	18	<7.58	<26.4	<66.0	<0.0303
MW10D	G-Logics	10/22/2015	MW10D-04-20151022	4	---	---	---	---
		10/22/2015	MW10D-06-20151022	6	<5.98	<20.0	<49.9	<0.0239
		10/22/2015	MW10D-13-20151022	13	<7.92	<24.8	<62.0	<0.0317
		10/22/2015	MW10D-18-20151022	18	<5.87	<25.4	<63.4	<0.0235
		10/22/2015	MW10D-24-20151022	24	---	---	---	---
		10/22/2015	MW10D-28-20151022	28	---	---	---	---
		10/22/2015	MW10D-31-20151022	31	---	---	---	---
MW11	G-Logics	10/20/2015	MW11-06-20151020	6	<6.77	<23.4	<58.6	<0.0271
		10/20/2015	MW11-11-20151020	11	<6.00	<25.2	<63.1	<0.0240
		10/20/2015	MW11-16-20151020	16	<8.24	<28.4	<71.1	<0.0330
		10/20/2015	MW11-20-20151020	20	---	---	---	---
MW12	G-Logics	10/20/2015	MW12-04-20151020	4	---	---	---	---
		10/20/2015	MW12-06-20151020	6	**8.24**	<21.2	**1,800**	<0.0271
		10/20/2015	MW12-11-20151020	11	<6.34	<25.1	**753**	<0.0254
		10/20/2015	MW12-16-20151020	16	<7.40	<24.4	<60.9	<0.0296

TABLE 1-6
Soil Sample Analyses, Petroleum Hydrocarbons and Benzene
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	Gasoline Range Organics	Diesel Range Organics	Heavy Oil Range Organics	Benzene
MTCA Method A Cleanup Level (1)					30/100 (a)	2,000	2,000	320
MTCA Method B Non-Cancer Cleanup Level (2)					na	na	na	320
MTCA Method B Cancer Cleanup Level (2)					na	na	na	18.2
TEE Cleanup Level (3)					12,000	na	na	na
(units in mg/kg)								
MW12D	G-Logics	10/19/2015	MW12D-04-20151019	4	---	---	---	---
		10/19/2015	MW12D-08-20151019	8	<6.70	<21.3	<53.2	<0.0268
		10/19/2015	MW12D-10-20151019	10	---	---	---	---
		10/19/2015	MW12D-11-20151019	11	---	---	---	---
		10/19/2015	MW12D-14-20151019	14	<6.24	<26.4	<66.0	<0.0250
		10/19/2015	MW12D-16-20151019	16	<5.70	<26.2	<65.4	<0.0228
		10/19/2015	MW12D-23-20151019	23	---	---	---	---
		10/19/2015	MW12D-31-20151019	31	---	---	---	---
MW13	G-Logics	10/21/2015	MW13-04-20151021	4	<5.56	<21.0	<52.4	<0.0222
		10/21/2015	MW13-10-20151021	10	<8.50	<29.4	<73.6	<0.0340
		10/21/2015	MW13-13-20151021	13	---	---	---	---
		10/21/2015	MW13-18-20151021	18	<5.94	<23.8	<59.5	<0.0238
		10/21/2015	MW13-21-20151021	21	---	---	---	---
MW14	G-Logics	10/21/2015	MW14-03-20151021	3	---	---	---	---
		10/21/2015	MW14-06-20151021	6	<6.85	<23.3	**781**	<0.0274
		10/21/2015	MW14-11-20151021	11	---	<25.3	**346**	---
		10/21/2015	MW14-13-20151021	13	<12.1	**33**	**473**	<0.0485
		10/21/2015	MW14-16-20151021	16	---	---	---	---
		10/21/2015	MW14-20-20151021	20	<6.58	**41.6**	**301**	<0.0263
MW15	G-Logics	10/21/2015	MW15-06-20151021	6	<5.77	<20.6	<51.4	<0.0231
		10/21/2015	MW15-11-20151021	11	<9.23	<26.4	<65.9	<0.0369
		10/21/2015	MW15-15-20151021	15	<6.50	<22.1	<55.3	<0.0260
		10/21/2015	MW15-20-20151021	20	---	---	---	---
MW16	G-Logics	10/19/2015	MW16-03-20151019	3	---	---	---	---
		10/19/2015	MW16-06-20151019	6	---	---	---	---
		10/19/2015	MW16-10-20151019	10	<4.94	**1,130**	**84.2**	<0.0198
		10/19/2015	MW16-13-20151019	13	<5.53	**232**	<53.5	<0.0221
		10/19/2015	MW16-15-20151019	15	---	**92.2 J**	**1,370 J**	---
		10/19/2015	MW16-18-20151019	18	<6.48	<24.7	<61.8	<0.0259
		10/19/2015	MW16-20-20151019	20	---	---	---	---
GLB01	G-Logics	3/29/2016	GLB01-07-20160328	7	**17.8**	**31.2**	**1,540**	<0.0175
		3/29/2016	GLB01-12-20160328	12	---	---	---	---
		3/29/2016	GLB01-14-20160328	14	<5.51	<4.85	**37.2 J**	<0.0220
		3/29/2016	GLB01-20-20160328	20	<7.62	<4.72	**53.7 J**	<0.0305
GLB02	G-Logics	3/28/2016	GLB02-03-20160328	3	<7.20	**20.9**	**253**	<0.0288
		3/28/2016	GLB02-08-20160328	8	**28.7**	<4.52	**2,770 D**	<0.0234
		3/28/2016	GLB02-14-20160328	14	---	---	---	---
		3/28/2016	GLB02-17-20160328	17	**8.24**	<4.67	**847**	<0.0232
		3/28/2016	GLB02-20-20160328	20	<5.12	<4.14	**732**	<0.0205
GLB03	G-Logics	3/28/2016	GLB03-04-20160328	4	---	---	---	---
		3/28/2016	GLB03-08-20160328	8	<7.90	<3.85	**1,100**	<0.0316
		3/28/2016	GLB03-17-20160328	17	<6.37	<5.17	**26.4 J**	<0.0255
		3/28/2016	GLB03-20-20160328	20	<5.72	<4.78	<6.98	<0.0229
GLB04	G-Logics	3/28/2016	GLB04-04-20160328	4	**15.2**	<4.78	<6.99	**0.0299**
		3/28/2016	GLB04-07-20160328	7	**365 D**	**1,520**	**6,260 D**	<0.0258
		3/28/2016	GLB04-12-20160328	12	**9.23**	**108**	**2,190**	<0.0214
		3/28/2016	GLB04-16-20160328	16	<6.82	**8.75 J**	**314**	<0.0273
		3/28/2016	GLB04-20-20160328	20	---	---	---	---

TABLE 1-6
Soil Sample Analyses, Petroleum Hydrocarbons and Benzene
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	Gasoline Range Organics	Diesel Range Organics	Heavy Oil Range Organics	Benzene
MTCA Method A Cleanup Level (1)					30/100 (a)	2,000	2,000	320
MTCA Method B Non-Cancer Cleanup Level (2)					na	na	na	320
MTCA Method B Cancer Cleanup Level (2)					na	na	na	18.2
TEE Cleanup Level (3)					12,000	na	na	na
(units in mg/kg)								
GLB05	G-Logics	3/28/2016	GLB05-04-20160328	4	**131**	**49.5**	**507**	<0.0266
		3/28/2016	GLB05-08-20160328	8	---	---	---	---
		3/28/2016	GLB05-12-20160328	12	<7.28	<5.06	<7.39	<0.0291
		3/28/2016	GLB05-16-20160328	16	---	---	---	---
		3/28/2016	GLB05-20-20160328	20	<7.10	<4.71	<6.88	<0.0284
GLB06	G-Logics	3/29/2016	GLB06-04-20160328	4	**7.34 J**	<4.55	<6.65	<0.0272
		3/29/2016	GLB06-07-20160328	7	---	---	---	---
		3/29/2016	GLB06-09-20160328	9	**10.1**	<4.42	**12.8 J**	**0.0627**
		3/29/2016	GLB06-14-20160328	14	<5.74	<5.25	<7.68	<0.0230
		3/29/2016	GLB06-20-20160328	20	---	---	---	---
GLB07	G-Logics	3/28/2016	GLB07-04-20160328	4	---	---	---	---
		3/28/2016	GLB07-08-20160328	8	**12.9**	<4.84	**1,840**	<0.0213
		3/28/2016	GLB07-15-20160328	15	**13.5**	<5.25	**56.7 J**	<0.0266
		3/28/2016	GLB07-19-20160328	19	**9.60**	<5.55	<8.11	<0.0288
GLB08	G-Logics	3/28/2016	GLB08-08-20160328	8	**8.45**	<4.88	<7.13	<0.0231
		3/28/2016	GLB08-12-20160328	12	<5.37	<5.02	<7.33	<0.0215
		3/28/2016	GLB08-16-20160328	16	---	---	---	---
		3/28/2016	GLB08-20-20160328	20	<6.04	<4.87	<7.11	<0.0242
GLB09	G-Logics	3/29/2016	GLB09-03-20160328	3	<6.87	<4.20	<6.14	<0.0275
		3/29/2016	GLB09-08-20160328	8	---	---	---	---
		3/29/2016	GLB09-14-20160328	14	<8.54	<5.14	<7.51	<0.0342
		3/29/2016	GLB09-20-20160328	20	<6.76	<5.03	<7.35	<0.0271
GLB10	G-Logics	3/29/2016	GLB10-04-20160328	4	**46.7**	**8.1 J**	**179**	**0.0323**
		3/29/2016	GLB10-08-20160328	8	<7	<4.08	**783**	<0.0280
GLB11	G-Logics	3/28/2016	GLB11-06-20160328	6	<5.40	**7.01 J**	**244**	<0.0216
		3/28/2016	GLB11-12-20160328	12	---	---	---	---
		3/28/2016	GLB11-15-20160328	15	<6.82	<5.34	**19.2 J**	<0.0273
		3/28/2016	GLB11-20-20160328	20	<5.44	<4.28	<6.26	<0.0218
GLB12	G-Logics	3/29/2016	GLB12-04-20160328	4	<6.5	<4.61	**42.5 J**	<0.0260
		3/29/2016	GLB12-06-20160328	6	---	---	---	---
		3/29/2016	GLB12-10-20160328	10	---	---	---	---
		3/29/2016	GLB12-14-20160328	14	<5.82	<5.10	<7.46	<0.0233
		3/29/2016	GLB12-20-20160328	20	<5.77	<4.67	<6.82	<0.0231
GLB13	G-Logics	3/28/2016	GLB13-01-20160328	1	<6.68	<5.04	**20.6 J**	<0.0267
		3/28/2016	GLB13-04-20160328	4	<4.26	**5.72 J**	**368**	<0.0170
		3/28/2016	GLB13-12-20160328	12	<6.17	<5.00	**50.8 J**	<0.0247

TABLE 1-6
Soil Sample Analyses, Petroleum Hydrocarbons and Benzene
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	Gasoline Range Organics	Diesel Range Organics	Heavy Oil Range Organics	Benzene
MTCA Method A Cleanup Level (1)					30/100 (a)	2,000	2,000	320
MTCA Method B Non-Cancer Cleanup Level (2)					na	na	na	320
MTCA Method B Cancer Cleanup Level (2)					na	na	na	18.2
TEE Cleanup Level (3)					12,000	na	na	na
(units in mg/kg)								
GLB14	G-Logics	3/29/2016	GLB14-02-20160328	2	<8.87	<4.35	**37.2 J**	<0.0355
		3/29/2016	GLB14-06-20160328	6	<6.8	<5.10	**32.5 J**	<0.0272
		3/29/2016	GLB14-12-20160328	12	<5.62	<4.97	**56.3 J**	<0.0225
		3/29/2016	GLB14-15-20160328	15	---	---	---	---
		3/29/2016	GLB14-20-20160328	20	---	---	---	---

Notes:
Refer to site diagram(s) for sampling locations.
See Table 1-1 for Details Regarding Soil Cleanup Levels and Screening Criteria.

(1) Available Method A Cleanup Levels, Based on Ecology "Cleanup Levels and Risk Calculation (CLARC)" Website, Accessed July 2017
(2) Direct Contact, Method B Non-Cancer and Cancer Cleanup Levels, Based on Ecology "Cleanup Levels and Risk Calculation (CLARC)" Website, Accessed July 2017
(3) Terrestrial Ecological Evaluation, Industrial or Commercial Cleanup Levels Based on MTCA Table 749-2
na Cleanup Level Not Available
a 30 mg/kg When Benzene is Present and 100 mg/kg When Benzene is Not Present
dup Blind Field Duplicate
--- Not Analyzed/No Data
nd Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified
<50.0 Not Detected at Specified Laboratory Reporting Limit
<49.9 Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level
250 Bold Number(s) Indicates Contaminant Detected.
1,440 Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level
1.70 Bold Number(s) and Purple Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level, but is Not a Final COPC
B Analyte Detected in Associated Method Blank
D Dilution Required
J Estimated Concentration, Analyte Detected Below Reporting Limit
Q Analyte with Initial or Continuing Calibration that does not Meet Established Acceptance Criteria
x The sample chromatographic pattern does not resemble the fuel standard used for quantitation

TABLE 1-7
Soil Sample Analyses, Volatile Organic Compounds (VOCs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	1,1,2,2-Tetrachloroethane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	4-Isopropyltoluene	Benzene	Carbon Disulfide	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methylene Chloride	n-Butylbenzene	n-Propylbenzene	Naphthalene	o-Xylene	sec-Butylbenzene	tert-Butylbenzene	Tetrachloroethene	Toluene	Trichloroethene	Other VOCs (3)
MTCA Method B Non-Cancer Cleanup Level (1)					1,600	800	na	800	na	5,600	na	320	8,000	na	8,000	8,000	16,000	480	4,000	8,000	1,600	16,000	8,000	8,000	NA	6,400	na	various
MTCA Method B Cancer Cleanup Level (1)					5.0	34.5	na	na	na	185.0	na	18.2	na	na	na	na	na	500	na	na	na	na	na	na	na	na	na	various
TEE Cleanup Level (2)					na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	various
(units in mg/kg)																												
TP-1-R	Riley Group	7/17/2000	TP-1-R-1.5'	1.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TP-2-R		7/17/2000	TP-2-R-4.5'	4.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TP-2-R		7/17/2000	TP-2-R-5.5'	5.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TP-3-R		7/17/2000	TP-3-R-5.5'	5.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TP-4-R		7/17/2000	TP-4-R-2'	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B1-R	Riley Group	8/3/2000	B-1-R-6	14-14.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B2-R		8/3/2000	B-2-R-1	2.5-4.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B3-R		8/3/2000	B-3-R-3	12.5-14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B4-R		8/3/2000	B-4-R-3	10-11.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B1	Farallon	3/13/2002	B1-0-3	0-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B2		3/13/2002	B2-0-3	0-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B3		3/13/2002	B3-0-3	0-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B4 (TP-B4)		3/13/2002	B4-0-3	0-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B4		3/13/2002	B4-3-6	3-6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B5 (TP-B5)		3/13/2002	B5-3-4	3-4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B5		3/13/2002	B5-6-9	6-9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B6		3/13/2002	B6-0-3	0-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B7 (TP-B7)		3/13/2002	B7-2-4	2-4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B7		3/13/2002	B7-6-7.5	6-7.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B8		3/13/2002	B8-2-3	2-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B9		3/13/2002	B9-1.5-2	1.5-2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B10		3/13/2002	B10-1-3	1-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B11		3/14/2002	B11-0-3	0-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B12 (TP-B12)		3/14/2002	B12-0-1	0-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B13		3/13/2002	B13-0-3	0-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B14		3/13/2002	B14-2-3	2-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B15		3/14/2002	B15-0-3	0-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B16		3/14/2002	B16-0-1.5	0-1.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B17		3/14/2002	B17-0-3	0-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B18		3/14/2002	B18-0-3	0-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B19		3/13/2002	B19-1.5-3	1.5-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW1	Farallon	3/18/2002	MW1-3-4.5	3-4.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/18/2002	MW1-5-6.5	5-6.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/18/2002	MW1-7.5-9	7.5-9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW2		3/18/2002	MW2-2-4	2-4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW3		3/18/2002	MW3-2.5-4	2.5-4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SB-1N	Farallon	1/8/2004	SB-1N	5-8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SB-3N		1/8/2004	SB-3N	8-12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SB-3S		1/9/2008	SB-3S	6-8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SB-4S		1/9/2008	SB-4S	6-8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

TABLE 1-7
Soil Sample Analyses, Volatile Organic Compounds (VOCs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	1,1,1,2-Tetrachloroethane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	4-Isopropyltoluene	Benzene	Carbon Disulfide	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methylene Chloride	n-Butylbenzene	n-Propylbenzene	Naphthalene	o-Xylene	sec-Butylbenzene	tert-Butylbenzene	Tetrachloroethene	Toluene	Trichloroethene	Other VOCs (3)
MTCA Method B Non-Cancer Cleanup Level (1)					1,600	800	na	800	na	5,600	na	320	8,000	na	8,000	8,000	16,000	480	4,000	8,000	1,600	16,000	8,000	8,000	NA	6,400	na	various
MTCA Method B Cancer Cleanup Level (1)					5.0	34.5	na	na	na	185.0	na	18.2	na	na	na	na	na	500	na	na	na	na	na	na	na	na	na	various
TEE Cleanup Level (2)					na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	various
(units in mg/kg)																												
MW-1D	Pacific Crest	6/2/2008	MW1D-5-6.0	5-6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-2D		6/2/2008	MW2D-6-6.5	6-6.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-3D		5/30/2008	MW3D-8	8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-4D		5/30/2008	MW4D-6.5	6.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW05	G-Logics	10/19/2015	MW05-03-20151019	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/19/2015	MW05-06-20151019	6	<0.0206	<0.0514	**0.0833**	**0.0215**	<0.0206	<0.0206	<0.0206	<0.0206	**0.0455**	<0.0206	**0.374**	<0.0822	**1.26**	**0.0455**	<0.0206	<0.0206	**0.108**	**0.161**	<0.0206	<0.0206	<0.0206	**0.0619**	**0.0443**	nd
		10/19/2015	MW05-10-20151019	10	<0.0189	<0.0473	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	**0.0212**	<0.0189	<0.0284	<0.0756	<0.0189	**0.0212**	<0.0189	<0.0189	<0.0284	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	nd
		10/19/2015	MW05-13-20151019	13	<0.0275	<0.0688	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0413	<0.110	<0.0275	<0.0275	<0.0275	<0.0275	<0.0413	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	nd
		10/19/2015	MW05-20-20151019	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW06	G-Logics	10/21/2015	MW06-03-20151021	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/21/2015	MW06-06-20151021	6	<0.0234	<0.0586	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0352	<0.0938	<0.0234	<0.0234	<0.0234	<0.0234	<0.0352	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	nd
		10/21/2015	MW06-11-20151021	11	<0.0321	<0.0802	<0.0321	<0.0321	<0.0321	<0.0321	<0.0321	<0.0321	<0.0321	<0.0321	<0.0481	<0.128	<0.0321	<0.0321	<0.0321	<0.0321	<0.0481	<0.0321	<0.0321	<0.0321	<0.0321	<0.0321	<0.0321	nd
		10/21/2015	MW06-14-20151021	14	<0.0249	<0.0623	<0.0249	<0.0249	<0.0249	<0.0249	<0.0249	<0.0249	<0.0249	<0.0249	<0.0374	<0.0997	<0.0249	<0.0249	<0.0249	<0.0249	<0.0374	<0.0249	<0.0249	<0.0249	<0.0249	<0.0249	<0.0249	nd
		10/21/2015	MW06-20-20151021	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW07	G-Logics	10/20/2015	MW07-04-20151020	4	<0.0195	<0.0487	**0.0248**	<0.0195	<0.0195	<0.0195	<0.0195	<0.0195	<0.0195	<0.0195	<0.0292	<0.0780	**0.0287**	<0.0195	<0.0195	<0.0195	**0.0551**	<0.0195	<0.0195	<0.0195	<0.0195	**0.0244**	<0.0195	nd
		10/20/2015	MW07-08-20151020	8	<0.0256	<0.0640	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0384	<0.102	<0.0256	<0.0256	<0.0256	<0.0256	<0.0384	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	nd
		10/20/2015	MW07-13-20151020	13	<0.0314	<0.0784	<0.0314	<0.0314	<0.0314	<0.0314	<0.0314	<0.0314	<0.0314	<0.0314	<0.0471	<0.126	**0.102**	<0.0314	<0.0314	<0.0314	<0.0471	<0.0314	<0.0314	<0.0314	<0.0314	<0.0314	<0.0314	nd
		10/20/2015	MW07-18-20151020	18	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW08	G-Logics	10/20/2015	MW08-06-20151020	6	<0.0215	<0.0539	**0.0490**	<0.0215	<0.0215	<0.0215	<0.0215	<0.0215	<0.0215	<0.0215	<0.0323	<0.0862	<0.0215	<0.0215	<0.0215	<0.0215	**0.0910**	<0.0215	<0.0215	<0.0215	<0.0215	<0.0215	<0.0215	nd
		10/20/2015	MW08-08-20151020	8	<0.0303	<0.0758	<0.0303	<0.0303	<0.0303	<0.0303	<0.0303	<0.0303	<0.0303	<0.0303	<0.0455	<0.121	<0.0303	<0.0303	<0.0303	<0.0303	**0.0455**	<0.0303	<0.0303	<0.0303	<0.0303	<0.0303	<0.0303	nd
		10/20/2015	MW08-11-20151020	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/20/2015	MW08-15-20151020	15	<0.0319	<0.797	<0.0319	<0.0319	<0.0319	<0.0319	<0.0319	<0.0319	<0.0319	<0.0319	<0.0478	<0.127	<0.0319	<0.0319	<0.0319	<0.0319	**0.0653**	<0.0319	<0.0319	<0.0319	<0.0319	<0.0319	<0.0319	nd
		10/20/2015	MW08-21-20151020	21	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW09	G-Logics	10/22/2015	MW09-05-20151022	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/22/2015	MW09-08-20151022	8	<0.0311	<0.0777	<0.0311	<0.0311	<0.0311	<0.0311	<0.0311	<0.0311	<0.0311	<0.0311	<0.0466	<0.124	<0.0311	<0.0311	<0.0311	<0.0311	<0.0466	<0.0311	<0.0311	<0.0311	<0.0311	<0.0311	<0.0311	nd
		10/22/2015	MW09-13-20151022	13	<0.0240	<0.0600	<0.0240	<0.0240	<0.0240	<0.0240	<0.0240	<0.0240	<0.0240	<0.0240	<0.0360	<0.0959	<0.0240	<0.0240	<0.0240	<0.0240	<0.0360	<0.0240	<0.0240	<0.0240	<0.0240	<0.0240	<0.0240	nd
		10/22/2015	MW09-16-20151022	16	<0.0244	<0.0609	<0.0244	<0.0244	<0.0244	<0.0244	<0.0244	<0.0244	<0.0244	<0.0244	<0.0366	<0.0975	<0.0244	<0.0244	<0.0244	<0.0244	<0.0366	<0.0244	<0.0244	<0.0244	<0.0244	<0.0244	<0.0244	nd
		10/22/2015	MW09-20-20151022	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW09D	G-Logics	10/22/2015	MW09D-05-20151022	5	<0.0247	<0.0617	<0.0247	<0.0247	<0.0247	<0.0247	<0.0247	<0.0247	<0.0247	<0.0247	<0.0370	<0.0987	<0.0247	<0.0247	<0.0247	<0.0247	<0.0370	<0.0247	<0.0247	<0.0247	<0.0247	<0.0247	<0.0247	nd
		10/22/2015	MW09D-10-20151022	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/22/2015	MW09D-14-20151022	14	<0.0239	<0.0599	<0.0239	<0.0239	<0.0239	<0.0239	<0.0239	<0.0239	<0.0239	<0.0239	<0.0359	<0.0958	<0.0239	<0.0239	<0.0239	<0.0239	<0.0359	<0.0239	<0.0239	<0.0239	<0.0239	<0.0239	<0.0239	nd
		10/22/2015	MW09D-18-20151022	18	<0.0245	<0.0613	<0.0245	<0.0245	<0.0245	<0.0245	<0.0245	<0.0245	<0.0245	<0.0245	<0.0368	<0.0980	<0.0245	<0.0245	<0.0245	<0.0245	<0.0368	<0.0245	<0.0245	<0.0245	<0.0245	<0.0245	<0.0245	nd
		10/22/2015	MW09D-23-20151022	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/22/2015	MW09D-26-20151022	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/22/2015	MW09D-31-20151022	31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW10	G-Logics	10/22/2015	MW10-06-20151022	6	<0.0274	<0.0685	<0.0274	<0.0274	<0.0274	<0.0274	<0.0274	<0.0274	<0.0274	<0.0274	<0.0411	<0.110	<0.0274	<0.0274	<0.0274	<0.0274	<0.0411	<0.0274	<0.0274	<0.0274	<0.0274	<0.0274	<0.0274	nd
		10/22/2015	MW10-10-20151022	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/22/2015	MW10-16-20151022	16	<0.0256	<0.0640	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0384	<0.102	<0.0256	<0.0256	<0.0256	<0.0256	<0.0384	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	nd
		10/22/2015	MW10-18-20151022	18	<0.0303	<0.0758	<0.0303	<0.0303	<0.0303	<0.0303	<0.0303	<0.0303	<0.0303	<0.0303	<0.0455	<0.121	<0.0303	<0.0303	<0.0303	<0.0303	<0.0455	<0.0303	<0.0303	<0.0303	<0.0303	<0.0303	<0.0303	nd

TABLE 1-7
Soil Sample Analyses, Volatile Organic Compounds (VOCs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	1,1,1,2-Tetrachloroethane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	4-Isopropyltoluene	Benzene	Carbon Disulfide	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methylene Chloride	n-Butylbenzene	n-Propylbenzene	Naphthalene	o-Xylene	sec-Butylbenzene	tert-Butylbenzene	Tetrachloroethene	Toluene	Trichloroethene	Other VOCs (3)
MTCA Method B Non-Cancer Cleanup Level (1)					1,600	800	na	800	na	5,600	na	320	8,000	na	8,000	8,000	16,000	480	4,000	8,000	1,600	16,000	8,000	8,000	NA	6,400	na	various
MTCA Method B Cancer Cleanup Level (1)					5.0	34.5	na	na	na	185.0	na	18.2	na	na	na	na	na	500	na	na	na	na	na	na	na	na	na	various
TEE Cleanup Level (2)					na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	various
(units in mg/kg)																												
MW10D	G-Logics	10/22/2015	MW10D-04-20151022	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/22/2015	MW10D-06-20151022	6	<0.0239	<0.0598	<0.0239	<0.0239	<0.0239	<0.0239	<0.0239	<0.0239	<0.0239	<0.0239	<0.0359	<0.0957	<0.0239	<0.0239	<0.0239	<0.0239	<0.0359	<0.0239	<0.0239	<0.0239	<0.0239	<0.0239	<0.0239	<0.0239	nd
		10/22/2015	MW10D-13-20151022	13	<0.0317	<0.0792	<0.0317	<0.0317	<0.0317	<0.0317	<0.0317	<0.0317	<0.0317	<0.0317	<0.0475	<0.127	<0.0317	<0.0317	<0.0317	<0.0317	<0.0475	<0.0317	<0.0317	<0.0317	<0.0317	<0.0317	<0.0317	<0.0317	nd
		10/22/2015	MW10D-18-20151022	18	<0.0235	<0.0587	<0.0235	<0.0235	<0.0235	<0.0235	<0.0235	<0.0235	<0.0235	<0.0235	<0.0352	<0.0939	<0.0235	<0.0235	<0.0235	<0.0235	<0.0352	<0.0235	<0.0235	<0.0235	<0.0235	<0.0235	<0.0235	<0.0235	nd
		10/22/2015	MW10D-24-20151022	24	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/22/2015	MW10D-28-20151022	28	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/22/2015	MW10D-31-20151022	31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW11	G-Logics	10/20/2015	MW11-06-20151020	6	<0.0271	<0.0677	<0.0271	<0.0271	<0.0271	<0.0271	<0.0271	<0.0271	<0.0271	<0.0271	<0.0406	<0.108	<0.0271	<0.0271	<0.0271	<0.0271	<0.0406	<0.0271	<0.0271	<0.0271	<0.0271	<0.0271	<0.0271	<0.0271	nd
		10/20/2015	MW11-11-20151020	11	<0.0240	<0.0600	<0.0240	<0.0240	<0.0240	<0.0240	<0.0240	<0.0240	**0.0492**	<0.0240	<0.0360	<0.0961	<0.0240	**0.0492**	<0.0240	<0.0240	<0.0360	<0.0240	<0.0240	<0.0240	<0.0240	<0.0240	<0.0240	<0.0240	nd
		10/20/2015	MW11-16-20151020	16	<0.0330	<0.0824	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	**0.0634**	<0.0330	<0.0494	<0.132	<0.0330	**0.0634**	<0.0330	<0.0330	<0.0494	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	nd
		10/20/2015	MW11-20-20151020	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW12	G-Logics	10/20/2015	MW12-04-20151020	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/20/2015	MW12-06-20151020	6	<0.0271	<0.0679	**0.0434**	<0.0271	<0.0271	<0.0271	<0.0271	<0.0271	<0.0271	**0.0665**	<0.0407	<0.109	**0.0523**	<0.0271	<0.0271	<0.0271	**1.76**	<0.0271	<0.0271	<0.0271	<0.0271	**0.859**	**0.107**	nd
		10/20/2015	MW12-11-20151020	11	<0.0254	<0.0634	<0.0254	<0.0254	<0.0254	<0.0254	<0.0254	<0.0254	<0.0254	<0.0254	<0.0380	<0.101	<0.0254	<0.0254	<0.0254	<0.0254	<0.0380	<0.0254	<0.0254	<0.0254	<0.0254	<0.0254	<0.0254	<0.0254	nd
		10/20/2015	MW12-16-20151020	16	<0.0296	<0.0740	<0.0296	<0.0296	<0.0296	<0.0296	<0.0296	<0.0296	<0.0296	<0.0296	<0.0444	<0.118	<0.0296	<0.0296	<0.0296	<0.0296	<0.0444	<0.0296	<0.0296	<0.0296	<0.0296	<0.0296	<0.0296	<0.0296	nd
MW12D	G-Logics	10/19/2015	MW12D-04-20151019	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/19/2015	MW12D-08-20151019	8	<0.0268	<0.0670	<0.0268	<0.0268	<0.0268	<0.0268	<0.0268	<0.0268	<0.0268	<0.0268	<0.0402	<0.107	<0.0268	<0.0268	<0.0268	<0.0268	<0.0402	<0.0268	<0.0268	<0.0268	<0.0268	<0.0268	<0.0268	<0.0268	nd
		10/19/2015	MW12D-10-20151019	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/19/2015	MW12D-11-20151019	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/19/2015	MW12D-14-20151019	14	<0.0250	<0.0624	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0374	<0.0999	<0.0250	<0.0250	<0.0250	<0.0250	<0.0374	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	nd
		10/19/2015	MW12D-16-20151019	16	<0.0228	<0.0570	<0.0228	<0.0228	<0.0228	<0.0228	<0.0228	<0.0228	<0.0228	<0.0228	<0.0342	<0.0912	<0.0228	<0.0228	<0.0228	<0.0228	<0.0342	<0.0228	<0.0228	<0.0228	<0.0228	<0.0228	<0.0228	<0.0228	nd
		10/19/2015	MW12D-23-20151019	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/19/2015	MW12D-31-20151019	31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW13	G-Logics	10/21/2015	MW13-04-20151021	4	<0.0222	<0.0556	<0.0222	<0.0222	<0.0222	<0.0222	<0.0222	<0.0222	<0.0222	<0.0222	<0.0333	<0.0889	<0.0222	<0.0222	<0.0222	<0.0222	<0.0333	<0.0222	<0.0222	<0.0222	<0.0222	<0.0222	<0.0222	<0.0222	nd
		10/21/2015	MW13-10-20151021	10	<0.0340	<0.0850	<0.0340	<0.0340	<0.0340	<0.0340	<0.0340	<0.0340	<0.0340	<0.0340	<0.0510	<0.136	<0.0340	<0.0340	<0.0340	<0.0340	<0.0510	<0.0340	<0.0340	<0.0340	<0.0340	<0.0340	<0.0340	<0.0340	nd
		10/21/2015	MW13-13-20151021	13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/21/2015	MW13-18-20151021	18	<0.0238	<0.0594	<0.0238	<0.0238	<0.0238	<0.0238	<0.0238	<0.0238	<0.0238	<0.0238	<0.0356	<0.0951	<0.0238	<0.0238	<0.0238	<0.0238	<0.0356	<0.0238	<0.0238	<0.0238	<0.0238	<0.0238	<0.0238	<0.0238	nd
		10/21/2015	MW13-21-20151021	21	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW14	G-Logics	10/21/2015	MW14-03-20151021	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/21/2015	MW14-06-20151021	6	<0.0274	<0.0685	<0.0274	<0.0274	<0.0274	<0.0274	<0.0274	<0.0274	<0.0274	<0.0274	<0.0411	<0.110	<0.0274	**0.0433**	<0.0274	<0.0274	<0.0411	<0.0274	<0.0274	<0.0274	<0.0274	<0.0274	<0.0274	<0.0274	nd
		10/21/2015	MW14-11-20151021	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/21/2015	MW14-13-20151021	13	<0.0485	<0.121	<0.0485	<0.0485	<0.0485	<0.0485	<0.0485	<0.0485	**0.0525**	<0.0485	<0.0728	<0.194	<0.0485	**0.0700**	<0.0485	<0.0485	<0.0728	<0.0485	<0.0485	<0.0485	<0.0485	<0.0485	<0.0485	<0.0485	nd
		10/21/2015	MW14-16-20151021	16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/21/2015	MW14-20-20151021	20	<0.0263	<0.0658	<0.0263	<0.0263	<0.0263	<0.0263	<0.0263	<0.0263	<0.0263	<0.0263	<0.0395	<0.105	<0.0263	**0.0360**	<0.0263	<0.0263	**0.0844**	<0.0263	<0.0263	<0.0263	<0.0263	<0.0263	<0.0263	<0.0263	nd
MW15	G-Logics	10/21/2015	MW15-06-20151021	6	<0.0231	<0.0577	<0.0231	<0.0231	<0.0231	<0.0231	<0.0231	<0.0231	<0.0231	<0.0231	<0.0346	<0.0924	<0.0231	<0.0231	<0.0231	<0.0231	<0.0346	<0.0231	<0.0231	<0.0231	<0.0231	<0.0231	<0.0231	<0.0231	nd
		10/21/2015	MW15-11-20151021	11	<0.0369	<0.0923	<0.0369	<0.0369	<0.0369	<0.0369	<0.0369	<0.0369	<0.0369	<0.0369	<0.0554	<<0.148	<0.0369	<0.0369	<0.0369	<0.0369	<0.0554	<0.0369	<0.0369	<0.0369	<0.0369	<0.0369	<0.0369	<0.0369	nd
		10/21/2015	MW15-15-20151021	15	<0.0260	<0.0650	<0.0260	<0.0260	<0.0260	<0.0260	<0.0260	<0.0260	<0.0260	<0.0260	<0.0390	<0.104	<0.0260	<0.0260	<0.0260	<0.0260	<0.0390	<0.0260	<0.0260	<0.0260	<0.0260	<0.0260	<0.0260	<0.0260	nd
		10/21/2015	MW15-20-20151021	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

TABLE 1-7
Soil Sample Analyses, Volatile Organic Compounds (VOCs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	1,1,2,2-Tetrachloroethane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	4-Isopropyltoluene	Benzene	Carbon Disulfide	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methylene Chloride	n-Butylbenzene	n-Propylbenzene	Naphthalene	o-Xylene	sec-Butylbenzene	tert-Butylbenzene	Tetrachloroethene	Toluene	Trichloroethene	Other VOCs (3)
MTCA Method B Non-Cancer Cleanup Level (1)					1,600	800	na	800	na	5,600	na	320	8,000	na	8,000	8,000	16,000	480	4,000	8,000	1,600	16,000	8,000	8,000	NA	6,400	na	various
MTCA Method B Cancer Cleanup Level (1)					5.0	34.5	na	na	na	185.0	na	18.2	na	na	na	na	na	500	na	na	na	na	na	na	na	na	na	various
TEE Cleanup Level (2)					na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	various
(units in mg/kg)																												
MW16	G-Logics	10/19/2015	MW16-03-20151019	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/19/2015	MW16-06-20151019	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/19/2015	MW16-10-20151019	10	<0.0198	<0.0494	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0296	<0.0790	<0.0198	<0.0198	<0.0198	<0.0198	<0.0296	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	nd
		10/19/2015	MW16-13-20151019	13	<0.0221	<0.0553	**0.0409**	<0.0221	<0.0221	<0.0221	<0.0221	<0.0221	<0.0221	<0.0221	<0.0332	<0.0884	<0.0221	<0.0221	<0.0221	<0.0221	**14.0 D**	<0.0221	<0.0221	<0.0221	<0.0221	<0.0221	<0.0221	<0.0221	nd
		10/19/2015	MW16-15-20151019	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		10/19/2015	MW16-18-20151019	18	<0.0259	<0.0648	<0.0259	<0.0259	<0.0259	<0.0259	<0.0259	<0.0259	<0.0259	<0.0259	<0.0389	<0.104	<0.0259	<0.0259	<0.0259	<0.0259	<0.0389	<0.0259	<0.0259	<0.0259	<0.0259	<0.0259	<0.0259	<0.0259	nd
		10/19/2015	MW16-20-20151019	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GLB01	G-Logics	3/29/2016	GLB01-07-20160328	7	<0.0175	<0.0437	**0.0682**	<0.0175	<0.0175	<0.0175	**0.0188**	<0.0175	<0.0175	<0.0175	<0.0262	<0.0699	<0.0175	<0.0175	**0.0384**	**0.0301**	**0.0738**	<0.0175	<0.0175	<0.0175	<0.0175	<0.0175	<0.0175	<0.0175	nd
		3/29/2016	GLB01-12-20160328	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/29/2016	GLB01-14-20160328	14	<0.0220	<0.0551	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.0331	<0.0882	<0.0220	<0.0220	<0.0220	<0.0220	<0.0331	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	**0.0986**	nd
		3/29/2016	GLB01-20-20160328	20	<0.0305	<0.0762	<0.0305	<0.0305	<0.0305	<0.0305	<0.0305	<0.0305	<0.0305	<0.0305	<0.0457	<0.122	<0.0305	<0.0305	<0.0305	<0.0305	<0.0457	<0.0305	<0.0305	<0.0305	<0.0305	<0.0305	<0.0305	<0.0305	nd
GLB02	G-Logics	3/28/2016	GLB02-03-20160328	3	<0.0288	<0.0720	<0.0288	<0.0288	<0.0288	<0.0288	<0.0288	<0.0288	<0.0288	<0.0288	<0.0432	<0.115	<0.0288	<0.0288	<0.0288	<0.0288	<0.0432	<0.0288	<0.0288	<0.0288	<0.0288	<0.0288	<0.0288	<0.0288	nd
		3/28/2016	GLB02-08-20160328	8	<0.0234	<0.0585	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0935	<0.0935	<0.0234	<0.0234	<0.0234	**0.0304**	**0.0473**	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	nd
		3/28/2016	GLB02-14-20160328	14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/28/2016	GLB02-17-20160328	17	<0.0232	<0.0571	<0.0232	<0.0232	<0.0232	**0.0721**	<0.0232	<0.0232	<0.0232	<0.0232	<0.0232	<0.0930	<0.0232	<0.0232	<0.0232	<0.0232	<0.0349	<0.0232	<0.0232	<0.0232	<0.0232	<0.0232	<0.0232	<0.0232	nd
		3/28/2016	GLB02-20-20160328	20	<0.0205 R	<0.0512	<0.0205	<0.0205	<0.0205	<0.0205	<0.0205	<0.0205	<0.0205	<0.0205	<0.0307	<0.0819	<0.0205	<0.0205	<0.0205	<0.0205	<0.0307	<0.0205	<0.0205	<0.0205	<0.0205	<0.0205	<0.0205	<0.0205	nd
GLB03	G-Logics	3/28/2016	GLB03-04-20160328	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/28/2016	GLB03-08-20160328	8	<0.0316	<0.0790	<0.0316	<0.0316	<0.0316	<0.0316	<0.0316	<0.0316	<0.0316	<0.0316	<0.0474	<0.126	<0.0316	<0.0316	<0.0316	<0.0316	**4.77 D**	<0.0316	<0.0316	<0.0316	<0.0316	<0.0316	<0.0316	<0.0316	nd
		3/28/2016	GLB03-17-20160328	17	<0.0255	<0.0637	<0.0255	<0.0255	<0.0255	<0.0255	<0.0255	<0.0255	<0.0255	<0.0255	<0.0382	<0.102	<0.0255	<0.0255	<0.0255	<0.0255	<0.0382	<0.0255	<0.0255	<0.0255	<0.0255	<0.0255	<0.0255	<0.0255	nd
		3/28/2016	GLB03-20-20160328	20	<0.0229	<0.0572	<0.0229	<0.0229	<0.0229	<0.0229	<0.0229	<0.0229	<0.0229	<0.0229	<0.0343	<0.0916	<0.0229	<0.0229	<0.0229	<0.0229	<0.0343	<0.0229	<0.0229	<0.0229	<0.0229	<0.0229	<0.0229	<0.0229	nd
GLB04	G-Logics	3/28/2016	GLB04-04-20160328	4	<0.0278	<0.0695	<0.0278	<0.0278	<0.0278	<0.0278	<0.0278	**0.0299**	<0.0278	<0.0278	<0.0417	<0.109	<0.0278	<0.0278	<0.0278	<0.0278	<0.0278	<0.0278	**0.0292**	<0.0278	<0.0278	<0.0278	<0.0278	<0.0278	nd
		3/28/2016	GLB04-07-20160328	7	**1.54**	<0.0645	**1.00**	<0.0258	<0.0258	<0.0258	**0.285**	<0.0258	**0.0451**	<0.0258	**0.0754**	**0.442**	**0.575**	<0.0258	**0.718**	**0.809**	**3.11 D**	**0.0284**	**0.627**	**0.0290**	<0.0258	<0.0258	<0.0258	<0.0258	nd
		3/28/2016	GLB04-12-20160328	12	<0.0214	<0.0535	<0.0214	<0.0214	<0.0214	<0.0214	<0.0214	<0.0214	<0.0214	<0.0214	**0.0358**	<0.0214	**0.0583**	<0.0214	<0.0214	<0.0214	<0.0321	<0.0214	<0.0214	<0.0214	<0.0214	<0.0214	<0.0214	<0.0214	nd
		3/28/2016	GLB04-16-20160328	16	<0.0273	<0.0682	<0.0273	<0.0273	<0.0273	<0.0273	<0.0273	<0.0273	<0.0273	<0.0273	<0.0409	<0.0273	<0.0273	<0.0273	<0.0273	<0.0273	<0.0409	<0.0273	<0.0273	<0.0273	<0.0273	<0.0273	<0.0273	<0.0273	nd
		3/28/2016	GLB04-20-20160328	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GLB05	G-Logics	3/28/2016	GLB05-04-20160328	4	<0.0266	<0.0665	**0.358**	**0.160**	<0.0266	<0.0266	**0.0486**	<0.0266	<0.0266	<0.0266	**0.414**	<0.106	**0.500**	<0.0266	**0.0852**	**0.0432**	**0.331**	**0.224**	**0.0353**	<0.0266	<0.0266	**0.102**	<0.0266	nd
		3/28/2016	GLB05-08-20160328	8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/28/2016	GLB05-12-20160328	12	<0.0291	<0.0728	<0.0291	<0.0291	<0.0291	<0.0291	<0.0291	<0.0291	<0.0291	<0.0291	<0.0437	<0.116	<0.0291	<0.0291	<0.0291	<0.0291	<0.0437	<0.0291	<0.0291	<0.0291	<0.0291	<0.0291	<0.0291	<0.0291	nd
		3/28/2016	GLB05-16-20160328	16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/28/2016	GLB05-20-20160328	20	<0.0284	<0.071	<0.0284	<0.0284	<0.0284	<0.0284	<0.0284	<0.0284	<0.0284	<0.0284	<0.0426	<0.114	<0.0284	<0.0284	<0.0284	<0.0284	<0.0426	<0.0284	<0.0284	<0.0284	<0.0284	<0.0284	<0.0284	<0.0284	nd
GLB06	G-Logics	3/29/2016	GLB06-04-20160328	4	<0.0272	**1.47**	<0.0272	<0.0272	**0.237**	**0.555**	<0.0272	<0.0272	<0.0272	<0.0272	<0.0407	<0.109	<0.0272	<0.0272	<0.0272	<0.0272	**0.282**	<0.0272	<0.0272	<0.0272	<0.0272	<0.0272	<0.0272	<0.0272	nd
		3/29/2016	GLB06-07-20160328	7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/29/2016	GLB06-09-20160328	9	<0.0193	<0.0483	<0.0193	<0.0193	<0.0193	<0.0193	<0.0193	**0.0627**	<0.0193	<0.0193	<0.0290	<0.0772	<0.0193	<0.0193	<0.0193	<0.0193	<0.0290	<0.0193	<0.0193	<0.0193	<0.0193	<0.0193	<0.0193	<0.0193	nd
		3/29/2016	GLB06-14-20160328	14	<0.0230	<0.0574	<0.0230	<0.0230	<0.0230	<0.0230	<0.0230	<0.0230	<0.0230	<0.0230	<0.0345	<0.0919	<0.0230	<0.0230	<0.0230	<0.0230	<0.0345	<0.0230	<0.0230	<0.0230	<0.0230	<0.0230	<0.0230	<0.0230	
		3/29/2016	GLB06-20-20160328	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GLB07	G-Logics	3/28/2016	GLB07-04-20160328	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/28/2016	GLB07-08-20160328	8	<0.0213	<0.0532	<0.0213	<0.0213	<0.0213	<0.0213	<0.0213	<0.0213	<0.0213	<0.0213	<0.0319	<0.0851	<0.0213	<0.0213	<0.0213	<0.0213	<0.0319	<0.0213	<0.0213	<0.0213	<0.0213	<0.0213	<0.0213	<0.0213	nd
		3/28/2016	GLB07-15-20160328	15	<0.0266	<0.0665	<0.0266	<0.0266	<0.0266	<0.0266	<0.0266	<0.0266	**0.0273**	<0.0266	<0.0399	<0.106	<0.0266	<0.0266	<0.0266	<0.0266	<0.0399	<0.0266	<0.0266	<0.0266	<0.0266	<0.0266	<0.0266	<0.0266	nd
		3/28/2016	GLB07-19-20160328	19	<0.0288	<0.0721	<0.0288	<0.0288	<0.0288	<0.0288	<0.0288	<0.0288	<0.0288	<0.0288	<0.0432	<0.115	<0.0288	<0.0288	<0.0288	<0.0288	<0.0432	<0.0288	<0.0288	<0.0288	<0.0288	<0.0288	<0.0288	<0.0288	nd

TABLE 1-7
Soil Sample Analyses, Volatile Organic Compounds (VOCs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	1,1,2,2-Tetrachloroethane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	4-Isopropyltoluene	Benzene	Carbon Disulfide	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methylene Chloride	n-Butylbenzene	n-Propylbenzene	Naphthalene	o-Xylene	sec-Butylbenzene	tert-Butylbenzene	Tetrachloroethene	Toluene	Trichloroethene	Other VOCs (3)
MTCA Method B Non-Cancer Cleanup Level (1)					1,600	800	na	800	na	5,600	na	320	8,000	na	na	8,000	8,000	16,000	480	4,000	8,000	1,600	16,000	8,000	8,000	NA	6,400	na	various
MTCA Method B Cancer Cleanup Level (1)					5.0	34.5	na	na	na	185.0	na	18.2	na	na	na	na	na	na	500	na	na	na	na	na	na	na	na	na	various
TEE Cleanup Level (2)					na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	various
(units in mg/kg)																													
GLB08	G-Logics	3/28/2016	GLB08-08-20160328	8	<0.0231	<0.0577	<0.0231	<0.0231	<0.0231	<0.0231	<0.0231	<0.0231	<0.0231	<0.0231	<0.0346	<0.0924	<0.0231	<0.0231	<0.0231	<0.0231	<0.0346	<0.0231	<0.0231	<0.0231	<0.0231	<0.0231	<0.0231	<0.0231	nd
		3/28/2016	GLB08-12-20160328	12	<0.0215	<0.0537	<0.0215	<0.0215	<0.0215	<0.0215	<0.0215	<0.0215	<0.0215	<0.0215	<0.0322	<0.0860	<0.0215	<0.0215	<0.0215	<0.0215	<0.0322	<0.0215	<0.0215	<0.0215	<0.0215	<0.0215	<0.0215	<0.0215	nd
		3/28/2016	GLB08-16-20160328	16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/28/2016	GLB08-20-20160328	20	<0.0242	<0.0604	<0.0242	<0.0242	<0.0242	<0.0242	<0.0242	<0.0242	<0.0242	<0.0242	<0.0363	<0.0967	<0.0242	<0.0242	<0.0242	<0.0242	<0.0363	<0.0242	<0.0242	<0.0242	<0.0242	<0.0242	<0.0242	<0.0242	nd
GLB09	G-Logics	3/29/2016	GLB09-03-20160328	3	<0.0275	<0.0687	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0412	<0.110	<0.0275	<0.0275	<0.0275	<0.0275	<0.0412	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	nd
		3/29/2016	GLB09-08-20160328	8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/29/2016	GLB09-14-20160328	14	<0.0342	<0.0854	<0.0342	<0.0342	<0.0342	<0.0342	<0.0342	<0.0342	<0.0342	<0.0342	<0.0512	<0.0137	<0.0342	<0.0342	<0.0342	<0.0342	<0.0512	<0.0342	<0.0342	<0.0342	<0.0342	<0.0342	<0.0342	<0.0342	nd
		3/29/2016	GLB09-20-20160328	20	<0.0271	<0.0676	<0.0271	<0.0271	<0.0271	<0.0271	<0.0271	<0.0271	<0.0271	<0.0271	<0.0406	<0.108	<0.0271	<0.0271	<0.0271	<0.0271	<0.0406	<0.0271	<0.0271	<0.0271	<0.0271	<0.0271	<0.0271	<0.0271	nd
GLB10	G-Logics	3/29/2016	GLB10-04-20160328	4	<0.0231	<0.0577	<0.0231	<0.0231	<0.0231	<0.0231	<0.0231	**0.0323**	<0.0231	<0.0231	<0.0346	<0.0923	<0.0231	<0.0231	**0.119**	**0.0317**	**0.0727**	<0.0231	**0.0652**	<0.0231	<0.0231	**0.0242**	<0.0231	nd
		3/29/2016	GLB10-08-20160328	8	<0.0280	<0.0700	<0.0280	<0.0280	<0.0280	<0.0280	<0.0280	<0.0280	<0.0280	<0.0280	<0.0420	<0.112	<0.0280	<0.0280	<0.0280	<0.0280	**0.0862**	<0.0280	<0.0280	<0.0280	**0.789**	<0.0280	<0.0280		
GLB11	G-Logics	3/28/2016	GLB11-06-20160328	6	<0.0216	<0.0540	<0.0216	<0.0216	<0.0216	<0.0216	<0.0216	<0.0216	<0.0216	<0.0216	<0.0324	<0.0864	**0.0238**	<0.0216	<0.0216	<0.0216	**0.0367**	**0.0238**	<0.0216	<0.0216	<0.0216	<0.0216	<0.0216	nd
		3/28/2016	GLB11-12-20160328	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/28/2016	GLB11-15-20160328	15	<0.0273	<0.0682	<0.0273	<0.0273	<0.0273	<0.0273	<0.0273	<0.0273	<0.0273	<0.0273	<0.0409	<0.109	<0.0273	<0.0273	<0.0273	<0.0273	<0.0409	<0.0273	<0.0273	<0.0273	<0.0273	<0.0273	<0.0273	<0.0273	nd
		3/28/2016	GLB11-20-20160328	20	<0.0218	<0.0544	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.0327	<0.0871	<0.0218	<0.0218	<0.0218	<0.0218	<0.0327	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	nd
GLB12	G-Logics	3/29/2016	GLB12-04-20160328	4	<0.0260	<0.0650	<0.0260	<0.0260	<0.0260	<0.0260	<0.0260	<0.0260	<0.0260	<0.0260	<0.0390	<0.104	<0.0260	<0.0260	<0.0260	<0.0260	<0.0390	<0.0260	<0.0260	<0.0260	<0.0260	<0.0260	<0.0260	<0.0260	nd
		3/29/2016	GLB12-06-20160328	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/29/2016	GLB12-10-20160328	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/29/2016	GLB12-14-20160328	14	<0.0233	<0.0582	<0.0233	<0.0233	<0.0233	<0.0233	<0.0233	<0.0233	<0.0233	<0.0233	<0.0349	<0.0932	<0.0233	<0.0233	<0.0233	<0.0233	<0.0349	<0.0233	<0.0233	<0.0233	<0.0233	<0.0233	<0.0233	<0.0233	nd
		3/29/2016	GLB12-20-20160328	20	<0.0231	<0.0577	<0.0231	<0.0231	<0.0231	<0.0231	<0.0231	<0.0231	<0.0231	<0.0231	<0.0346	<0.0924	<0.0231	<0.0231	<0.0231	<0.0231	<0.0346	<0.0231	<0.0231	<0.0231	<0.0231	<0.0231	<0.0231	<0.0231	nd
GLB13	G-Logics	3/28/2016	GLB13-01-20160328	1	<0.0267	<0.0668	<0.0267	<0.0267	<0.0267	<0.0267	<0.0267	<0.0267	<0.0267	<0.0267	<0.0401	<0.107	<0.0267	<0.0267	<0.0267	<0.0267	<0.0401	<0.0267	<0.0267	<0.0267	<0.0267	<0.0267	<0.0267	<0.0267	nd
		3/28/2016	GLB13-04-20160328	4	<0.0170	<0.0426	<0.0170	<0.0170	<0.0170	<0.0170	<0.0170	<0.0170	<0.0170	<0.0170	<0.0256	<0.0682	<0.0170	<0.0170	<0.0170	<0.0170	**0.0422**	<0.0170	<0.0170	<0.0170	**0.0733**	<0.0170	<0.0170	<0.0170	nd
		3/28/2016	GLB13-12-20160328	12	<0.0247	<0.0617	<0.0247	<0.0247	<0.0247	<0.0247	<0.0247	<0.0247	<0.0247	<0.0247	<0.0370	<0.0987	<0.0247	<0.0247	<0.0247	<0.0247	<0.0370	<0.0247	<0.0247	<0.0247	<0.0247	<0.0247	<0.0247	<0.0247	nd
GLB14	G-Logics	3/29/2016	GLB14-02-20160328	2	<0.0355	<0.0887	<0.0355	<0.0355	<0.0355	<0.0355	<0.0355	<0.0355	<0.0355	<0.0355	<0.0532	<0.142	<0.0355	<0.0355	<0.0355	<0.0355	<0.0532	<0.0355	<0.0355	<0.0355	<0.0355	<0.0355	<0.0355	<0.0355	nd
		3/29/2016	GLB14-06-20160328	6	<0.0272	<0.0680	<0.0272	<0.0272	<0.0272	<0.0272	<0.0272	<0.0272	<0.0272	<0.0272	<0.0408	<0.109	<0.0272	<0.0272	<0.0272	<0.0272	<0.0408	<0.0272	<0.0272	<0.0272	<0.0272	<0.0272	<0.0272	<0.0272	nd
		3/29/2016	GLB14-12-20160328	12	<0.0225	<0.0562	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	<0.0337	<0.0900	<0.0225	<0.0225	<0.0225	<0.0225	<0.0337	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	nd
		3/29/2016	GLB14-15-20160328	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/29/2016	GLB14-20-20160328	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Notes:
Refer to site diagram(s) for sampling locations.
See Table 1-1 for Details Regarding ARARs used for Soil Screening Criteria.

(1) Direct Contact, Method B Non-Cancer and Cancer Cleanup Levels, Based on Ecology "Cleanup Levels and Risk Calculation (CLARC)" Website, Accessed July 2017
(2) Terrestrial Ecological Evaluation, Industrial or Commercial Cleanup Levels Based on MTCA Table 749-2
(3) Analytes Not Listed were Not Detected Above Laboratory Reporting Limits
na Cleanup Level Not Available
dup Blind Field Duplicate
--- Not Analyzed/No Data
nd Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified
<50.0 Not Detected at Specified Laboratory Reporting Limit
<49.9 Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level
250 Bold Number(s) Indicates Contaminant Detected.
1,440 Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level
1.70 Bold Number(s) and Purple Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level, but is Not a Final COPC
D Dilution Required
R Data Rejected based on ECOCHEM Data Validation Report dated April 4, 2017

Table is in color, black and white copies may not be suitable for review.

TABLE 2-1
Groundwater Cleanup Levels and Contaminants of Potential Concern
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Chemical	CAS No.	FAI Method	Surface Water (1) Method B Non cancer (µg/L)	Surface Water (1) Method B Cancer (µg/L)	Surface Water (1) Method C Non cancer (µg/L)	Surface Water (1) Method C Cancer (µg/L)	Surface Water Aquatic Life Marine/Acute 173-201A WAC (µg/L)	Surface Water Aquatic Life Marine/Acute NTR 40 CFR 131 (µg/L)	Surface Water Aquatic Life Marine/Acute CWA §304 (µg/L)	Surface Water Aquatic Life Marine/Chronic 173-201A WAC (µg/L)	Surface Water Aquatic Life Marine/Chronic NTR 40 CFR 131 (µg/L)	Surface Water Aquatic Life Marine/Chronic CWA §304 (µg/L)	Surface Water Human Health Marine Waters 173-201A WAC (µg/L)	Surface Water Human Health Marine Waters NTR 40 CFR 131 (µg/L)	Surface Water Human Health Marine Waters CWA §304 (µg/L)
Chemical	**CAS**		**SW_B_Non-Canc_ug/L**	**SW_B_Canc_ug/L**	**SW_C_Non-Canc_ug/L**	**SW_C_Canc_ug/L**	**SW_AqL_MAc_201A_ug/L**	**SW_AqL_MAc_NTR_131_ug/L**	**SW_AqL_MAc_304_ug/L**	**SW_AqL_MChr_201A_ug/L**	**SW_AqL_MChr_NTR_131_ug/L**	**SW_AqL_MChr_304_ug/L**	**SW_HH_Org_201A_ug/L**	**SW_HH_NTR_Org_131_ug/L**	**SW_HH_304_Org_ug/L**
Total Metals															
Antimony	7440-36-0	EPA 200.8	1.00E+03	na	2.60E+03	na	na	na	na	na	na	na	1.80E+02	9.00E+01	6.40E+02
Arsenic	7440-38-2	EPA 200.8	1.80E+01	9.80E-02	4.40E+01	2.50E+00	6.90E+01	6.90E+01	6.90E+01	3.60E+01	3.60E+01	3.60E+01	1.00E+01	1.40E-01	1.40E-01
Barium	7440-39-3	EPA 200.8	na	na	na	na	na	na	na	na	na	na	na	na	na
Beryllium	7440-41-7	EPA 200.8	2.70E+02	na	6.80E+02	na	na	na	na	na	na	na	na	na	na
Cadmium (nonpotable surface water)	7440-43-9	EPA 200.8	4.10E+01	na	1.00E+02	na	4.20E+01	4.20E+01	4.00E+01	9.30E+00	9.30E+00	8.80E+00	na	na	na
Chromium(III)	7440-47-3	EPA 200.8	2.40E+05	na	6.10E+05	na	na	na	na	na	na	na	na	na	na
Copper	7440-50-8	EPA 200.8	2.90E+03	na	7.20E+03	na	4.80E+00	3.10E+00	4.80E+00	3.10E+00	na	3.10E+00	na	na	na
Lead	7439-92-1	EPA 200.8	na	na	na	na	2.10E+02	2.10E+02	2.10E+02	8.10E+00	8.10E+00	8.10E+00	na	na	na
Mercury	7439-97-6	EPA 1631	na	na	na	na	1.80E+00	2.10E+00	1.80E+00	2.50E-02	2.50E-02	9.40E-01	na	1.50E-01	na
Nickel	7440-02-0	EPA 200.8	1.10E+03	na	2.80E+03	na	7.40E+01	7.40E+01	7.40E+01	8.20E+00	8.20E+00	8.20E+00	1.90E+02	1.00E+02	4.60E+03
Selenium	7782-49-2	EPA 200.8	2.70E+03	na	6.80E+03	na	2.90E+02	2.90E+02	2.90E+02	7.10E+01	7.10E+01	7.10E+01	4.80E+02	2.00E+02	4.20E+03
Silver	7440-22-4	EPA 200.8	2.60E+04	na	6.50E+04	na	1.90E+00	1.90E+00	1.90E+00	na	na	na	na	na	na
Thallium	7440-28-0	EPA 200.8	2.20E-01	na	5.60E-01	na	na	na	na	na	na	na	2.70E-01	6.30E+00	4.70E-01
Zinc	7440-66-6	EPA 200.8	17000	na	41000	na	90	90	90	81	81	81	2900	1000	26000
Dissolved Metals															
Antimony	7440-36-0	EPA 200.8	1.00E+03	na	2.60E+03	na	na	na	na	na	na	na	1.80E+02	9.00E+01	6.40E+02
Arsenic	7440-38-2	EPA 200.8	1.80E+01	9.80E-02	4.40E+01	2.50E+00	6.90E+01	6.90E+01	6.90E+01	3.60E+01	3.60E+01	3.60E+01	1.00E+01	1.40E-01	1.40E-01
Barium	7440-39-3	EPA 200.8	na	na	na	na	na	na	na	na	na	na	na	na	na
Beryllium	7440-41-7	EPA 200.8	2.70E+02	na	6.80E+02	na	na	na	na	na	na	na	na	na	na
Cadmium (nonpotable surface water)	7440-43-9	EPA 200.8	4.10E+01	na	1.00E+02	na	4.20E+01	4.20E+01	4.00E+01	9.30E+00	9.30E+00	8.80E+00	na	na	na
Chromium(III)	7440-47-3	EPA 200.8	2.40E+05	na	6.10E+05	na	na	na	na	na	na	na	na	na	na
Copper	7440-50-8	EPA 200.8	2.90E+03	na	7.20E+03	na	4.80E+00	3.10E+00	4.80E+00	3.10E+00	na	3.10E+00	na	na	na
Lead	7439-92-1	EPA 200.8	na	na	na	na	2.10E+02	2.10E+02	2.10E+02	8.10E+00	8.10E+00	8.10E+00	na	na	na
Mercury	7439-97-6	EPA 1631	na	na	na	na	1.80E+00	2.10E+00	1.80E+00	2.50E-02	2.50E-02	9.40E-01	na	1.50E-01	na
Nickel	7440-02-0	EPA 200.8	1.10E+03	na	2.80E+03	na	7.40E+01	7.40E+01	7.40E+01	8.20E+00	8.20E+00	8.20E+00	1.90E+02	1.00E+02	4.60E+03
Selenium	7782-49-2	EPA 200.8	2.70E+03	na	6.80E+03	na	2.90E+02	2.90E+02	2.90E+02	7.10E+01	7.10E+01	7.10E+01	4.80E+02	2.00E+02	4.20E+03
Silver	7440-22-4	EPA 200.8	2.60E+04	na	6.50E+04	na	1.90E+00	1.90E+00	1.90E+00	na	na	na	na	na	na
Thallium	7440-28-0	EPA 200.8	2.20E-01	na	5.60E-01	na	na	na	na	na	na	na	2.70E-01	6.30E+00	4.70E-01
Zinc	7440-66-6	EPA 200.8	17000	na	41000	na	90	90	90	81	81	81	2900	1000	26000
PCBs															
Aroclor 1016	na	EPA 8082	5.80E-03	3.00E-03	1.50E-02	7.40E-02	na	na	na	na	3.00E-02	na	na	na	na
Aroclor 1221	na	EPA 8082	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor 1232	na	EPA 8082	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor 1242	na	EPA 8082	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor 1248	na	EPA 8082	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor 1254	na	EPA 8082	1.70E-03	1.00E-04	4.20E-03	2.60E-03	na	na	na	na	3.00E-02	na	na	na	na
Aroclor 1260	na	EPA 8082	na	na	na	na	na	na	na	na	3.00E-02	na	na	na	na
Aroclor 1262	na	EPA 8082	na	na	na	na	na	na	na	na	na	na	na	na	na
Aroclor 1268	na	EPA 8082	na	na	na	na	na	na	na	na	na	na	na	na	na
Total PCB Aroclors	1336-36-3	EPA 8082	na	1.00E-04	na	2.60E-03	1.00E+01	na	na	3.00E-02	3.00E-02	3.00E-02	1.70E-04	7.00E-06	6.40E-05
Total PCB Congeners (Based on Ecology Study)	1336-36-3	EPA 1668C	na	1.00E-04	na	2.60E-03	1.00E+01	na	na	3.00E-02	3.00E-02	3.00E-02	1.70E-04	7.00E-06	6.40E-05
VOCs															
1,1,1,2-Tetrachloroethane	630-20-6	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
1,1,1-Trichloroethane	71-55-6	EPA 8260C	9.30E+05	na	2.30E+06	na	na	na	na	na	na	na	1.60E+05	5.00E+04	2.00E+05
1,1,2,2-Tetrachloroethane	79-34-5	EPA 8260C	1.00E+04	6.50E+00	2.60E+04	1.60E+02	na	na	na	na	na	na	4.60E-01	3.00E-01	3.00E+00
1,1,2-Trichloroethane	79-00-5	EPA 8260C	2.30E+03	2.50E+01	5.80E+03	6.30E+02	na	na	na	na	na	na	1.80E+00	9.00E-01	8.90E+00
1,1-Dichloroethane	75-34-3	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
1,1-Dichloroethylene	75-35-4	EPA 8260C	2.30E+04	na	5.80E+04	na	na	na	na	na	na	na	4.10E+03	4.00E+03	2.00E+04
1,1-Dichloropropene	563-58-6	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
1,2,3-Trichlorobenzene	87-61-6	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
1,2,3-Trichloropropane	96-18-4	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
1,2,4-Trichlorobenzene	120-82-1	EPA 8260C	2.30E+02	2.00E+00	5.70E+02	4.90E+01	na	na	na	na	na	na	1.40E-01	3.70E-02	7.60E-02
1,2,4-Trimethylbenzene	95-63-6	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
1,2-Dibromo-3-chloropropane	96-12-8	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
1,2-Dichloroethane (EDC)	107-06-2	EPA 8260C	1.30E+04	5.90E+01	3.20E+04	1.50E+03	na	na	na	na	na	na	1.20E+02	7.30E+01	6.50E+02
1,2-Dichloropropane	78-87-5	EPA 8260C	5.70E+04	4.40E+01	1.40E+05	1.10E+03	na	na	na	na	na	na	3.10E+00	3.10E+00	3.10E+01
1,3,5-Trimethylbenzene	108-67-8	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
1,3-Dichloropropane	142-28-9	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
2,2-Dichloropropane	594-20-7	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Chlorotoluene	95-49-8	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Hexanone	591-78-6	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Chlorotoluene	106-43-4	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Isopropyltoluene	99-87-6	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
Acetone	67-64-1	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzene	71-43-2	EPA 8260C	2.00E+03	2.30E+01	5.00E+03	5.70E+02	na	na	na	na	na	na	1.60E+00	1.60E+00	1.60E+01
Bromobenzene	108-86-1	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
Bromoform	75-25-2	EPA 8260C	1.40E+04	2.20E+02	3.50E+04	5.50E+03	na	na	na	na	na	na	2.70E+01	1.20E+01	1.20E+02
Bromomethane	74-83-9	EPA 8260C	9.70E+02	na	2.40E+03	na	na	na	na	na	na	na	2.40E+03	2.40E+03	1.00E+04
Carbon disulfide	75-15-0	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
Carbon tetrachloride	56-23-5	EPA 8260C	5.50E+02	4.90E+00	1.40E+03	1.20E+02	na	na	na	na	na	na	3.50E-01	3.50E-01	5.00E+00
Chlorobenzene	108-90-7	EPA 8260C	5.00E+03	na	1.30E+04	na	na	na	na	na	na	na	8.90E+02	2.00E+02	8.00E+02
Chloroethane (ethyl chloride)	75-00-3	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
Chloroform	67-66-3	EPA 8260C	6.90E+03	5.60E+01	1.70E+04	1.40E+03	na	na	na	na	na	na	1.20E+03	6.00E+02	2.00E+03
Chloromethane (Methylene chloride)	74-87-3	EPA 8260C	1.70E+04	3.60E+03	4.30E+04	9.00E+04	na	na	na	na	na	na	2.50E+02	1.00E+02	1.00E+03
cis-1,2-Dichloroethylene	156-59-2	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
cis-1,3-Dichloropropene	10061-01-5	EPA 8260C	4.10E+04	3.40E+01	1.00E+05	8.50E+02	na	na	na	na	na	na	2.00E+00	1.20E+00	1.20E+01

TABLE 2-1
Groundwater Cleanup Levels and Contaminants of Potential Concern
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Chemical	Lowest ARAR (ug/L)	Groundwater Screening Level (ug/L)	MDL Used as Reporting Limit (2)	No. of Analyses	Number of Detections	Total % Detections	Highest Recorded Groundwater Concentation at DMC (ug/L)	Location with Highest Concentration	Detections Above CUL	Total % of Samples with Detections Over CUL	Number of Different Locations with CUL Exceedance	Exceedance Factor for Highest Concentrations	Preliminary Groundwater COPC List Based on Groundwater CUL	Final Groundwater COPC List If number of locations > 2 and Exceedance Factor > 2 and Total % Detections Over CUL > 5%, **OR** Exceedance Factor >10
Chemical														
Total Metals														
Antimony	9.00E+01	9.00E+01		58	33	56.9%	5.60E+02	MW2	0	0.0%	0			
Arsenic	1.40E-01	1.40E-01		58	51	87.9%	2.20E+02	MW2	**49**	**84.5%**	**20**	**1,571**	Arsenic	Arsenic
Barium	0.00E+00	na		34	34	100.0%	9.67E+02	MW14	0	0.0%	0			
Beryllium	2.70E+02	2.70E+02		51	8	15.7%	5.47E+00	MW14	0	0.0%	0			
Cadmium (nonpotable surface water)	8.80E+00	8.80E+00		60	10	16.7%	1.20E+01	MW2	**1**	**1.7%**	**1**	**1**	Cadmium (nonpotable surface water)	
Chromium(III)	2.40E+05	2.40E+05		59	53	89.8%	1.40E+02	MW2	0	0.0%	0			
Copper	3.10E+00	3.10E+00		61	36	59.0%	8.10E+02	MW2	**10**	**16.4%**	**9**	**261**	Copper	Copper
Lead	8.10E+00	8.10E+00		61	24	39.3%	2.10E+03	MW2	**8**	**13.1%**	**6**	**259**	Lead	Lead
Mercury	2.50E-02	2.50E-02		65	22	33.8%	2.00E+00	MW2	**3**	**4.6%**	**2**	**80**	Mercury	Mercury
Nickel	8.20E+00	8.20E+00		60	48	80.0%	2.40E+02	MW2	**8**	**13.3%**	**5**	**29**	Nickel	Nickel
Selenium	7.10E+01	7.10E+01		60	21	35.0%	4.08E+01	Seep 82	0	0.0%	0			
Silver	1.90E+00	1.90E+00		51	1	2.0%	2.30E+00	MW11	**1**	**2.0%**	**1**	**1**	Silver	
Thallium	2.70E-01	2.70E-01		51	3	5.9%	4.00E-02	MW11	0	0.0%	0			
Zinc	8.10E+01	8.10E+01		62	43	69.4%	2.00E+03	MW1	**9**	**14.5%**	**6**	**24**	Zinc	Zinc
Dissolved Metals														
Antimony	9.00E+01	9.00E+01		58	31	53.4%	3.52E+00	MW16	0	0.0%	0			
Arsenic	1.40E-01	1.40E-01		61	40	65.6%	1.95E+01	MW07	**38**	**62.3%**	**13**	**139**	Arsenic	Arsenic
Barium	0.00E+00	na		34	32	94.1%	3.31E+02	MW11	0	0.0%	0			
Beryllium	2.70E+02	2.70E+02		50	0	0.0%	---	---	0	0.0%	0			
Cadmium (nonpotable surface water)	8.80E+00	8.80E+00		60	4	6.7%	9.25E-02	MW11	0	0.0%	0			
Chromium(III)	2.40E+05	2.40E+05		59	38	64.4%	2.10E+01	MW3	0	0.0%	0			
Copper	3.10E+00	3.10E+00		63	6	9.5%	3.90E+01	MW2	**1**	**1.6%**	**1**	**12**	Copper	Copper
Lead	8.10E+00	8.10E+00		61	5	8.2%	1.57E+00	MW08	0	0.0%	0			
Mercury	2.50E-02	2.50E-02		59	11	18.6%	1.05E-01	MW15	**3**	**5.1%**	**3**	**4**	Mercury	Mercury
Nickel	8.20E+00	8.20E+00		59	47	79.7%	3.00E+01	MW4	**3**	**5.1%**	**2**	**3**	Nickel	Nickel
Selenium	7.10E+01	7.10E+01		58	15	25.9%	8.56E+00	MW11	0	0.0%	0			
Silver	1.90E+00	1.90E+00		50	3	6.0%	1.92E+00	MW11	**1**	**2.0%**	**1**	**1**	Silver	
Thallium	2.70E-01	2.70E-01		50	0	0.0%	---	---	0	0.0%	0			
Zinc	8.10E+01	8.10E+01		59	18	30.5%	1.30E+02	MW1	**1**	**1.7%**	**1**	**1**	Zinc	
PCBs														
Aroclor 1016	3.00E-02	3.00E-02	X	65	0	0.0%	---	---	0	0.0%	0			
Aroclor 1221	0.00E+00	na	X	65	0	0.0%	---	---	0	0.0%	0			
Aroclor 1232	0.00E+00	na	X	65	0	0.0%	---	---	0	0.0%	0			
Aroclor 1242	0.00E+00	na	X	65	2	3.1%	0.67	MW4	0	0.0%	0			
Aroclor 1248	0.00E+00	na	X	65	0	0.0%	---	---	0	0.0%	0			
Aroclor 1254	3.00E-02	3.00E-02	X	65	1	1.5%	1.70E-01	MW4	**1**	**1.5%**	**1**	**5**	Aroclor 1254	Aroclor 1254
Aroclor 1260	3.00E-02	3.00E-02	X	65	2	3.1%	1.30E-01	MW2	**2**	**3.1%**	**2**	**4**	Aroclor 1260	
Aroclor 1262	0.00E+00	na	X	54	0	0.0%	---	---	0	0.0%	0			
Aroclor 1268	0.00E+00	na	X	54	0	0.0%	---	---	0	0.0%	0			
Total PCB Aroclors	7.00E-06	7.00E-06	X	65	2	3.1%	9.50E-01	MW4	**2**	**3.1%**	**2**	**135,714**	Total PCB Aroclors	Total PCB Aroclors
Total PCB Congeners (Based on Ecology Study)	7.00E-06	7.00E-06		3	3	100.0%	1.48E-02	MW16	**3**	**100.0%**	**3**	**2,114**	Total PCB Congeners (Based on Ecology Study)	Total PCB Congeners
VOCs														
1,1,1,2-Tetrachloroethane	0.00E+00	na		50	0	0.0%	---	---	0	0.0%	0			
1,1,1-Trichloroethane	5.00E+04	5.00E+04		50	0	0.0%	---	---	0	0.0%	0			
1,1,2,2-Tetrachloroethane	3.00E-01	3.00E-01	X	50	1	2.0%	1.30E-01	MW09	0	0.0%	0			
1,1,2-Trichloroethane	9.00E-01	9.00E-01		50	0	0.0%	---	---	0	0.0%	0			
1,1-Dichloroethane	0.00E+00	na		61	3	4.9%	2.20E+00	MW3	0	0.0%	0			
1,1-Dichloroethylene	4.00E+03	4.00E+03		50	0	0.0%	---	---	0	0.0%	0			
1,1-Dichloropropene	0.00E+00	na		50	0	0.0%	---	---	0	0.0%	0			
1,2,3-Trichlorobenzene	0.00E+00	na		50	0	0.0%	---	---	0	0.0%	0			
1,2,3-Trichloropropane	0.00E+00	na		50	0	0.0%	---	---	0	0.0%	0			
1,2,4-Trichlorobenzene	3.70E-02	3.70E-02	X	50	0	0.0%	---	---	0	0.0%	0			
1,2,4-Trimethylbenzene	0.00E+00	na		61	5	8.2%	2.69E+00	MW16	0	0.0%	0			
1,2-Dibromo-3-chloropropane	0.00E+00	na		50	0	0.0%	---	---	0	0.0%	0			
1,2-Dichloroethane (EDC)	7.30E+01	7.30E+01		50	0	0.0%	---	---	0	0.0%	0			
1,2-Dichloropropane	3.10E+00	3.10E+00		50	0	0.0%	---	---	0	0.0%	0			
1,3,5-Trimethylbenzene	0.00E+00	na		61	3	4.9%	1.63E+00	MW16	0	0.0%	0			
1,3-Dichloropropane	0.00E+00	na		50	0	0.0%	---	---	0	0.0%	0			
2,2-Dichloropropane	0.00E+00	na		50	0	0.0%	---	---	0	0.0%	0			
2-Chlorotoluene	0.00E+00	na		50	0	0.0%	---	---	0	0.0%	0			
2-Hexanone	0.00E+00	na		18	0	0.0%	---		0	0.0%	0			
4-Chlorotoluene	0.00E+00	na		50	0	0.0%	---	---	0	0.0%	0			
4-Isopropyltoluene	0.00E+00	na		50	2	4.0%	2.07E+00	MW14	0	0.0%	0			
Acetone	0.00E+00	na		61	1	1.6%	1.50E+01	MW3	0	0.0%	0			
Benzene	1.60E+00	1.60E+00		57	0	0.0%	---	---	0	0.0%	0			
Bromobenzene	0.00E+00	na		50	0	0.0%	---	---	0	0.0%	0			
Bromoform	1.20E+01	1.20E+01		50	0	0.0%	---	---	0	0.0%	0			
Bromomethane	2.40E+03	2.40E+03		50	0	0.0%	---	---	0	0.0%	0			
Carbon disulfide	0.00E+00	na		61	1	1.6%	1.60E+00	MW2D	0	0.0%	0			
Carbon tetrachloride	3.50E-01	3.50E-01		50	0	0.0%	---	---	0	0.0%	0			
Chlorobenzene	2.00E+02	2.00E+02		50	0	0.0%	---	---	0	0.0%	0			
Chloroethane (ethyl chloride)	0.00E+00	na		61	1	1.6%	5.10E-01	MW3	0	0.0%	0			
Chloroform	6.00E+02	6.00E+02		61	3	4.9%	1.60E+00	MW08	0	0.0%	0			
Chloromethane (Methylene chloride)	1.00E+02	1.00E+02		50	0	0.0%	---	---	0	0.0%	0			
cis-1,2-Dichloroethylene	0.00E+00	na		61	1	1.6%	2.40E-01	MW2	0	0.0%	0			
cis-1,3-Dichloropropene	1.20E+00	1.20E+00		50	0	0.0%	---	---	0	0.0%	0			

TABLE 2-1
Groundwater Cleanup Levels and Contaminants of Potential Concern
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Chemical	CAS No.	FAI Method	Surface Water (1) Method B Non cancer (µg/L)	Surface Water (1) Method B Cancer (µg/L)	Surface Water (1) Method C Non cancer (µg/L)	Surface Water (1) Method C Cancer (µg/L)	Surface Water Aquatic Life Marine/Acute 173-201A WAC (µg/L)	Surface Water Aquatic Life Marine/Acute NTR 40 CFR 131 (µg/L)	Surface Water Aquatic Life Marine/Acute CWA §304 (µg/L)	Surface Water Aquatic Life Marine/Chronic 173-201A WAC (µg/L)	Surface Water Aquatic Life Marine/Chronic NTR 40 CFR 131 (µg/L)	Surface Water Aquatic Life Marine/Chronic CWA §304 (µg/L)	Surface Water Human Health Marine Waters 173-201A WAC (µg/L)	Surface Water Human Health Marine Waters NTR 40 CFR 131 (µg/L)	Surface Water Human Health Marine Waters CWA §304 (µg/L)
Chemical	**CAS**		**SW_B_Non-Canc_ug/L**	**SW_B_Canc_ug/L**	**SW_C_Non-Canc_ug/L**	**SW_C_Canc_ug/L**	**SW_AqL_MAc_201A_ug/L**	**SW_AqL_MAc_NTR_131_ug/L**	**SW_AqL_MAc_304_ug/L**	**SW_AqL_MChr_201A_ug/L**	**SW_AqL_MChr_NTR_131_ug/L**	**SW_AqL_MChr_304_ug/L**	**SW_HH_Org_201A_ug/L**	**SW_HH_NTR_Org_131_ug/L**	**SW_HH_304_Org_ug/L**
VOCs															
Dibromochloromethane (chlorodibromomethane)	124-48-1	EPA 8260C	1.40E+04	2.10E+01	3.50E+04	5.10E+02	na	na	na	na	na	na	3.00E+00	2.20E+00	2.10E+01
Dibromomethane (methylene bromide)	74-95-3	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
Dichlorobromomethane	75-27-4	EPA 8260C	1.40E+04	2.80E+01	3.50E+04	7.00E+02	na	na	na	na	na	na	3.60E+00	2.80E+00	2.70E+01
Dichlorodifluoromethane (CFC-12)	75-71-8	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
Ethylbenzene	100-41-4	EPA 8260C	6.90E+03	na	1.70E+04	na	na	na	na	na	na	na	2.70E+02	3.10E+01	1.30E+02
Ethylene dibromide (EDB)	106-93-4	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
Isopropylbenzene (Cumene)	98-82-8	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
m,p-Xylene	179601-23-1	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
Methyl ethyl ketone (2-Butanone, MEK)	78-93-3	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
Methyl isobutyl ketone (MIBK)	108-10-1	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
Methyl tert-butyl ether (MTBE)	1634-04-4	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
Methylene chloride	75-09-2	EPA 8260C	1.70E+04	3.60E+03	4.30E+04	9.00E+04	na	na	na	na	na	na	2.50E+02	1.00E+02	1.00E+03
n-Butylbenzene	104-51-8	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
n-Propylbenzene	103-65-1	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
o-Xylene	95-47-6	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
Pentachloroethane	na	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
sec-Butylbenzene	135-98-8	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
Styrene	100-42-5	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
tert-Butylbenzene	98-06-6	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
Tetrachloroethylene (PCE)	127-18-4	EPA 8260C	5.00E+02	1.00E+02	1.30E+03	2.50E+03	na	na	na	na	na	na	7.10E+00	2.90E+00	2.90E+01
Toluene	108-88-3	EPA 8260C	1.90E+04	na	4.80E+04	na	na	na	na	na	na	na	4.10E+02	1.30E+02	5.20E+02
Total xylenes	1330-20-7	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
trans-1,2-Dichloroethylene	156-60-5	EPA 8260C	3.30E+04	na	8.20E+04	na	na	na	na	na	na	na	5.80E+03	1.00E+03	4.00E+03
trans-1,3-Dichloropropene	10061-02-6	EPA 8260C	4.10E+04	3.40E+01	1.00E+05	8.50E+02	na	na	na	na	na	na	2.00E+00	1.20E+00	1.20E+01
Trichloroethylene (TCE)	79-01-6	EPA 8260C	na	na	na	na	na	na	na	na	na	na	8.60E-01	7.00E-01	7.00E+00
Trichlorofluoroethane	27154-33-2	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
Vinyl acetate	108-05-4	EPA 8260C	na	na	na	na	na	na	na	na	na	na	na	na	na
Vinyl chloride	75-01-4	EPA 8260C	6600	na	17000	na	na	na	na	na	na	na	0.26	0.18	1.6
SVOCs															
1,2-Dichlorobenzene	95-50-1	EPA 8270D	4.20E+03	na	1.00E+04	na	na	na	na	na	na	na	2.50E+03	8.00E+02	3.00E+03
1,3-Dichlorobenzene	541-73-1	EPA 8270D	na	na	na	na	na	na	na	na	na	na	1.60E+01	2.00E+00	1.00E+01
1,4-Dichlorobenzene	106-46-7	EPA 8270D	3.30E+03	2.20E+01	8.20E+03	5.40E+02	na	na	na	na	na	na	5.80E+02	2.00E+02	9.00E+02
1,4-Dioxane	123-91-1	EPA 8270D	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4,5-Trichlorophenol	na	EPA 8270D	na	na	na	na	na	na	na	na	na	na	na	na	6.00E+02
2,4,6-Trichlorophenol	na	EPA 8270D	1.70E+01	3.90E+00	4.30E+01	9.80E+01	na	na	na	na	na	na	2.80E-01	2.80E-01	2.80E+00
2,4-Dichlorophenol	120-83-2	EPA 8270D	1.90E+02	na	4.80E+02	na	na	na	na	na	na	na	3.40E+01	1.00E+01	6.00E+01
2,4-Dimethylphenol	105-67-9	EPA 8270D	5.50E+02	na	1.40E+03	na	na	na	na	na	na	na	9.70E+01	9.70E+01	3.00E+03
2,4-Dinitrophenol	51-28-5	EPA 8270D	3.50E+03	na	8.60E+03	na	na	na	na	na	na	na	6.10E+02	1.00E+02	3.00E+02
2,4-Dinitrotoluene	121-14-2	EPA 8270D	1.40E+03	5.50E+00	3.40E+03	1.40E+02	na	na	na	na	na	na	1.80E-01	1.80E-01	1.70E+00
2,6-Dinitrotoluene	606-20-2	EPA 8270D	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Chloronaphthalene (beta-chloronaphthalene)	91-58-7	EPA 8270D	1.00E+03	na	2.60E+03	na	na	na	na	na	na	na	1.80E+02	1.00E+02	1.00E+03
2-Chlorophenol	95-57-8	EPA 8270D	9.70E+01	na	2.40E+02	na	na	na	na	na	na	na	1.70E+01	1.70E+01	na
2-Methylphenol (o-Cresol)	95-48-7	EPA 8270D	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Nitroaniline	88-74-4	EPA 8270D	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Nitrophenol	88-75-5	EPA 8270D	na	na	na	na	na	na	na	na	na	na	na	na	na
4,6-Dinitro-2-methylphenol	534-52-1	EPA 8270D	na	na	na	na	na	na	na	na	na	na	2.50E+01	7.00E+00	3.00E+01
4-Bromophenyl phenyl ether	101-55-3	EPA 8270D	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Chloro-3-methylphenol (chlorocresol)	59-50-7	EPA 8270D	na	na	na	na	na	na	na	na	na	na	3.60E+01	3.60E+01	2.00E+03
4-Chloroaniline (chloroaniline;p-)	106-47-8	EPA 8270D	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Chlorophenyl phenyl ether	7005-72-3	EPA 8270D	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Methylphenol (p-Cresol)	106-44-5	EPA 8270D	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Nitrophenol	100-02-7	EPA 8270D	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzyl alcohol	100-51-6	EPA 8270D	na	na	na	na	na	na	na	na	na	na	na	na	na
Bis(2-chloroethoxy)methane	111-91-1	EPA 8270D	na	na	na	na	na	na	na	na	na	na	na	na	na
Bis(2-chloroethyl)ether	111-44-4	EPA 8270D	na	8.50E-01	na	2.10E+01	na	na	na	na	na	na	6.00E-02	6.00E-02	2.20E+00
Bis/Di(2-ethylhexyl) phthalate	117-81-7	EPA 8270D	4.00E+02	3.60E+00	1.00E+03	8.90E+01	na	na	na	na	na	na	2.50E-01	4.60E-02	3.70E-01
bis/Di(2-Ethylhexyl)adipate	na	EPA 8270D	na	na	na	na	na	na	na	na	na	na	na	na	na

TABLE 2-1
Groundwater Cleanup Levels and Contaminants of Potential Concern
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Chemical	Lowest ARAR (ug/L)	Groundwater Screening Level (ug/L)	MDL Used as Reporting Limit (2)	No. of Analyses	Number of Detections	Total % Detections	Highest Recorded Groundwater Concentation at DMC (ug/L)	Location with Highest Concentration	Detections Above CUL	Total % of Samples with Detections Over CUL	Number of Different Locations with CUL Exceedance	Exceedance Factor for Highest Concentrations	Preliminary Groundwater COPC List Based on Groundwater CUL	Final Groundwater COPC List If number of locations > 2 and Exceedance Factor > 2 and Total % Detections Over CUL > 5%, **OR** Exceedance Factor >10	
Chemical															
VOCs															
Dibromochloromethane (chlorodibromomethane)	2.20E+00	2.20E+00		50	0	0.0%	---	---	0	0.0%	0				
Dibromomethane (methylene bromide)	0.00E+00	na		50	0	0.0%	---	---	0	0.0%	0				
Dichlorobromomethane	2.80E+00	2.80E+00		50	0	0.0%	---	---	0	0.0%	0				
Dichlorodifluoromethane (CFC-12)	0.00E+00	na		50	0	0.0%	---	---	0	0.0%	0				
Ethylbenzene	3.10E+01	3.10E+01	X	61	5	8.2%	2.29E+00	MW16	0	0.0%	0				
Ethylene dibromide (EDB)	0.00E+00	na		50	0	0.0%	---	---	0	0.0%	0				
Isopropylbenzene (Cumene)	0.00E+00	na		61	1	1.6%	6.00E-01	MW2D	0	0.0%	0				
m,p-Xylene	0.00E+00	na		50	0	0.0%	---	---	0	0.0%	0				
Methyl ethyl ketone (2-Butanone, MEK)	0.00E+00	na		18	0	0.0%	---	---	0	0.0%	0				
Methyl isobutyl ketone (MIBK)	0.00E+00	na		50	0	0.0%	---	---	0	0.0%	0				
Methyl tert-butyl ether (MTBE)	0.00E+00	na		50	0	0.0%	---	---	0	0.0%	0				
Methylene chloride	1.00E+02	1.00E+02		50	0	0.0%	---	---	0	0.0%	0				
n-Butylbenzene	0.00E+00	na		50	0	0.0%	---	---	0	0.0%	0				
n-Propylbenzene	0.00E+00	na		50	0	0.0%	---	---	0	0.0%	0				
o-Xylene	0.00E+00	na		50	0	0.0%	---	---	0	0.0%	0				
Pentachloroethane	0.00E+00	na		50	0	0.0%	---	---	0	0.0%	0				
sec-Butylbenzene	0.00E+00	na		50	0	0.0%	---	---	0	0.0%	0				
Styrene	0.00E+00	na		50	0	0.0%	---	---	0	0.0%	0				
tert-Butylbenzene	0.00E+00	na		50	0	0.0%	---	---	0	0.0%	0				
Tetrachloroethylene (PCE)	2.90E+00	2.90E+00		50	1	2.0%	6.90E-01	MW1	0	0.0%	0				
Toluene	1.30E+02	1.30E+02		50	2	4.0%	1.08E+00	MW16	0	0.0%	0				
Total xylenes	0.00E+00	na		50	6	12.0%	6.55E+00	MW16	0	0.0%	0				
trans-1,2-Dichloroethylene	1.00E+03	1.00E+03		50	0	0.0%	---	---	0	0.0%	0				
trans-1,3-Dichloropropene	1.20E+00	1.20E+00		50	0	0.0%	---	---	0	0.0%	0				
Trichloroethylene (TCE)	7.00E-01	7.00E-01		50	0	0.0%	---	---	0	0.0%	0				
Trichlorofluoroethane	0.00E+00	na		50	0	0.0%	---	---	0	0.0%	0				
Vinyl acetate	0.00E+00	na		50	0	0.0%	---	---	0	0.0%	0				
Vinyl chloride	1.80E-01	1.80E-01		50	1	2.0%	3.70E-01	MW12D	0	0.0%	0				
SVOCs															
1,2-Dichlorobenzene	8.00E+02	8.00E+02		50	0	0.0%	---	---	0	0.0%	0				
1,3-Dichlorobenzene	2.00E+00	2.00E+00		50	0	0.0%	---	---	0	0.0%	0				
1,4-Dichlorobenzene	2.00E+02	2.00E+02		50	0	0.0%	---	---	0	0.0%	0				
1,4-Dioxane	0.00E+00	na		17	2	11.8%	1.79E+00	MW09	0	0.0%	0				
2,4,5-Trichlorophenol	6.00E+02	6.00E+02		50	0	0.0%	---	---	0	0.0%	0				
2,4,6-Trichlorophenol	2.80E-01	2.80E-01		50	0	0.0%	---	---	0	0.0%	0				
2,4-Dichlorophenol	1.00E+01	1.00E+01		50	0	0.0%	---	---	0	0.0%	0				
2,4-Dimethylphenol	9.70E+01	9.70E+01		50	1	2.0%	---	---	0	0.0%	0				
2,4-Dinitrophenol	1.00E+02	1.00E+02		50	0	0.0%	---	---	0	0.0%	0				
2,4-Dinitrotoluene	1.80E-01	1.80E-01		50	0	0.0%	---	---	0	0.0%	0				
2,6-Dinitrotoluene	0.00E+00	na		50	0	0.0%	---	---	0	0.0%	0				
2-Chloronaphthalene (beta-chloronaphthalene)	1.00E+02	1.00E+02		50	0	0.0%	---	---	0	0.0%	0				
2-Chlorophenol	1.70E+01	1.70E+01		50	0	0.0%	---	---	0	0.0%	0				
2-Methylphenol (o-Cresol)	0.00E+00	na		50	1	2.0%	1.56E+01	MW16	0	0.0%	0				
2-Nitroaniline	0.00E+00	na		50	0	0.0%	---		0	0.0%	0				
2-Nitrophenol	0.00E+00	na		50	0	0.0%	---	---	0	0.0%	0				
4,6-Dinitro-2-methylphenol	7.00E+00	7.00E+00		50	0	0.0%	---	---	0	0.0%	0				
4-Bromophenyl phenyl ether	0.00E+00	na		50	0	0.0%	---	---	0	0.0%	0				
4-Chloro-3-methylphenol (chlorocresol)	3.60E+01	3.60E+01		50	0	0.0%	---	---	0	0.0%	0				
4-Chloroaniline (chloroaniline;p-)	0.00E+00	na		50	0	0.0%	---	---	0	0.0%	0				
4-Chlorophenyl phenyl ether	0.00E+00	na		50	0	0.0%	---	---	0	0.0%	0				
4-Methylphenol (p-Cresol)	0.00E+00	na		50	1	2.0%	3.03E+01	MW16	0	0.0%	0				
4-Nitrophenol	0.00E+00	na		50	0	0.0%	---	---	0	0.0%	0				
Benzyl alcohol	0.00E+00	na		50	0	0.0%	---	---	0	0.0%	0				
Bis(2-chloroethoxy)methane	0.00E+00	na		50	0	0.0%	---	---	0	0.0%	0				
Bis(2-chloroethyl)ether	6.00E-02	6.00E-02		50	0	0.0%	---	---	0	0.0%	0				
Bis/Di(2-ethylhexyl) phthalate	4.60E-02	4.60E-02	X	49	17	34.7%	2.74E-01	MW14	**15**	**30.6%**	**15**	**5**	Bis/Di(2-ethylhexyl) phthalate	Bis/Di(2-ethylhexyl) phthalate	
bis/Di(2-Ethylhexyl)adipate	0.00E+00	na		50	2	4.0%	1.47E+01	MW09D	0	0.0%	0				

TABLE 2-1
Groundwater Cleanup Levels and Contaminants of Potential Concern
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Chemical	CAS No.	FAI Method	Surface Water (1) Method B Non cancer (µg/L)	Surface Water (1) Method B Cancer (µg/L)	Surface Water (1) Method C Non cancer (µg/L)	Surface Water (1) Method C Cancer (µg/L)	Surface Water Aquatic Life Marine/Acute 173-201A WAC (µg/L)	Surface Water Aquatic Life Marine/Acute NTR 40 CFR 131 (µg/L)	Surface Water Aquatic Life Marine/Acute CWA §304 (µg/L)	Surface Water Aquatic Life Marine/Chronic 173-201A WAC (µg/L)	Surface Water Aquatic Life Marine/Chronic NTR 40 CFR 131 (µg/L)	Surface Water Aquatic Life Marine/Chronic CWA §304 (µg/L)	Surface Water Human Health Marine Waters 173-201A WAC (µg/L)	Surface Water Human Health Marine Waters NTR 40 CFR 131 (µg/L)	Surface Water Human Health Marine Waters CWA §304 (µg/L)
Chemical	**CAS**		**SW_B_Non-Canc_ug/L**	**SW_B_Canc_ug/L**	**SW_C_Non-Canc_ug/L**	**SW_C_Canc_ug/L**	**SW_AqL_MAc_201A_ug/L**	**SW_AqL_MAc_NTR_131_ug/L**	**SW_AqL_MAc_304_ug/L**	**SW_AqL_MChr_201A_ug/L**	**SW_AqL_MChr_NTR_131_ug/L**	**SW_AqL_MChr_304_ug/L**	**SW_HH_Org_201A_ug/L**	**SW_HH_NTR_Org_131_ug/L**	**SW_HH_304_Org_ug/L**
SVOCs															
Butyl benzyl phthalate	85-68-7	EPA 8270D	1.30E+03	8.20E+00	3.10E+03	2.10E+02	na	na	na	na	na	na	5.80E-01	1.30E-02	1.00E-01
Carbazole	86-74-8	EPA 8270D	na	na	na	na	na	na	na	na	na	na	na	na	na
Dibutyl phthalate	84-74-2	EPA 8270D	2.90E+03	na	7.30E+03	na	na	na	na	na	na	na	5.10E+02	8.00E+00	3.00E+01
Diethyl phthalate (phthalic acid)	84-66-2	EPA 8270D	na	na	na	na	na	na	na	na	na	na	na	na	na
Dimethyl phthalate	131-11-3	EPA 8270D	na	na	na	na	na	na	na	na	na	na	1.30E+05	6.00E+02	2.00E+03
Di-n-octyl phthalate	117-84-0	EPA 8270D	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexachlorobenzene	118-74-1	EPA 8270D	2.40E-01	4.70E-04	6.00E-01	1.20E-02	na	na	na	na	na	na	5.20E-05	5.00E-06	7.90E-05
Hexachlorobutadiene	87-68-3	EPA 8270D	9.30E+02	3.00E+01	2.30E+03	7.50E+02	na	na	na	na	na	na	4.10E+00	1.00E-02	1.00E-02
Hexachlorocyclopentadiene	77-47-4	EPA 8270D	3.60E+03	na	9.00E+03	na	na	na	na	na	na	na	6.30E+02	1.00E+00	4.00E+00
Hexachloroethane	67-72-1	EPA 8270D	2.10E+01	1.90E+00	5.20E+01	4.70E+01	na	na	na	na	na	na	1.30E-01	2.00E-02	1.00E-01
Isophorone	78-59-1	EPA 8270D	1.20E+05	1.60E+03	3.00E+05	3.90E+04	na	na	na	na	na	na	1.10E+02	1.10E+02	1.80E+03
Nitrobenzene	98-95-3	EPA 8270D	1.80E+03	na	4.50E+03	na	na	na	na	na	na	na	3.20E+02	1.00E+02	6.00E+02
n-Nitrosodi-n-propylamine	621-64-7	EPA 8270D	na	8.20E-01	na	2.00E+01	na	na	na	na	na	na	5.80E-02	5.80E-02	5.10E-01
Pentachlorophenol	87-86-5	EPA 8270D	1.20E+03	1.50E+00	2.90E+03	3.70E+01	1.30E+01	1.30E+01	1.30E+01	7.90E+00	7.90E+00	7.90E+00	1.00E-01	2.00E-03	4.00E-02
Phenol	108-95-2	EPA 8270D	5.60E+05	na	1.40E+06	na	na	na	na	na	na	na	2.00E+05	7.00E+04	3.00E+05
PAHs															
1-Methylnaphthalene	90-12-0	EPA 8270D SIM	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Methylnaphthalene	91-57-6	EPA 8270D SIM	na	na	na	na	na	na	na	na	na	na	na	na	na
Acenaphthene	83-32-9	EPA 8270D SIM	6.40E+02	na	1.60E+03	na	na	na	na	na	na	na	1.10E+02	3.00E+01	9.00E+01
Acenaphthylene	208-96-8	EPA 8270D SIM	na	na	na	na	na	na	na	na	na	na	na	na	na
Anthracene	120-12-7	EPA 8270D SIM	2.60E+04	na	6.50E+04	na	na	na	na	na	na	na	4.60E+03	1.00E+02	4.00E+02
Benzo(a)anthracene	56-55-3	EPA 8270D SIM	na	na	na	na	na	na	na	na	na	na	2.10E-02	1.60E-04	1.30E-03
Benzo(a)pyrene	50-32-8	EPA 8270D SIM	2.60E+01	2.20E-01	6.50E+01	5.40E+00	na	na	na	na	na	na	2.10E-03	1.60E-05	1.30E-04
Benzo(b)fluoranthene	205-99-2	EPA 8270D SIM	na	na	na	na	na	na	na	na	na	na	2.10E-02	1.60E-04	1.30E-03
Benzo(g,h,i)perylene	191-24-2	EPA 8270D SIM	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(k)fluoranthene	207-08-9	EPA 8270D SIM	na	na	na	na	na	na	na	na	na	na	2.10E-01	1.60E-03	1.30E-02
Chrysene	218-01-9	EPA 8270D SIM	na	na	na	na	na	na	na	na	na	na	2.10E+00	1.60E-02	1.30E-01
Dibenz(a,h)anthracene	53-70-3	EPA 8270D SIM	na	na	na	na	na	na	na	na	na	na	2.10E-03	1.60E-05	1.30E-04
Dibenzofuran	132-64-9	EPA 8270D SIM	na	na	na	na	na	na	na	na	na	na	na	na	na
Fluoranthene	206-44-0	EPA 8270D SIM	9.00E+01	na	2.30E+02	na	na	na	na	na	na	na	1.60E+01	6.00E+00	2.00E+01
Fluorene	86-73-7	EPA 8270D SIM	3.50E+03	na	8.60E+03	na	na	na	na	na	na	na	6.10E+02	1.00E+01	7.00E+01
Indeno(1,2,3-cd)pyrene	193-39-5	EPA 8270D SIM	na	na	na	na	na	na	na	na	na	na	2.10E-02	1.60E-04	1.30E-03
Naphthalene**	91-20-3	EPA 8270D SIM	4.90E+03	na	1.20E+04	na	na	na	na	na	na	na	na	na	na
Phenanthrene	85-01-8	EPA 8270D SIM	na	na	na	na	na	na	na	na	na	na	na	na	na
Pyrene	129-00-0	EPA 8270D SIM	na	2.60E+03	na	6.50E+03	na	na	na	na	na	na	na	4.60E+02	8.00E+00
Tins															
Tributyltin	36643-28-4	Krone 1988	na	na	na	na	na	na	4.20E-01	na	na	7.40E-03	na	na	na
Dioxins/Furans															
TCDD, 2,3,7,8 (dioxin)	1746016	EPA 1613B	3.60E-07	1.00E-08	9.10E-07	2.50E-07	na	na	na	na	na	na	6.40E-08	1.40E-08	5.10E-09
TPH															
Gasoline range organics without benzene (3)	J	NWTPH-Gx	1.00E+03	na	na	na	na	na	na	na	na	na	na	na	na
Diesel range organics (3)	K	NWTPH-Dx	5.00E+02	na	na	na	na	na	na	na	na	na	na	na	na
Oil range organics (Lube Oil) (3)	L	NWTPH-Dx	5.00E+02	na	na	na	na	na	na	na	na	na	na	na	na

Notes:

(1) MTCA Method B and C Grouundwater Values Used Only if Non-Potable Surface-Water Screening Levels were not Available.

(2) (MDL) for One or More Sampling Events. See Summary

(3) Contaminants

TCDD Yellow Highlight Indicates that Contaminant Was Not Included in Analysis

Aroclor… Green Highlight Indicates that Analyte is Included in Total PCB Concentration

na Cleanup/Permit Level Not Available

** Naphthalene analyzed by methods 8270D SIM and 8260C

NTR National Toxics Rule

CFR Code of Federal Regulations

WAC Washington Administrative Code

CWA Clean Water Act

TABLE 2-1
Groundwater Cleanup Levels and Contaminants of Potential Concern
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Chemical	Lowest ARAR (ug/L)	Groundwater Screening Level (ug/L)	MDL Used as Reporting Limit (2)	No. of Analyses	Number of Detections	Total % Detections	Highest Recorded Groundwater Concentation at DMC (ug/L)	Location with Highest Concentration	Detections Above CUL	Total % of Samples with Detections Over CUL	Number of Different Locations with CUL Exceedance	Exceedance Factor for Highest Concentrations	Preliminary Groundwater COPC List Based on Groundwater CUL	Final Groundwater COPC List If number of locations > 2 and Exceedance Factor > 2 and Total % Detections Over CUL > 5%, **OR** Exceedance Factor >10
Chemical														
SVOCs														
Butyl benzyl phthalate	1.30E-02	1.30E-02	X	50	0	0.0%	---	---	0	0.0%	0			
Carbazole	0.00E+00	na		57	3	5.3%	1.70E+01	MW3D	0	0.0%	0			
Dibutyl phthalate	8.00E+00	8.00E+00		50	0	0.0%	---	---	0	0.0%	0			
Diethyl phthalate (phthalic acid)	0.00E+00	na		50	0	0.0%	---	---	0	0.0%	0			
Dimethyl phthalate	6.00E+02	6.00E+02		50	0	0.0%	---	---	0	0.0%	0			
Di-n-octyl phthalate	0.00E+00	na		50	0	0.0%	---	---	0	0.0%	0			
Hexachlorobenzene	5.00E-06	5.00E-06		50	0	0.0%	---	---	0	0.0%	0			
Hexachlorobutadiene	1.00E-02	1.00E-02		50	0	0.0%	---	---	0	0.0%	0			
Hexachlorocyclopentadiene	1.00E+00	1.00E+00		50	0	0.0%	---	---	0	0.0%	0			
Hexachloroethane	2.00E-02	2.00E-02		50	0	0.0%	---	---	0	0.0%	0			
Isophorone	1.10E+02	1.10E+02		50	0	0.0%	---	---	0	0.0%	0			
Nitrobenzene	1.00E+02	1.00E+02		57	1	1.8%	2.10E+00	MW3	0	0.0%	0			
n-Nitrosodi-n-propylamine	5.80E-02	5.80E-02		50	0	0.0%	---	---	0	0.0%	0			
Pentachlorophenol	2.00E-03	2.00E-03	X	50	3	6.0%	3.66E+00	MW06	**3**	**6.0%**	**1**	**1,830**	Pentachlorophenol	Pentachlorophenol
Phenol	7.00E+04	7.00E+04		50	0	0.0%	---	---	0	0.0%	0			
PAHs														
1-Methylnaphthalene	0.00E+00	na		62	40	64.5%	1.13E+02	MW16	0	0.0%	0			
2-Methylnaphthalene	0.00E+00	na		62	42	67.7%	1.22E+02	MW16	0	0.0%	0			
Acenaphthene	3.00E+01	3.00E+01		62	42	67.7%	1.35E+02	MW16	**4**	**6.5%**	**2**	**4**	Acenaphthene	Acenaphthene
Acenaphthylene	0.00E+00	na	X	62	12	19.4%	1.91E+00	MW16	0	0.0%	0			
Anthracene	1.00E+02	1.00E+02		62	26	41.9%	5.70E+00	MW2	0	0.0%	0			
Benzo(a)anthracene	1.60E-04	1.60E-04	X	62	12	19.4%	1.10E+01	MW2	**12**	**19.4%**	**9**	**68,750**	Benzo(a)anthracene	Benzo(a)anthracene
Benzo(a)pyrene	1.60E-05	1.60E-05	X	62	7	11.3%	1.30E+01	MW2	**7**	**11.3%**	**6**	**812,500**	Benzo(a)pyrene	Benzo(a)pyrene
Benzo(b)fluoranthene	1.60E-04	1.60E-04	X	62	9	14.5%	9.60E+00	MW2	**9**	**14.5%**	**7**	**59,999**	Benzo(b)fluoranthene	Benzo(b)fluoranthene
Benzo(g,h,i)perylene	0.00E+00	na	X	62	12	19.4%	7.00E+00	MW2	0	0.0%	0			
Benzo(k)fluoranthene	1.60E-03	1.60E-03	X	62	6	9.7%	1.30E+01	MW2	**6**	**9.7%**	**6**	**8,125**	Benzo(k)fluoranthene	Benzo(k)fluoranthene
Chrysene	1.60E-02	1.60E-02	X	62	12	19.4%	1.50E+01	MW2	**10**	**16.1%**	**7**	**937**	Chrysene	Chrysene
Dibenz(a,h)anthracene	1.60E-05	1.60E-05	X	62	6	9.7%	6.80E-01	MW2	**6**	**9.7%**	**6**	**42,500**	Dibenz(a,h)anthracene	Dibenz(a,h)anthracene
Dibenzofuran	0.00E+00	na		58	4	6.9%	7.17E+01	MW16	0	0.0%	**0**			
Fluoranthene	6.00E+00	6.00E+00		61	19	31.1%	2.40E+01	MW2	**3**	**4.9%**	**3**	**4**	Fluoranthene	
Fluorene	1.00E+01	1.00E+01		62	27	43.5%	6.58E+01	MW16	**5**	**8.1%**	**3**	**6**	Fluorene	Fluorene
Indeno(1,2,3-cd)pyrene	1.60E-04	1.60E-04	X	62	15	24.2%	6.80E+00	MW2	**15**	**24.2%**	**13**	**42,499**	Indeno(1,2,3-cd)pyrene	Indeno(1,2,3-cd)pyrene
Naphthalene**	4.90E+03	4.90E+03		62	42	67.7%	1.89E+03	MW16	0	0.0%	0			
Phenanthrene	0.00E+00	na		62	20	32.3%	7.25E+01	MW16	0	0.0%	0			
Pyrene	8.00E+00	8.00E+00	X	61	21	34.4%	2.40E+01	MW2	**1**	**1.6%**	**1**	**3**	Pyrene	
Tins														
Tributytin	7.40E-03	7.40E-03		17	0	0.0%	---	---	0	0.0%	0			
Dioxins/Furans														
TCDD, 2,3,7,8 (dioxin)	5.10E-09	5.10E-09		0	---	---	---	---	---	---				
TPH														
Gasoline range organics without benzene (3)	1.00E+03	1.00E+03		57	5	8.8%	1.44E+03	MW16	**1**	**1.8%**	**1**	**1**	Gasoline range organics without benzene (3)	
Diesel range organics (3)	5.00E+02	5.00E+02		65	23	35.4%	2.70E+03	MW2	**8**	**12.3%**	**4**	**5**	Diesel range organics (3)	Diesel range organics (3)
Oil range organics (Lube Oil) (3)	5.00E+02	5.00E+02		65	31	47.7%	4.90E+03	MW2	**10**	**15.4%**	**7**	**9**	Oil range organics (Lube Oil) (3)	Oil range organics (Lube Oil) (3)

Notes:

	MTCA Method B and C Grouundwater Values Used Only if
(1)	Non-Potable Surface-Water Screening Levels were not Available.
(2)	(MDL) for One or More Sampling Events. See Summary
(3)	Contaminants
TCDD	Yellow Highlight Indicates that Contaminant Was Not Included in Analysis
Aroclor…	Green Highlight Indicates that Analyte is Included in Total PCB Concentration
na	Cleanup/Permit Level Not Available
**	Naphthalene analyzed by methods 8270D SIM and 8260C
NTR	National Toxics Rule
CFR	Code of Federal Regulations
WAC	Washington Administrative Code
CWA	Clean Water Act

TABLE 2-1a
Preliminary List of Groundwater Contaminants of Potential Concern
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Groundwater COPC	Cleanup Level Basis	Lowest Cleanup Level, ug/L
Arsenic	NTR 40 CFR 131, Human Health, Marine	1.40E-01
Copper	WAC 173-201A, Aquatic Life, Marine	3.10E+00
Lead	WAC 173-201A, Aquatic Life, Marine	8.10E+00
Mercury	WAC 173-201A, Aquatic Life, Marine	2.50E-02
Nickel	WAC 173-201A, Aquatic Life, Marine	8.20E+00
Zinc	WAC 173-201A, Aquatic Life, Marine	8.10E+01
Total PCB Aroclors	NTR 40 CFR 131, Human Health, Marine	7.00E-06
Total PCB Congeners	NTR 40 CFR 131, Human Health, Marine	7.00E-06
Acenaphthene	NTR 40 CFR 131, Human Health, Marine	3.00E+01
Fluorene	NTR 40 CFR 131, Human Health, Marine	1.00E+01
Bis(2-ethylhexyl)phthalate	NTR 40 CFR 131, Human Health, Marine	4.60E-02
Pentachlorophenol	NTR 40 CFR 131, Human Health, Marine	2.00E-03
Benzo(a)anthracene	NTR 40 CFR 131, Human Health, Marine	1.60E-04
Benzo(a)pyrene	NTR 40 CFR 131, Human Health, Marine	1.60E-05
Benzo(b)fluoranthene	NTR 40 CFR 131, Human Health, Marine	1.60E-04
Benzo(k)fluoranthene	NTR 40 CFR 131, Human Health, Marine	1.60E-03
Chrysene	NTR 40 CFR 131, Human Health, Marine	1.60E-02
Indeno(1,2,3-cd)pyrene	NTR 40 CFR 131, Human Health, Marine	1.60E-04
Dibenzo(a,h)anthracene	NTR 40 CFR 131, Human Health, Marine	1.60E-05
Diesel range organics	MTCA Method A	5.00E+02
Oil range organics (Lube Oil)	MTCA Method A	5.00E+02

Notes:

(1) Contaminant Also Included on the Soil COPC List

TABLE 2-2
Groundwater Sample Analyses, Metals
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	Antimony	Antimony, Dissolved	Arsenic	Arsenic, Dissolved	Barium	Barium, Dissolved	Beryllium	Beryllium, Dissolved	Cadmium	Cadmium, Dissolved	Chromium (III/VI)	Chromium (III/VI), Dissolved	Copper	Copper, Dissolved	Lead	Lead, Dissolved	Mercury	Mercury, Dissolved	Nickel	Nickel, Dissolved	Selenium	Selenium, Dissolved	Silver	Silver, Dissolved	Thallium	Thallium, Dissolved	Zinc	Zinc, Dissolved	Tri-n-butyltin
Most Conservative Cleanup Levels (1)				90	90	0.140	0.140	na	na	270	270	8.8	8.8	240,000	240,000	3.1	3.1	8.1	8.1	0.025	0.025	8.2	8.2	71	71	1.9	1.9	0.27	0.27	81	81	0.0074
(units in ug/L)																															
Grab-Groundwater Samples																															
B2-R	Riley Group	8/3/2000	B-2-W	---	---	**3.6**	**---**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**20**	---	---	---	---	---	---	---	**65**	---	---
B3-R	Riley Group	8/3/2000	B-3-W	---	---	**3.9**	**---**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**6.4**	---	---	---	---	---	---	**300**	---	---
SB-3N	Farallon	1/8/2004	SB3-GW	---	---	**9.2**	**---**	---	---	---	---	---	---	**26**	---	---	---	**3.9**	---	---	---	**93**	---	---	---	---	---	---	---	---	---	---
Groundwater Samples																															
MW1	Farallon	3/27/2002	MW1	**7.1**	---	<3.3	**---**	---	---	---	---	<4.4	---	**20**	---	**49**	---	**59**	<1.0	<0.50	---	<22	---	<5.6	---	---	---	---	---	**500**	---	---
	Pacific Crest	6/5/2008	MW1-060508	<5.6	<5.0	<3.3	<3.0	---	---	---	---	<4.4	<4.0	<11	<10	<11	<10	<1.1	<1.0	<0.50	<0.50	<22	<20	<5.6	<5.0	---	---	---	---	**150**	**130**	---
MW-1D	Pacific Crest	6/4/2008	MW-1D-060408	<5.6	<5.0	**---**	<3.0	---	---	---	---	<4.4	<4.0	<11	<10	<11	<10	<1.1	<1.0	<0.50	<0.50	<22	<20	---	<5.0	---	---	---	---	<28	<50	---
MW2	Farallon	5/13/2002	MW2	**56**	---	**220**	**13**	---	---	---	---	**12**	<4.0	**140**	---	**810**	---	**2,100**	<1.0	**2**	<0.50	**240**	---	**34**	---	---	---	---	---	**2,000**	---	---
	Farallon	12/4/2002	MW2	---	---	**---**	**---**	---	---	---	---	---	---	---	---	---	**39**	---	---	---	---	---	**7.2**	---	---	---	---	---	---	---	<25	---
	Pacific Crest*	6/4/2008	---	---	---	**---**	**---**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-2D	Pacific Crest	6/4/2008	MW-2D-060408	<5.6	<5.0	**4**	<3.0	---	---	---	---	<4.4	<4.0	<11	<10	<11	<10	**1.4**	<1.0	<0.50	<0.50	<22	<20	<5.0	<5.0	---	---	---	---	<28	<25	---
MW3	Farallon	3/27/2002	MW3	**7.9**	---	**12.0**	<3.0	---	---	---	---	---	<4.0	**58**	**19**	**140**	---	**89.0**	**1.2**	**1**	---	<22	---	**10**	---	---	---	---	---	**150**	---	---
	Farallon	11/5/2003	MW3	---	---	**---**	**---**	---	---	---	---	---	---	---	---	---	<11	---	---	<0.50	---	---	---	---	---	---	---	---	---	---	---	---
	Farallon	2/6/2004	MW3020604-01	---	---	**---**	**---**	---	---	---	---	---	---	---	---	---	<10	---	---	<0.50	---	---	---	---	---	---	---	---	---	---	---	---
	Farallon	5/12/2004	GW1-051204-01	---	---	**---**	**---**	---	---	---	---	---	---	---	---	---	<10	---	---	**0.50**	---	---	---	---	---	---	---	---	---	---	---	---
	Farallon	8/20/2004	MW3-082004	---	---	**---**	**---**	---	---	---	---	---	---	---	---	---	<10	---	---	<0.50	---	---	---	---	---	---	---	---	---	---	---	---
	Pacific Crest	6/9/2008	MW3-060908	<5.6	<5.0	**15**	**6.0**	---	---	---	---	<4.4	<4.0	<10	<10	<11	<10	<1.1	<1.0	<0.50	<0.50	<22	<20	---	<7.5	---	---	---	---	<28	<50	---
	Pacific Crest	6/9/2008	DUP-060908	---	<5.0	**---**	**6.3**	---	---	---	---	---	<4.0	---	**21**	---	<10	---	<1.0	---	<0.50	---	<20	---	<7.5	---	---	---	---	---	<50	---
MW-3D	Pacific Crest	6/4/2008	MW-3D-060408	<5.6	<5.0	**---**	<3.0	---	---	---	---	<4.4	<4.0	<11	<10	<11	<10	<1.1	<1.0	<0.50	<0.50	<22	<20	<5.6	<5.0	---	---	---	---	<28	<50	---
MW4	Farallon	3/27/2002	MW4	**5.6**	---	**8**	**5.7**	---	---	---	---	<4.4	---	**24**	---	**45**	---	**7**	---	<0.50	---	**37**	---	**33**	---	---	---	---	---	<56	---	---
	Pacific Crest	6/4/2008	MW4-060408	<5.6	<5.0	<3.0	<3.0	---	---	---	---	<4.4	<4.0	**18**	**17**	<11	<10	<1.1	<1.0	<0.50	<0.50	**32**	**30**	<10	<7.5	---	---	---	---	<28	<50	---
MW-4D	Pacific Crest	6/4/2008	MW-4D-060408	<5.6	<5.0	<3.3	<3.0	---	---	---	---	<4.4	<4.0	<11	<10	<11	<10	<1.1	<1.0	<0.50	<0.50	<22	<20	<5.6	<5.0	---	---	---	---	<28	<50	---
MW05	G-Logics*	12/17/2015	---	---	---	**---**	**---**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	G-Logics	4/20/2016	MW05-20160420	**0.496 J**	**0.438**	**0.824 J**	**0.606 J**	**93.5**	**55.9**	<0.200	<0.200	<0.0900	<0.0900	**1.15**	**0.290 J**	**1.05 J**	<0.500	**1.44**	<1.00	**0.000967**	<0.0005	**5.25**	**5.16**	<1.00	<1.00	<0.200	<0.200	<0.0700	<0.0700	**4.20**	<1.50	---
	G-Logics	9/15/2016	MW05-20160915	**0.816**	**0.792**	**0.385 J**	**0.334 J**	**31.2**	**21.4**	<0.200	<0.200	<0.200	<0.200	**1.14**	**0.319 J**	<0.500	<0.500	<1.00	<1.00	<0.0005	<0.0005	**5.84**	**5.47**	<1.00	<1.00	<0.200	<0.200	<0.200	<0.200	**2.57**	<1.50	<0.05
MW06	G-Logics	12/17/2015	MW06-20151217	**0.399**	**0.394**	**1.92**	<1.00	---	---	<0.200	<0.200	<0.200	<0.200	**1.14**	<0.500	<0.500	<0.500	<1.00	<1.00	---	<0.0005	**1.59**	**1.44**	**1.23**	**2.07**	<0.200	<0.200	<0.200	<0.200	**1.50**	<1.50	---
	G-Logics	4/21/2016	MW06-20160421	**0.542 J**	**0.611**	**0.579 J**	**0.409 J**	**13.0**	**14.0**	<0.200	<0.200	<0.0900	<0.0900	**0.615**	**0.216 J**	**1.83 J**	**1.45**	<1.00	<1.00	**0.000955**	**0.000565**	**0.933**	**0.839**	**1.38**	**1.46**	<0.200	<0.200	<0.0700	<0.0700	**6.41**	**1.70**	---
	G-Logics	9/15/2016	MW06-20160914	<0.200	<0.200	**2.89**	**2.04**	**9.8**	**6.64**	<0.200	<0.200	<0.200	<0.200	**2.54**	**1.35**	**0.508**	<0.500	<1.00	<1.00	**0.00120**	**0.000943**	**1.32**	**1.050**	<1.00	<1.00	<0.200	<0.200	<0.200	<0.200	**5.53 J**	**8.09 J**	<0.05
MW07	G-Logics	12/17/2015	MW07-20151217	<0.200	<0.200	**41.4**	**10.1**	---	---	<0.200	<0.200	<0.200	<0.200	**1.67**	<0.500	**0.587**	<0.500	**3.37**	<1.00	<0.0005	<0.0005	**0.761**	**0.634**	**1.52**	<1.00	<0.200	<0.200	<0.200	<0.200	<1.50	<1.50	---
	G-Logics	4/21/2016	MW07-20160421	<0.200 JU	<0.200	**29.4**	**10.9**	**16.7**	**3.45**	<0.200	<0.200	<0.0900	<0.0900	**0.761**	<0.0620 J	**0.617 JU**	<0.500	<1.00	<1.00	<0.0005	<0.0005	<0.500	**0.543**	<1.00	<1.00	<0.200	<0.200	<0.0700	<0.0700	**7.69 J**	<1.50	---
	G-Logics	4/21/2016	FD2-20160421 (dup)	<0.200 JU	<0.200	**30.0**	**19.5 J**	**17.1**	**4.02**	<0.200	<0.200	<0.0900	<0.0900	**0.848**	<0.0620	**0.524 J**	<0.500	<1.00	<1.00	<0.0005	<0.0005	**0.582**	<0.500	<1.00	<1.00	<0.200	<0.200	<0.0700	<0.0700	**3.02 J**	<1.50	---
	G-Logics	9/14/2016	MW07-20160914	<0.200	<0.200	**38.3**	**6.6**	**19.4**	**5.10**	<0.200	<0.200	<0.200	<0.200	**1.26**	**0.245 J**	<0.500	<0.500	<1.00	<1.00	<0.0005	<0.0005	**0.697**	<0.500	<1.00	<1.00	<0.200	<0.200	<0.200	<0.200	**2.49**	<1.50	<0.05
MW08	G-Logics	12/21/2015	MW08-20151221	**0.850**	**0.849**	**1.14**	<1.00	---	---	<0.200	<0.200	<0.200	<0.200	**0.798**	**0.586**	**1.49**	**0.678**	**6.54**	**1.54**	**0.002 J**	<0.0005	**1.80**	**1.78**	<1.00	<1.00	<0.200	<0.200	<0.200	<0.200	**3.98 J**	<1.50	---
	G-Logics	12/21/2015	MWFD1-20151221 (dup)	**0.798 J**	**0.838**	<1.00	<1.00	---	---	<0.200	<0.200	<0.200	<0.200	**0.854**	<0.500	**1.09 J**	**0.731**	**6.71**	**1.57**	**0.00104 J**	<0.0005	**1.66**	**1.67**	<1.00	<1.00	<0.200	<0.200	<0.200	<0.200	<1.50 JU	<1.50	---
	G-Logics	4/20/2016	MW08-20160420	**1.75**	**1.81**	**0.819 J**	<0.0720	**33.5**	**31.5**	<0.200	<0.200	<0.0900	<0.0900	**0.310 J**	<0.0620	**1.11**	**0.835**	**1.10**	<1.00	**0.00943**	<0.0005	**1.09**	**1.04**	<1.00	<1.00	<0.200	<0.200	<0.0700	<0.0700	**14.7**	<1.50	---
	G-Logics	9/15/2016	MW08-20160915	**0.785**	**0.772**	**1.59**	**1.44**	**34.8**	**32.7**	<0.200	<0.200	<0.200	<0.200	**0.868**	<0.0620	**0.597**	<0.500	**1.41**	<1.00	**0.00153**	<0.0005	**1.10**	**0.846**	<1.00	<1.00	<0.200	<0.200	<0.200	<0.200	**3.61**	<1.50	<0.05
MW09	G-Logics	12/17/2015	MW09-20151217	<0.200	<0.200	**1.47**	<1.00	---	---	<0.200	<0.200	<0.200	<0.200	**2.11**	**0.646**	**0.671**	<0.500	<1.00	<1.00	<0.0005	<0.0005	**0.706**	**0.650**	<1.00	<1.00	<0.200	<0.200	<0.200	<0.200	<1.50	<1.50	---
	G-Logics	4/21/2016	MW09-20160421	<0.200 JU	<0.200	**0.661 J**	**0.661 J**	**8.96**	**5.35**	<0.200	<0.200	<0.0900	<0.0900	**1.20**	**1.20**	**0.536 J**	<0.500	<1.00	<1.00	<0.0005	<0.0005	**0.609**	<0.500	<1.00	<1.00	<0.200	<0.200	<0.0700	<0.0700	**2.17**	<1.50	---
	G-Logics	9/13/2016	MW-09-20160913	<0.200	<0.200	<0.0720	**0.0835 J**	**7.83**	**2.17**	<0.200	<0.200	<0.200	<0.200	**2.42**	**0.801**	<0.500	<0.500	<1.00	<1.00	<0.0005 R	**0.0722 DJ**	<0.500	<0.500	<1.00	<1.00	<0.200	<0.200	<0.200	<0.200	**4.11**	**1.77**	<0.05
MW09D	G-Logics	12/17/2015	MW09D-20151217	<0.200	<0.200	<1.00	<1.00	---	---	<0.200	<0.200	<0.200	<0.200	**1.91**	**0.530**	<0.500	<0.500	<1.00	<1.00	<0.0005	<0.0005	**0.643**	<0.500	<1.00	<1.00	<0.200	<0.200	<0.200	<0.200	<1.50	<1.50	---
	G-Logics	4/21/2016	MW09D-20160421	<0.200 JU	<0.200	**0.104 J**	<0.0720	**8.21**	**2.55**	<0.200	<0.200	<0.0900	<0.0900	**0.916**	<0.0620	<0.500 JU	<0.500	<1.00	<1.00	<0.0005	<0.0005	**0.670**	<0.500	<1.00	<1.00	<0.200	<0.200	<0.0700	<0.0700	<1.50	<1.50	---
	G-Logics	9/16/2016	MW09D-20160916	**0.451 J**	<0.200	**0.488 J**	**0.0780 J**	**4.53**	**1.02**	<0.200	<0.200	<0.200	<0.200	**1.88**	**0.472 J**	**0.674**	<0.500	<1.00	<1.00	<0.0005	<0.0005	<0.500	<0.500	<1.00	<1.00	<0.200	<0.200	<0.200	<0.200	<1.50	<1.50	<0.05
MW10	G-Logics	12/17/2015	MW10-20151217	**2.06**	**1.92**	**1.24**	**1.25**	---	---	<0.200	<0.200	<0.200	<0.200	**0.781**	**0.530**	**2.20**	**2.05**	<1.00	<1.00	<0.0005	**0.00151**	<0.500	<0.500	<1.00	<1.00	<0.200	<0.200	<0.200	<0.200	<1.50	<1.50	---
	G-Logics	4/20/2016	MW10-20160420	**2.32 J**	**2.36 J**	**1.51**	**1.51**	**1.53**	**0.972**	<0.200	<0.200	<0.0900	<0.0900	**0.443 J**	<0.0620	**3.39 J**	**2.62**	<1.00	<1.00	**0.00232**	**0.00121**	**0.982**	<0.500	**1.28**	**1.16**	<0.200	<0.200	<0.0700	<0.0700	**5.45**	<1.50	---
	G-Logics	9/16/2016	MW10-20160916	**0.720**	**1.02**	**2.41**	**1.37**	**3.19**	**20.3**	<0.200	<0.200	<0.200	<0.200	**3.55**	**0.549**	**6.76**	**1.80**	<1.00	<1.00	**0.00381**	**0.00236**	**2.79**	**1.57**	<1.00	<1.00	<0.200	<0.200	<0.200	<0.200	**4.06**	**1.88**	<0.05

TABLE 2-2
Groundwater Sample Analyses, Metals
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	Antimony	Antimony, Dissolved	Arsenic	Arsenic, Dissolved	Barium	Barium, Dissolved	Beryllium	Beryllium, Dissolved	Cadmium	Cadmium, Dissolved	Chromium (III/VI)	Chromium (III/VI), Dissolved	Copper	Copper, Dissolved	Lead	Lead, Dissolved	Mercury	Mercury, Dissolved	Nickel	Nickel, Dissolved	Selenium	Selenium, Dissolved	Silver	Silver, Dissolved	Thallium	Thallium, Dissolved	Zinc	Zinc, Dissolved	Tri-n-butyltin
Most Conservative Cleanup Levels (1)				90	90	0.140	0.140	na	na	270	270	8.8	8.8	240,000	240,000	3.1	3.1	8.1	8.1	0.025	0.025	8.2	8.2	71	71	1.9	1.9	0.27	0.27	81	81	0.0074
(units in ug/L)																															
MW10D	G-Logics	12/17/2015	MW10D-20151217	<0.200	<0.200	2.07	<1.00	---	---	<0.200	<0.200	<0.200	<0.200	1.56	<0.500	<0.500	<0.500	<1.00	<1.00	<0.0005	<0.0005	<0.500	<0.500	<1.00	<1.00	<0.200	<0.200	<0.200	<0.200	<1.50	<1.50	---
	G-Logics	4/20/2016	MW10D-20160420	<0.200 JU	<0.200	1.90	<0.0720	7.39	<0.500	<0.200	<0.200	<0.0900	<0.0900	2.91	<0.0620	4.21 J	<0.500	1.76	<1.00	<0.0005	<0.0005	1.93	<0.500	<1.00	<1.00	<0.200	<0.200	<0.0700	<0.0700	37.0	<1.50	---
	G-Logics	9/16/2016	MW10D-20160916	<0.200 JU	0.264	1.78	0.582 J	2.87	<0.500	<0.200	<0.200	<0.200	<0.200	1.82	0.459 J	0.760	<0.500	<1.00	<1.00	<0.0005	<0.0005	<0.500	<0.500	<1.00	<1.00	<0.200	<0.200	<0.200	<0.200	2.20	<1.50	<0.05
MW11	G-Logics	12/21/2015	MW11-20151221	1.27 D	1.68 D	1.95 JD	2.41 JD	---	---	<0.100 D	<1.00 D	0.543 JD	0.0325 JD	1.13 JD	0.363 JD	<2.50 D	<2.50 D	0.325 JD	0.163 JD	<0.0005	<0.0005	8.47 D	8.57 D	<5.00 D	1.84 JD	<1.00 D	0.360 JD	0.0100 JD	<1.00 D	24.2 D	<7.50 D	---
	G-Logics	12/21/2015	MWFD2-20151221 (dup)	1.22 D	1.62 D	2.61 D	1.39 JD	---	---	0.0175 JD	<1.00 D	0.478 JD	0.0275 JD	1.41 JD	1.47 JD	2.09 JD	<2.50 D	0.453 JD	<5.00 D	0.00509	<0.0005	9.20 D	8.61 D	3.91 JD	3.09 JD	<1.00 D	<1.00 D	<1.00 D	<1.00 D	30.7 D	<7.50 D	---
	G-Logics	4/20/2016	MW11-20160420	0.404 J	0.440	1.24	0.786 J	51.4	46.4	<0.200	<0.200	0.203	<0.0900	1.58	0.186 J	1.32 J	<0.500	<1.00	<1.00	<0.0005	<0.0005	10.2	8.07	1.17	1.76	<0.200	<0.200	<0.0700	<0.0700	30.9	8.26	---
	G-Logics	9/15/2016	MW11-20160915**	0.558 DJ	0.453 DJ	4.45 DJ	2.06 DJ	375 D	331 D	0.0175 DJ	<0.0150 D	4.26 DJ	<0.0150 JU	0.565 DJ	<0.0150	12.1 DJ	<0.585 DJU	<0.110 D	<0.110 D	<0.0005	<0.0005	8.00 D	8.13 D	6.68 D	8.56 DJ	<0.160 DJU	<0.160 DJU	<0.0100 D	<0.0100 D	113 DJ	16.9 D	<0.05
	G-Logics	9/15/2016	FD2-20160915 (dup)**	0.840 DJ	2.43 DJ	5.47 D	4.04 DJ	328 D	328 D	0.0500 DJ	<0.0150 D	<0.0150 DJU	0.0925 DJ	<0.310 D	0.578 DJ	<0.585 DJU	1.83 DJ	0.122 JD	<0.110 D	<0.0005	<0.0005	6.90 D	7.77 D	8.70 D	4.00 DJ	2.30 DBJ	1.92 DJ	0.0400 DJ	<0.0100 D	18.1 DJ	21.5 D	<0.05
MW12	G-Logics	12/17/2015	MW12-20151217	1.11	0.377	58.9	4.30	---	---	0.209	<0.200	0.348	<0.200	10.8	<0.500	35.7	<0.500	40.8	<1.00	<0.0005	<0.0005	9.01	0.703	2.29	<1.00	<0.200	<0.200	<0.200	<0.200	153	2.05	---
	G-Logics	4/20/2016	MW12-20160420	0.429 J	0.367	40.9	3.79	31.0	6.80	<0.200	<0.200	<0.0900	<0.0900	1.30	0.504	1.05 J	<0.500	<1.00	<1.00	<0.0005	<0.0005	2.14	1.34	<1.00	1.23	<0.200	<0.200	<0.0700	<0.0700	28.8	18.7	---
	G-Logics	9/14/2016	MW12-20161914	<0.200	<0.200	28.0	4.31	16.4	2.25	<0.200	<0.200	<0.200	<0.200	3.33	0.654	2.74	<0.500	3.27	<1.00	0.00185	0.00122	0.796	<0.500	1.17	1.15	<0.200	<0.200	<0.200	<0.200	8.84	<1.50	<0.05
MW12D	G-Logics	12/17/2015	MW12D-20151217	<0.200	<0.200	<1.00	<1.00	---	---	<0.200	<0.200	<0.200	<0.200	1.60	0.586	<0.500	<0.500	<1.00	<1.00	<0.0005	<0.0005	0.506	<0.500	1.16	<1.00	<0.200	<0.200	<0.200	<0.200	<1.50	<1.50	---
	G-Logics	4/20/2016	MW12D-20160420	<0.200 JU	<0.200	0.240 J	<0.0720	6.55	0.915	<0.200	<0.200	<0.0900	<0.0900	2.55	0.484 J	0.884 J	<0.500	<1.00	<1.00	0.000601	<0.0005	1.43	0.587	<1.00	<1.00	<0.200	<0.200	<0.0700	<0.0700	4.64	<1.50	---
	G-Logics	9/15/2016	MW12D-20161915	<0.200	<0.200	<0.0720	<0.0720	5.90	5.20	<0.200	<0.200	<0.200	<0.200	1.90	0.643	<0.500	<0.500	<1.00	<1.00	<0.0005	<0.0005	0.686	<0.500	<1.00	<1.00	<0.200	<0.200	<0.200	<0.200	1.99	1.58	<0.05
MW13	G-Logics	12/21/2015	MW13-20151221	0.249	0.233	35.3	4.46	---	---	<0.200	<0.200	<0.200	<0.200	1.72	0.574	1.44	<0.500	1.18	<1.00	<0.0005	<0.0005	0.850	<0.500	<1.00	<1.00	<0.200	<0.200	<0.200	<0.200	<1.50	<1.50	---
	G-Logics	4/21/2016	MW13-201560421	<0.200 JU	<0.200	27.0	13.1	26.1	9.12	<0.200	<0.200	<0.0900	<0.0900	1.59	0.618	<0.500 JU	<0.500	<1.00	<1.00	<0.0005	<0.0005	0.676	0.569	<1.00	<1.00	<0.200	<0.200	<0.0700	<0.200	3.13	<1.50	---
	G-Logics	9/13/2016	MW-13-20160913	0.268	0.375	34.7	3.68 J	31	6.82	<0.200	<0.200	<0.200	<0.200	1.91	0.434 J	<0.500	<0.500	<1.00	<1.00	<0.0005 R	<0.0005 JU	1.52 J	0.972	<1.00	1.22	<0.200	<0.200	<0.200	<0.200	5.25 J	<1.50	<0.05
	G-Logics	9/13/2016	FD1-20160913 (dup)	0.242	0.235	34.7	7.49 J	29.5	9.63	<0.200	<0.200	<0.200	<0.200	1.69	0.503	<0.500	<0.500	<1.00	<1.00	<0.0005 R	0.035 J	0.959 J	1.10	<1.00	<1.00	<0.200	<0.200	<0.200	<0.200	2.07 J	<1.50	<0.05
MW14	G-Logics	12/21/2015	MW14-20151221	<0.200	0.303	21.8	12.4	---	---	0.306	<0.200	0.950	<0.200	13.0	1.19	5.22	<0.500	52.0	<1.00	<0.0005	<0.0005	5.90	1.67	2.45	<1.00	<0.200	<0.200	<0.200	<0.200	102	<1.50	---
	G-Logics	4/21/2016	MW14-20160421	<0.200 JU	<0.200	5.35	3.12	193	38.3	0.400	<0.200	1.00	<0.0900	12.0	1.17	1.47 JU	<0.500	31.1	<1.00	<0.0005	<0.0005	5.68	0.720	2.21	1.86	<0.200	<0.200	<0.200	<0.0700	127	<1.50	---
	G-Logics	9/13/2016	MW-14-20160913	<0.200 JU	1.09 J	11.5	5.23	967	67.7	5.47	<0.200	2.03	<0.200	142	1.75	<0.500	<0.500	116	<1.00	<0.0005 R	0.000648 J	68.1	3.56	23.3	<1.00	<0.200	<0.200	<0.200	<0.200	1,640	2.33	<0.05
MW15	G-Logics	12/17/2015	MW15-20151217	1.13	1.02	2.14	<1.00	---	---	<0.200	<0.200	<0.200	<0.200	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<0.0005	0.000910	0.798	0.721	<1.00	<1.00	<0.200	<0.200	<0.200	<0.200	19.0	16.3	---
	G-Logics	4/20/2016	MW15-20160420	0.389 J	0.373	2.89	<1.00	9.7	7.04	<0.200	<0.200	<0.0900	<0.0900	0.600	<0.500	<0.500 JU	<0.500	<1.00	<1.00	0.000697	<0.0005	1.75	1.32	<1.00	<1.00	<0.200	<0.200	<0.0700	<0.0700	14.8	11.1	---
	G-Logics	4/20/2016	FD1-20160420 (dup)	0.430 J	0.313	2.68	0.442 J	10.1	7.35	<0.200	<0.200	<0.0900	<0.0900	0.639	0.218 J	0.621 J	<0.500	<1.00	<1.00	0.000727	<0.0005	1.87	1.28	<1.00	<1.00	<0.200	<0.200	<0.0700	<0.0700	14.4	11.2	---
	G-Logics	9/13/2016	MW-15-20160913	0.348	0.278	5.69	1.23	12.1	4.27	<0.200	<0.200	<0.200	<0.200	1.36	0.148 J	1.78	<0.500	1.70	<1.00	0.00226 J	0.105 DJ	0.710	0.584	<1.00	<1.00	<0.200	0.224	<0.200	<0.200	7.54	2.11	<0.05
MW16	G-Logics	12/21/2015	MW16-20151221	0.920 JD	1.00 D	8.24 D	2.16 JD	---	---	0.0275 JD	<1.00 D	0.0800 JD	0.0175 JD	2.70 D	0.995 JD	3.00 D	<2.50 D	29.7 D	0.113 JD	0.00315	<0.0005	2.09 D	1.26 JD	1.35 JD	3.76 JD	<1.00 D	<1.00 D	0.0100 JD	<1.00 D	<7.50 D	<7.50 D	---
	G-Logics	4/21/2016	MW16-20160421	1.37 J	1.62	5.46	2.71	318	244	<0.200	<0.200	<0.0900	<0.0900	1.98	0.828	<0.500 JU	<0.500	<1.00	<1.00	0.00062	<0.0005	1.09	1.20	1.40	1.67	<0.200	<0.200	<0.0700	<0.0700	5.91	3.89	---
	G-Logics	9/13/2016	MW16-20160914	4.86	3.52	5.79	3.85	302	260	<0.200	<0.200	<0.200	<0.200	2.20	0.818	<0.500 JU	1.33 J	2.84	<1.00	0.00141	<0.0005	1.07	0.759	2.59	2.98	<0.200	<0.200	<0.200	<0.200	5.94	5.30	<0.05
Seep-Water Samples																															
Seep 82	SoundEarth	2/24/2015	Seep82-01-20150224	<1.5	1.88	11.6	13.3	---	---	<0.3	<0.3	<0.5	<0.5	<1.5	<1.5	19.6	24.6	<1.5	<0.3	0.0024	0.0036	4.86	5.20	40.8	43.8	<0.3	<0.3	<0.1	<0.1	125	125	---

Notes: Refer to site diagram(s) for sampling locations.

(1) See Table 2-1 for Details Regarding Groundwater Cleanup Levels and Screening Criteria.

na Cleanup Level Not Available

* Well Inaccessible During Sampling Event

dup Blind Field Duplicate

--- Not Analyzed/No Data

nd Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified

<50.0 Not Detected at Specified Laboratory Reporting Limit

<49.9 Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level

250 Bold Number(s) Indicates Contaminant Detected.

1,440 Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level

1.70 Bold Number(s) and Purple Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level, but is Not a Final COPC

B Analyte Detected in Associated Method Blank

D Dilution Required

J Estimated Concentration, Analyte Detected Below Reporting Limit

TABLE 2-3
Groundwater Sample Analyses, Polychlorinated Biphenyls (PCBs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Total PCB Aroclors (2)	Total PCB Congeners
Most Conservative Cleanup Levels (1)				0.003	na	na	na	na	0.003	0.003	na	na	0.000007	0.000007
(units in ug/L)														
Grab-Groundwater Samples														
B2-R	Riley Group	8/3/2000	B-2-W	---	---	---	---	---	---	---	---	---	---	---
B3-R	Riley Group	8/3/2000	B-3-W	---	---	---	---	---	---	---	---	---	---	---
SB-3N	Farallon	1/8/2004	SB3-GW	---	---	---	---	**0.48**	---	---	---	---	**0.48**	---
Groundwater Samples														
MW1	Farallon	3/27/2002	MW1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	---	---	<0.05	---
	Pacific Crest	6/5/2008	MW1-060508	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	---
MW-1D	Pacific Crest	6/4/2008	MW-1D-060408	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	---
MW2	Farallon	3/27/2002	MW2	<0.05	<0.05	<0.05	**0.15**	<0.05	<0.05	**0.13**	---	---	**0.28**	---
	Farallon	12/4/2002	---	---	---	---	---	---	---	---	---	---	---	---
	Pacific Crest*	6/4/2008	---	---	---	---	---	---	---	---	---	---	---	---
MW-2D	Pacific Crest	6/4/2008	MW-2D-060408	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	---
MW3	Farallon	3/27/2002	MW3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	---	---	<0.05	---
	Farallon	11/5/2003	MW3	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	---	---	<0.047	---
	Farallon	2/6/2004	MW3020604-01	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	---	---	<0.048	---
	Farallon	5/12/2004	GW1-051204-01	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	<0.047	---	---	<0.047	---
	Farallon	8/20/2004	MW3-082004	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	---	---	<0.10	---
	Pacific Crest	6/9/2008	MW3-060908	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	---
	Pacific Crest	6/9/2008	DUP-060908	---	---	---	---	---	---	---	---	---	---	---
MW-3D	Pacific Crest	6/4/2008	MW-3D-060408	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	---
MW4	Farallon	3/27/2002	MW4	<0.05	<0.05	<0.05	**0.67**	<0.05	**0.17**	**0.11**	---	---	**0.95**	---
	Pacific Crest	6/4/2008	MW4-060408	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	---
MW-4D	Pacific Crest	6/4/2008	MW-4D-060408	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	---

TABLE 2-3
Groundwater Sample Analyses, Polychlorinated Biphenyls (PCBs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Total PCB Aroclors (2)	Total PCB Congeners
Most Conservative Cleanup Levels (1)				0.003	na	na	na	na	0.003	0.003	na	na	0.000007	0.000007
(units in ug/L)														
MW05	G-Logics*	12/17/2015	---	---	---	---	---	---	---	---	---	---	---	---
	G-Logics	4/20/2016	MW05-20160420	<0.00155	<0.00797	<0.00797	<0.00797	<0.00498	<0.000416	<0.00797	<0.00797	<0.00797	<0.00797	---
	G-Logics	9/15/2016	MW05-20160915	<0.00156	<0.00799	<0.00799	<0.00799	<0.00500	<0.0 0418	<0.00799	<0.00799	<0.00799	<0.00799	---
MW06	G-Logics	12/17/2015	MW06-20151217	<0.00311	<0.00316	<0.00316	<0.00316	<0.00316	<0.00316	<0.00316	<0.00316	<0.00316	<0.00316	---
	G-Logics	4/21/2016	MW06-20160421	<0.00156	<0.00799	<0.00799	<0.00799	<0.00500	<0.000418	<0.00159	<0.00799	<0.00799	<0.00799	---
	G-Logics	9/14/2016	MW06-20160914	<0.00155	<0.00796	<0.00796	<0.00796	<0.00498	<0.000416	<0.00158	<0.00796	<0.00796	<0.00796	---
MW07	G-Logics	12/17/2015	MW07-20151217	<0.00309	<0.00314	<0.00314	<0.00314	<0.00314	<0.00314	<0.00314	<0.00314	<0.00314	<0.00314	---
	G-Logics	12/21/2015	MW07-20160421	<0.00155	<0.00795	<0.00795	<0.00795	<0.00497	<0.000415	<0.00158	<0.00795	<0.00795	<0.00795	---
	G-Logics	4/21/2016	FD2-20160421	<0.00156	<0.00800	<0.00800	<0.00800	<0.00500	<0.000418	<0.00159	<0.00800	<0.00800	<0.00800	---
	G-Logics	9/14/2016	MW07-20160914	<0.00155	<0.00796	<0.00796	<0.00796	<0.00497	<0.000416	<0.00158	<0.00796	<0.00796	<0.00796	---
MW08	G-Logics	12/21/2015	MW08-20151221	<0.00999	<0.00999	<0.00999	<0.00999	<0.00999	<0.00999	<0.00999	<0.00999	<0.00999	<0.00999	---
	G-Logics	12/21/2015	MWFD1-20151221 (dup)	<0.00999	<0.00999	<0.00999	<0.00999	<0.00999	<0.00999	<0.00999	<0.00999	<0.00999	<0.00999	---
	G-Logics	4/20/2016	MW08-20160420	<0.00156	<0.00798	<0.00798	<0.00798	<0.00499	<0.000417	<0.00159	<0.00798	<0.00798	<0.00798	---
	G-Logics	9/15/2016	MW08-20160915	<0.00156	<0.00798	<0.00798	<0.00798	<0.00499	<0.000417	<0.00159	<0.00798	<0.00798	<0.00798	---
	Ecology	5/31/2017	DMC-MW-8	---	---	---	---	---	---	---	---	---	<0.01	**0.00112 J**
MW09	G-Logics	12/17/2015	MW09-20151217	<0.00310	<0.00316	<0.00316	<0.00316	<0.00316	<0.00316	<0.00316	<0.00316	<0.00316	<0.00316	---
	G-Logics	4/21/2016	MW09-20160421	<0.00155	<0.00797	<0.00797	<0.00797	<0.00498	<0.000416	<0.00158	<0.00797	<0.00797	<0.00797	---
	G-Logics	9/13/2016	MW-09-20160913	<0.00155	<0.00794	<0.00794	<0.00794	<0.00496	<0.000415	<0.00158	<0.00794	<0.00794	<0.00794	---
MW09D	G-Logics	12/17/2015	MW09D-20151217	<0.00312	<0.00317	<0.00317	<0.00317	<0.00317	<0.00317	<0.00317	<0.00317	<0.00317	<0.00317	---
	G-Logics	4/21/2016	MW09D-20160421	<0.00156	<0.00798	<0.00798	<0.00798	<0.00499	<0.000417	<0.00159	<0.00798	<0.00798	<0.00798	---
	G-Logics	9/16/2016	MW09D-20160916	<0.00160	<0.00819	<0.00819	<0.00819	<0.00512	<0.000428	<0.00163	<0.00819	<0.00819	<0.00819	---
MW10	G-Logics	12/17/2015	MW10-20151217	<0.00310	<0.00315	<0.00315	<0.00315	<0.00315	<0.00315	<0.00315	<0.00315	<0.00315	<0.00315	---
	G-Logics	4/20/2016	MW10-20160420	<0.00156	<0.00798	<0.00798	<0.00798	<0.00499	<0.000417	<0.00159	<0.00798	<0.00798	<0.00798	---
	G-Logics	9/16/2016	MW10-20160916	<0.00156	<0.00798	<0.00798	<0.00798	<0.00499	<0.000417	<0.00159	<0.00798	<0.00798	<0.00798	---
	Ecology	5/31/2017	DMC-MW-10	---	---	---	---	---	---	---	---	---	<0.01	**0.000159 J**

TABLE 2-3
Groundwater Sample Analyses, Polychlorinated Biphenyls (PCBs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Total PCB Aroclors (2)	Total PCB Congeners
Most Conservative Cleanup Levels (1)				0.003	na	na	na	na	0.003	0.003	na	na	0.000007	0.000007
(units in ug/L)														
MW10D	G-Logics	12/17/2015	MW10D-20151217	<0.00312	<0.00317	<0.00317	<0.00317	<0.00317	<0.00317	<0.00317	<0.00317	<0.00317	<0.00317	---
	G-Logics	4/20/2016	MW10D-20160420	<0.00156	<0.00798	<0.00798	<0.00798	<0.00499	<0.000417	<0.00159	<0.00798	<0.00798	<0.00798	---
	G-Logics	9/16/2016	MW10D-20160916	<0.00156	<0.00801	<0.00801	<0.00801	<0.00501	<0.000419	<0.00159	<0.00801	<0.00801	<0.00801	---
MW11	G-Logics	12/21/2015	MW11-20151221	<0.00999	<0.00999	<0.00999	<0.00999	<0.00999	<0.00999	<0.00999	<0.00999	<0.00999	<0.00999	---
	G-Logics	12/21/2015	MWFD2-20151221 (dup)	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	---
	G-Logics	4/20/2016	MW11-20160420	<0.00156	<0.00798	<0.00798	<0.00798	<0.00498	<0.000417	<0.00159	<0.00798	<0.00798	<0.00798	---
	G-Logics	9/15/2015	MW11-20160915	<0.00156	<0.00802	<0.00802	<0.00802	<0.00501	<0.000419	<0.00159	<0.00802	<0.00802	<0.00802	---
	G-Logics	9/15/2016	FD2-20160915 (dup)	<0.00156	<0.00802	<0.00802	<0.00802	<0.00501	<0.000419	<0.00159	<0.00802	<0.00802	<0.00802	---
MW12	G-Logics	12/17/2015	MW12-20151217	<0.00312	<0.00317	<0.00317	<0.00317	<0.00317	<0.00317	<0.00317	<0.00317	<0.00317	<0.00317	---
	G-Logics	4/20/2016	MW12-20160420	<0.00156	<0.00799	<0.00799	<0.00799	<0.00499	<0.000417	<0.00159	<0.00799	<0.00799	<0.00799	---
	G-Logics	9/14/2016	MW12-20160914	<0.00155	<0.00793	<0.00793	<0.00793	<0.00496	<0.000414	<0.00158	<0.00793	<0.00793	<0.00793	---
MW12D	G-Logics	12/17/2015	MW12D-20151217	<0.00312	<0.00317	<0.00317	<0.00317	<0.00317	<0.00317	<0.00317	<0.00317	<0.00317	<0.00317	---
	G-Logics	4/20/2016	MW12D-20160420	<0.00156	<0.00799	<0.00799	<0.00799	<0.00500	<0.000418	<0.00159	<0.00799	<0.00799	<0.00799	---
	G-Logics	9/15/2016	MW12D-20160915	<0.00156	<0.00801	<0.00801	<0.00801	<0.00501	<0.000419	<0.00159	<0.00801	<0.00801	<0.00801	---
MW13	G-Logics	12/21/2015	MW13-20151221	<0.00998	<0.00998	<0.00998	<0.00998	<0.00998	<0.00998	<0.00998	<0.00998	<0.00998	<0.00998	---
	G-Logics	4/21/2016	MW13-201560421	<0.00156	<0.00799	<0.00799	<0.00799	<0.00499	<0.000417	<0.00159	<0.00799	<0.00799	<0.00799	---
	G-Logics	9/13/2016	MW-13-20160913	<0.00158	<0.00810	<0.00810	<0.00810	<0.00506	<0.000423	<0.00161	<0.00810	<0.00810	<0.00810	---
	G-Logics	9/13/2016	FD1-20160913 (dup)	<0.00155	<0.00796	<0.00796	<0.00796	<0.00497	<0.000416	<0.00158	<0.00796	<0.00796	<0.00796	---
MW14	G-Logics	12/21/2015	MW14-20151221	<0.00998	<0.00998	<0.00998	<0.00998	<0.00998	<0.00998	<0.00998	<0.00998	<0.00998	<0.00998	---
	G-Logics	4/21/2016	MW14-20160421	<0.00156	<0.00799	<0.00799	<0.00799	<0.00499	<0.000417	<0.00159	<0.00799	<0.00799	<0.00799	---
	G-Logics	9/13/2016	MW-14-20160913	<0.00165	<0.00847	<0.00847	<0.00847	<0.00530	<0.000443	<0.00168	<0.00847	<0.00847	<0.00847	---
MW15	G-Logics	12/17/2015	MW15-20151217	<0.00311	<0.00317	<0.00317	<0.00317	<0.00317	<0.00317	<0.00317	<0.00317	<0.00317	<0.00317	---
	G-Logics	4/20/2016	MW15-20160420	<0.00156	<0.00799	<0.00799	<0.00799	<0.00499	<0.000418	<0.00159	<0.00799	<0.00799	<0.00799	---
	G-Logics	4/20/2016	FD1-20160420 (dup)	<0.00157	<0.00807	<0.00807	<0.00807	<0.00504	<0.000422	<0.00160	<0.00807	<0.00807	<0.00807	---
	G-Logics	9/13/2016	MW-15-20160913	<0.00156	<0.00799	<0.00799	<0.00799	<0.00499	<0.000417	<0.00159	<0.00799	<0.00799	<0.00799	---

TABLE 2-3
Groundwater Sample Analyses, Polychlorinated Biphenyls (PCBs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Total PCB Aroclors (2)	Total PCB Congeners
Most Conservative Cleanup Levels (1)				0.003	na	na	na	na	0.003	0.003	na	na	0.000007	0.000007
(units in ug/L)														
MW16	G-Logics	12/21/2015	MW16-20151221	<0.00999	<0.00999	<0.00999	<0.00999	<0.00999	<0.00999	<0.00999	<0.00999	<0.00999	<0.00999	---
	G-Logics	4/21/2016	MW16-20160421	<0.00155	<0.00797	<0.00797	<0.00797	<0.00498	<0.000417	<0.00158	<0.00797	<0.00797	<0.00797	---
	G-Logics	9/14/2016	MW16-20160914	<0.00172	<0.00883	<0.00883	<0.00883	<0.00552	<0.000461	<0.00175	<0.00883	<0.00883	<0.00883	---
	Ecology	5/31/2017	DMC-MW-16	---	---	---	---	---	---	---	---	---	<0.01	**0.0148 J**
Seep-Water Samples														
Seep 82	SoundEarth	2/24/2015	Seep82-01-20150224	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	---

Notes:
Refer to site diagram(s) for sampling locations.

(1) See Table 2-1 for Details Regarding Groundwater Cleanup Levels and Screening Criteria.

(2) Total PCBs Calculated by Summing the Detected PCBs

na Cleanup Level Not Available

* Well Inaccessible During Sampling Event

dup Blind Field Duplicate

--- Not Analyzed/No Data

nd Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified

<50.0 Not Detected at Specified Laboratory Reporting Limit

<49.9 Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level

250 Bold Number(s) Indicates Contaminant Detected.

1,440 Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level

1.70 Bold Number(s) and Purple Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level, but is Not a Final COPC

TABLE 2-4
Groundwater Sample Analyses, Semivolatile Organic Compounds (SVOCs) and Polycyclic Aromatic Hydrocarbons (PAHs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	1-Methylnaphthalene	2,4-Dimethylphenol	2-Methylnaphthalene	2-Methylphenol (o-cresol)	4-Methylphenol (p-cresol)	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	Benzylbutylphthalate	Bis(2-ethylhexyl)phthalate	Bis(2-ethylhexyl) adipate	Carbazole	Dibenzofuran	Fluoranthene	Fluorene	Naphthalene	Nitrobenzene	Pentachlorophenol	Phenanthrene	Pyrene	Other SVOCs (2)
Most Conservative Cleanup Levels (1)				na	97	na	na	na	30	na	100	na	0.013	0.046	na	na	na	6	10	4,900	100	0.002	na	8	various
(units in ug/L)																									
Grab-Groundwater Samples																									
B2-R	Riley Group	8/3/2000	B-2-W	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B3-R	Riley Group	8/3/2000	B-3-W	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SB-3N	Farallon	1/8/2004	SB3-GW	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Groundwater Samples																									
MW1	Farallon	3/27/2002	MW1	**1.9**	---	**3.8**	---	---	**3.8**	<0.50	<0.5	<0.01	---	---	---	---	---	<0.50	**1.0**	**2.7**	---	---	<0.50	<0.50	---
	Pacific Crest	6/5/2008	MW1-060508	<0.10	---	<0.10	---	---	<0.10	<0.10	<0.10	<0.010	---	---	---	<1.0	<1.0	---	<0.10	<0.10	<1.0	---	<0.10	---	---
MW-1D	Pacific Crest	6/4/2008	MW-1D-060408	<0.10	---	<0.10	---	---	**0.2**	<0.10	<0.10	<0.010	---	---	---	<1.0	<1.0	<0.10	<0.10	<0.10	<1.0	---	<0.10	<0.10	---
MW2	Farallon	3/27/2002	MW2	**8.4**	---	**11.0**	---	---	**13.0**	**0.92**	**5.7**	**7.0**	---	---	---	---	---	**24.0**	**9.7**	**41.0**	---	---	**29.0**	**24.0**	---
	Farallon	12/4/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Pacific Crest*	6/4/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-2D	Pacific Crest	6/4/2008	MW-2D-060408	**6.7**	---	**6.7**	---	---	**18.0**	**0.14**	**2.2**	**0.35**	---	---	---	**2.7**	**7.50**	**4.6**	**10.0**	**17.0**	<1.0	---	**21.0**	**3.0**	---
MW3	Farallon	3/27/2002	MW3	**1.1**	---	**0.67**	---	---	**5.0**	<0.50	<0.50	**0.05**	---	---	---	---	---	<0.50	**1.50**	**17.0**	---	---	<0.50	<0.50	---
	Farallon	11/5/2003	MW3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Farallon	2/6/2004	MW3020604-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Farallon	5/12/2004	GW1-051204-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Farallon	8/20/2004	MW3-082004	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Pacific Crest	6/9/2008	MW3-060908	**1.1**	---	**0.51**	---	---	**2.0**	<0.1	<0.25	<0.010	---	---	---	<0.96	<0.96	<0.1	**0.26**	**12.0**	**2.1**	---	<0.1	<0.1	---
	Pacific Crest	6/9/2008	DUP-060908	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2.3**	---	---	---	---	---
MW-3D	Pacific Crest	6/4/2008	MW-3D-060408	**28.0**	---	**48.0**	---	---	**60.0**	**0.48**	**3.1**	<0.010	---	---	---	**17.0**	**29.0**	**13.0**	**34.0**	**280**	<1.0	---	**61.0**	**7.2**	---
MW4	Farallon	3/27/2002	MW4	<0.50	---	<0.50	---	---	<0.50	<0.50	<0.50	<0.013	---	---	---	---	---	<0.50	<0.50	<2.50	---	---	<0.50	<0.50	---
	Pacific Crest	6/4/2008	MW4-060408	<0.10	---	<0.10	---	---	<0.10	<0.10	<0.10	<0.010	---	---	---	<1.0	<1.0	<0.10	<0.10	<1.0	<1.0	---	<0.10	<0.10	---
MW-4D	Pacific Crest	6/4/2008	MW-4D-060408	<0.10	---	<0.10	---	---	<0.10	<0.10	<0.10	<0.010	---	---	---	<1.0	<1.0	<0.10	<0.10	<1.0	<1.0	---	**0.11**	<0.10	---
MW05	G-Logics*	12/17/2015	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	G-Logics	4/20/2016	MW05-20160420	**1.03 J**	<0.998 JU	**0.575 J**	<0.998 JU	<0.998 JU	**3.28 J**	**0.0585 J**	**0.0577 J**	<0.00534 JU	<0.00928 JU	---	<0.998 JU	<0.998 JU	<0.998 JU	**0.0837 J**	**0.529 J**	**0.304 J**	<2.00 R	<0.0172 JU	**0.544 J**	**0.0476 J**	nd
	G-Logics	9/15/2016	MW05-20160915	**0.0600 J**	<1.00	**0.0290 J**	<1.00	<1.00	**0.947**	<0.00242	**0.00954 J**	<0.0107	<0.00930	**0.0615 J**	<1.00	<1.00	<1.00	**0.0126 J**	**0.0287 J**	**0.0621 J**	<2.00	<0.0344	**0.0342 J**	<0.00936	nd
MW06	G-Logics	12/17/2015	MW06-20151217	<0.498	<0.997	<0.498	<0.997	<0.997	<0.498	<0.498	<0.498	<0.0108	<0.997	<0.997	<0.997	<4.98	<0.997	<0.498	<0.498	<0.498	<1.99	**3.66**	<0.498	<0.498	nd
	G-Logics	4/21/2016	MW06-20160421	<0.00102	<1.00	**0.00186 J**	<1.00	<1.00	**0.00487 J**	<0.00121	<0.00412	<0.00535	**0.0467 BJU**	**0.396 BJU**	<1.00	<1.00	<1.00	<0.00358	<0.00157	**0.00444 J**	<2.00 R	**0.453 J**	<0.00324	<0.00468	nd
	G-Logics	9/14/2016	MW06-20160914	**0.00611 J**	<0.999	**0.00619 J**	<0.999	<0.999	**0.0108 J**	<0.00242	<0.00823	<0.0107 QJU	<0.00929	**0.0780 J**	<0.999	<4.99	<0.999	<0.00716	<0.00314	**0.0231 J**	<2.00	**0.134**	<0.00648	<0.00935	nd
MW07	G-Logics	12/17/2015	MW07-20151217	<0.500	<1.00	<0.500	<1.00	<1.00	<0.500	<0.500	<0.500	<0.0108	<1.00	<1.00	<1.00	<5.00	<1.00	<0.500	<0.500	<0.500	<2.00	<0.109	<0.500	<0.500	nd
	G-Logics	12/21/2015	MW07-20160421	**0.00807 J**	<0.998	**0.00207 J**	<0.998	<0.998	**0.305**	**0.00640 J**	**0.0138 J**	<0.00533 JU	<0.00928	**0.395 BJU**	<0.998	<0.998	<0.998	<0.00357	**0.00593 J**	**0.0262 J**	<2.00 R	<0.0172	<0.00324	<0.00467	nd
	G-Logics	4/21/2016	FD2-20160421	**0.0102 J**	<1.00	**0.00214 J**	<1.00	<1.00	**0.341**	<0.00122	**0.0158 J**	**0.215 J**	<0.00934	**0.148 BJU**	<1.00	<1.00	<1.00	<0.00360	**0.00627 J**	**0.0393 J**	<2.01 JU	<0.0173	<0.00326	<0.00470	nd
	G-Logics	9/14/2016	MW07-20160914	**0.0363 J**	<0.999	**0.0105 J**	<0.999	<0.999	**0.560**	**0.00446 J**	**0.00911 J**	<0.0107 Q	<0.00930	**0.0667 J**	<0.999	<0.999	<0.999	<0.00716	**0.00404 J**	**0.0552 J**	<2.00	<0.0344	<0.00648	<0.00936	nd

TABLE 2-4
Groundwater Sample Analyses, Semivolatile Organic Compounds (SVOCs) and Polycyclic Aromatic Hydrocarbons (PAHs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	1-Methylnaphthalene	2,4-Dimethylphenol	2-Methylnaphthalene	2-Methylphenol (o-cresol)	4-Methylphenol (p-cresol)	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	Benzylbutylphthalate	Bis(2-ethylhexyl)phthalate	Bis(2-ethylhexyl) adipate	Carbazole	Dibenzofuran	Fluoranthene	Fluorene	Naphthalene	Nitrobenzene	Pentachlorophenol	Phenanthrene	Pyrene	Other SVOCs (2)
Most Conservative Cleanup Levels (1)				na	97	na	na	na	30	na	100	na	0.013	0.046	na	na	na	6	10	4,900	100	0.002	na	8	various
(units in ug/L)																									
MW08	G-Logics	12/21/2015	MW08-20151221	<0.498	<0.996 R	<0.498	<0.996	<0.996	<0.498	<0.498	<0.498	<0.0108	<0.996	<0.996	<0.996	<4.98	<0.996	<0.498	<0.498	<0.498	<1.99	<0.109	<0.498	<0.498	nd
	G-Logics	12/21/2015	MWFD1-20151221 (dup)	<0.499	<0.998 R	<0.499	<0.998	<0.998	<0.499	<0.499	<0.499	<0.0108	<0.998	<0.998	<0.998	<4.99	<0.998	<0.499	<0.499	<0.499	<2.00	<0.109	<0.499	<0.499	nd
	G-Logics	4/20/2016	MW08-20160420	**0.00106 J**	<0.993	**0.00213 J**	<0.993	<0.993	**0.00112 J**	<0.00120	<0.00409	<0.00531	**0.0520 BJU**	**0.436 BJU**	<0.993	<0.993	<0.993	<0.00356	<0.00156	**0.00511 J**	<1.99 R	<0.0171	<0.00322	**0.00470 J**	nd
	G-Logics	9/15/2016	MW08-20160915	**0.00531 J**	<0.992	**0.0131 J**	<0.992	<0.992	**0.00240 J**	<0.00240	<0.00817	<0.0106	<0.00922	**0.0567 J**	<0.992	<0.992	<0.992	<0.00710	<0.00311	**0.0279 J**	<1.98	<0.0341	<0.00643	<0.00929	nd
MW09	G-Logics	12/17/2015	MW09-20151217	<0.499	<0.999 R	<0.499	<0.999	<0.999	**5.42**	<0.499	<0.499	<0.0108	<0.999	<0.999	<0.999	<4.99	<0.999	<0.499	<0.499	<0.499	<2.00	<0.109	<0.499	<0.499	nd
	G-Logics	4/21/2016	MW09-20160421	**0.00645 J**	<0.997	**0.00227 J**	<0.997	<0.997	**1.47**	<0.00121	**0.00746 J**	<0.00533	**0.0541 BJU**	**0.372 BJU**	<0.997	<0.997	<0.997	<0.00357	**0.00300 J**	**0.0101 J**	<1.99 R	<0.0172	**0.00384 J**	<0.00467	nd
	G-Logics	9/13/2016	MW-09-20160913	**0.00845 J**	<0.996	**0.00426 J**	<0.996	<0.996	**4.77**	<0.00241	<0.00821	**0.238 BQU**	<0.00926	**0.0774 J**	<0.996	<0.996	<0.996	<0.00714	**0.00428 J**	**0.0142 J**	<1.99	<0.0343	<0.00646	**0.0636 BJU**	nd
MW09D	G-Logics	12/17/2015	MW09D-20151217	<0.500	<1.00	<0.500	<1.00	<1.00	**13.7 D**	<0.500	<0.500	<0.0108	<1.00	<1.00	<1.00	<5.00	<1.00	<0.500	<0.500	<0.500	<2.00	<0.109	<0.500	<0.500	nd
	G-Logics	4/21/2016	MW09D-20160421	**0.0110 J**	<0.994	**0.00206 J**	<0.994	<0.994	**9.82**	**0.0360 J**	**0.00498 J**	<0.00532	<0.00925	**0.222 BJU**	<0.994	<0.994	<0.994	<0.00356	<0.00156	**0.0131 J**	<1.99	<0.0171	<0.00322	<0.00466	nd
	G-Logics	9/16/2016	MW09D-20160916	**0.00963 J**	<0.995	**0.00850 J**	<0.995	<0.995	**7.02**	<0.00241	<0.00820	<0.0106	<0.00925	**0.0622 J**	**14.7 D**	<0.995	<0.995	**0.0128 J**	**0.0119 J**	**0.0314 J**	<1.99	<0.0342	**0.0141 J**	**0.0393 J**	nd
MW10	G-Logics	12/17/2015	MW10-20151217	<0.500	<0.999 R	<0.500	<0.999 R	<0.999 R	<0.500	<0.500	<0.500	<0.0108	<0.999	<0.999	<0.999	<5.00	<0.999	<0.500	<0.500	<0.500	<2.00	<0.109 R	<0.500	<0.500	nd
	G-Logics	4/20/2016	MW10-20160420	<0.00103 JU	<1.01 JU	**0.00197 J**	<1.01 JU	<1.01 JU	<0.00106 JU	<0.00123 JU	**0.00825 J**	<0.00542 JU	**0.0599 BJU**	**0.548 BJU**	<1.01 JU	<1.01 JU	<1.01 JU	<0.00363	<0.00159 JU	**0.00608 J**	<2.03 R	<0.0174 JU	<0.00329 JU	<0.00474 JU	nd
	G-Logics	9/16/2016	MW10-20160916	**0.00559 J**	<0.998	**0.00868 J**	<0.998	<0.998	<0.413 J	<0.00242	**0.00850 J**	<0.0107	<0.00928	**0.0669 J**	**2.07**	<0.998	<0.998	<0.00715	**0.0602 J**	**0.0233 J**	<2.00	<0.0343	**0.0674 J**	**0.0218 J**	nd
MW10D	G-Logics	12/17/2015	MW10D-20151217	<0.498	<0.995 R	<0.498	<0.995 R	<0.995 R	**0.598**	<0.498	<0.498	<0.0108	<0.995	<0.995	<0.995	<4.98	<0.995	<0.498	<0.498	<0.498	<1.99	<0.109 R	<0.498	<0.498	nd
	G-Logics	4/20/2016	MW10D-20160420	**0.00722 J**	<1.01 JU	**0.00305 J**	<1.01 JU	<1.01 JU	**0.533**	**0.00643 J**	<0.00416 JU	<0.00539 JU	**0.0358 BJU**	**0.422 BJU**	<1.01 JU	<1.01 JU	<1.01 JU	<0.00361 JU	**0.00171 J**	**0.00920 J**	<2.02 R	<0.0174 JU	<0.00327 JU	<0.00472 JU	nd
	G-Logics	9/16/2016	MW10D-20160916	**0.00549 J**	<0.998	**0.00659 J**	<0.998	<0.998	**0.435**	<0.00242	<0.00822	<0.0107	<0.00928	**0.0538 J**	<1.02	<0.998	<0.998	<0.00715	<0.00313	**0.0184 J**	<2.00	<0.0343	<0.00647	<0.00934	nd
MW11	G-Logics	12/21/2015	MW11-20151221	<0.500	<1.00 R	<0.500	<1.00 JU	<1.00 JU	<0.500	<0.500	<0.500	<0.0108	<1.00	<1.00	<1.00	<5.00	<1.00	<0.500	<0.500	<0.500	<2.00	<0.109 JU	<0.500	<0.500	nd
	G-Logics	12/21/2015	MWFD2-20151221 (dup)	<0.498	<0.996 R	<0.498	<0.996	<0.998	<0.498	<0.498	<0.498	<0.0108	<0.996	<0.996	<0.996	<4.98	<0.996	<0.498	<0.498	<0.498	<1.99	<0.109	<0.498	<0.498	nd
	G-Logics	4/20/2016	MW11-20160420	**0.00115 J**	<1.00 JU	**0.00176 J**	<1.00 JU	<1.00 JU	<0.00105 JU	<0.00121 JU	<0.00412 JU	<0.00534 JU	**0.0431 BJU**	**0.191 BJU**	<1.00 JU	<1.00 JU	<1.00 JU	**0.00966 J**	<0.00157 JU	**0.00497 J**	<2.00 R	<0.00172 JU	<0.00324 JU	**0.00160 J**	nd
	G-Logics	9/15/2016	MW11-20160915	**0.00817 J**	<0.0997	**0.0112 J**	<0.0997	<0.0997	**0.00706 J**	<0.00241	<0.00821	<0.0107 Q	<0.00927	**0.106 J**	<0.0997	<0.0997	<0.0997	**0.0114 J**	<0.00313	**0.0305 J**	<1.99	<0.0343	<0.00646	**0.0131 J**	nd
	G-Logics	9/15/2016	FD2-20160915 (dup)	**0.00434 J**	<0.991	**0.0106 J**	<0.991	<0.991	**0.00216 J**	<0.00240	<0.00817	<0.0106 Q	<0.00922	**0.101 J**	<0.991	<0.991	<0.991	**0.0120 J**	<0.00311	**0.0158 J**	<1.98	<0.0341	<0.00643	**0.0144 J**	nd
MW12	G-Logics	12/17/2015	MW12-20151217	<0.499	<0.997 R	<0.499	<0.997 R	<0.997 R	<0.499	<0.499	<0.499	<0.0108	<0.997	<0.997	<0.997	<4.99	<0.997	<0.499	<0.499	<0.499	<1.99	<0.109 R	<0.499	<0.499	nd
	G-Logics	4/20/2016	MW12-20160420	**0.00359 J**	<0.997 JU	**0.00396 J**	<0.997 JU	<0.997 JU	**0.201 J**	<0.00121 JU	**0.0145 J**	<0.00533 JU	**0.0665 BJU**	**0.639 BJU**	<0.997 JU	<0.997 JU	<0.997 JU	**0.00810 J**	**0.00733 J**	**0.0143 J**	<1.99 R	<0.0171 JU	**0.0148 J**	**0.00767 J**	nd
	G-Logics	9/14/2016	MW12-20160914	**0.0104 J**	<0.997	**0.00710 J**	<0.997	<0.997	**0.142**	<0.00242	**0.0103 J**	<0.0107 Q	<0.00928	**0.0748 J**	<0.997	<0.997	<0.997	**0.0124 J**	**0.0132 J**	**0.0430 J**	<1.99	<0.0343	**0.0140 J**	<0.00934	nd
MW12D	G-Logics	12/17/2015	MW12D-20151217	<0.498	<0.995 R	<0.498	<0.995 R	<0.995 R	<0.498	<0.498	<0.498	<0.0108	<0.995	<0.995 U	<0.995	<4.98	<0.995	<0.498	<0.498	<0.498	<1.99	<0.109 R	<0.498	<0.498	nd
	G-Logics	4/20/2016	MW12D-20160420	**0.00636 J**	<0.998 JU	**0.00709 J**	<0.998 JU	<0.998 JU	**0.00753 J**	<0.00121 JU	**0.00545 J**	<0.00534 JU	**0.0484 BJU**	**0.483 BJU**	<0.998 JU	<0.998 JU	<0.998 JU	**0.0103 J**	**0.00691 J**	**0.0267 J**	<2.00 R	<0.0172 JU	**0.0179 J**	**0.00728 J**	nd
	G-Logics	9/15/2016	MW12D-20160915	**0.0103 J**	<0.995	**0.00965 J**	<0.995	<0.995	**0.0120 J**	<0.00241	**0.0152 J**	<0.0106 Q	<0.00925	**0.142 J**	<0.995	<0.995	<0.995	**0.0260 J**	**0.00812 J**	**0.0444 J**	<1.99	<0.0342	**0.0280 J**	**0.0303 J**	nd
MW13	G-Logics	12/21/2015	MW13-20151221	<0.499	<0.998 R	<0.499	<0.998	<0.998	<0.499	<0.499	<0.499	**0.123 J**	<0.998	<0.998	<0.998	<4.99	<0.998	<0.499	<0.499	<0.499	<2.00	<0.109	<0.499	<0.499	nd
	G-Logics	4/21/2016	MW13-201560421	**0.0101 J**	<1.00	**0.00331 J**	<1.00	<1.00	**0.148 J**	<0.00121	**0.0160 J**	<0.00535	**0.0390 BJU**	**0.228 BJU**	<1.00	<1.00	<1.00	**0.00383 J**	<0.00157	**0.088**	<2.00 R	<0.0172	**0.00577 J**	<0.00468	nd
	G-Logics	9/13/2016	MW-13-20160913	**0.00436 J**	<1.01	**0.00569 J**	<1.01	<1.01	**0.140**	<0.00245	**0.0163 J**	<0.0108 QJU	<0.00939	**0.0926 J**	<1.01	<5.05	<1.01	<0.00723	**0.00406 J**	**0.00600 J**	<2.02	<0.0347	<0.00655	<0.00945	nd
	G-Logics	9/13/2016	FD1-20160913 (dup)	**0.00340 J**	<1.00	**0.00490 J**	<1.00	<1.00	**0.130**	<0.00242	**0.0161 J**	**0.554 BQU**	<0.00930	**0.105 J**	<1.00	<1.00	<1.00	<0.00716	<0.00314	**0.00598 J**	<2.00	<0.0344	<0.00648	**0.237 BU**	nd
MW14	G-Logics	12/21/2015	MW14-20151221	**3.08**	<0.999 R	**0.728**	<0.999	<0.999	**0.878**	<0.500	<0.500	**0.140 J**	<0.999	<0.999	<0.999	<5.00	<0.999	<0.500	**0.768**	**3.94**	<2.00	<0.109	**0.867**	<0.500	nd
	G-Logics	4/21/2016	MW14-20160421	**1.19**	<0.997	**0.211**	<0.997	<0.997	**0.349**	<0.00121	**0.069**	**0.00863 J**	<0.00928	**0.376 BJU**	<0.997	<0.997	<0.997	**0.150**	**0.374**	**0.24**	<1.99 R	<0.0172	**0.560**	**0.160**	nd
	G-Logics	9/13/2016	MW-14-20160913	**1.29**	<0.997	**0.163 J**	<0.997	<0.997	**0.662 J**	**0.0655 J**	**0.137 J**	**0.181 BQJU**	<0.00927	**0.274 J**	<0.997	<4.98	<0.997	**0.359 J**	**0.561 J**	**0.136 J**	<1.99	<0.0343	**1.01 J**	**0.606 BJU**	nd

TABLE 2-4
Groundwater Sample Analyses, Semivolatile Organic Compounds (SVOCs) and Polycyclic Aromatic Hydrocarbons (PAHs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	1-Methylnaphthalene	2,4-Dimethylphenol	2-Methylnaphthalene	2-Methylphenol (o-cresol)	4-Methylphenol (p-cresol)	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	Benzylbutylphthalate	Bis(2-ethylhexyl)phthalate	Bis(2-ethylhexyl) adipate	Carbazole	Dibenzofuran	Fluoranthene	Fluorene	Naphthalene	Nitrobenzene	Pentachlorophenol	Phenanthrene	Pyrene	Other SVOCs (2)
Most Conservative Cleanup Levels (1)				na	97	na	na	na	30	na	100	na	0.013	0.046	na	na	na	6	10	4,900	100	0.002	na	8	various
(units in ug/L)																									
MW15	G-Logics	12/17/2015	MW15-20151217	<0.497	<0.995 R	<0.497	<0.995 R	<0.995 R	<0.497	<0.497	<0.497	<0.0108	<0.995	<0.995	<0.995	<4.97	<0.995	<0.497	<0.497	<0.497	<1.99	<0.109 R	<0.497	<0.497	nd
	G-Logics	4/20/2016	MW15-20160420	**0.00792 J**	<1.04 JU	**0.00416 J**	<1.04 JU	<1.04 JU	**0.00527 J**	<0.00126 JU	**0.00570 J**	<0.00557 JU	**0.180 BJU**	**0.190 BJU**	<1.04 JU	<1.04 JU	<1.04 JU	<0.00373 JU	<0.00164 JU	**0.105 J**	<2.08 R	<0.0179 JU	<0.00338 JU	<0.00488 JU	nd
	G-Logics	4/20/2016	FD1-20160420 (dup)	**0.00579 J**	<1.08 JU	**0.00348 J**	<1.08 JU	<1.08 JU	**0.00268 J**	<0.00131 JU	**0.00940 J**	<0.00576 JU	**0.0370 BJ**	**0.176 BJU**	<1.08 JU	<1.08 JU	<1.08 JU	<0.00386 JU	<0.00169 JU	**0.0746 J**	<2.16 JU	<0.0185 JU	<0.00350 JU	<0.00505 JU	nd
	G-Logics	9/13/2016	MW-15-20160913	**0.00366 J**	<1.00	**0.00636 J**	<1.00	<1.00	<0.00210	<0.00242	<0.00824	**0.801 BQU**	<0.00930	**0.0878 J**	<1.00	<1.00	<1.00	<0.00717	<0.00314	**0.00754 J**	<2.00	<0.0344	<0.00649	**0.217 BU**	nd
MW16	G-Logics	12/21/2015	MW16-20151221	**113 D**	**12.7 D**	**122 D**	**15.6 D**	**30.3 D**	**135 D**	**1.91**	**4.91**	**0.192 J**	<0.996	<0.996	<0.996	<49.8 D	**71.7 D**	**6.29**	**65.8 D**	**1,120 D**	<1.99	<0.109	**72.5 D**	**3.06**	nd
	G-Logics	4/21/2016	MW16-20160421	**43.8 D**	<0.995	**7.75 D**	<0.995	<0.995	**58.6 D**	**1.06**	**2.52**	<0.00532	**0.053 BJU**	**0.159 BJU**	<0.995	<99.5 D	<99.5 D	**4.67**	**27.7 D**	**319 D**	<1.99 R	<0.0171	**36.4 D**	**2.33**	nd
	G-Logics	9/14/2016	MW16-20160914	**39.0 D**	<0.999	**37.7 D**	<0.999	<0.999	**69.3 D**	**0.502**	**1.69**	<0.0107	<0.00930	**0.0817 J**	<0.999	**13.6 JD**	**29.9 JD**	**3.30**	**28.8 D**	**94.1 D**	<2.00	<0.0344	**33.4 D**	**1.64**	nd
Seep-Water Samples																									
Seep 82	SoundEarth	2/24/2015	Seep82-01-20150224	<0.008	---	<0.008	---	---	<0.004	<0.004	<0.004	<0.004	---	---	---	<0.5	<0.5	<0.004	<0.004	<0.008	---	<0.5	<0.004	<0.004	nd

Notes:

Refer to site diagram(s) for sampling locations.

(1) See Table 2-1 for Details Regarding Groundwater Cleanup Levels and Screening Criteria.

(2) Analytes Not Listed were Not Detected Above Laboratory Reporting Limits

na	Cleanup Level Not Available
*	Well Inaccessible During Sampling Event
dup	Blind Field Duplicate
---	Not Analyzed/No Data
nd	Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified
<50.0	Not Detected at Specified Laboratory Reporting Limit
<49.9	Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level
250	Bold Number(s) Indicates Contaminant Detected.
1,440	Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level
1.70	Bold Number(s) and Purple Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level, but is Not a Final COPC
B	Analyte Detected in Associated Method Blank
D	Dilution Required
U	Not Detected Above the Reported Sample Quantitation Limit.
J	Estimated Concentration, Analyte Detected Below Reporting Limit
R	Data Rejected based on ECOCHEM Data Validation Report dated April 4, 2017

TABLE 2-5
Groundwater Sample Analyses, Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(e)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene
Most Conservative Cleanup Levels (1)				0.00016	0.016	0.00016	0.0016	0.000016	0.00016	0.000016
(units in ug/L)										
Grab-Groundwater Samples										
B2-R	Riley Group	8/3/2000	B-2-W	---	---	---	---	---	---	---
B3-R	Riley Group	8/3/2000	B-3-W	---	---	---	---	---	---	---
SB-3N	Farallon	1/8/2004	SB3-GW	---	---	---	---	---	---	---
Groundwater Samples										
MW1	Farallon	3/27/2002	MW1	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
	Pacific Crest	6/5/2008	MW1-060508	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-1D	Pacific Crest	6/4/2008	MW-1D-060408	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW2	Farallon	3/27/2002	MW2	**11**	**15**	**9.6**	**13**	**13**	**6.8**	**0.68**
	Farallon	12/4/2002	---	---	---	---	---	---	---	---
	Pacific Crest*	6/4/2008	---	---	---	---	---	---	---	---
MW-2D	Pacific Crest	6/4/2008	MW-2D-060408	**0.22**	**0.22**	**0.13**	**0.036**	**0.088**	**0.033**	**0.015**
MW3	Farallon	3/27/2002	MW3	<0.010	**0.140**	**0.074**	**0.07**	**0.084**	**0.050**	**0.021**
	Farallon	11/5/2003	MW3	---	---	---	---	---	---	---
	Farallon	2/6/2004	MW3020604-01	---	---	---	---	---	---	---
	Farallon	5/12/2004	GW1-051204-01	---	---	---	---	---	---	---
	Farallon	8/20/2004	MW3-082004	---	---	---	---	---	---	---
	Pacific Crest	6/9/2008	MW3-060908	**0.011**	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
	Pacific Crest	6/9/2008	DUP-060908	---	---	---	---	---	---	---
MW-3D	Pacific Crest	6/4/2008	MW-3D-060408	**0.24**	**0.15**	**0.04**	<0.010	**0.02**	<0.010	<0.010
MW4	Farallon	3/27/2002	MW4	<0.023	**0.031**	**0.018**	**0.017**	<0.013	<0.013	<0.013
	Pacific Crest	6/4/2008	MW4-060408	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-4D	Pacific Crest	6/4/2008	MW-4D-060408	**0.011**	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW05	G-Logics*	12/17/2015	---	---	---	---	---	---	---	---
	G-Logics	4/20/2016	MW05-20160420	<0.00793 JU	<0.00321 JU	<0.0108 JU	<0.00606 JU	<0.00477 JU	<0.00355 JU	<0.00137 JU
	G-Logics	9/15/2016	MW05-20160915	<0.0159	<0.00643	<0.0216	<0.0121	<0.00957	<0.00710	<0.00274
MW06	G-Logics	12/17/2015	MW06-20151217	<0.00486	<0.0106	<0.0187	<0.0143	<0.0126	<0.0124	<0.0116
	G-Logics	4/21/2016	MW06-20160421	<0.00794	<0.00322	<0.0108	<0.00607	<0.00478	<0.00355	<0.00137
	G-Logics	9/14/2016	MW06-20160914	<0.0159	<0.00643	<0.0216 JU	<0.0121 Q	<0.00956 Q	**0.00891 JQ**	<0.00273 QJU
MW07	G-Logics	12/17/2015	MW07-20151217	<0.00487	<0.0106	<0.0187	<0.0144	<0.0126	<0.0125	<0.0116
	G-Logics	12/21/2015	MW07-20160421	<0.00793	<0.00321	<0.0108	<0.00606	<0.00477	<0.00354	<0.00137
	G-Logics	4/21/2016	FD2-20160421	<0.00798	<0.00323	<0.0109	<0.00609	<0.00480	<0.00357	<0.00137
	G-Logics	9/14/2016	MW07-20160914	<0.0159	<0.00643	<0.0216	<0.0121 Q	<0.00956 Q	**0.00933 JQ**	<0.00273
MW08	G-Logics	12/21/2015	MW08-20151221	<0.00486	<0.0106	<0.0186	<0.0143	<0.0126	<0.0125	<0.0116
	G-Logics	12/21/2015	MWFD1-20151221 (dup)	**0.0188 J**	**0.0107 J**	<0.0187	<0.0144	<0.0126	<0.0124	<0.0116
	G-Logics	4/20/2016	MW08-20160420	<0.00789	<0.00320	<0.0107	<0.00603	<0.00475	<0.00353	<0.00136
	G-Logics	9/15/2016	MW08-20160915	<0.0158	<0.00638	<0.0215	<0.0120	<0.00949	<0.00705	<0.00271
MW09	G-Logics	12/17/2015	MW09-20151217	<0.00487	<0.0106	<0.0187	<0.0144	<0.0126	<0.0125	<0.0116
	G-Logics	4/21/2016	MW09-20160421	<0.00793	<0.00321	<0.0108	<0.00606	<0.00477	<0.00354	<0.00136
	G-Logics	9/13/2016	MW-09-20160913	<0.0158 DNR	<0.00641 DNR	<0.0215	<0.0121 Q	<0.00953 Q	**0.00896 JQ**	**0.0147 JQ**
MW09D	G-Logics	12/17/2015	MW09D-20151217	<0.00488	<0.0106	<0.0187	<0.0144	<0.0126	<0.0125	<0.0116
	G-Logics	4/21/2016	MW09D-20160421	<0.00790	<0.00320	<0.0108	<0.00604	<0.00476	<0.00353	<0.00136
	G-Logics	9/16/2016	MW09D-20160916	<0.0158	<0.00640	<0.0215	<0.0121	<0.00952	<0.00707	<0.00272
MW10	G-Logics	12/17/2015	MW10-20151217	<0.00487	<0.0106	<0.0187	<0.0144	<0.0126	<0.0125	<0.0116
	G-Logics	4/20/2016	MW10-20160420	<0.00805 JU	<0.00326 JU	<0.0110 JU	<0.00615 JU	<0.00485 JU	**0.00573 J**	<0.00139 JU
	G-Logics	9/16/2016	MW10-20160916	<0.0159	<0.00642	<0.0216	<0.0121	<0.00955	<0.00709	<0.00273
MW10D	G-Logics	12/17/2015	MW10D-20151217	<0.00485	<0.0105	<0.0186	<0.0431	<0.0126	<0.0124	<0.0116
	G-Logics	4/20/2016	MW10D-20160420	<0.00802 JU	<0.00325 JU	<0.0109 JU	<0.00612 JU	<0.00483 JU	<0.00358 JU	<0.00138 JU
	G-Logics	9/16/2016	MW10D-20160916	<0.0159	<0.00642	<0.0216	<0.0121	<0.00955	<0.00709	<0.00273

TABLE 2-5
Groundwater Sample Analyses, Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs)
Duwamish Marine Center
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Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(e)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene
Most Conservative Cleanup Levels (1)				0.00016	0.016	0.00016	0.0016	0.000016	0.00016	0.000016
(units in ug/L)										
MW11	G-Logics	12/21/2015	MW11-20151221	<0.00488	<0.0106	<0.0187	<0.0144	<0.0126	<0.0125	<0.0116
	G-Logics	12/21/2015	MWFD2-20151221 (dup)	**0.0333 J**	**0.0111 J**	<0.0186	<0.0143	<0.0126	<0.0124	<0.0116
	G-Logics	4/20/2016	MW11-20160420	<0.00794 JU	<0.00322 JU	<0.0108 JU	<0.00607 JU	<0.00478 JU	<0.00355 JU	<0.00137 JU
	G-Logics	9/15/2015	MW11-20160915	<0.0158	<0.00641	<0.0216	<0.0121 Q	<0.00954 Q	<0.00708 Q	<0.00273 Q
	G-Logics	9/15/2016	FD2-20160915 (dup)	<0.0158	<0.00638	<0.0214	<0.0120 Q	<0.00949 Q	<0.00704 Q	<0.00271 Q
MW12	G-Logics	12/17/2015	MW12-20151217	<0.00486	<0.0106	<0.0187	<0.0143	<0.0126	<0.0124	<0.0116
	G-Logics	4/20/2016	MW12-20160420	<0.00792 JU	<0.00321 JU	<0.0108 JU	<0.00605 JU	<0.00477 JU	<0.00354 JU	<0.00136 JU
	G-Logics	9/14/2016	MW12-20160914	<0.0159	<0.00642	<0.0216	<0.0121 Q	<0.00954 Q	**0.00897 JQ**	<0.00273 Q
MW12D	G-Logics	12/17/2015	MW12D-20151217	<0.00485	<0.0105	<0.0186	<0.0143	<0.0125	<0.0124	<0.0116
	G-Logics	4/20/2016	MW12D-20160420	<0.00793 JU	<0.00321 JU	<0.0108 JU	<0.00606 JU	<0.00477 JU	<0.00355 JU	<0.00137 JU
	G-Logics	9/15/2016	MW12D-20160915	<0.0158	<0.00640	<0.0215	<0.0121 Q	<0.00952 Q	**0.00907 JQ**	<0.00272 Q
MW13	G-Logics	12/21/2015	MW13-20151221	<0.00486	<0.0106	<0.0187	<0.0144	<0.0126	<0.0124	<0.0116
	G-Logics	4/21/2016	MW13-201560421	<0.00795	<0.00322	<0.0108	<0.00607	<0.00478	<0.00355	<0.00137
	G-Logics	9/13/2016	MW-13-20160913	<0.0160 DNR	<0.00650 DNR	<0.0218 JU	<0.0123 QJU	<0.00966 QJU	<0.00717 Q	<0.00276 QJU
	G-Logics	9/13/2016	FD1-20160913 (dup)	<0.0159 DNR	<0.00643 DNR	<0.0216	<0.0121 Q	<0.00957 Q	**0.00952 JQ**	<0.00274 Q
MW14	G-Logics	12/21/2015	MW14-20151221	<0.00487	<0.0106	<0.0187	<0.0144	<0.0126	<0.0125	<0.0116
	G-Logics	4/21/2016	MW14-20160421	**0.0241 J**	**0.0321 J**	**0.0255 J**	<0.00605	**0.00961 J**	**0.00928 J**	<0.00136
	G-Logics	9/13/2016	MW-14-20160913	**0.0627 J**	**0.116 J**	**0.0399 J**	**0.0130 J**	**0.0239 J**	**0.00709 JQ**	**0.0171 JQ**
MW15	G-Logics	12/17/2015	MW15-20151217	<0.00485	<0.0105	<0.0186	<0.0143	<0.0125	<0.0124	<0.0116
	G-Logics	4/20/2016	MW15-20160420	<0.00828	<0.00335	<0.0113	<0.00632	<0.00498	<0.00370	<0.00143
	G-Logics	4/20/2016	FD1-20160420 (dup)	<0.00857 JU	<0.00347 JU	<0.0117 JU	<0.00654 JU	<0.00516 JU	<0.00383 JU	<0.00147 JU
	G-Logics	9/13/2016	MW-15-20160913	<0.0159 DNR	<0.00644 DNR	<0.0216	<0.0121 Q	<0.00957 Q	**0.0101 JQ**	**0.0156 JQ**
MW16	G-Logics	12/21/2015	MW16-20151221	**0.137 J**	**0.0842 J**	**0.0803 J**	**0.0743 J**	<0.0126	<0.0124	<0.0116
	G-Logics	4/21/2016	MW16-20160421	**0.100**	**0.0610**	**0.0241 J**	<0.00604	**0.00816 J**	**0.00594 J**	<0.00136
	G-Logics	9/14/2016	MW16-20160914	**0.0063 J**	**0.0432 J**	<0.0216	<0.0121	<0.00956	**0.00931 JQ**	<0.00273
Seep-Water Samples										
Seep 82	SoundEarth	2/24/2015	Seep82-01-20150224	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.0032

Notes: Refer to site diagram(s) for sampling locations.

(1) See Table 2-1 for Details Regarding Groundwater Cleanup Levels and Screening Criteria.

(2) Analytical Results for Each Individual cPAH is Multiplied by the Toxicity Equivalency Fraction (TEF) and then added together to produce a Toxicity Equivalency Quotient (TEQ).
When Analytical Results are Less Than Reporting Limits, Half of the Reporting Limit is Used for the Calculation.

na Cleanup Level Not Available

* Well Inaccessible During Sampling Event

dup Blind Field Duplicate

--- Not Analyzed/No Data

nd Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified

<50.0 Not Detected at Specified Laboratory Reporting Limit

<49.9 Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level

250 Bold Number(s) Indicates Contaminant Detected.

1,440 Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level

1.70 Bold Number(s) and Purple Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level, but is Not a Final COPC

DNR Do Not Report

J Estimated Concentration, Analyte Detected Below Reporting Limit

Q Analyte with Initial or Continuing Calibration that does not Meet Established Acceptance Criteria

TABLE 2-6
Groundwater Sample Analyses, Petroleum Hydrocarbons and Benzene
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	Gasoline Range Organics	Benzene	Diesel Range Organics	Heavy Oil Range Organics
Most Conservative Cleanup Levels (1)				800(a)/1000(b)	1.6	500	500
(units in ug/L)							
Grab-Groundwater Samples							
B2-R	Riley Group	8/3/2000	B-2-W	---	---	---	---
B3-R	Riley Group	8/3/2000	B-3-W	---	---	---	**1,600**
SB-3N	Farallon	1/8/2004	SB3-GW	---	---	---	---
Groundwater Samples							
MW1	Farallon	3/27/2002	MW1	<100	---	<250	<400
	Pacific Crest	6/5/2008	MW1-060508	<100	<0.20	<280	<450
MW-1D	Pacific Crest	6/4/2008	MW-1D-060408	<100	<0.20	<260	<420
MW2	Farallon	3/27/2002	MW2	---	---	**2,700**	**4,900**
	Farallon	12/4/2002	---	---	---	---	---
	Pacific Crest*	6/4/2008	---	---	---	---	---
MW-2D	Pacific Crest	6/4/2008	MW-2D-060408	<100	<0.20	<260	<410
MW3	Farallon	3/27/2002	MW3	---	---	<250	<400
	Farallon	11/5/2003	MW3	---	---	**280**	<410
	Farallon	2/6/2004	MW3020604-01	---	---	**370**	**550**
	Farallon	5/12/2004	GW1-051204-01	---	---	<250	<410
	Farallon	8/20/2004	MW3-082004	---	---	**320**	<400
	Pacific Crest	6/9/2008	MW3-060908	---	<0.20	<260	<420
	Pacific Crest	6/9/2008	DUP-060908	---	---	---	---
MW-3D	Pacific Crest	6/4/2008	MW-3D-060408	**850**	<0.20	**1,000**	<430
MW4	Farallon	3/27/2002	MW4	---	---	<250	**820**
	Pacific Crest	6/4/2008	MW4-060408	<100	<0.20	<270	<440
MW-4D	Pacific Crest	6/4/2008	MW-4D-060408	<100	<0.20	<280	<450
MW05	G-Logics*	12/17/2015	---	---	---	---	---
	G-Logics	4/20/2016	MW05-20160420	<50.0 JU	<1.00	**4.51 J**	**611**
	G-Logics	9/15/2016	MW05-20160915	<50.0	<1.00	**157**	**234**
MW06	G-Logics	12/17/2015	MW06-20151217	<50.0	<1.00	<50.0	<99.9
	G-Logics	4/21/2016	MW06-20160421	<50.0	<1.00	<3.11	**37.5 J**
	G-Logics	9/14/2016	MW06-20160914	<50.0	<1.00	<50.0	**1.6**
MW07	G-Logics	12/17/2015	MW07-20151217	<50.0	<1.00	<49.8	**299**
	G-Logics	12/21/2015	MW07-20160421	<50.0	<1.00	<3.10	**372**
	G-Logics	4/21/2016	FD2-20160421	<50.0	<1.00	<3.12	**393**
	G-Logics	9/14/2016	MW07-20160914	<50.0	<1.00	**93**	**444**

TABLE 2-6
Groundwater Sample Analyses, Petroleum Hydrocarbons and Benzene
Duwamish Marine Center
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Exploration Location	Sampled By	Sample Date	Sample Name	Gasoline Range Organics	Benzene	Diesel Range Organics	Heavy Oil Range Organics
Most Conservative Cleanup Levels (1)				800(a)/1000(b)	1.6	500	500
(units in ug/L)							
MW08	G-Logics	12/21/2015	MW08-20151221	<50.0	<1.00	<49.9	<99.8
	G-Logics	12/21/2015	MWFD1-20151221 (dup)	<50.0	<1.00	<49.9	<99.9
	G-Logics	4/20/2016	MW08-20160420	<50.0	<1.00	<3.13	**38.2 J**
	G-Logics	9/15/2016	MW08-20160915	<50.0	<1.00	<50.0	<99.9
MW09	G-Logics	12/17/2015	MW09-20151217	<50.0	<1.00	<49.8	<99.6
	G-Logics	4/21/2016	MW09-20160421	<50.0	<1.00	**5.65 J**	**106**
	G-Logics	9/13/2016	MW-09-20160913	<50.0	<1.00	<49.4	<98.8
MW09D	G-Logics	12/17/2015	MW09D-20151217	<50.0	<1.00	<49.8	<99.6
	G-Logics	4/21/2016	MW09D-20160421	<50.0	<1.00	**7.71 J**	**103**
	G-Logics	9/16/2016	MW09D-20160916	<50.0	<1.00	<49.6	<99.2
MW10	G-Logics	12/17/2015	MW10-20151217	<50.0	<1.00	<49.7	<99.4
	G-Logics	4/20/2016	MW10-20160420	<50.0 JU	<1.00	**13.6 J**	**45.1 J**
	G-Logics	9/16/2016	MW10-20160916	<50.0	<1.00	<49.9	<99.7
MW10D	G-Logics	12/17/2015	MW10D-20151217	<50.0	<1.00	<49.7	<99.5
	G-Logics	4/20/2016	MW10D-20160420	<50.0 JU	<1.00	**245**	<5.18
	G-Logics	9/16/2016	MW10D-20160916	<50.0	<1.00	<49.9	<99.8
MW11	G-Logics	12/21/2015	MW11-20151221	<50.0	<1.00	<49.7	**131**
	G-Logics	12/21/2015	MWFD2-20151221 (dup)	<50.0	<1.00	<49.9	**132**
	G-Logics	4/20/2016	MW11-20160420	<50.0 JU	<1.00	**25.4 J**	**210**
	G-Logics	9/15/2015	MW11-20160915	<50.0	<1.00	<49.8	<99.7
	G-Logics	9/15/2016	FD2-20160915 (dup)	<50.0	<1.00	<49.7	**103**
MW12	G-Logics	12/17/2015	MW12-20151217	<50.0	<1.00	<49.9	**286**
	G-Logics	4/20/2016	MW12-20160420	<50.0 JU	<1.00	**8.31 J**	**636**
	G-Logics	9/14/2016	MW12-20160914	<50.0	<1.00	<49.9	**154**
MW12D	G-Logics	12/17/2015	MW12D-20151217	<50.0	<1.00	<50.0	<99.9
	G-Logics	4/20/2016	MW12D-20160420	<50.0 JU	<1.00	<3.12	**264**
	G-Logics	9/15/2016	MW12D-20160915	<50.0	<1.00	**113**	<99.8
MW13	G-Logics	12/21/2015	MW13-20151221	<50.0	<1.00	<49.8	**569**
	G-Logics	4/21/2016	MW13-201560421	<50.0	<1.00	**17.0 J**	**654**
	G-Logics	9/13/2016	MW-13-20160913	<50.0	<1.00	<50.3	<101
	G-Logics	9/13/2016	FD1-20160913 (dup)	<50.0	<1.00	<49.8	<99.5
MW14	G-Logics	12/21/2015	MW14-20151221	<50.0	<1.00	**1,000**	**632**
	G-Logics	4/21/2016	MW14-20160421	<50.0	<1.00	**854**	**1,860**
	G-Logics	9/13/2016	MW-14-20160913	**98.3**	<1.00	**991 J**	**1,370 J**

TABLE 2-6
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Exploration Location	Sampled By	Sample Date	Sample Name	Gasoline Range Organics	Benzene	Diesel Range Organics	Heavy Oil Range Organics
Most Conservative Cleanup Levels (1)				800(a)/1000(b)	1.6	500	500
(units in ug/L)							
MW15	G-Logics	12/17/2015	MW15-20151217	<50.0	<1.00	<49.8	**100**
	G-Logics	4/20/2016	MW15-20160420	<50.0 JU	<1.00	**9.01 J**	**130**
	G-Logics	4/20/2016	FD1-20160420 (dup)	<50.0 JU	<1.00	<3.08	**110**
	G-Logics	9/13/2016	MW-15-20160913	<50.0	<1.00	<49.9	<99.9
MW16	G-Logics	12/21/2015	MW16-20151221	**1,440**	<1.00	**2,690 J**	<100 JU
	G-Logics	4/21/2016	MW16-20160421	**587**	<1.00	**1,900**	<4.98
	G-Logics	9/14/2016	MW16-20160914	**554**	<1.00	**834**	**350**
Seep-Water Samples							
Seep 82	SoundEarth	2/24/2015	Seep82-01-20150224	**5.5 x**	---	<10	<30

Notes:
Refer to site diagram(s) for sampling locations.

(1) See Table 2-1 for Details Regarding Groundwater Cleanup Levels and Screening Criteria.
(a) Groundwater Cleanup Level for Gasoline with no detectable benzene in groundwater.
(b) Groundwater Cleanup Level for Gasoline with detectable benzene in the groundwater.
na Cleanup Level Not Available
* Well Inaccessible During Sampling Event
dup Blind Field Duplicate
--- Not Analyzed/No Data
nd Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified
<50.0 Not Detected at Specified Laboratory Reporting Limit
<49.9 Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level
250 Bold Number(s) Indicates Contaminant Detected.
1,440 Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level
1.70 Bold Number(s) and Purple Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level, but is Not a Final COPC
U Not Detected Above the Reported Sample Quantitation Limit.
J Estimated Concentration, Analyte Detected Below Reporting Limit
x The sample chromatographic pattern does not resemble the fuel standard used for quantitation

TABLE 2-7
Groundwater Sample Analyses, Volatile Organic Compounds (VOCs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	1,1,2,2-Tetrachloroethane	1,1-Dichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,4-Dioxane	4-Isopropyltoluene	Acetone	Benzene	Carbon Disulfide	Chloroethane	Chloroform	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	Methylene Chloride	Tetrachloroethene	Toluene	Trichloroethene	Vinyl Chloride	Xylenes	Other VOCs (2)
Most Conservative Cleanup Levels (1)				0.3	na	na	na	na	na	na	1.60	na	na	600	na	31	na	100	2.90	130	0.7	0.18	na	various
(units in ug/L)																								
Grab-Groundwater Samples																								
B2-R	Riley Group	8/3/2000	B-2-W	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B3-R	Riley Group	8/3/2000	B-3-W	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SB-3N	Farallon	1/8/2004	SB3-GW	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.20**	---	---	---	---
Groundwater Samples																								
MW1	Farallon	3/27/2002	MW1	---	<0.20	<0.20	<0.20	---	---	<5.0	---	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	---	**0.69**	<0.20	---	---	<0.60	---
	Pacific Crest	6/5/2008	MW1-060508	---	<0.20	<0.20	<0.20	---	---	<5.0	<0.20	<0.20	<1.0	<0.20	<0.20	<0.20	<0.20	---	<1.1	<1.0	---	---	<0.60	---
MW-1D	Pacific Crest	6/4/2008	MW-1D-060408	---	<0.20	<0.20	<0.20	---	---	<5.0	<0.20	<0.20	<1.0	<0.20	<0.20	<0.20	<0.20	---	<0.20	<1.0	---	---	<0.60	---
MW2	Farallon	3/27/2002	MW2	---	<0.20	**1.0**	**0.31**	---	---	<5.0	---	<0.20	<0.20	<0.20	**0.24**	**0.40**	<0.20	---	<0.20	**0.27**	---	---	**1.41**	---
	Farallon	12/4/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Pacific Crest*	6/4/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-2D	Pacific Crest	6/4/2008	MW-2D-060408	---	<0.20	<0.20	<0.20	---	---	<5.0	<0.20	**1.6**	<1.0	**0.45**	<0.20	<0.20	**0.60**	---	<0.20	<1.0	---	---	<0.60	---
MW3	Farallon	3/27/2002	MW3	---	**2.2**	<0.20	<0.20	---	---	**15**	---	<0.20	**0.51**	<0.20	<0.20	<0.20	<0.20	---	<0.20	<0.20	---	---	<0.60	---
	Farallon	11/5/2003	MW3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Farallon	2/6/2004	MW3020604-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Farallon	5/12/2004	GW1-051204-01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Farallon	8/20/2004	MW3-082004	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Pacific Crest	6/9/2008	MW3-060908	---	<0.20	**0.21**	<0.20	---	---	<5.0	<0.20	<0.20	<1.0	<0.20	<0.20	<0.20	<0.20	---	<0.20	<1.0	---	---	**0.30**	---
	Pacific Crest	6/9/2008	DUP-060908	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-3D	Pacific Crest	6/4/2008	MW-3D-060408	---	**0.46**	**1.3**	**0.40**	---	---	<5.0	<0.20	<0.20	<1.0	<0.20	<0.20	**0.21**	<0.20	---	<0.20	<1.0	---	---	**0.90**	---
MW4	Farallon	3/27/2002	MW4	---	<0.20	<0.20	<0.20	---	---	<5.0	---	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	---	<0.20	<0.20	---	---	<0.60	---
	Pacific Crest	6/4/2008	MW4-060408	---	<0.20	<0.20	<0.20	---	---	<5.0	<0.20	<0.20	<1.0	<0.20	<0.20	<0.20	<0.20	---	<0.20	<1.0	---	---	<0.60	---
MW-4D	Pacific Crest	6/4/2008	MW-4D-060408	---	**0.26**	<0.20	<0.20	---	---	<5.0	<0.20	<0.20	<1.0	**1.5**	<0.20	<0.20	<0.20	---	<0.20	<1.0	---	---	<0.60	---
MW05	G-Logics*	12/17/2015	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	G-Logics	4/20/2016	MW05-20160420	<1.00 JU	<1.00 JU	<2.00 JU	<1.00 JU	---	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<0.0359 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<0.500 JU	<0.200 JU	<1.00 JU	nd
	G-Logics	9/15/2016	MW05-20160915	<0.0769	<1.00	<2.00	<1.00	<0.400	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0359	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
MW06	G-Logics	12/17/2015	MW06-20151217	<1.00	<1.00	<2.00	<1.00	---	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0480	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
	G-Logics	4/21/2016	MW06-20160421	<0.0769	<1.00	<2.00	<1.00	---	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0359	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
	G-Logics	9/14/2016	MW06-20160914	<0.0769	<1.00	<2.00	<1.00	<0.400	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0359	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
MW07	G-Logics	12/17/2015	MW07-20151217	<1.00	<1.00	<2.00	<1.00	---	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0480	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
	G-Logics	12/21/2015	MW07-20160421	<0.0769	<1.00	<2.00	<1.00	---	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0359	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
	G-Logics	4/21/2016	FD2-20160421	<0.0769	<1.00	<2.00	<1.00	---	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0359	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
	G-Logics	9/14/2016	MW07-20160914	<0.0769	<1.00	<2.00	<1.00	<0.400	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0359	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd

TABLE 2-7
Groundwater Sample Analyses, Volatile Organic Compounds (VOCs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	1,1,2,2-Tetrachloroethane	1,1-Dichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,4-Dioxane	4-Isopropyltoluene	Acetone	Benzene	Carbon Disulfide	Chloroethane	Chloroform	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	Methylene Chloride	Tetrachloroethene	Toluene	Trichloroethene	Vinyl Chloride	Xylenes	Other VOCs (2)
Most Conservative Cleanup Levels (1)				0.3	na	na	na	na	na	na	1.60	na	na	600	na	31	na	100	2.90	130	0.7	0.18	na	various
(units in ug/L)																								
MW08	G-Logics	12/21/2015	MW08-20151221	<1.00	<1.00	<2.00	<1.00	---	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0480	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
	G-Logics	12/21/2015	MWFD1-20151221 (dup)	<0.0769	<1.00	<2.00	<1.00	---	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0480	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
	G-Logics	4/20/2016	MW08-20160420	<0.0769	<1.00	<2.00	<1.00	---	<1.00	<1.00	<1.00	<1.00	<1.00	**1.60**	<1.00	<0.0359	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
	G-Logics	9/15/2016	MW08-20160915	<0.0769	<1.00	<2.00	<1.00	<0.400	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0480	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
MW09	G-Logics	12/17/2015	MW09-20151217	<1.00	<1.00	<2.00	<1.00	---	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0480	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
	G-Logics	4/21/2016	MW09-20160421	**0.130 J**	<1.00	<2.00	<1.00	---	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0359	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
	G-Logics	9/13/2016	MW-09-20160913	<0.0769	<1.00	<2.00	<1.00	**1.79**	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0359	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
MW09D	G-Logics	12/17/2015	MW09D-20151217	<1.00	<1.00	<2.00	<1.00	---	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0480	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
	G-Logics	4/21/2016	MW09D-20160421	<0.0769	<1.00	<2.00	<1.00	---	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0359	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
	G-Logics	9/16/2016	MW09D-20160916	<0.0769	<1.00	<2.00	<1.00	<0.400	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0480	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
MW10	G-Logics	12/17/2015	MW10-20151217	<1.00	<1.00	<2.00	<1.00	---	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0480	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
	G-Logics	4/20/2016	MW10-20160420	<0.0769 JU	<1.00 JU	<2.00 JU	<1.00 JU	---	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<0.0359 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<0.500 JU	<0.200 JU	<1.00 JU	nd
	G-Logics	9/16/2016	MW10-20160916	<0.0769	<1.00	<2.00	<1.00	<0.400	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0480	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
MW10D	G-Logics	12/17/2015	MW10D-20151217	<1.00	<1.00	<2.00	<1.00	---	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0480	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
	G-Logics	4/20/2016	MW10D-20160420	<0.0769 JU	<1.00 JU	<2.00 JU	<1.00 JU	---	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<0.0359 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<0.500 JU	<0.200 JU	<1.00 JU	nd
	G-Logics	9/16/2016	MW10D-20160916	<0.0769	<1.00	<2.00	<1.00	<0.400	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0480	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
MW11	G-Logics	12/21/2015	MW11-20151221	<1.00	<1.00	<2.00	<1.00	---	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0480	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
	G-Logics	12/21/2015	MWFD2-20151221 (dup)	<1.00	<1.00	<2.00	<1.00	---	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0480	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
	G-Logics	4/20/2016	MW11-20160420	<0.0769 JU	<1.00 JU	<2.00 JU	<1.00 JU	---	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<0.0359 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<0.500 JU	<0.200 JU	<1.00 JU	nd
	G-Logics	9/15/2015	MW11-20160915	<0.0769	<1.00	<2.00	<1.00	<0.400	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0359	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
	G-Logics	9/15/2016	FD2-20160915 (dup)	<0.0769	<1.00	<2.00	<1.00	<0.400	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0359	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
MW12	G-Logics	12/17/2015	MW12-20151217	<1.00	<1.00	<2.00	<1.00	---	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0480	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
	G-Logics	4/20/2016	MW12-20160420	<0.0769 JU	<1.00 JU	<2.00 JU	<1.00 JU	---	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<0.0359 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<0.500 JU	<0.200 JU	<1.00 JU	nd
	G-Logics	9/14/2016	MW12-20160914	<0.0769	<1.00	<2.00	<1.00	<0.400	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0359	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
MW12D	G-Logics	12/17/2015	MW12D-20151217	<1.00	<1.00	<2.00	<1.00	---	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0480	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	**0.370**	<1.00	nd
	G-Logics	4/20/2016	MW12D-20160420	<0.0769 JU	<1.00 JU	<2.00 JU	<1.00 JU	---	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<0.0359 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<0.500 JU	<0.200 JU	<1.00 JU	nd
	G-Logics	9/15/2016	MW12D-20160915	<0.0769	<1.00	<2.00	<1.00	<0.400	<1.00	<1.00	<1.00	<1.00	<1.01	<1.00	<1.00	<0.0359	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
MW13	G-Logics	12/21/2015	MW13-20151221	<1.00	<1.00	<2.00	<1.00	---	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0480	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
	G-Logics	4/21/2016	MW13-201560421	<0.0769	<1.00	<2.00	<1.00	---	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0359	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
	G-Logics	9/13/2016	MW-13-20160913	<0.0769	<1.00	<2.00	<1.00	<0.400	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0359	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
	G-Logics	9/13/2016	FD1-20160913 (dup)	<0.0769	<1.00	<2.00	<1.00	<0.400	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0359	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
MW14	G-Logics	12/21/2015	MW14-20151221	<1.00	<1.00	<2.00	<1.00	---	**2.07**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0480	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
	G-Logics	4/21/2016	MW14-20160421	<0.0769	<1.00	<2.00	<1.00	---	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0359	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
	G-Logics	9/13/2016	MW-14-20160913	<0.0769	<1.00	<2.00	<1.00	<0.400	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0359	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd

TABLE 2-7
Groundwater Sample Analyses, Volatile Organic Compounds (VOCs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	1,1,2,2-Tetrachloroethane	1,1-Dichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,4-Dioxane	4-Isopropyltoluene	Acetone	Benzene	Carbon Disulfide	Chloroethane	Chloroform	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	Methylene Chloride	Tetrachloroethene	Toluene	Trichloroethene	Vinyl Chloride	Xylenes	Other VOCs (2)
Most Conservative Cleanup Levels (1)				0.3	na	na	na	na	na	na	1.60	na	na	600	na	31	na	100	2.90	130	0.7	0.18	na	various
(units in ug/L)																								
MW15	G-Logics	12/17/2015	MW15-20151217	<1.00	<1.00	<2.00	<1.00	---	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0480	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
	G-Logics	4/20/2016	MW15-20160420	<0.0769 JU	<1.00 JU	<2.00 JU	<1.00 JU	---	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<0.0359 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<0.500 JU	<0.200 JU	<1.00 JU	nd
	G-Logics	4/20/2016	FD1-20160420 (dup)	<0.0769 JU	<1.00 JU	<2.00 JU	<1.00 JU	---	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<0.0359 JU	<1.00 JU	<1.00 JU	<1.00 JU	<1.00 JU	<0.500 JU	<0.200 JU	<1.00 JU	nd
	G-Logics	9/13/2016	MW-15-20160913	<0.0769	<1.00	<2.00	<1.00	**1.55**	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.0359	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	<1.00	nd
MW16	G-Logics	12/21/2015	MW16-20151221	<1.00	<1.00	<2.00	**1.63**	---	**1.68**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	**2.29**	<1.00	<1.00	<1.00	**1.08**	<0.500	<0.200	**6.55**	nd
	G-Logics	4/21/2016	MW16-20160421	<0.0769	<1.00	**2.69**	<1.00	---	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	**1.10**	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	**3.31**	nd
	G-Logics	9/14/2016	MW16-20160914	<0.0769	<1.00	**1.18**	<1.00	<0.400	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	**1.08**	<1.00	<1.00	<1.00	<1.00	<0.500	<0.200	**1.04**	nd
Seep-Water Samples																								
Seep 82	SoundEarth	2/24/2015	Seep82-01-20150224	<0.2	<1.00	<1.00	<1.00	---	<1.00	<10	<0.35	<10	<1.00	<1.00	<1.00	<0.2	<1.00	<5.0	<1.00	<1.00	<1.00	<0.2	---	nd

Notes: Refer to site diagram(s) for sampling locations.

(1) See Table 2-1 for Details Regarding Groundwater Cleanup Levels and Screening Criteria.

(2) Analytes Not Listed were Not Detected Above Laboratory Reporting Limits

na Cleanup Level Not Available

* Well Inaccessible During Sampling Event

dup Blind Field Duplicate

--- Not Analyzed/No Data

nd Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified

<50.0 Not Detected at Specified Laboratory Reporting Limit

<49.9 Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level

250 Bold Number(s) Indicates Contaminant Detected.

1,440 Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level

1.70 Bold Number(s) and Purple Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level, but is Not a Final COPC

D Dilution Required

J Estimated Concentration, Analyte Detected Below Reporting Limit

TABLE 2-8
Groundwater Geochemical Parameters
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Observation Date	Temperature (°C)	Conductivity (mS/cm)	Dissolved Oxygen (%)	Dissolved Oxygen (mg/L)	pH	Oxidation-Reduction Potential (mV)	Turbidity (NTUs)	Chloride (mg/L)*	Total Suspended Solids (mg/L)	Total Dissolved Solids (mg/L)
MW1	6/5/2008	11.31	0.926	---	1.69	6.25	133.4	---	460	---	---
MW-1D	6/4/2008	13.5	0.841	---	0.18	6.50	-120.0	---	420	---	---
MW2	---	---	---	---	---	---	---	---	---	---	---
MW-2D	6/4/2008	12.98	2.306	---	0.17	6.62	-100.2	---	---	---	---
MW3	6/9/2008	11.44	4.717	---	0.09	6.70	-143.7	---	2,540	---	---
MW-3D	6/4/2008	13.11	1.977	---	0.16	6.55	-122.0	---	1.10	---	---
MW4	6/4/2008	11.36	11.18	---	4.46	6.81	56.1	---	6,380	---	---
MW-4D	6/4/2008	13.04	1.005	---	1.24	7.11	-82.4	---	500	---	---
MW05	12/17/2015 (1)	---	---	---	---	---	---	---	---	---	---
	4/20/2016	13.47	0.923	3.8	---	6.97	-65.4	---	94.1 D	18.0	---
	9/15/2016 (2)	---	---	---	---	---	---	---	79.2 D	---	640 H
MW06	12/17/2015	13.09	6.545	36.8	3.90	6.36	-171.2	4.2	1,460 D	11.0	---
	4/21/2016	11.88	2.561	36.4	---	6.48	273.4	---	894	<5.00	---
	9/14/2016	14.50	1.244	---	0.77	6.33	-57.0	23.0	178 D	---	290 H
MW07	12/17/2015	12.33	1.189	41.0	4.32	6.74	-205.2	1.4	129 D	79.0	---
	4/21/2016	11.00	0.853	10.0	---	6.55	-65.9	---	151 D	69.0	---
	9/14/2016	16.20	1.557	---	0.71	6.28	-123.0	5.4	203 D	---	622 H
MW08	12/21/2015	11.82	0.567	17.5	1.88	7.50	-257.6	6.0	8.85 D	<5.00	---
	4/21/2016	11.44	0.331	11.9	1.30	7.29	30.1	---	7.59 D	6.00	---
	9/15/2016	16.40	0.325	15.7	1.53	6.74	-7.3	3.4	4.34	---	216 H
MW09	12/17/2015	14.44	2.441	26.5	2.66	6.41	204.3	16.3	21.0 D	5.00	---
	4/21/2016	12.37	0.274	14.7	1.57	6.20	104.3	---	17.4 D	18.0	---
	9/13/2016	14.20	0.415	---	8.31	6.54	-44.0	12.0	18.4 D	---	224 H
MW09D	12/17/2015	13.48	0.430	43.0	4.42	6.77	-173.0	97.6	20.2 D	17.0	---
	4/21/2016	12.98	0.449	9.6	1.00	6.57	4.8	---	26.9 D	11.0	---
	9/16/2016	14.40	0.371	12.1	1.24	6.39	-40.4	7.3	15.3 D	---	266 H
MW10	12/17/2015	11.17	0.253	42.2	4.64	6.85	-150.6	6.6	6.39 D	<5.00	---
	4/20/2016	13.88	0.245	48.0	4.93	6.64	334.7	---	6.24 D	<5.00	---
	9/16/2016	16.70	0.490	9.7	0.94	6.07	-21.3	23.4	9.74 D	---	272 H
MW10D	12/17/2015	14.10	0.350	49.6	5.00	6.75	-183.2	7.3	16.3 D	31.0	---
	4/20/2016	13.89	0.243	5.1	0.53	6.46	86.6	---	18.0 D	10.0	---
	9/16/2016	16.50	0.305	10.5	1.05	6.32	-56.5	4.9	13.9 D	---	246 H
MW11	12/21/2015	11.16*	0.004*	0.0*	0.00*	7.12*	---*	-3.7*	3,760 D	17.0	---
	4/20/2016	12.03	4.110	3.9	0.41	7.34	9.0	---	1,630 D	<5.00	---
	9/15/2016	16.80	29.217	14.0	1.22	7.31	-96.8	9.4	9,220 D	---	16,100 H
MW12	12/17/2015	12.56	1.329	41.6	4.37	6.70	-190.1	523.1	149 D	508	---
	4/20/2016	11.74	1.211	3.5	---	6.70	-74.5	---	112 D	158	---
	9/14/2016	13.90	1.010	7.2	0.74	6.40	-114.1	121.5	59.1 D	---	212 H
MW12D	12/17/2015	12.89	0.713	34.1	3.48	6.67	-161.3	9.8	31.5 D	17.0	---
	4/20/2016	13.27	0.428	2.3	0.24	6.41	-27.7	---	31.5 D	35.0	---
	9/15/2016	13.20	0.733	9.3	0.57	6.55	-81.2	5.1	68.7 D	---	468 H
MW13	12/21/2015	12.64	1.884	7.5	0.78	6.71	-191.5	36.9	208 D	172	---
	4/21/2016	11.95	1.178	21.0	2.28	6.62	-58.7	---	220 D	99.0	---
	9/13/2016	15.50	1.705	7.6	0.76	6.68	-158.0	2.2	231 D	---	828 H
MW14	12/21/2015	12.26	7.010	46.0	4.81	7.07	-134.9	550.1	1,870 D	724	---
	4/21/2016	12.61	3.235	16.1	1.17	6.65	-57.5	---	1,120 D	1,340	---
	9/13/2016	15.20	4.799	---	2.46	6.82	-165.0	90.1	1,580 D	---	2,610 H

TABLE 2-8
Groundwater Geochemical Parameters
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Observation Date	Temperature (°C)	Conductivity (mS/cm)	Dissolved Oxygen (%)	Dissolved Oxygen (mg/L)	pH	Oxidation-Reduction Potential (mV)	Turbidity (NTUs)	Chloride (mg/L)*	Total Suspended Solids (mg/L)	Total Dissolved Solids (mg/L)
MW15	12/17/2015	6.28*	0.003*	104.2*	12.88*	6.41*	-208.4*	6.3*	16.0 D	<5.00	---
	4/20/2016	13.27	0.339	10.6	1.11	6.38	146.8	---	5.96 D	9.00	---
	9/13/2016	16.80	0.361	8.3	0.80	6.20	-46.2	5.4	10.6 D	---	108 H
MW16	12/21/2015	13.60	12.400	10.6	1.04	7.18	-188.6	201.7	4,090 D	74.0	---
	4/21/2016	11.77	7.591	14.3	1.49	7.33	-96.8	---	3,360 D	11.0	---
	9/14/2016	14.00	12.664	15.1	1.51	6.94	-136.8	81.5	4,950 D	---	5,390 H

Notes: Refer to site diagram(s) for well locations.

(1) Well MW05 was inaccessible during the sampling event

(2) Well contained insufficient volume of water to collect geochemical parameters

* Multiparameter probe used for geochemical parameters appeared to be functioning incorrectly

nd Not detected above laboratory reporting limits

--- Not measured

D Dilution Required

H Holding time exceeded

TABLE 2-9
Groundwater Elevation Measurements
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Location Designation	Well Installation Date	Elevation Monument Rim (ft.)	Elevation Top of PVC Casing (ft.)	Depth to Top of Screen (ft.)	Depth to Bottom of Screen (ft.)	Well Diameter (in.)	Date Measured	Measured By	Depth to Water (ft.)	Calculated Elevations (ft.)	Approximate Tide Elevation (ft.)
MW1	---	---	15.38 (1)	5	15	2	03/22/02	Farallon	7.94	7.44	---
							03/27/02	Farallon	8.89	6.49	---
							05/13/02	Farallon	7.58	7.80	---
							06/04/08	Pacific Crest	10.83	4.55	---
							06/06/08	Pacific Crest	---	---	---
							06/09/08	Pacific Crest	8.10	7.28	---
MW-1D	---	---	15.89 (1)	20	30	2	06/04/08	Pacific Crest	12.33	3.56	---
							06/06/08	Pacific Crest	7.40	8.49	---
							06/09/08	Pacific Crest	9.62	6.27	---
MW2	---	---	15.85 (1)	5	15	2	03/22/02	Farallon	10.87	4.98	---
							03/27/02	Farallon	10.82	5.03	---
							05/13/02	Farallon	11.31	4.54	---
							06/04/08	Pacific Crest	---	---	---
							06/06/08	Pacific Crest	---	---	---
							06/09/08	Pacific Crest	---	---	---
MW-2D	---	---	15.88 (1)	20	30	2	06/04/08	Pacific Crest	12.40	3.48	---
							06/06/08	Pacific Crest	7.30	8.58	---
							06/09/08	Pacific Crest	10.35	5.53	---
MW3	---	---	15.73 (1)	5	15	2	03/22/02	Farallon	11.43	4.30	---
							03/27/02	Farallon	10.11	5.62	---
							05/13/02	Farallon	9.06	6.67	---
							06/04/08	Pacific Crest	---	---	---
							06/06/08	Pacific Crest	---	---	---
							06/09/08	Pacific Crest	10.33	5.40	---
MW-3D	---	---	17.54 (1)	20	30	2	06/04/08	Pacific Crest	14.77	2.77	---
							06/06/08	Pacific Crest	---	---	---
							06/09/08	Pacific Crest	12.70	4.84	---
MW4	---	---	14.14 (1)	5	15	2	03/22/02	Farallon	9.93	4.21	---
							03/27/02	Farallon	8.09	6.05	---
							05/13/02	Farallon	7.09	7.05	---
							06/04/08	Pacific Crest	6.53	7.61	---
							06/06/08	Pacific Crest	---	---	---
							06/09/08	Pacific Crest	7.02	7.12	---
MW-4D	**---**	---	15.56 (1)	20	30	2	06/04/08	Pacific Crest	11.86	3.70	---
							06/06/08	Pacific Crest	7.36	8.20	---
							06/09/08	Pacific Crest	9.69	5.87	---
MW05	10/19/15*	---	---	10	20	2	---	G-Logics	---	---	---
	4/21/16	16.79	16.48				04/20/16	G-Logics	11.00	5.48	5.5
							09/15/16	G-Logics	14.89	1.59	0.0
MW06	10/21/15	13.01	12.73	8	18	2	12/14/15	G-Logics	5.92	6.81	6.4
							12/17/15	G-Logics	7.05	5.68	6.7
							04/21/16	G-Logics	8.48	4.25	3.5
							09/14/16	G-Logics	10.94	1.79	0.5
MW07	10/20/15	15.21	14.93	7	17	2	12/14/15	G-Logics	7.35	7.58	6.4
							12/17/15	G-Logics	7.28	7.65	6.7
							04/21/16	G-Logics	8.96	5.97	2.5
							09/14/16	G-Logics	12.64	2.29	1.5
MW08	10/20/15	14.61	14.41	8	18	2	12/14/15	G-Logics	8.10	6.31	7.5
							12/21/15	G-Logics	6.79	7.62	6.0
							04/21/16	G-Logics	11.38	3.03	2.0
							09/15/16	G-Logics	13.59	0.82	1.0
MW09	10/22/15	15.33	14.98	8	18	2	12/14/15	G-Logics	7.68	7.30	10.0
							12/17/15	G-Logics	8.37	6.61	5.5
							04/21/16	G-Logics	8.28	6.70	5.0
							09/13/16	G-Logics	11.97	3.01	2.2
MW09D	10/22/15	15.36	14.97	14	29	2	12/14/15	G-Logics	6.59	8.38	8.8
							12/17/15	G-Logics	8.40	6.57	5.7
							04/21/16	G-Logics	8.33	6.64	5.0
							09/16/16	G-Logics	11.72	3.25	0.3

TABLE 2-9
Groundwater Elevation Measurements
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Location Designation	Well Installation Date	Elevation Monument Rim (ft.)	Elevation Top of PVC Casing (ft.)	Depth to Top of Screen (ft.)	Depth to Bottom of Screen (ft.)	Well Diameter (in.)	Date Measured	Measured By	Depth to Water (ft.)	Calculated Elevations (ft.)	Approximate Tide Elevation (ft.)
MW10	10/22/15	15.40	15.07	9	19	2	12/14/15	G-Logics	6.63	8.44	7.5
							12/17/15	G-Logics	6.26	8.81	6.0
							04/20/16	G-Logics	7.02	8.05	1.6
							09/16/16	G-Logics	11.48	3.59	0.2
MW10D	10/22/15	15.34	15.03	14.5	29.5	2	12/14/15	G-Logics	7.22	7.81	7.2
							12/17/15	G-Logics	8.41	6.62	6.0
							04/20/16	G-Logics	10.42	4.08	1.5
							09/16/16	G-Logics	11.96	2.54	1.0
MW11	10/20/15	14.56	14.25	8	18	2	12/14/15	G-Logics	8.00	6.25	6.8
							12/21/15	G-Logics	7.32	6.93	6.0
							04/20/16	G-Logics	8.10	6.15	6.0
							09/15/16	G-Logics	11.98	2.27	0.4
MW12	10/20/15 **	---	---	7.5	17.5	2	12/15/15	G-Logics	7.53	9.17	12.1
							12/17/15	G-Logics	9.55	7.15	6.5
	4/21/16	16.95	16.70				04/20/16	G-Logics	12.56	4.14	2.2
							09/14/16	G-Logics	14.52	2.18	1.0
MW12D	10/19/15**	---	----	15	30	2	12/15/15	G-Logics	7.41	9.39	11.5
							12/17/15	G-Logics	9.70	7.10	6.5
	4/21/16	17.24	16.80				04/20/16	G-Logics	12.74	4.06	3.0
							09/15/16	G-Logics	14.66	2.14	0.3
MW13	10/21/15**	---	---	8	18	2	12/14/15	G-Logics	8.64	6.59	6.4
							12/21/15	G-Logics	9.08	6.15	3.0
	4/21/16	15.55	15.23				04/21/16	G-Logics	12.14	3.09	1.0
							09/13/16	G-Logics	12.32	2.91	0.7
MW14	10/21/15	15.48	15.25	5	15	2	12/14/15	G-Logics	9.12	6.13	7.1
							12/21/15	G-Logics	7.23	8.02	2.0
							04/21/16	G-Logics	9.15	6.10	1.5
							09/13/16	G-Logics	10.97	4.28	1.0
MW15	10/21/15	13.55	13.30	8	18	2	12/14/15	G-Logics	4.79	8.51	11.0
							12/17/15	G-Logics	6.83	6.47	5.9
							04/20/16	G-Logics	7.68	5.62	3.0
							09/13/16	G-Logics	10.72	2.58	2.0
MW16	10/19/15	17.75	17.42	9	19	2	12/15/15	G-Logics	8.82	8.60	10.0
							12/21/15	G-Logics	12.62	4.80	2.0
							04/21/16	G-Logics	15.24	2.18	1.5
							09/14/16	G-Logics	15.72	1.70	0.5

Notes: Unless otherwise noted, well elevations based on PLS, Inc. Survey prepared for the Site.

(1) Elevations based on an arbitrary elevation of 15.00 feet.

* Well MW05 was inaccessible during the elevation survey.

** Elevation Surveyed by G-Logics

--- Not measured.

TABLE 3-1
Riverbank Sediment Cleanup Levels and Contaminants of Potential Concern
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Chemical	CAS No.	FAI Method	Marine Sediment AETs Sediment Cleanup Objective (SCO), SMS Chapter 173-204 WAC Benthic Criteria	Marine Sediment AETs Cleanup Screening Level (CSL), SMS Chapter 173-204 WAC Benthic Criteria	LDW Sediment CUL for Benthic Invertebrate Most Conservative of LDW-Wide RAO 3, EPA Record of Decision (2014), LDW Superfund Site (1)	Sediment Lowest ARAR (mg/kg dry weight)	MDL Used as Reporting Limit (2)	No. of Analyses	Number of Detections
Chemical	**CAS**		**mg/kg dry weight**	**mg/kg dry weight**	**mg/kg dry weight**	**mg/kg dry weight**			
Metals									
Antimony	7440-36-0	EPA 200.8	na	na	na	na		12	12
Arsenic	7440-38-2	EPA 200.8/SW 6010B	5.70E+01	9.30E+01	5.70E+01	5.70E+01		17	12
Beryllium	7440-41-7	EPA 200.8	na	na	na	na		12	0
Cadmium (nonpotable surface water)	7440-43-9	EPA 200.8	5.10E+00	6.70E+00	5.10E+00	5.10E+00		17	10
Chromium(III)	7440-47-3	EPA 200.8/SW 6010B	2.60E+02	2.70E+02	2.60E+02	2.60E+02		17	17
Chromium(VI)	18540-29-9	SW 6010B/SW 7196A	na	na	na	na		5	0
Copper	7440-50-8	EPA 200.8/SW 6010B	3.90E+02	3.90E+02	3.90E+02	3.90E+02		17	17
Lead	7439-92-1	EPA 200.8/SW 6010B	4.50E+02	5.30E+02	4.50E+02	4.50E+02		17	16
Mercury	7439-97-6	EPA 1631/SW 7471A	4.10E-01	5.90E-01	4.10E-01	4.10E-01		17	8
Nickel	7440-02-0	EPA 200.8/SW 6010B	na	na	na	na		17	17
Selenium	7782-49-2	EPA 200.8	na	na	na	na		12	12
Silver	7440-22-4	EPA 200.8	6.10E+00	6.10E+00	6.10E+00	6.10E+00		12	3
Thallium	7440-28-0	EPA 200.8	na	na	na	na		12	0
Zinc	7440-66-6	EPA 200.8/SW 6010B	4.10E+02	9.60E+02	4.10E+02	4.10E+02		17	17
PCBs									
Aroclor 1016	na	EPA 8082	na	na	na	na		17	0
Aroclor 1221	na	EPA 8082	na	na	na	na		17	0
Aroclor 1232	na	EPA 8082	na	na	na	na		17	0
Aroclor 1242	na	EPA 8082	na	na	na	na		17	1
Aroclor 1248	na	EPA 8082	na	na	na	na		17	2
Aroclor 1254	na	EPA 8082	na	na	na	na		17	6
Aroclor 1260	na	EPA 8082	na	na	na	na		17	10
Aroclor 1262	na	EPA 8082	na	na	na	na		17	3
Aroclor 1268	na	EPA 8082	na	na	na	na		17	0
Total PCB Aroclors	1336-36-3	EPA 8082	1.30E-01	1.00E+00	na	1.30E-01		17	13
Total PCB Congeners	1336-36-3	EPA 8082	1.30E-01	1.00E+00	na	1.30E-01		0	---
VOCs									
1,1,1,2-Tetrachloroethane	630-20-6	EPA 8260C	na	na	na	na		12	0
1,1,1-Trichloroethane	71-55-6	EPA 8260C	na	na	na	na		12	0
1,1,2,2-Tetrachloroethane	79-34-5	EPA 8260C	na	na	na	na		12	0
1,1,2-Trichloroethane	79-00-5	EPA 8260C	na	na	na	na		12	0
1,1-Dichloroethane	75-34-3	EPA 8260C	na	na	na	na		12	0
1,1-Dichloroethylene	75-35-4	EPA 8260C	na	na	na	na		12	0
1,1-Dichloropropene	563-58-6	EPA 8260C	na	na	na	na		12	0
1,2,3-Trichlorobenzene	87-61-6	EPA 8260C	na	na	na	na		12	0
1,2,3-Trichloropropane	96-18-4	EPA 8260C	na	na	na	na		12	0
1,2,4-Trichlorobenzene	120-82-1	EPA 8260C	3.10E-02	5.10E-02	na	3.10E-02		12	0
1,2,4-Trimethylbenzene	95-63-6	EPA 8260C	na	na	na	na		12	0
1,2-Dibromo-3-chloropropane	96-12-8	EPA 8260C	na	na	na	na		12	0
1,2-Dichloroethane (EDC)	107-06-2	EPA 8260C	na	na	na	na		12	0
1,2-Dichloropropane	78-87-5	EPA 8260C	na	na	na	na		12	0
1,3,5-Trimethylbenzene	108-67-8	EPA 8260C	na	na	na	na		12	0
1,3-Dichloropropane	142-28-9	EPA 8260C	na	na	na	na		12	0
2,2-Dichloropropane	594-20-7	EPA 8260C	na	na	na	na		12	0
2-Chlorotoluene	95-49-8	EPA 8260C	na	na	na	na		12	0
2-Hexanone	591-78-6	EPA 8260C	na	na	na	na		12	0
4-Chlorotoluene	106-43-4	EPA 8260C	na	na	na	na		12	0
4-Isopropyltoluene	99-87-6	EPA 8260C	na	na	na	na		12	0
Acetone	67-64-1	EPA 8260C	na	na	na	na		12	0
Benzene	71-43-2	EPA 8260C	na	na	na	na		12	0
Bromobenzene	108-86-1	EPA 8260C	na	na	na	na		12	0
Bromoform	75-25-2	EPA 8260C	na	na	na	na		12	0
Bromomethane	74-83-9	EPA 8260C	na	na	na	na		12	0
Carbon disulfide	75-15-0	EPA 8260C	na	na	na	na		12	0

TABLE 3-1
Riverbank Sediment Cleanup Levels and Contaminants of Potential Concern
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Chemical	Highest Recorded Riverbank Sediment Concentation at DMC (mg/kg dry weight)	Location with Highest Concentration	Detections Above CUL	Number of Different Locations with CUL Exceedance	Exceedance Factor for Highest Concentrations	**Preliminary Riverbank Sediment COPC List** Based on Sediment CUL	**Final Riverbank Sediment COPC List** If number of locations > 2 and Exceedance Factor > 2, **OR** Exceedance Factor > 10.
Chemical							
Metals							
Antimony	1.74E+01	RB09	0	0			
Arsenic	6.39E+01	RB06	**1**	**1**	**1**	Arsenic	
Beryllium	---	---	0	0			
Cadmium (nonpotable surface water)	2.72E+00	RB09	0	0			
Chromium(III)	4.36E+02	RB06	**2**	**2**	**1**	Chromium(III)	
Chromium(VI)	---	---	0	0			
Copper	1.01E+03	RB07	**2**	**2**	**2**	Copper	Copper
Lead	4.10E+02	RB06	0	0			
Mercury	1.50E+00	RB09	**2**	**2**	**3**	Mercury	Mercury
Nickel	2.11E+02	RB07	0	0			
Selenium	3.06E-01	RB06	0	0			
Silver	1.91E+00	RB06	0	0			
Thallium	---	---	0	0			
Zinc	3.24E+02	RB09	0	0			
PCBs							
Aroclor 1016	---	---	0	0			
Aroclor 1221	---	---	0	0			
Aroclor 1232	---	---	0	0			
Aroclor 1242	8.50E-01	RB09	0	0			
Aroclor 1248	9.30E+00	RB06	0	0			
Aroclor 1254	4.90E+00	RB06	0	0			
Aroclor 1260	2.30E+00	RB06	0	0			
Aroclor 1262	1.10E-01	RB09	0	0			
Aroclor 1268	---	---	---	---			
Total PCB Aroclors	1.65E+01	RB06	**7**	**5**	**126**	Total PCB Aroclors	Total PCB Aroclors
Total PCB Congeners	---	---	---	---			
VOCs							
1,1,1,2-Tetrachloroethane	---	---	0	0			
1,1,1-Trichloroethane	---	---	0	0			
1,1,2,2-Tetrachloroethane	---	---	0	0			
1,1,2-Trichloroethane	---	---	0	0			
1,1-Dichloroethane	---	---	0	0			
1,1-Dichloroethylene	---	---	0	0			
1,1-Dichloropropene	---	---	0	0			
1,2,3-Trichlorobenzene	---	---	0	0			
1,2,3-Trichloropropane	---	---	0	0			
1,2,4-Trichlorobenzene	---	---	0	0			
1,2,4-Trimethylbenzene	---	---	0	0			
1,2-Dibromo-3-chloropropane	---	---	0	0			
1,2-Dichloroethane (EDC)	---	---	0	0			
1,2-Dichloropropane	---	---	0	0			
1,3,5-Trimethylbenzene	---	---	0	0			
1,3-Dichloropropane	---	---	0	0			
2,2-Dichloropropane	---	---	0	0			
2-Chlorotoluene	---	---	0	0			
2-Hexanone	---	---	0	0			
4-Chlorotoluene	---	---	0	0			
4-Isopropyltoluene	---	---	0	0			
Acetone	---	---	0	0			
Benzene	---	---	0	0			
Bromobenzene	---	---	0	0			
Bromoform	---	---	0	0			
Bromomethane	---	---	0	0			
Carbon disulfide	---	---	0	0			

TABLE 3-1
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Chemical	CAS No.	FAI Method	Marine Sediment AETs Sediment Cleanup Objective (SCO), SMS Chapter 173-204 WAC Benthic Criteria	Marine Sediment AETs Cleanup Screening Level (CSL), SMS Chapter 173-204 WAC Benthic Criteria	LDW Sediment CUL for Benthic Invertebrate Most Conservative of LDW-Wide RAO 3, EPA Record of Decision (2014), LDW Superfund Site (1)	Sediment Lowest ARAR (mg/kg dry weight)	MDL Used as Reporting Limit (2)	No. of Analyses	Number of Detections
Chemical	**CAS**		**mg/kg dry weight**	**mg/kg dry weight**	**mg/kg dry weight**	**mg/kg dry weight**			
VOCs									
Carbon tetrachloride	56-23-5	EPA 8260C	na	na	na	na	12	0	
Chlorobenzene	108-90-7	EPA 8260C	na	na	na	na	12	0	
Chloroethane (ethyl chloride)	75-00-3	EPA 8260C	na	na	na	na	12	0	
Chloroform	67-66-3	EPA 8260C	na	na	na	na	12	0	
Chloromethane (Methylene chloride)	74-87-3	EPA 8260C	na	na	na	na	12	0	
cis-1,2-Dichloroethylene	156-59-2	EPA 8260C	na	na	na	na	0	0	
cis-1,3-Dichloropropene	10061-01-5	EPA 8260C	na	na	na	na	12	0	
Dibromochloromethane (chlorodibromomethane)	124-48-1	EPA 8260C	na	na	na	na	12	0	
Dibromomethane (methylene bromide)	74-95-3	EPA 8260C	na	na	na	na	12	0	
Dichlorobromomethane	75-27-4	EPA 8260C	na	na	na	na	0	---	
Dichlorodifluoromethane (CFC-12)	75-71-8	EPA 8260C	na	na	na	na	12	0	
Ethylbenzene	100-41-4	EPA 8260C	na	na	na	na	12	0	
Ethylene dibromide (EDB)	106-93-4	EPA 8260C	na	na	na	na	12	0	
Isopropylbenzene (Cumene)	98-82-8	EPA 8260C	na	na	na	na	12	0	
m,p-Xylene	179601-23-1	EPA 8260C	na	na	na	na	12	0	
Methyl ethyl ketone (2-Butanone, MEK)	78-93-3	EPA 8260C	na	na	na	na	12	0	
Methyl isobutyl ketone (MIBK)	108-10-1	EPA 8260C	na	na	na	na	12	0	
Methyl tert-butyl ether (MTBE)	1634-04-4	EPA 8260C	na	na	na	na	12	0	
Methylene chloride	75-09-2	EPA 8260C	na	na	na	na	12	0	
n-Butylbenzene	104-51-8	EPA 8260C	na	na	na	na	0	0	
n-Propylbenzene	103-65-1	EPA 8260C	na	na	na	na	12	0	
o-Xylene	95-47-6	EPA 8260C	na	na	na	na	12	0	
Pentachloroethane	na	EPA 8260C	na	na	na	na	0	---	
sec-Butylbenzene	135-98-8	EPA 8260C	na	na	na	na	12	0	
Styrene	100-42-5	EPA 8260C	na	na	na	na	12	0	
tert-Butylbenzene	98-06-6	EPA 8260C	na	na	na	na	12	0	
Tetrachloroethylene (PCE)	127-18-4	EPA 8260C	na	na	na	na	12	0	
Toluene	108-88-3	EPA 8260C	na	na	na	na	12	0	
Total xylenes	1330-20-7	EPA 8260C	na	na	na	na	12	0	
trans-1,2-Dichloroethylene	156-60-5	EPA 8260C	na	na	na	na	12	0	
trans-1,3-Dichloropropene	10061-02-6	EPA 8260C	na	na	na	na	12	0	
Trichloroethylene (TCE)	79-01-6	EPA 8260C	na	na	na	na	12	0	
Trichlorofluoroethane	27154-33-2	EPA 8260C	na	na	na	na	0	---	
Vinyl acetate	108-05-4	EPA 8260C	na	na	na	na	0	---	
Vinyl chloride	75-01-4	EPA 8260C	na	na	na	na	12	0	
SVOCs									
1,2-Dichlorobenzene	95-50-1	EPA 8270D	3.50E-02	5.00E-02	na	3.50E-02	0	---	
1,3-Dichlorobenzene	541-73-1	EPA 8270D	na	na	na	na	0	---	
1,4-Dichlorobenzene	106-46-7	EPA 8270D	1.10E-01	1.10E-01	na	1.10E-01	0	---	
1,4-Dioxane	123-91-1	EPA 8270D	na	na	na	na	0	---	
2,4,5-Trichlorophenol	na	EPA 8270D	na	na	na	na	0	---	
2,4,6-Trichlorophenol	na	EPA 8270D	na	na	na	na	0	---	
2,4-Dichlorophenol	120-83-2	EPA 8270D	na	na	na	na	0	---	
2,4-Dimethylphenol	105-67-9	EPA 8270D	2.90E-02	2.90E-02	2.90E-02	2.90E-02	12	0	
2,4-Dinitrophenol	51-28-5	EPA 8270D	na	na	na	na	0	---	
2,4-Dinitrotoluene	121-14-2	EPA 8270D	na	na	na	na	0	---	
2,6-Dinitrotoluene	606-20-2	EPA 8270D	na	na	na	na	0	---	
2-Chloronaphthalene (beta-chloronaphthalene)	91-58-7	EPA 8270D	na	na	na	na	0	---	
2-Chlorophenol	95-57-8	EPA 8270D	na	na	na	na	0	---	
2-Methylphenol (o-Cresol)	95-48-7	EPA 8270D	6.30E-02	6.30E-02	na	6.30E-02	0	---	
2-Nitroaniline	88-74-4	EPA 8270D	na	na	na	na	0	---	
2-Nitrophenol	88-75-5	EPA 8270D	na	na	na	na	0	---	
4,6-Dinitro-2-methylphenol	534-52-1	EPA 8270D	na	na	na	na	0	---	
4-Bromophenyl phenyl ether	101-55-3	EPA 8270D	na	na	na	na	0	---	
4-Chloro-3-methylphenol (chlorocresol)	59-50-7	EPA 8270D	na	na	na	na	0	---	
4-Chloroaniline (chloroaniline;p-)	106-47-8	EPA 8270D	na	na	na	na	0	---	
4-Chlorophenyl phenyl ether	7005-72-3	EPA 8270D	na	na	na	na	0	---	
4-Methylphenol (p-Cresol)	106-44-5	EPA 8270D	6.70E-01	6.70E-01	6.70E-01	6.70E-01	0	---	
4-Nitrophenol	100-02-7	EPA 8270D	na	na	na	na	0	---	
Benzyl alcohol	100-51-6	EPA 8270D	5.70E-02	7.30E-02	5.70E-02	5.70E-02	12	0	
Bis(2-chloroethoxy)methane	111-91-1	EPA 8270D	na	na	na	na	17	0	

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Chemical							
VOCs							
Carbon tetrachloride	---	---	0	0			
Chlorobenzene	---	---	0	0			
Chloroethane (ethyl chloride)	---	---	0	0			
Chloroform	---	---	0	0			
Chloromethane (Methylene chloride)	---	---	0	0			
cis-1,2-Dichloroethylene	---	---	---	---			
cis-1,3-Dichloropropene	---	---	0	0			
Dibromochloromethane (chlorodibromomethane)	---	---	0	0			
Dibromomethane (methylene bromide)	---	---	0	0			
Dichlorobromomethane	---	---	---	---			
Dichlorodifluoromethane (CFC-12)	---	---	0	0			
Ethylbenzene	---	---	0	0			
Ethylene dibromide (EDB)	---	---	0	0			
Isopropylbenzene (Cumene)	---	---	0	0			
m,p-Xylene	---	---	0	0			
Methyl ethyl ketone (2-Butanone, MEK)	---	---	0	0			
Methyl isobutyl ketone (MIBK)	---	---	0	0			
Methyl tert-butyl ether (MTBE)	---	---	0	0			
Methylene chloride	---	---	0	0			
n-Butylbenzene	---	---	---	---			
n-Propylbenzene	---	---	0	0			
o-Xylene	---	---	0	0			
Pentachloroethane	---	---	---	---			
sec-Butylbenzene	---	---	0	0			
Styrene	---	---	0	0			
tert-Butylbenzene	---	---	0	0			
Tetrachloroethylene (PCE)	---	---	0	0			
Toluene	---	---	0	0			
Total xylenes	---	---	0	0			
trans-1,2-Dichloroethylene	---	---	0	0			
trans-1,3-Dichloropropene	---	---	0	0			
Trichloroethylene (TCE)	---	---	0	0			
Trichlorofluoroethane	---	---	---	---			
Vinyl acetate	---	---	---	---			
Vinyl chloride	---	---	0	0			
SVOCs							
1,2-Dichlorobenzene	---	---	---	---			
1,3-Dichlorobenzene	---	---	---	---			
1,4-Dichlorobenzene	---	---	---	---			
1,4-Dioxane	---	---	---	---			
2,4,5-Trichlorophenol	---	---	---	---			
2,4,6-Trichlorophenol	---	---	---	---			
2,4-Dichlorophenol	---	---	---	---			
2,4-Dimethylphenol	---	---	0	0			
2,4-Dinitrophenol	---	---	---	---			
2,4-Dinitrotoluene	---	---	---	---			
2,6-Dinitrotoluene	---	---	---	---			
2-Chloronaphthalene (beta-chloronaphthalene)	---	---	---	---			
2-Chlorophenol	---	---	---	---			
2-Methylphenol (o-Cresol)	---	---	---	---			
2-Nitroaniline	---	---	---	---			
2-Nitrophenol	---	---	---	---			
4,6-Dinitro-2-methylphenol	---	---	---	---			
4-Bromophenyl phenyl ether	---	---	---	---			
4-Chloro-3-methylphenol (chlorocresol)	---	---	---	---			
4-Chloroaniline (chloroaniline;p-)	---	---	---	---			
4-Chlorophenyl phenyl ether	---	---	---	---			
4-Methylphenol (p-Cresol)	---	---	---	---			
4-Nitrophenol	---	---	---	---			
Benzyl alcohol	---	---	0	0			
Bis(2-chloroethoxy)methane	---	---	0	0			

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Chemical	CAS No.	FAI Method	Marine Sediment AETs Sediment Cleanup Objective (SCO), SMS Chapter 173-204 WAC Benthic Criteria	Marine Sediment AETs Cleanup Screening Level (CSL), SMS Chapter 173-204 WAC Benthic Criteria	LDW Sediment CUL for Benthic Invertebrate Most Conservative of LDW-Wide RAO 3, EPA Record of Decision (2014), LDW Superfund Site (1)	Sediment Lowest ARAR (mg/kg dry weight)	MDL Used as Reporting Limit (2)	No. of Analyses	Number of Detections
Chemical	**CAS**		**mg/kg dry weight**	**mg/kg dry weight**	**mg/kg dry weight**	**mg/kg dry weight**			
SVOCs									
Bis(2-chloroethyl)ether	111-44-4	EPA 8270D	na	na	na	na		0	---
Bis/Di(2-ethylhexyl) phthalate	117-81-7	EPA 8270D	1.30E+00	3.10E+00	na	1.30E+00		17	7
bis/Di(2-Ethylhexyl)adipate	na	EPA 8270D	na	na	na	na		0	---
Butyl benzyl phthalate	85-68-7	EPA 8270D	6.30E-02	9.00E-01	na	6.30E-02		17	1
Carbazole	86-74-8	EPA 8270D	na	na	na	na		17	3
Dibutyl phthalate	84-74-2	EPA 8270D	na	na	na	na		17	0
Diethyl phthalate (phthalic acid)	84-66-2	EPA 8270D	2.00E-01	2.00E-01	na	2.00E-01		0	---
Dimethyl phthalate	131-11-3	EPA 8270D	7.10E-02	1.60E-01	na	7.10E-02		17	0
Di-n-octyl phthalate	117-84-0	EPA 8270D	6.20E+00	6.20E+00	na	6.20E+00		0	---
Hexachlorobenzene	118-74-1	EPA 8270D	2.20E-02	7.00E-02	na	2.20E-02		12	0
Hexachlorobutadiene	87-68-3	EPA 8270D	1.10E-02	1.20E-01	na	1.10E-02		12	0
Hexachlorocyclopentadiene	77-47-4	EPA 8270D	na	na	na	na		0	---
Hexachloroethane	67-72-1	EPA 8270D	na	na	na	na		0	---
Isophorone	78-59-1	EPA 8270D	na	na	na	na		0	---
Nitrobenzene	98-95-3	EPA 8270D	na	na	na	na		0	---
n-Nitrosodi-n-propylamine	621-64-7	EPA 8270D	na	na	na	na		0	---
Pentachlorophenol	87-86-5	EPA 8270D	3.60E-01	6.90E-01	3.60E-01	3.60E-01		17	0
Phenol	108-95-2	EPA 8270D	4.20E-01	1.20E+00	4.20E-01	4.20E-01		17	0
PAHs									
1-Methylnaphthalene	90-12-0	EPA 8270D SIM	na	na	na	na		17	0
2-Methylnaphthalene	91-57-6	EPA 8270D SIM	6.70E-01	6.70E-01	na	6.70E-01		17	3
Acenaphthene	83-32-9	EPA 8270D SIM	5.00E-01	5.00E-01	na	5.00E-01		17	4
Acenaphthylene	208-96-8	EPA 8270D SIM	1.30E+00	1.30E+00	na	1.30E+00		17	2
Anthracene	120-12-7	EPA 8270D SIM	9.60E-01	9.60E-01	na	9.60E-01		17	7
Benzo(a)anthracene	56-55-3	EPA 8270D SIM	1.30E+00	1.60E+00	na	1.30E+00		17	14
Benzo(a)pyrene	50-32-8	EPA 8270D SIM	1.60E+00	1.60E+00	na	1.60E+00		17	15
Benzo(b)fluoranthene	205-99-2	EPA 8270D SIM	na	na	na	na		17	15
Benzo(g,h,i)perylene	191-24-2	EPA 8270D SIM	6.70E-01	7.20E-01	na	6.70E-01		17	11
Benzo(k)fluoranthene	207-08-9	EPA 8270D SIM	na	na	na	na		17	12
Chrysene	218-01-9	EPA 8270D SIM	1.40E+00	2.80E+00	na	1.40E+00		17	15
Dibenz(a,h)anthracene	53-70-3	EPA 8270D SIM	2.30E-01	2.30E-01	na	2.30E-01		17	4
Dibenzofuran	132-64-9	EPA 8270D SIM	5.40E-01	5.40E-01	na	5.40E-01		17	0
Fluoranthene	206-44-0	EPA 8270D SIM	1.70E+00	2.50E+00	na	1.70E+00		17	16
Fluorene	86-73-7	EPA 8270D SIM	5.40E-01	5.40E-01	na	5.40E-01		17	3
Indeno(1,2,3-cd)pyrene	193-39-5	EPA 8270D SIM	6.00E-01	6.90E-01	na	6.00E-01		17	12
Naphthalene**	91-20-3	EPA 8270D SIM	2.10E+00	2.10E+00	na	2.10E+00		17	2
Phenanthrene	85-01-8	EPA 8270D SIM	1.50E+00	1.50E+00	na	1.50E+00		17	12
Pyrene	129-00-0	EPA 8270D SIM	2.60E+00	3.30E+00	na	2.60E+00		17	15
HPAH	na	EPA 8270D SIM	1.20E+01	1.70E+01	na	1.20E+01		---	---
LPAH	na	EPA 8270D SIM	5.20E+00	5.20E+00	na	5.20E+00		---	---
Total Benzofluoranthenes	na	EPA 8270D SIM	3.20E+00	3.60E+00	na	3.20E+00		---	---
cPAH TEQ (3)	na	EPA 8270D SIM	1.60E+00	1.60E+00	na	1.60E+00		17	17
Tins									
Tributyltin	36643-28-4	Krone 1988	na	na	na	na		17	0
Dioxin/Furans									
Dioxins/Furans TEQ	688-73-3	EPA 1613B	na	na	na	na		---	---
TPH									
Gasoline range organics without benzene (4)	J	NWTPH-Gx	1.00E+02	1.00E+02	na	1.00E+02		0	---
Diesel range organics (4)	K	NWTPH-Dx	2.00E+03	2.00E+03	na	2.00E+03		17	13
Oil range organics (Lube Oil) (4)	L	NWTPH-Dx	2.00E+03	2.00E+03	na	2.00E+03		17	17

Notes:

(1) Only Contaminants with Concentrations in Dry Weight Basis Used
(2) Laboratory Reported Results to the Method Detection Limit (MDL) for One or More Sampling Events. See Summary Tables for Reporting Limits.
(3) Benzo(a)pyrene Cleanup Levels used for Comparison
(4) Method A Cleanup Levels used for Petroleum Hydrocarbon Contaminants
Dioxins Yellow Highlight Indicates that Contaminant Was Not Included in Analysis
na Cleanup/Permit Level Not Available
** Naphthalene analyzed by methods 8270D SIM and 8260C
AET Apparent Effects Threshold
SMS Sediment Management Standards
RAO Remedial Action Objective

TABLE 3-1
Riverbank Sediment Cleanup Levels and Contaminants of Potential Concern
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Chemical	Highest Recorded Riverbank Sediment Concentation at DMC (mg/kg dry weight)	Location with Highest Concentration	Detections Above CUL	Number of Different Locations with CUL Exceedance	Exceedance Factor for Highest Concentrations	Preliminary Riverbank Sediment COPC List Based on Sediment CUL	Final Riverbank Sediment COPC List If number of locations > 2 and Exceedance Factor > 2, **OR** Exceedance Factor > 10.
Chemical							
SVOCs							
Bis(2-chloroethyl)ether	---	---	---	---			
Bis/Di(2-ethylhexyl) phthalate	6.70E+00	RB10	**1**	**1**	**5**	Bis/Di(2-ethylhexyl) phthalate	
bis/Di(2-Ethylhexyl)adipate	---	---	---	---			
Butyl benzyl phthalate	7.50E-02	RB-2	**1**	**1**	**1**	Butyl benzyl phthalate	
Carbazole	4.30E-01	RB11	0	0			
Dibutyl phthalate	---	---	0	0			
Diethyl phthalate (phthalic acid)	---	---	---	---			
Dimethyl phthalate	---	---	0	0			
Di-n-octyl phthalate	---	---	---	---			
Hexachlorobenzene	---	---	0	0			
Hexachlorobutadiene	---	---	0	0			
Hexachlorocyclopentadiene	---	---	---	---			
Hexachloroethane	---	---	---	---			
Isophorone	---	---	---	---			
Nitrobenzene	---	---	---	---			
n-Nitrosodi-n-propylamine	---	---	---	---			
Pentachlorophenol	---	---	0	0			
Phenol	---	---	0	0			
PAHs							
1-Methylnaphthalene	---	---	0	0			
2-Methylnaphthalene	1.10E-02	RB09	0	0			
Acenaphthene	3.40E-02	RB06	0	0			
Acenaphthylene	1.70E-02	RB-2	0	0			
Anthracene	5.00E-01	RB06	0	0			
Benzo(a)anthracene	2.10E-01	RB09	0	0			
Benzo(a)pyrene	3.40E-01	RB10	0	0			
Benzo(b)fluoranthene	7.40E-01	RB08	0	0			
Benzo(g,h,i)perylene	1.70E-01	RB08 & RB10	0	0			
Benzo(k)fluoranthene	2.30E-01	RB08	0	0			
Chrysene	4.30E-01	RB08	0	0			
Dibenz(a,h)anthracene	4.50E-02	RB08	0	0			
Dibenzofuran	---	---	0	0			
Fluoranthene	4.30E-01	RB09	0	0			
Fluorene	2.00E-02	RB-5	0	0			
Indeno(1,2,3-cd)pyrene	1.90E-01	RB10	0	0			
Naphthalene**	1.50E-02	RB-5 & RB09	0	0			
Phenanthrene	2.00E-01	RB-5	0	0			
Pyrene	4.00E-01	RB09	0	0			
HPAH	---	---	---	---			
LPAH	---	---	---	---			
Total Benzofluoranthenes	---	---	---	---			
cPAH TEQ (3)	4.63E-01	RB10	0.00E+00	0.00E+00			
Tins							
Tributyltin	---	---	0	0			
Dioxin/Furans							
Dioxins/Furans TEQ	---	---	---	---			
TPH							
Gasoline range organics without benzene (4)	---	---	---	---			
Diesel range organics (4)	6.80E+02	RB06	0	0	**0**		
Oil range organics (Lube Oil) (4)	2.40E+03	RB06	**1**	**1**	**1**	Oil range organics (Lube Oil) (4)	

Notes:

(1) Only Contaminants with Concentrations in Dry Weight Basis Used Laboratory Reported Results to the Method Detection Limit (MDL)

(2) for One or More Sampling Events. See Summary Tables for Reporting Limits.

(3) Benzo(a)pyrene Cleanup Levels used for Comparison

(4) Method A Cleanup Levels used for Petroleum Hydrocarbon Contaminants

Dioxins Yellow Highlight Indicates that Contaminant Was Not Included in Analysis

na Cleanup/Permit Level Not Available

** Naphthalene analyzed by methods 8270D SIM and 8260C

AET Apparent Effects Threshold

SMS Sediment Management Standards

RAO Remedial Action Objective

TABLE 3-1a
Preliminary List of Riverbank Sediment Contaminants of Potential Concern
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Riverbank Sediment COPC	Cleanup Level Basis	Lowest Cleanup Level, mg/kg
Copper	WAC 173-204, Benthic Criteria SCO	3.90E+02
Mercury	WAC 173-204, Benthic Criteria SCO	4.10E-01
Total PCB Aroclors	WAC 173-204, Benthic Criteria SCO	1.30E-01

TABLE 3-2
Riverbank Sediment Analyses, Metals
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium (Total)	Hexavalent Chromium	Copper	Iron	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Tin	Zinc
Ecology Marine Sediment AETS Sediment Cleanup Objective (1)					na	na	57	na	na	5.1	260	na	390	na	450	0.41	na	na	6.1	na	na	410
Ecology Marine Sediment AETS Cleanup Screening Level (2)					na	na	93	na	na	6.7	270	na	390	na	530	0.59	na	na	6.1	na	na	960
EPA Sediment CUL for Benthic Invertebrate (3)					na	na	57	na	na	5.1	260	na	390	na	450	0.41	na	na	6.1	na	na	410
(units in mg/kg)																						
RB-1	Pacific Crest	5/29/2008	RB-1	0-1	---	---	<10	---	---	<0.51	**19**	<1.0	**14**	---	<5.1	<0.25	**23**	---	---	---	---	**35**
RB-2	Pacific Crest	5/29/2008	RB-2	0-1	---	---	<11	---	---	<0.53	**40**	<1.1	**66**	---	**66**	<0.27	**48**	---	---	---	---	**130**
RB-3	Pacific Crest	5/29/2008	RB-3	0-1	---	---	<11	---	---	<0.52	**24**	<1.0	**69**	---	**60**	<0.26	**27**	---	---	---	---	**110**
RB-4	Pacific Crest	5/29/2008	RB-4	0-1	---	---	<11	---	---	<0.53	**31**	<1.1	**27**	---	**26**	<0.27	**35**	---	---	---	---	**75**
RB-5	Pacific Crest	5/29/2008	RB-5	0-1	---	---	<11	---	---	**1.6**	**43**	<1.1	**62**	---	**260**	<0.27	**37**	---	---	---	---	**280**
RB06	SoundEarth	2/24/2015	RB06-01-20150224	0.5	---	**6.25**	**23.9**	---	<0.3 J	**0.508**	**66.0**	---	**141**	---	**92.7**	**0.100**	**85.2**	**0.306**	**0.394**	<0.3	---	**267**
		2/24/2015	RB06-02-20150224	0.5	---	**16.9**	**63.9**	---	<0.6 J	**0.638**	**436**	---	**770**	---	**410**	**0.560**	**133**	<0.6	**1.91**	<0.6	---	**165**
RB07	SoundEarth	2/24/2015	RB07-01-20150224	0.5	---	**1.764**	**1.09**	---	<0.3 J	<0.3	**4.97**	---	**25.8**	---	**22.0**	<0.1	**9.10**	<0.3	<0.3	<0.3	---	**24.7**
		2/24/2015	RB07-02-20150224	0.5	---	**7.62**	**25.5**	---	<0.3	**0.707**	**293**	---	**1,010**	---	**170**	**0.130**	**211**	<0.3	<0.3	<0.3	---	**170**
RB08	SoundEarth	2/24/2015	RB08-01-20150224	0.5	---	**3.15**	**4.06**	---	<0.3	**0.568**	**16.3**	---	**84.7**	---	**79.3**	**0.340**	**30.0**	<0.3	<0.3	<0.3	---	**145**
		2/24/2015	RB08-02-20150224	0.5	---	**2.31**	**5.65**	---	<0.3	**0.540**	**13.9**	---	**32.0**	---	**217**	**0.150**	**29.1**	<0.3	<0.3	<0.3	---	**116**
RB09	SoundEarth	2/23/2015	RB09-01-20150223	0.5	---	**10.81**	**9.42**	---	<0.3	**2.72**	**24.3**	---	**83.0**	---	**408**	**1.50**	**40.1**	<0.3	**1.11**	<0.3	---	**324**
		2/23/2015	RB09-02-20150223	0.5	---	**17.4**	**44.1**	---	<0.3	<0.3	**10.8**	---	**89.6**	---	**171**	<0.1	**12.9**	<0.3	<0.3	<0.3	---	**13.0**
RB10	SoundEarth	2/23/2015	RB10-01-20150223	0.5	---	**6.28**	**14.4**	---	<0.3	**0.934**	**105**	---	**88.4**	---	**361**	**0.190**	**81.5**	<0.3	<0.3	<0.3	---	**287**
		2/23/2015	RB10-02-20150223	0.5	---	**2.78**	**5.72**	---	<0.3	<0.3	**9.01**	---	**19.0**	---	**50.9**	<0.1	**6.64**	<0.3	<0.3	<0.3	---	**53.4**
RB11	SoundEarth	2/23/2015	RB11-01-20150223	0.5	---	**1.774**	**11.0**	---	<0.3	**0.522**	**15.9**	---	**21.5**	---	**105**	<0.1	**18.3**	<0.3	<0.3	<0.3	---	**61.0**
		2/23/2015	RB11-02-20150223	0.5	---	**1.929**	**4.64**	---	<0.6	**1.13**	**26.3**	---	**49.6**	---	**65.9**	**0.150**	**44.0**	<0.3	<0.3	<0.3	---	**99.1**

Notes:

Refer to site diagram(s) for sampling locations.

See Table 3-1 for Details Regarding Riverbank Sediment Cleanup Levels and Screening Criteria.

(1) Apparent Effects Threshold Sediment Cleanup Objective, Sediment Management Standards (SMS) WAC 173-204, Benthic Criteria

(2) Apparent Effects Threshold Cleanup Screening Level, Sediment Management Standards (SMS) WAC 173-204, Benthic Criteria

(3) EPA *Record of Decision, Lower Duwamish Waterway Superfund Site,* Table 20

na Cleanup Level Not Available

dup Blind Field Duplicate

--- Not Analyzed/No Data

nd Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified

<50.0 Not Detected at Specified Laboratory Reporting Limit

<49.9 Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level

250 Bold Number(s) Indicates Contaminant Detected.

1,440 Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level

1.70 Bold Number(s) and Purple Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level, but is Not a Final COPC

TABLE 3-3
Riverbank Sediment Analyses, Polychlorinated Biphenyls (PCBs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	Sample Depth (ft)	Aroclor1016	Aroclor1221	Aroclor1232	Aroclor1242	Aroclor1248	Aroclor1254	Aroclor1260	Aroclor1262	Aroclor1268	Total PCB Aroclors (4)	Total PCB Congeners (4)
Ecology Marine Sediment AETS Sediment Cleanup Objective (1)					na	na	na	na	na	na	na	na	na	0.130	0.130
Ecology Marine Sediment AETS Cleanup Screening Level (2)					na	na	na	na	na	na	na	na	na	1.0	1.0
EPA Sediment CUL for Benthic Invertebrate (3)					na	na	na	na	na	na	na	na	na	na	na
(units in mg/kg)															
RB-1	Pacific Crest	5/29/2008	RB-1	0-1	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	---
RB-2	Pacific Crest	5/29/2008	RB-2	0-1	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	**0.14**	<0.053	<0.053	**0.14**	---
RB-3	Pacific Crest	5/29/2008	RB-3	0-1	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	---
RB-4	Pacific Crest	5/29/2008	RB-4	0-1	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	---
RB-5	Pacific Crest	5/29/2008	RB-5	0-1	<0.054	<0.054	<0.054	<0.054	<0.054	<0.054	<0.054	<0.054	<0.054	<0.054	---
RB06	SoundEarth	2/24/2015	RB06-01-20150224	0.5	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	**0.26**	<0.004	<0.004	**0.26**	---
		2/24/2015	RB06-02-20150224	0.5	<0.8	<0.8	<0.8	<0.8	**9.3**	**4.9**	**2.3**	<0.8	<0.8	**16.5**	---
RB07	SoundEarth	2/24/2015	RB07-01-20150224	0.5	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	**0.0067**	**0.0078**	<0.004	**0.0145**	---
		2/24/2015	RB07-02-20150224	0.5	<0.004	<0.004	<0.004	<0.004	<0.004	**0.09**	**0.067**	<0.004	<0.004	**0.157**	---
RB08	SoundEarth	2/24/2015	RB08-01-20150224	0.5	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	**0.038**	<0.004	**0.038**	---
		2/24/2015	RB08-02-20150224	0.5	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	**0.05**	<0.004	<0.004	**0.05**	---
RB09	SoundEarth	2/23/2015	RB09-01-20150223	0.5	<0.004	<0.004	<0.004	<0.004	<0.004	**0.11**	<0.004	**0.11**	<0.004	**0.22**	---
		2/23/2015	RB09-02-20150223	0.5	<0.4	<0.4	<0.4	**0.85**	**1.20**	**0.98**	<0.4	<0.4	<0.4	**3.03**	---

TABLE 3-3
Riverbank Sediment Analyses, Polychlorinated Biphenyls (PCBs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	Sample Depth (ft)	Aroclor1016	Aroclor1221	Aroclor1232	Aroclor1242	Aroclor1248	Aroclor1254	Aroclor1260	Aroclor1262	Aroclor1268	Total PCB Aroclors (4)	Total PCB Congeners (4)
Ecology Marine Sediment AETS Sediment Cleanup Objective (1)					na	na	na	na	na	na	na	na	na	0.130	0.130
Ecology Marine Sediment AETS Cleanup Screening Level (2)					na	na	na	na	na	na	na	na	na	1.0	1.0
EPA Sediment CUL for Benthic Invertebrate (3)					na	na	na	na	na	na	na	na	na	na	na
(units in mg/kg)															
RB10	SoundEarth	2/23/2015	RB10-01-20150223	0.5	<0.004	<0.004	<0.004	<0.004	<0.004	**0.039**	**0.037**	<0.004	<0.004	**0.076**	---
		2/23/2015	RB10-02-20150223	0.5	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	**0.017**	<0.004	<0.004	**0.017**	---
RB11	SoundEarth	2/23/2015	RB11-01-20150223	0.5	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	**0.015**	<0.004	<0.004	**0.015**	---
		2/23/2015	RB11-02-20150223	0.5	<0.004	<0.004	<0.004	<0.004	<0.004	**0.88**	**0.76**	<0.004	<0.004	**1.64**	---

Notes:

Refer to site diagram(s) for sampling locations.

See Table 3-1 for Details Regarding Riverbank Sediment Cleanup Levels and Screening Criteria.

(1) Apparent Effects Threshold Sediment Cleanup Objective, Sediment Management Standards (SMS) WAC 173-204, Benthic Criteria

(2) Apparent Effects Threshold Cleanup Screening Level, Sediment Management Standards (SMS) WAC 173-204, Benthic Criteria

(3) EPA *Record of Decision, Lower Duwamish Waterway Superfund Site,* Table 20

(4) Total PCBs Calculated by Summing the Detected PCBs

na Cleanup Level Not Available

dup Blind Field Duplicate

--- Not Analyzed/No Data

nd Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified

<50.0 Not Detected at Specified Laboratory Reporting Limit

<49.9 Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level

250 Bold Number(s) Indicates Contaminant Detected.

1,440 Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level

1.70 Bold Number(s) and Purple Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level, but is Not a Final COPC

TABLE 3-4
Riverbank Sediment Analyses, Semivolatile Organic Compounds (SVOCs) and Polycyclic Aromatic Hydrocarbons (PAHs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	Sample Depth (ft)	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	Dibenzofuran	Fluoranthene	Fluorene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	Butyl-benzylphthalate	Di-n-butylphthalate	Dimethylphthalate	bis(2-Ethylhexyl)phthalate	2,4-Dimethylphenol	Pentachlorophenol	Phenol	Benzoic Acid	Benzyl Alcohol	bis(2-Chloroethoxy)methane	Carbazole	Hexachlorobenzene
Ecology Marine Sediment AETS Sediment Cleanup Objective (1)					0.50	1.30	0.96	0.67	0.54	1.70	0.54	na	0.67	2.10	1.50	2.60	0.06	na	0.071	1.30	na	0.36	na	na	na	na	na	0.022
Ecology Marine Sediment AETS Cleanup Screening Level (2)					0.50	1.30	0.96	0.72	0.54	2.50	0.54	na	0.67	2.10	1.50	3.30	0.90	na	0.16	3.10	na	0.69	na	na	na	na	na	0.07
EPA Sediment CUL for Benthic Invertebrate (3)					na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.029	0.36	0.42	na	0.057	na	na	na
(units in mg/kg)																												
RB-1	Pacific Crest	5/29/2008	RB-1	0-1	<0.0067	<0.0067	<0.0067	**0.0110**	<0.034	**0.0230**	<0.0067	<0.0067	<0.0067	<0.0067	**0.0160**	**0.0240**	<0.034	<0.034	<0.034	**0.0410**	---	<0.17	<0.034	---	---	<0.034	<0.034	---
RB-2	Pacific Crest	5/29/2008	RB-2	0-1	**0.0073**	**0.0170**	**0.0520**	**0.130**	<0.035	**0.0190**	**0.01**	<0.0071	<0.0071	<0.0071	**0.0950**	**0.200**	**0.0750**	<0.035	<0.035	**0.0480**	---	<0.18	<0.035	---	---	<0.035	<0.035	---
RB-3	Pacific Crest	5/29/2008	RB-3	0-1	<0.0069	<0.0069	<0.0069	**0.0190**	<0.034	**0.037**	<0.0069	<0.0069	<0.0069	<0.0069	**0.0210**	**0.0380**	<0.034	<0.034	<0.034	<0.034	---	<0.17	<0.034	---	---	<0.034	<0.034	---
RB-4	Pacific Crest	5/29/2008	RB-4	0-1	<0.0071	<0.0071	**0.0180**	**0.0710**	<0.035	**0.200**	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	**0.200**	<0.035	<0.035	<0.035	**0.0560**	---	<0.18	<0.035	---	---	<0.035	<0.035	---
RB-5	Pacific Crest	5/29/2008	RB-5	0-1	**0.0140**	**0.0110**	**0.0360**	**0.0850**	<3.6	**0.400**	**0.02**	<0.0072	**0.00910**	**0.0150**	**0.200**	**0.300**	<0.036	<0.036	<0.036	**0.100**	---	<0.18	<0.036	---	---	<0.036	<0.036	---
RB06	SoundEarth	2/24/2015	RB06-01-20150224	0.5	**0.0340**	<0.03	**0.500**	**0.110**	<0.03	**0.300**	<0.03	<0.3 L	<0.03	<0.03	**0.140**	**0.310**	<0.15	<0.15	<0.015	<0.3	<0.15	<0.3	<0.03	<1.5	<0.3	<0.03	**0.037**	<0.03
		2/24/2015	RB06-02-20150224	0.5	<0.06*	<0.06*	<0.06*	**0.068***	<0.06*	**0.1***	<0.06*	<0.6* L	<0.06*	<0.06*	<0.06*	**0.1***	<0.3*	<0.3*	<0.3*	<0.6*	<0.3*	<0.6*	<0.06*	<3*	<0.6*	<0.06*	<0.06*	<0.06*
RB07	SoundEarth	2/24/2015	RB07-01-20150224	0.5	<0.003	<0.003	<0.003	<0.15	<0.003	**0.00660**	<0.003	<0.03 L	**0.00480**	<0.003	**0.00910**	<0.15	<0.75	<0.015	<0.015	<0.3	<0.015	<0.03	<0.003	<0.15	<0.03	<0.003	<0.003	<0.003
		2/24/2015	RB07-02-20150224	0.5	<0.03	<0.03	<0.03	<0.03	<0.03	**0.160**	<0.03	<0.3 L	<0.03	<0.03	**0.0700**	**0.130**	<0.15	<0.15	<0.15	<0.3	<0.15	<0.3	<0.03	<1.5	<0.3	<0.03	<0.03	<0.03
RB08	SoundEarth	2/24/2015	RB08-01-20150224	0.5	<0.03	<0.03	**0.0370**	**0.170**	<0.03	**0.260**	<0.03	<0.3 L	<0.03	<0.03	**0.0990**	**0.270**	<0.15	<0.15	<0.15	<0.3	<0.15	<0.3	<0.03	<1.5	<0.3	<0.03	<0.03	<0.03
		2/24/2015	RB08-02-20150224	0.5	<0.03	<0.03	<0.03	**0.0420**	<0.03	**0.0550**	<0.03	<0.3 L	<0.03	<0.03	**<0.03**	**0.0620**	<0.15	<0.15	<0.15	<0.3	<0.15	<0.3	<0.03	<1.5	<0.3	<0.03	<0.03	<0.03
RB09	SoundEarth	2/23/2015	RB09-01-20150223	0.5	<0.03	<0.03	**0.0540**	**0.0770**	<0.03	**0.430**	<0.03	<0.3 L	<0.03	<0.03	**0.190**	**0.400**	<0.15	<0.15	<0.15	**0.490**	<0.15	<0.3	<0.03	<1.5	<0.03	<0.03	<0.03	<0.03
		2/23/2015	RB09-02-20150223	0.5	**0.006**	<0.003	**0.0100**	<0.03	<0.003	**0.0470**	**0.0062**	<0.03 L	**0.0110**	**0.0150**	**0.0520**	**0.0680**	<0.015	<0.015	<0.015	<0.03	<0.015	<0.03	<0.003	<0.15	<0.03	<0.003	**0.0036**	<0.003
RB10	SoundEarth	2/23/2015	RB10-01-20150223	0.5	<0.15	<0.15	<0.15	**0.170**	<0.15	**0.250**	<0.15	<1.5 L	<0.15	<0.15	<0.15	**0.300**	<0.75	<0.75	<0.75	**6.70**	<0.75	<1.5	<0.015	<7.5	<1.5	<0.15	<0.15	<0.15
		2/23/2015	RB10-02-20150223	0.5	<0.03	<0.03	<0.03	**0.0600**	<0.03	**0.0830**	<0.03	<0.3 L	<0.03	<0.03	**0.0310**	**0.0940**	<0.15	<0.15	<0.15	<0.3	<0.15	<0.3	<0.03	<1.5	<0.3	<0.03	<0.03	<0.03
RB11	SoundEarth	2/23/2015	RB11-01-20150223	0.5	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.3 L	<0.03	<0.03	<0.03	<0.03	<0.15	<0.15	<0.15	**0.430**	<0.15	<0.3	<0.03	<1.5	<0.3	<0.03	**0.430**	<0.03
		2/23/2015	RB11-02-20150223	0.5	<0.03	<0.03	<0.03	**0.0840**	<0.03	**0.140**	<0.03	<0.3 L	<0.03	<0.03	**0.0330**	**0.250**	<0.15	<0.15	<0.15	<0.3	<0.15	<0.3	<0.03	<1.5	<0.3	<0.03	<0.03	<0.03

Notes:
Refer to site diagram(s) for sampling locations.
(1) See Table 3-1 for Details Regarding Riverbank Sediment Cleanup Levels and Screening Criteria.
(2) Analytes Not Listed were No Detected Above Laboratory Reporting Limits
(3) EPA *Record of Decision, Lower Duwamish Waterway Superfund Site,* Table 20
* The reporting limits were raised due to high moisture content
na Cleanup Level Not Available
dup Blind Field Duplicate
--- Not Analyzed/No Data
nd Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified
<50.0 Not Detected at Specified Laboratory Reporting Limit
<49.9 Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level
250 Bold Number(s) Indicates Contaminant Detected.
1,440 Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level
1.70 Bold Number(s) and Purple Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level, but is Not a Final COPC
L The Reported Concentration Was Generated From a Library Search

TABLE 3-5
Riverbank Sediment Analyses, Carcinogenic Polynuclear Aromatic Hydrocarbons (cPAHs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	Sample Depth (ft)	Benzo(a)anthracene	Chrysene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	Total Benzofluoranthenes	TEQ, nd RL*0.5 (4)
Ecology Marine Sediment AETS Sediment Cleanup Objective (1)					1.30	1.40	1.6	na	na	0.60	0.23	3.20	1.6
Ecology Marine Sediment AETS Cleanup Screening Level (2)					1.60	2.80	1.6	na	na	0.69	0.23	3.60	1.6
EPA Sediment CUL for Benthic Invertebrate (3)					na	na	na	na	na	na	na	na	na
(units in mg/kg)													
RB-1	Pacific Crest	5/29/2008	RB-1	0-1	**0.0088**	**0.015**	**0.099**	**0.016**	<0.0067	**0.082**	<0.0067	---	**0.0207**
RB-2	Pacific Crest	5/29/2008	RB-2	0-1	**0.085**	**0.11**	**0.096**	**0.12**	**0.095**	**0.094**	**0.03**	---	**0.140**
RB-3	Pacific Crest	5/29/2008	RB-3	0-1	**0.014**	**0.031**	**0.017**	**0.034**	**0.012**	**0.016**	<0.0069	---	**0.0249**
RB-4	Pacific Crest	5/29/2008	RB-4	0-1	**0.02**	**0.012**	**0.083**	**0.097**	**0.092**	**0.058**	**0.023**	---	**0.114**
RB-5	Pacific Crest	5/29/2008	RB-5	0-1	**0.10**	**0.16**	**0.11**	**0.12**	**0.011**	**0.075**	**0.027**	---	**0.145**
RB06	SoundEarth	2/24/2015	RB06-01-20150224	0.5	**0.15**	**0.25**	**0.2**	**0.45**	**0.14**	**0.12**	<0.03	---	**0.290**
		2/24/2015	RB06-02-20150224	0.5	<0.06	**0.077**	**0.07**	**0.13**	<0.06	<0.06	<0.06	---	**0.0960**
RB07	SoundEarth	2/24/2015	RB07-01-20150224	0.5	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	---	**0.113**
		2/24/2015	RB07-02-20150224	0.5	**0.033**	**0.074**	**0.039**	**0.096**	**0.035**	<0.03	<0.03	---	**0.0590**
RB08	SoundEarth	2/24/2015	RB08-01-20150224	0.5	**0.17**	**0.43**	**0.31**	**0.74**	**0.23**	**0.18**	**0.045**	---	**0.451**
		2/24/2015	RB08-02-20150224	0.5	**0.039**	**0.05**	**0.048**	**0.1**	**0.03**	**0.039**	<0.03	---	**0.0710**
RB09	SoundEarth	2/23/2015	RB09-01-20150223	0.5	**0.21**	**0.21**	**0.18**	**0.25**	**0.098**	**0.082**	<0.03	---	**0.248**
		2/23/2015	RB09-02-20150223	0.5	**0.031**	**0.05**	**0.033**	**0.047**	<0.03	<0.03	<0.03	---	**0.0460**
RB10	SoundEarth	2/23/2015	RB10-01-20150223	0.5	**0.16**	**0.3**	**0.34**	**0.59**	**0.18**	**0.19**	<0.15	---	**0.463**
		2/23/2015	RB10-02-20150223	0.5	**0.062**	**0.097**	**0.12**	**0.23**	**0.074**	**0.067**	<0.03	---	**0.166**

TABLE 3-5
Riverbank Sediment Analyses, Carcinogenic Polynuclear Aromatic Hydrocarbons (cPAHs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	Sample Depth (ft)	Benzo(a)anthracene	Chrysene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	Total Benzofluoranthenes	TEQ, nd RL*0.5 (4)
Ecology Marine Sediment AETS Sediment Cleanup Objective (1)					1.30	1.40	1.6	na	na	0.60	0.23	3.20	1.6
Ecology Marine Sediment AETS Cleanup Screening Level (2)					1.60	2.80	1.6	na	na	0.69	0.23	3.60	1.6
EPA Sediment CUL for Benthic Invertebrate (3)					na	na	na	na	na	na	na	na	na
(units in mg/kg)													
RB11	SoundEarth	2/23/2015	RB11-01-20150223	0.5	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	---	**0.0230**
		2/23/2015	RB11-02-20150223	0.5	**0.1**	**0.14**	**0.14**	**0.25**	**0.074**	**0.093**	<0.03	---	**0.195**

Notes:
Refer to site diagram(s) for sampling locations.
See Table 3-1 for Details Regarding Riverbank Sediment Cleanup Levels and Screening Criteria.
(1) Apparent Effects Threshold Sediment Cleanup Objective, Sediment Management Standards (SMS) WAC 173-204, Benthic Criteria
(2) Apparent Effects Threshold Cleanup Screening Level, Sediment Management Standards (SMS) WAC 173-204, Benthic Criteria
(3) EPA *Record of Decision, Lower Duwamish Waterway Superfund Site,* Table 20
(4) Analytical Results for Each Individual cPAH is Multiplied by the Toxicity Equivalency Fraction (TEF) and then added together to produce a Toxicity Equivalency Quotient (TEQ).
When Analytical Results are Less Than Reporting Limits, Half of the Reporting Limit is Used for the Calculation.
na Cleanup Level Not Available
dup Blind Field Duplicate
--- Not Analyzed/No Data
nd Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified
<50.0 Not Detected at Specified Laboratory Reporting Limit
<49.9 Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level
250 Bold Number(s) Indicates Contaminant Detected.
1,440 Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level
1.70 Bold Number(s) and Purple Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level, but is Not a Final COPC

TABLE 3-6
Riverbank Sediment Analyses, Conventional Parameters and Petroleum Hydrocarbons
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	Sample Depth (ft)	Gasoline Range Organics	Diesel Range Organics	Heavy Oil Range Organics	Total Organic Carbon	Total Solids	Clay	Silt	Sand	Gravel
Ecology Marine Sediment AETS Sediment Cleanup Objective (1)					30(a)/100(b)	2,000	2,000	na	na	na	na	na	na
Ecology Marine Sediment AETS Cleanup Screening Level (2)					30(a)/100(b)	2,000	2,000	na	na	na	na	na	na
EPA Sediment CUL for Benthic Invertebrate (3)					na	na	na	na	na	na	na	na	na
(units in mg/kg)								(%)		Grain Size (%)			
RB-1	Pacific Crest	5/29/2008	RB-1	0-1	---	<25	**84**	---	---	---	---	---	---
RB-2	Pacific Crest	5/29/2008	RB-2	0-1	---	**29**	**200**	---	---	---	---	---	---
RB-3	Pacific Crest	5/29/2008	RB-3	0-1	---	<26	**160**	---	---	---	---	---	---
RB-4	Pacific Crest	5/29/2008	RB-4	0-1	---	<27	**110**	---	---	---	---	---	---
RB-5	Pacific Crest	5/29/2008	RB-5	0-1	---	<27	**64**	---	---	---	---	---	---
RB06	SoundEarth	2/24/2015	RB06-01-20150224	0.5	---	**59 x**	**300**	---	---	---	---	---	---
		2/24/2015	RB06-02-20150224	0.5	---	**680 x**	**2,400**	---	---	---	---	---	---
RB07	SoundEarth	2/24/2015	RB07-01-20150224	0.5	---	**14 x**	**150**	---	---	---	---	---	---
		2/24/2015	RB07-02-20150224	0.5	---	**260 x**	**630**	---	---	---	---	---	---
RB08	SoundEarth	2/24/2015	RB08-01-20150224	0.5	---	**30 x**	**91**	---	---	---	---	---	---
		2/24/2015	RB08-02-20150224	0.5	---	**20 x**	**150**	---	---	---	---	---	---
RB09	SoundEarth	2/23/2015	RB09-01-20150223	0.5	---	**37 x**	**240**	---	---	---	---	---	---
		2/23/2015	RB09-02-20150223	0.5	---	**17 x**	**55**	---	---	---	---	---	---
RB10	SoundEarth	2/23/2015	RB10-01-20150223	0.5	---	**42 x**	**280**	---	---	---	---	---	---
		2/23/2015	RB10-02-20150223	0.5	---	**11 x**	**61**	---	---	---	---	---	---
RB11	SoundEarth	2/23/2015	RB11-01-20150223	0.5	---	**11 x**	**250**	---	---	---	---	---	---
		2/23/2015	RB11-02-20150223	0.5	---	**180 x**	**640**	---	---	---	---	---	---

Notes:

Refer to site diagram(s) for sampling locations.

See Table 3-1 for Details Regarding Riverbank Sediment Cleanup Levels and Screening Criteria.

(1) Apparent Effects Threshold Sediment Cleanup Objective, Sediment Management Standards (SMS) WAC 173-204, Benthic Criteria

(2) Apparent Effects Threshold Cleanup Screening Level, Sediment Management Standards (SMS) WAC 173-204, Benthic Criteria

(3) EPA *Record of Decision, Lower Duwamish Waterway Superfund Site,* Table 20

(a) Soil Cleanup Level for Gasoline with no detectable benzene in groundwater.

(b) Soil Cleanup Level for Gasoline with detectable benzene in the groundwater.

na Cleanup Level Not Available

dup Blind Field Duplicate

--- Not Analyzed/No Data

nd Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified

<50.0 Not Detected at Specified Laboratory Reporting Limit

<49.9 Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level

250 Bold Number(s) Indicates Contaminant Detected.

1,440 Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level

1.70 Bold Number(s) and Purple Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level, but is Not a Final COPC

x The sample chromatographic pattern does not resemble the fuel standard used for quantitation

TABLE 3-7
Riverbank Sediment Analyses, Volatile Organic Compounds (VOCs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	Sample Depth (ft)	PID Reading (ppm)	Acetone	Benzene	Bromobenzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	2-Chlorotoluene	1,1-Dichloroethene	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	p/4-Isopropyltoluene	Methylene Chloride	4-Methyl-2-Pentanone (MIBK)	n-Propylbenzene	Toluene	1,2,4-Trichlorobenzene	Trichlorofluoromethane (CFC-11)	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m,p-Xylene	o-Xylene	Other VOCs (4)
Ecology Marine Sediment AETS Sediment Cleanup Objective (1)					na	na	na	na	na	na	na	na	na	na	na	0.011	na	na	na	na	na	na	0.031	na	na	na	na	na	various
Ecology Marine Sediment AETS Cleanup Screening Level (2)					na	na	na	na	na	na	na	na	na	na	na	0.120	na	na	na	na	na	na	0.051	na	na	na	na	na	various
EPA Sediment CUL for Benthic Invertebrate (3)					na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	various
(units in mg/kg)																													
RB-1	Pacific Crest	5/29/2008	RB-1	0-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
RB-2	Pacific Crest	5/29/2008	RB-2	0-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
RB-3	Pacific Crest	5/29/2008	RB-3	0-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
RB-4	Pacific Crest	5/29/2008	RB-4	0-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
RB-5	Pacific Crest	5/29/2008	RB-5	0-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
RB06	SoundEarth	2/24/2015	RB06-01-20150224	0.5	---	<0.3	<0.018	<0.03	<0.03	<0.03	<0.3	<0.3	<0.03	<0.03	<0.03	<0.015	<0.03	<0.03	<0.03	<0.3	<0.03	<0.03	<0.015	<0.3	<0.03	<0.03	<0.06	<0.03	nd
		2/24/2015	RB06-02-20150224	0.5	---	<0.5	<0.03	<0.05	<0.05	<0.05	<0.5	<0.5	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.05	<0.5	<0.03	<0.03	<0.03	<0.5	<0.03	<0.03	<0.1	<0.05	nd
RB07	SoundEarth	2/24/2015	RB07-01-20150224	0.5	---	<0.3	<0.018	<0.03	<0.03	<0.03	<0.3	<0.3	<0.03	<0.03	<0.03	<0.015	<0.03	<0.03	<0.03	<0.3	<0.03	<0.03	<0.015	<0.3	<0.03	<0.03	<0.06	<0.03	nd
		2/24/2015	RB07-02-20150224	0.5	---	<0.3	<0.018	<0.03	<0.03	<0.03	<0.3	<0.3	<0.03	<0.03	<0.03	<0.015	<0.03	<0.03	<0.03	<0.3	<0.03	<0.03	<0.015	<0.3	<0.03	<0.03	<0.06	<0.03	nd
RB08	SoundEarth	2/24/2015	RB08-01-20150224	0.5	---	<0.3	<0.018	<0.03	<0.03	<0.03	<0.3	<0.3	<0.03	<0.03	<0.03	<0.015	<0.03	<0.03	<0.03	<0.3	<0.03	<0.03	<0.015	<0.3	<0.03	<0.03	<0.06	<0.03	nd
		2/24/2015	RB08-02-20150224	0.5	---	<0.3	<0.018	<0.03	<0.03	<0.03	<0.3	<0.3	<0.03	<0.03	<0.03	<0.015	<0.03	<0.03	<0.03	<0.3	<0.03	<0.03	<0.015	<0.3	<0.03	<0.03	<0.06	<0.03	nd
RB09	SoundEarth	2/23/2015	RB09-01-20150223	0.5	---	<0.3	<0.018	<0.03	<0.03	<0.03	<0.3	<0.3	<0.03	<0.03	<0.03	<0.015	<0.03	<0.03	<0.03	<0.3	<0.03	<0.03	<0.015	<0.3	<0.03	<0.03	<0.06	<0.03	nd
		2/23/2015	RB09-02-20150223	0.5	---	<0.3	<0.018	<0.03	<0.03	<0.03	<0.3	<0.3	<0.03	<0.03	<0.03	<0.015	<0.03	<0.03	<0.03	<0.3	<0.03	<0.03	<0.015	<0.3	<0.03	<0.03	<0.06	<0.03	nd
RB10	SoundEarth	2/23/2015	RB10-01-20150223	0.5	---	<0.3	<0.018	<0.03	<0.03	<0.03	<0.3	<0.3	<0.03	<0.03	<0.03	<0.015	<0.03	<0.03	<0.03	<0.3	<0.03	<0.03	<0.015	<0.3	<0.03	<0.03	<0.06	<0.03	nd
		2/23/2015	RB10-02-20150223	0.5	---	<0.3	<0.018	<0.03	<0.03	<0.03	<0.3	<0.3	<0.03	<0.03	<0.03	<0.015	<0.03	<0.03	<0.03	<0.3	<0.03	<0.03	<0.015	<0.3	<0.03	<0.03	<0.06	<0.03	nd
RB11	SoundEarth	2/23/2015	RB11-01-20150223	0.5	---	<0.3	<0.018	<0.03	<0.03	<0.03	<0.3	<0.3	<0.03	<0.03	<0.03	<0.015	<0.03	<0.03	<0.03	<0.3	<0.03	<0.03	<0.015	<0.3	<0.03	<0.03	<0.06	<0.03	nd
		2/23/2015	RB11-02-20150223	0.5	---	<0.3	<0.018	<0.03	<0.03	<0.03	<0.3	<0.3	<0.03	<0.03	<0.03	<0.015	<0.03	<0.03	<0.03	<0.3	<0.03	<0.03	<0.015	<0.3	<0.03	<0.03	<0.06	<0.03	nd

Notes:

Refer to site diagram(s) for sampling locations.

See Table 3-1 for Details Regarding Riverbank Sediment Cleanup Levels and Screening Criteria.

(1) Apparent Effects Threshold Sediment Cleanup Objective, Sediment Management Standards (SMS) WAC 173-204, Benthic Criteria

(2) Apparent Effects Threshold Cleanup Screening Level, Sediment Management Standards (SMS) WAC 173-204, Benthic Criteria

(3) EPA *Record of Decision, Lower Duwamish Waterway Superfund Site,* Table 20

(4) Analytes Not Listed were No Detected Above Laboratory Reporting Limits

na Cleanup Level Not Available

dup Blind Field Duplicate

--- Not Analyzed/No Data

nd Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified

<50.0 Not Detected at Specified Laboratory Reporting Limit

<49.9 Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level

250 Bold Number(s) Indicates Contaminant Detected.

1,440 Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level

1.70 Bold Number(s) and Purple Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level, but is Not a Final COPC

TABLE 4-1
LDW Sediment Analyses, Metals
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium (Total)	Hexavalent Chromium	Copper	Iron	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Tin	Zinc
Ecology Marine Sediment AETS Sediment Cleanup Objective (1)					na	na	57	na	na	5.1	260	na	390	na	450	0.41	na	na	6.1	na	na	410
Ecology Marine Sediment AETS Cleanup Screening Level (2)					na	na	93	na	na	6.7	270	na	390	na	530	0.59	na	na	6.1	na	na	960
EPA Sediment CUL for Benthic Invertebrate (3)					na	na	57	na	na	5.1	260	na	390	na	450	0.41	na	na	6.1	na	na	410
(units in mg/kg)																						
C6	SAIC	8/25/1999	C6	0-4	---	**4.0 J**	**10**	---	---	**0.700**	**35.1**	---	**66.3**	---	**50**	**0.150**	**27.0**	---	**1.3**	---	---	**134**
C8	SAIC	8/24/1999	C8	0-4	---	---	**7.0**	---	---	**0.800**	**34.9**	---	**59.4**	---	**45**	**0.130**	**25.8**	---	**1.0**	---	---	**124**
C-12123	SAIC	6/23/1995	C-12123	0-4	---	**4.30**	**23**	---	---	**0.64**	---	---	**82.0**	---	**91**	**0.127**	**46.0**	---	**0.25**	---	---	**170**
DR100	SAIC	8/20/1998	DR100	Surface	---	---	**8.9**	---	---	---	**38.8**	---	**41.9**	---	**44**	**0.1**	---	**3.0**	**0.45**	**0.11**	**6.0**	**86**
DR101	SAIC	8/20/1998	DR101	Surface	**19,000**	**10 J**	**11**	**73**	**0.38**	**0.47**	**25**	---	**47**	**26,000 J**	**27**	**0.18**	**21**	**5.0**	**0.43**	**0.13**	**3.0**	**85**
DR102	SAIC	8/20/1998	DR102	Surface	---	---	---	---	---	**0.47**	**25**	---	**47**	**26,000**	**26.6**	**0.18**	**21.1**	**5.0**	**0.43**	**0.13**	**3.0**	**85**
DR103	SAIC	8/18/1998	DR103	Surface	**25,100**	---	**11.9**	**113**	---	**0.5**	**27**	---	**42.1**	---	**25**	**0.25**	**19.9**	---	**0.6 J**	---	---	**88**
DR147	SAIC	9/2/1998	DR147	Surface	**17,700**	---	**14.3**	**74.0**	**0.36**	**0.42**	**36**	---	**69**	---	**46**	**0.29 J**	**15**	---	**1.0**	---	---	**110**
SMGN01	---	10/29/1992	SMGN01	---	**19,000**	**6.0 J**	<0.01	---	**0.41 J**	**0.82**	**29**	---	**67**	---	**41**	**0.24**	**24**	<0.01	**2.0 J**	<0.02	---	**140**
SMGN02	---	10/29/1992	SMGN02	---	**7,800**	**4.0 J**	<0.007	---	**0.14 J**	**0.56**	**22**	---	**26**	---	**47**	**0.13**	**9.7**	<0.007	**2.8 J**	<0.03	---	**94**
EIT081	SAIC	10/17/1997	EIT081	Surface	---	---	---	---	---	---	---	---	---	**26,700**	---	---	---	---	---	---	---	---
EST195	SAIC	10/14/1997	EST195	Surface	---	---	---	---	---	---	---	---	---	---	**44.5**	---	---	---	---	---	---	---
EST196	SAIC	10/22/1997	EST196	Surface	---	---	---	---	---	---	---	---	---	---	---	**0.13**	**25.9**	---	---	---	---	---
EST200	SAIC	10/6/1997	EST200	Surface	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**5.0**	---
LDW-SS67	SAIC	1/21/2005	LDW-SS67	Surface	**21,700**	**5.0 J**	---	---	---	---	---	---	---	---	**69.9**	**0.27**	**22.8**	**5.00**	**0.48 J**	**0.14**	---	**168**
LDW-SS69	SAIC	3/16/2005	LDW-SS69b	Surface	---	---	**12.3**	**89**	**0.47**	**0.46**	**33**	---	**71**	**31,800 J**	**46.9**	**0.25**	**21**	**7**	**0.41**	---	---	---
LDW-SS71	SAIC	3/15/2005	LDW-SS71	Surface	**21,100**	---	**12.2**	**86**	**0.46**	**0.42**	**32**	---	**69**	**30,600**	**36.8**	**0.30**	**20.2**	**7**	**0.39**	**0.11**	**4 J**	**138**
PSDDDA99	---	8/26/1999	PSDDDA99	0-4	---	---	**11.0**	---	---	**0.8**	**36.3**	---	**64.5**	---	**55**	**0.17**	**27**	---	**2**	---	---	**128**
TRI-069T	---	8/10/2006	TRI-069T	Surface	---	**0.29**	**14.6**	---	---	**0.78**	**35.4**	---	**83.6**	---	**49.6**	**0.197**	**24.9**	---	**0.37**	---	---	**160**
205	SAIC	6/23/1998	PSAMP-NOAA-205	Surface	**16,000**	**0.22**	**8.85**	**60.7**	**0.37**	**0.28**	**25.1**	---	**43.7**	**23,200**	**26.2**	**0.07**	**17.8**	---	**0.36**	**0.27**	**5J**	**85.5**
		6/21/2007	UWI2007-205	Surface	---	---	**8.3**	---	---	**0.17**	**21.9**	---	**41.9**	---	**19.3**	**0.103**	**15.6**	<0.6	**0.16**	---	**1.60**	**80.4**
		6/5/2007	UWI2013-205	Surface	---	---	**10.6**	---	---	**0.29**	**27.1**	---	**40.4**	---	**23.0**	**0.141**	**16.0**	**0.45**	**0.18**	---	**2.50**	**87.6**
LDW-SS2021	SAIC	3/24/2011	LDW-SS2021-A	0-0.3	---	---	**8.0**	---	---	<0.3	**18.9**	---	**26.5**	---	**9.0**	**0.14**	---	---	<0.4	---	---	**51**
		3/24/2011	LDW-SS2021-D	0-0.3	---	---	**9.0**	---	---	**0.3**	**23.0**	---	**31.5**	---	**13**	**0.12**	---	---	<0.4	---	---	**68**
		3/24/2011	LDW-SS2021-U	0-0.3	---	---	**9.0**	---	---	<0.3	**25.3**	---	**29.5**	---	**22**	**0.06**	---	---	<0.4	---	---	**70**

TABLE 4-1
LDW Sediment Analyses, Metals
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium (Total)	Hexavalent Chromium	Copper	Iron	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Tin	Zinc
Ecology Marine Sediment AETS Sediment Cleanup Objective (1)					na	na	57	na	na	5.1	260	na	390	na	450	0.41	na	na	6.1	na	na	410
Ecology Marine Sediment AETS Cleanup Screening Level (2)					na	na	93	na	na	6.7	270	na	390	na	530	0.59	na	na	6.1	na	na	960
EPA Sediment CUL for Benthic Invertebrate (3)					na	na	57	na	na	5.1	260	na	390	na	450	0.41	na	na	6.1	na	na	410
(units in mg/kg)																						
LDW-SS2022	SAIC	3/24/2011	LDW-SS2022-A	0-0.25	---	---	**10 J**	---	---	**0.5**	**29.0**	---	**52.6 J**	---	**20**	**0.21**	---	---	<0.6	---	---	**105 J**
		3/24/2011	LDW-SS2022-A-2	0-0.25	---	---	**20 J**	---	---	**0.5**	**31.0**	---	**54.7 J**	---	**20**	**0.13**	---	---	<0.6	---	---	**109 J**
		3/24/2011	LDW-SS2022-D	0-0.3	---	---	**10 J**	---	---	**0.5**	**31.0**	---	**52.3 J**	---	**29**	**0.14**	---	---	<0.6	---	---	**107 J**
LDW-SS2503	SAIC	3/24/2011	LDW-SS2503-A	0-0.3	---	---	**7.0 J**	---	---	**0.3**	**19.6**	---	**49.5 J**	---	**23**	**0.04**	---	---	<0.4	---	---	**167 J**

Notes:

Refer to site diagram(s) for sampling locations.

See Table 3-1 for Details Regarding Sediment Cleanup Levels and Screening Criteria Used for Comparison Purposes

(1) Apparent Effects Threshold Sediment Cleanup Objective, Sediment Management Standards (SMS) WAC 173-204, Benthic Criteria

(2) Apparent Effects Threshold Cleanup Screening Level, Sediment Management Standards (SMS) WAC 173-204, Benthic Criteria

(3) EPA *Record of Decision, Lower Duwamish Waterway Superfund Site,* Table 20

na	Cleanup Level Not Available
dup	Blind Field Duplicate
---	Not Analyzed/No Data
nd	Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified
<50.0	Not Detected at Specified Laboratory Reporting Limit
<49.9	Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level
250	Bold Number(s) Indicates Contaminant Detected.
1,440	Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level
J	Estimated Concentration, Analyte Detected Below Reporting Limit

TABLE 4-2
LDW Sediment Analyses, Polychlorinated Biphenyls (PCBs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	Sample Depth (ft)	Aroclor1016	Aroclor1221	Aroclor1232	Aroclor1242	Aroclor1248	Aroclor1254	Aroclor1260	Aroclor1262	Aroclor1268	Total PCB Aroclors (4)
Ecology Marine Sediment AETS Sediment Cleanup Objective (1)					na	na	na	na	na	na	na	na	na	0.130
Ecology Marine Sediment AETS Cleanup Screening Level (2)					na	na	na	na	na	na	na	na	na	1.0
EPA Sediment CUL for Benthic Invertebrate (3)					na	na	na	na	na	na	na	na	na	na
(units in mg/kg)														
C6	SAIC	8/25/1999	C6	0-4	<0.018	<0.037	<0.018	<0.018	<0.018	**0.200**	<0.018	---	---	**0.200**
C8	SAIC	8/24/1999	C8	0-4	<0.020	<0.040	<0.020	<0.020	<0.020	**0.240**	<0.020	---	---	**0.240**
C-12123	SAIC	6/23/1995	C-12123	0-4	<0.014	<0.056	<0.014	<0.014	<0.014	**0.150**	<0.014	---	---	**0.150**
DR100	SAIC	8/20/1998	DR100	Surface	---	---	---	---	**0.036**	**0.043**	**0.043**	---	---	**0.122**
DR101	SAIC	8/20/1998	DR101	Surface	<0.020	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	---	---	---
DR102	SAIC	8/20/1998	DR102	Surface	---	---	---	---	---	---	---	---	---	---
DR103	SAIC	8/18/1998	DR103	Surface	---	---	---	---	**0.073**	**0.12**	**0.066**	---	---	**0.259**
DR147	SAIC	9/2/1998	DR147	Surface	---	---	---	---	---	**0.064**	**0.044 J**	---	---	**0.108 J**
SMGN01	---	10/29/1992	SMGN01	---	<0.020	<0.020	<0.020	<0.020	<0.020	**0.250**	<0.020	---	---	**0.250**
SMGN02	---	10/29/1992	SMGN02	---	<0.01	<0.01	<0.01	<0.01	<0.01	**0.340**	<0.01	---	---	**0.340**
EIT081	SAIC	10/17/1997	EIT081	Surface	---	---	---	---	---	---	---	---	---	---
EST195	SAIC	10/14/1997	EST195	Surface	---	---	---	---	---	---	---	---	---	---
EST196	SAIC	10/22/1997	EST196	Surface	---	---	---	---	---	---	---	---	---	---
EST200	SAIC	10/6/1997	EST200	Surface	---	---	---	---	---	---	---	---	---	---
LDW-SS67	SAIC	1/21/2005	LDW-SS67	Surface	---	---	---	---	---	**0.091**	---	---	---	**0.091**
LDW-SS69B	SAIC	3/16/2005	LDW-SS69B	Surface	---	---	---	---	---	---	**0.086 J**	---	---	**0.086 J**
LDW-SS71	SAIC	3/15/2005	LDW-SS71	Surface	---	---	---	**0.041**	---	**0.04**	**0.157**	---	---	**0.242**
PSDDDA99	---	8/26/1999	PSDDDA99	0-4	<0.019	<0.037	<0.019	<0.019	<0.019	**0.15**	<0.019	---	---	**0.150**
TRI-069T	---	8/10/2006	TRI-069T	Surface	<0.17	<0.022	<0.033	<0.17	**0.350 J**	**0.220 J**	**0.10 J**	<0.057	<0.011	**0.66 J**

TABLE 4-2
LDW Sediment Analyses, Polychlorinated Biphenyls (PCBs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	Sample Depth (ft)	Aroclor1016	Aroclor1221	Aroclor1232	Aroclor1242	Aroclor1248	Aroclor1254	Aroclor1260	Aroclor1262	Aroclor1268	Total PCB Aroclors (4)
Ecology Marine Sediment AETS Sediment Cleanup Objective (1)					na	na	na	na	na	na	na	na	na	0.130
Ecology Marine Sediment AETS Cleanup Screening Level (2)					na	na	na	na	na	na	na	na	na	1.0
EPA Sediment CUL for Benthic Invertebrate (3)					na	na	na	na	na	na	na	na	na	na
(units in mg/kg)														
205	SAIC	6/23/1998	PSAMP-NOAA-205	Surface	<0.029	<0.029	<0.029	**0.05**	<0.058	**0.3**	**0.32**	---	---	**0.67 J**
		6/21/2007	UWI2007-205	Surface	<0.011	<0.021	<0.021	**0.017 J**	<0.036	**0.04**	**0.033**	<0.021	<0.011	**0.09 J**
		6/5/2007	UWI2013-205	Surface	<0.007	<0.007	<0.007	<0.014	**0.034 J**	**0.047**	**0.032 J**	<0.028	<0.003	**0.113 J**
LDW-SS2021	SAIC	3/24/2011	LDW-SS2021-A	0-0.3	<0.0039	<0.0039	<0.0039	<0.0039	**0.0072**	**0.0076**	<0.0039	---	---	**0.0148**
		3/24/2011	LDW-SS2021-D	0-0.3	<0.0039	<0.0039	<0.0039	<0.0039	**0.0082**	**0.0140**	**0.0064**	---	---	**0.0286**
		3/24/2011	LDW-SS2021-U	0-0.3	<0.004	<0.004	<0.004	<0.004	**0.0080**	**0.0160**	**0.012**	---	---	**0.036**
LDW-SS2022	SAIC	3/24/2011	LDW-SS2022-A	0-0.25	<0.0039	<0.0039	<0.0039	<0.0039	**0.041**	**0.044**	**0.043**	---	---	**0.13**
		3/24/2011	LDW-SS2022-A-2	0-0.25	<0.004	<0.004	<0.004	<0.004	**0.037**	**0.036**	**0.022**	---	---	**0.095**
		3/24/2011	LDW-SS2022-D	0-0.3	<0.02	<0.02	<0.02	<0.02	<0.13	**0.26**	**0.11**	---	---	**0.37**
LDW-SS2503	SAIC	---	LDW-SS2503-A	0-0.3	<3.8	<3.8	<3.8	<3.8	<5.8	**12**	**11**	---	---	**23**

Notes:

Refer to site diagram(s) for sampling locations.

See Table 3-1 for Details Regarding Sediment Cleanup Levels and Screening Criteria Used for Comparison Purposes

(1) Apparent Effects Threshold Sediment Cleanup Objective, Sediment Management Standards (SMS) WAC 173-204, Benthic Criteria

(2) Apparent Effects Threshold Cleanup Screening Level, Sediment Management Standards (SMS) WAC 173-204, Benthic Criteria

(3) EPA *Record of Decision, Lower Duwamish Waterway Superfund Site,* Table 20

(4) Total PCBs Calculated by Summing the Detected PCBs

na Cleanup Level Not Available

dup Blind Field Duplicate

--- Not Analyzed/No Data

nd Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified

<50.0 Not Detected at Specified Laboratory Reporting Limit

<49.9 Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level

250 Bold Number(s) Indicates Contaminant Detected.

1,440 Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level

J Estimated Concentration, Analyte Detected Below Reporting Limit

TABLE 4-3
LDW Sediment Analyses, Semivolatile Organic Compounds (SVOCs) and Polycyclic Aromatic Hydrocarbons (PAHs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	Sample Depth (ft)	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	Dibenzofuran	Fluoranthene	Fluorene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	Butylbenzylphthalate	Di-n-butylphthalate	Di-n-Octylphthalate	Diethylphthalate	Dimethylphthalate	bis(2-Ethylhexyl)phthalate	2,4-Dimethylphenol	2-Methylphenol	4-Methylphenol	4-Nitrophenol	Pentachlorophenol	Phenol	Benzoic Acid	Benzyl Alcohol	bis(2-Chloroethoxy)methane	Carbazole	2-Chloronaphthalene	1,2-Dichlorobenzene	2,4-Dinitrotoluene	Hexachlorobenzene	Hexachlorobutadiene	N-Nitrosodiphenylamine
Ecology Marine Sediment AETS Sediment Cleanup Objective (1)					0.50	1.30	0.96	0.67	na	1.70	0.54	na	0.67	2.10	1.50	2.60	0.06	na	6.20	0.20	na	na	na	0.063	na	na	0.36	na	na	na	na	na	na	0.035	na	0.022	0.011	na
Ecology Marine Sediment AETS Cleanup Screening Level (2)					0.50	1.30	0.96	0.72	na	2.50	0.54	na	0.67	2.10	1.50	3.30	0.90	na	6.20	0.20	na	na	na	0.063	na	na	0.69	na	na	na	na	na	na	0.05	na	0.07	0.120	na
EPA Sediment CUL for Benthic Invertebrate (3)					na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.029	na	0.67	na	0.36	0.42	na	0.057	na	na	na	na	na	na	na	na
(units in mg/kg)																																							
C6	SAIC	8/25/1999	C6	0-4	**0.020**	<0.019	**0.055**	**0.039**	<0.019	**0.400**	**0.020**	---	<0.019	<0.019	**0.160**	**0.460**	**0.033**	**0.020**	<0.019	<0.019	<0.019	---	<0.019	---	---	---	<0.097	<0.019	<0.19	<0.019	---	---	---	<0.0012	---	<0.019	<0.019	<0.019
C8	SAIC	8/24/1999	C8	0-4	<0.020	<0.020	**0.029**	**0.072**	<0.020	**0.230**	<0.020	---	<0.020	<0.020	**0.090**	**0.260**	**0.018 J**	<0.020	<0.020	<0.020	<0.020	---	<0.020	---	---	---	<0.100	**0.090**	<0.20	<0.020	---	---	---	<0.0015	---	<0.020	<0.020	<0.020
C-12123	SAIC	6/23/1995	C-12123	0-4	<0.028	<0.028	<0.028	**0.095**	<0.028	**0.210**	<0.028	---	<0.028	<0.028	**0.100**	**0.240**	**0.038**	<0.028	<0.028	<0.028	<0.028	---	<0.014	---	---	---	<0.071	<0.028	<0.140	<0.017	---	---	---	<0.0004	---	<0.017	<0.023	---
DR100	SAIC	8/20/1998	DR100	Surface	---	---	---	**0.053 J**	---	**0.094**	---	---	---	---	---	---	**0.012**	---	---	---	---	---	---	---	---	---	---	**0.070**	---	---	---	---	---	---	---	---	---	---	---
DR101	SAIC	8/20/1998	DR101	Surface	<0.020	<0.020	**0.22 J**	**0.180**	**0.030**	**0.69 J**	**0.1 J**	---	**0.030 J**	**0.020 J**	**0.75 J**	**0.77 J**	**0.020 J**	**0.02 J**	**0.020 J**	**0.020 J**	**0.020 J**	---	**0.020 J**	---	---	---	**0.100 J**	**0.020 J**	**0.20 J**	**0.050 J**	---	**0.05 J**	---	<0.0028	**0.200 J**	**0.020 J**	<0.0028	**0.040 J**
DR102	SAIC	8/20/1998	DR102	Surface	---	---	**0.037 J**	---	**0.030**	**0.69 J**	**0.01 J**	---	---	---	---	---	---	**0.02 J**	---	---	---	---	---	---	**0.062**	---	---	---	---	---	---	**0.05 J**	---	---	---	---	---	---	---
DR103	SAIC	8/18/1998	DR103	Surface	---	---	**0.040**	**0.081 J**	---	**0.065**	---	---	---	---	---	---	**0.0062**	---	---	---	---	---	---	---	**0.086**	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DR147	SAIC	9/2/1998	DR147	Surface	**0.030**	---	**0.070**	**0.190**	**0.020**	**1.2**	---	---	---	---	---	---	**0.030**	---	---	---	**0.0072**	---	---	---	---	---	---	---	---	---	---	**0.030**	---	---	---	---	---	---	**0.0072**
SMGN01	---	10/29/1992	SMGN01	---	**0.033**	**0.02 J**	**0.130**	**0.160**	<0.03	**0.800**	**0.02 J**	---	<0.05	<0.05	**0.270**	**0.510**	<0.02	**0.10 B**	<0.02	**0.06 B**	**0.022**	---	<0.03	---	---	<0.070	<0.03	<0.10	**0.510**	<0.03	<0.03	<0.03	---	<0.02	<0.01	<0.02	<0.03	**0.07 B**
SMGN02	---	10/29/1992	SMGN02	---	**0.035**	**0.01 J**	**0.100**	**0.150**	<0.02	**0.720**	**0.031**	---	<0.03	<0.03	**0.280**	**0.400**	**0.043**	**0.09 B**	<0.01	**0.04 B**	**0.01 JT**	---	<0.02	---	---	<0.050	<0.02	<0.07	**0.500**	<0.02	<0.02	**0.065**	---	<0.01	<0.009	<0.01	<0.02	**0.05 B**
EIT081	SAIC	10/17/1997	EIT081	Surface	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EST195	SAIC	10/14/1997	EST195	Surface	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EST196	SAIC	10/6/1997	EST200	Surface	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EST200	SAIC	10/22/1997	EST196	Surface	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
LDW-SS67	---	1/21/2005	LDW-SS67	Surface	**0.030**	---	**0.120**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.180**	---	---	---	---	---	---	---	---	---	---
LDW-SS69B	SAIC	3/16/2005	LDW-SS69B	Surface	---	---	---	**0.220**	**0.030**	**0.870**	**0.050**	---	---	---	---	---	**0.040**	---	---	---	**0.020**	---	---	---	---	---	---	---	---	---	---	---	**0.040**	---	---	---	---	---	---
LDW-SS71	---	3/15/2005	LDW-SS71	Surface	---	---	**0.090**	**0.190**	**0.020**	**0.700**	**0.030**	---	---	---	---	---	**0.050**	**0.020**	---	---	---	---	---	---	---	---	---	**0.130**	---	---	---	---	**0.040**	---	---	---	---	---	---
PSDDDA99	---	8/26/1999	PSDDDA99	0-4	**0.04**	<0.020	**0.05**	<0.020	**0.018 J**	**0.27**	**0.04**	---	<0.020	**0.03**	**0.17**	**0.22**	<0.020	<0.020	<0.020	<0.020	<0.020	---	<0.020	---	---	---	**0.17**	**0.019 J**	<0.020	<0.020	---	---	---	<0.0014	---	<0.020	<0.020	<0.020
TRI-069T	---	8/10/2006	TRI-069T	Surface	**0.084**	**0.108**	**0.226**	**0.172**	**0.045**	**0.963**	**0.077**	**0.017**	**0.022**	**0.029**	**0.441**	**0.708**	**0.072 J**	<0.998	<0.022	<0.114	**0.03**	---	**0.049**	---	---	---	<0.022	<0.078	**0.165 J**	**0.05**	---	**0.294 J**	---	<0.011	---	<0.011	<0.011	<0.107
205	SAIC	6/23/1998	PSAMP-NOAA-205	Surface	**0.078**	**0.054**	**0.316**	**0.589**	**0.103**	**1.79**	**0.124**	**0.041**	**0.123**	**0.104**	**0.676**	**1.760**	**0.086**	**0.029 J**	<0.026	**0.027**	**0.034**	---	<0.026	---	---	---	**0.527**	<0.300	**5.930 J**	<0.026	---	---	---	**0.0014 J**	---	**0.0045**	<0.026	<0.026
		6/21/2007	UWI2007-205	Surface	**0.016**	**0.034**	**0.081**	**0.112**	**0.023**	**0.322**	**0.026**	**0.016**	**0.029**	**0.050**	**0.146**	**0.275**	<0.092	<0.182	<0.092	<0.092	<0.092	---	**0.196**	---	---	---	<0.183	<0.295	<1.23	<0.457	---	**0.024**	---	<0.046	---	<0.005	<0.046	<0.092
		6/5/2007	UWI2013-205	Surface	**0.020**	**0.015**	**0.074**	**0.109**	**0.032**	**0.312**	**0.035**	**0.018**	**0.0296**	**0.043**	**0.153**	**0.273**	<0.038	<0.019	<0.096	<0.096	**0.018 NJ**	---	---	---	---	---	<0.096	<0.190	<0.340	---	---	**0.012**	---	<0.0096	---	<0.0096	<0.0096	<0.0096
LDW-SS2021	SAIC	3/24/2011	LDW-SS2021-A	0-0.3	<0.017	<0.017	**0.015 J**	**0.013 J**	**0.012 J**	**0.071**	**0.011 J**	**0.017**	**0.019**	**0.018**	**0.047**	**0.069**	**0.0065 J**	<0.017	<0.017	<0.017	<0.0042	**0.014 J**	<0.0042	<0.0042	**0.027**	<0.083	**0.011 J**	**0.01 J**	<0.17	**0.020**	<0.017	<0.017	<0.017	<0.0042	<0.083	<0.0042	<0.0042	<0.0042
		3/24/2011	LDW-SS2021-D	0-0.3	**0.011 J**	**0.0095 J**	**0.018**	**0.014 J**	**0.018**	**0.110**	**0.016**	**0.021**	**0.025**	**0.033**	**0.058**	**0.091**	**0.014 J**	<0.016	<0.016	<0.016	<0.004	**0.018**	<0.004	**0.0042**	**0.033**	<0.079	<0.020	**0.035**	**0.033 J**	**0.032**	<0.016	<0.016	<0.016	<0.004	<0.079	<0.004	<0.004	<0.004
		3/24/2011	LDW-SS2021-U	0-0.3	<0.016	<0.016	**0.018**	**0.02**	**0.011 J**	**0.110**	**0.0094 J**	**0.0094 J**	**0.012 J**	**0.021**	**0.045**	**0.100**	**0.019 J**	<0.016	<0.016	<0.016	<0.0039	**0.038**	<0.0039	<0.0039	**0.013 J**	<0.078	<0.020	**0.025**	**0.029 J**	**0.028**	<0.016	<0.016	<0.016	<0.0039	<0.078	<0.0039	<0.0039	<0.0039
LDW-SS2022	SAIC	3/24/2011	LDW-SS2022-A	0-0.25	**0.29**	<0.019	**0.08**	**0.058 J**	**0.24**	**0.810**	**0.320**	**0.100**	**0.046**	**0.060**	**1.10**	**0.500**	**0.029**	<0.019	<0.019	<0.019	<0.0048	**0.160**	**0.0048**	<0.0048	**0.058**	<0.096	**<0.024**	**0.060**	**0.460**	**0.420**	<0.019	**0.036**	<0.019	<0.0048	<0.096	<0.0048	<0.0048	**0.008**
		3/24/2011	LDW-SS2022-A-2	0-0.25	**0.086**	<0.019	**0.096**	**0.100 J**	**0.063**	**1.30**	**0.084**	**0.031**	**0.038**	**0.035**	**0.420**	**0.980**	**0.022**	<0.019	**0.020**	<0.019	<0.0048	**0.420**	<0.0048	<0.0048	**0.048**	<0.096	**0.0058 J**	**0.064**	**0.560**	**0.390**	<0.019	**0.058**	<0.019	<0.0048	<0.096	<0.0048	<0.0048	**0.006**
		3/24/2011	LDW-SS2022-D	0-0.3	**0.019**	<0.019	**0.190**	**0.080 J**	**0.022**	**0.68**	**0.04**	<0.019	**0.017 J**	**0.019**	**0.20**	**0.540**	**0.018**	**0.040**	<0.019	<0.019	<0.0048	**0.170**	<0.0048	<0.0048	**0.036**	<0.096	**0.0073 J**	**0.042**	**0.290**	**0.240**	<0.019	**0.058**	<0.019	<0.0048	<0.096	<0.0048	<0.0048	<0.0048
LDW-SS2503	SAIC	3/24/2011	LDW-SS2503-A	0-0.3	<0.019	<0.019	**0.01 J**	**0.086 J**	<0.019	**0.094**	<0.019	**0.012 J**	**0.012 J**	**0.022**	**0.730**	**0.500**	<0.0048	<0.019	<0.019	**0.011 J**	<0.0048	**0.025**	<0.0048	<0.0048	<0.019	<0.095	<0.024	<0.019	<0.19	<0.0073	<0.019	**0.057**	<0.019	<0.0048	<0.095	<0.0048	<0.0048	<0.0048

Notes:
Refer to site diagram(s) for sampling locations.
See Table 3-1 for Details Regarding Sediment Cleanup Levels and Screening Criteria Used for Comparison Purposes

(1) Apparent Effects Threshold Sediment Cleanup Objective, Sediment Management Standards (SMS) WAC 173-204, Benthic Criteria
(2) Apparent Effects Threshold Cleanup Screening Level, Sediment Management Standards (SMS) WAC 173-204, Benthic Criteria
(3) EPA *Record of Decision, Lower Duwamish Waterway Superfund Site,* Table 20
na Cleanup Level Not Available
dup Blind Field Duplicate
--- Not Analyzed/No Data
nd Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified
<50.0 Not Detected at Specified Laboratory Reporting Limit
<49.9 Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level
250 Bold Number(s) Indicates Contaminant Detected.
1,440 Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level
B Analyte Detected in Associated Method Blank
J Estimated Concentration, Analyte Detected Below Reporting Limit

TABLE 4-4
LDW Sediment Analyses, Carcinogenic Polynuclear Aromatic Hydrocarbons (cPAHs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	Sample Depth (ft)	Benzo(a)anthracene	Chrysene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	Total Benzofluoranthenes	TEQ, nd RL*0.5 (4)
Ecology Marine Sediment AETS Sediment Cleanup Objective (1)					1.30	1.40	1.6	na	na	0.60	0.23	3.20	1.6
Ecology Marine Sediment AETS Cleanup Screening Level (2)					1.60	2.80	3.0	na	na	0.69	0.23	3.60	1.6
EPA Sediment CUL for Benthic Invertebrate (3)					na	na	na	na	na	na	na	na	na
(units in mg/kg)													
C6	SAIC	8/25/1999	C6	0-4	**0.17**	**0.22**	**0.19**	**0.29**	**0.23**	**0.051**	<0.019	**0.52**	**0.267**
C8	SAIC	8/24/1999	C8	0-4	**0.10**	**0.15**	**0.11**	**0.14**	**0.12**	**0.081**	<0.020	**0.26**	**0.157**
C-12123	SAIC	6/23/1995	C-12123	0-4	**0.11**	**0.16**	**0.14**	**0.19**	**0.13**	**0.089**	<0.028	**0.32**	**0.195**
DR100	SAIC	8/20/1998	DR100	Surface	**0.049**	**0.073**	**0.063**	**0.1**	**0.059**	**0.038**	**0.0092**	**0.16J**	**0.089**
DR101	SAIC	8/20/1998	DR101	Surface	**0.340 J**	**0.43 J**	**0.33 J**	**0.28 J**	**0.27 J**	**0.17 J**	**0.040 J**	**0.55 J**	**0.444**
DR102	SAIC	8/20/1998	DR102	Surface	---	---	---	---	---	**0.17**	**0.004**	---	**0.017**
DR103	SAIC	8/18/1998	DR103	Surface	**0.16**	**0.035J**	**0.16**	**0.24**	**0.17**	---	---	---	**0.217**
DR147	SAIC	9/2/1998	DR147	Surface	**0.35**	**0.47**	**0.32**	**0.46**	**0.33**	**0.15**	**0.05**	---	**0.459**
SMGN01	---	10/29/1992	SMGN01	---	**0.43**	**0.61**	**0.45**	**0.80**	**0.33**	**0.24**	<0.05	**1.13**	**0.639**
SMGN02	---	10/29/1992	SMGN02	---	**0.350**	**0.43**	**0.29**	**0.44**	**0.21**	**0.21**	<0.03	**0.65**	**0.417**
EIT081	SAIC	10/17/1997	EIT081	Surface	---	---	---	---	---	**0.24**	---	---	**0.024**

TABLE 4-4
LDW Sediment Analyses, Carcinogenic Polynuclear Aromatic Hydrocarbons (cPAHs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	Sample Depth (ft)	Benzo(a)anthracene	Chrysene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	Total Benzofluoranthenes	TEQ, nd RL*0.5 (4)
Ecology Marine Sediment AETS Sediment Cleanup Objective (1)					1.30	1.40	1.6	na	na	0.60	0.23	3.20	1.6
Ecology Marine Sediment AETS Cleanup Screening Level (2)					1.60	2.80	3.0	na	na	0.69	0.23	3.60	1.6
EPA Sediment CUL for Benthic Invertebrate (3)					na	na	na	na	na	na	na	na	na
(units in mg/kg)													
EST195	SAIC	10/14/1997	EST195	Surface	---	---	---	---	---	---	---	---	---
EST196	SAIC	10/22/1997	EST196	Surface	---	---	---	---	---	---	---	---	---
EST200	SAIC	10/6/1997	EST200	Surface	---	---	---	---	---	---	---	---	---
LDW-SS67	SAIC	1/21/2005	LDW-SS67	Surface	---	---	---	---	---	---	---	---	---
LDW-SS69B	SAIC	3/16/2005	LDW-SS69B	Surface	**0.35**	**0.53**	**0.34**	**0.47**	**0.31**	**0.26**	**0.07**	**0.78**	**0.491**
LDW-SS71	SAIC	3/15/2005	LDW-SS71	Surface	**0.28**	**0.42**	**0.30**	**0.37**	**0.29**	**0.24**	**0.05**	**0.66**	**0.427**
PSDDDA99	---	8/26/1999	PSDDDA99	0-4	**0.098**	**0.13**	**0.089**	**0.086**	**0.13**	**0.026**	<0.020	**0.216**	**0.125**
TRI-069T	---	8/10/2006	TRI-069T	Surface	**0.339**	**0.55**	**0.265**	**0.42**	**0.29**	**0.156**	**0.082**	**0.71**	**0.399**
205	SAIC	6/23/1998	PSAMP-NOAA-205	Surface	**0.908**	**1.47**	**0.86**	**1.60**	**0.587**	**0.619**	**0.132**	**2.19**	**1.259**
		6/21/2007	UWI2007-205	Surface	**0.125**	**0.265**	**0.167**	**0.237**	**0.113**	**0.124**	**0.029**	**0.35**	**0.232**
		6/5/2007	UWI2013-205	Surface	**0.145**	**0.282**	**0.163**	**0.191**	**0.199**	**0.091**	**0.029**	**0.39**	**0.231**

TABLE 4-4
LDW Sediment Analyses, Carcinogenic Polynuclear Aromatic Hydrocarbons (cPAHs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	Sample Depth (ft)	Benzo(a)anthracene	Chrysene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	Total Benzofluoranthenes	TEQ, nd RL*0.5 (4)
Ecology Marine Sediment AETS Sediment Cleanup Objective (1)					1.30	1.40	1.6	na	na	0.60	0.23	3.20	1.6
Ecology Marine Sediment AETS Cleanup Screening Level (2)					1.60	2.80	3.0	na	na	0.69	0.23	3.60	1.6
EPA Sediment CUL for Benthic Invertebrate (3)					na	na	na	na	na	na	na	na	na
(units in mg/kg)													
LDW-SS2021	SAIC	3/24/2011	LDW-SS2021-A	0-0.3	**0.032**	**0.047**	**0.023**	---	---	**0.001J**	<0.0042	**0.038**	**0.027**
		3/24/2011	LDW-SS2021-D	0-0.3	**0.030**	**0.036**	**0.021**	---	---	**0.0057J**	<0.004	**0.037**	**0.025**
		3/24/2011	LDW-SS2021-U	0-0.3	**0.041**	**0.053**	**0.034**	---	---	**0.016**	**0.0042**	**0.065**	**0.041**
LDW-SS2022	SAIC	3/24/2011	LDW-SS2022-A	0-0.25	**0.19**	**0.23**	**0.10**	---	---	**0.058J**	**0.021J**	**0.27**	**0.129**
		3/24/2011	LDW-SS2022-A-2	0-0.25	**0.3**	**0.44**	**0.19**	---	---	**0.099J**	**0.038J**	**0.54**	**0.238**
		3/24/2011	LDW-SS2022-D	0-0.3	**0.2**	**0.3**	**0.13**	---	---	**0.073J**	**0.026**	**0.33**	**0.163**
LDW-SS2503	SAIC	3/24/2011	LDW-SS2503-A	0-0.3	**0.039**	**0.5J**	**0.059**	---	---	**0.053J**	**0.017J**	**0.11**	**0.075**

Notes:

Refer to site diagram(s) for sampling locations.

See Table 3-1 for Details Regarding Sediment Cleanup Levels and Screening Criteria Used for Comparison Purposes

(1) Apparent Effects Threshold Sediment Cleanup Objective, Sediment Management Standards (SMS) WAC 173-204, Benthic Criteria

(2) Apparent Effects Threshold Cleanup Screening Level, Sediment Management Standards (SMS) WAC 173-204, Benthic Criteria

(3) EPA *Record of Decision, Lower Duwamish Waterway Superfund Site,* Table 20

(4) Analytical Results for Each Individual cPAH is Multiplied by the Toxicity Equivalency Fraction (TEF) and then added together to produce a Toxicity Equivalency Quotient (TEQ). When Analytical Results are Less than Reporting Limits, Half of the Reporting Limit is Used for the Calculation.

na Cleanup Level Not Available

dup Blind Field Duplicate

--- Not Analyzed/No Data

nd Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified

<50.0 Not Detected at Specified Laboratory Reporting Limit

<49.9 Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level

250 Bold Number(s) Indicates Contaminant Detected.

1,440 Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level

J Estimated Concentration, Analyte Detected Below Reporting Limit

TABLE 4-5
LDW Sediment Analyses, Conventional Parameters and Petroleum Hydrocarbons
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	Sample Depth (ft)	Gasoline Range Organics	Diesel Range Organics	Heavy Oil Range Organics	Total Organic Carbon	Total Solids	Clay	Silt	Sand	Gravel
Ecology Marine Sediment AETS Sediment Cleanup Objective (1)					30(a)/100(b)	2,000	2,000	na	na	na	na	na	na
Ecology Marine Sediment AETS Cleanup Screening Level (2)					30(a)/100(b)	2,000	2,000	na	na	na	na	na	na
EPA Sediment CUL for Benthic Invertebrate (3)					na	na	na	na	na	na	na	na	na
(units in mg/kg)								(%)		Grain Size (%)			
C6	SAIC	8/25/1999	C6	0-4	---	---	---	---	---	---	---	---	---
C8	SAIC	8/24/1999	C8	0-4	---	---	---	---	---	---	---	---	---
C-12123	SAIC	6/23/1995	C-12123	0-4	---	---	---	1.8	---	---	---	---	---
DR100	SAIC	8/20/1998	DR100	Surface	---	---	---	---	---	---	---	---	---
DR101	SAIC	8/20/1998	DR101	Surface	---	---	---	---	---	---	---	---	---
DR102	SAIC	8/20/1998	DR102	Surface	---	---	---	---	---	---	---	---	---
DR103	SAIC	8/18/1998	DR103	Surface	---	---	---	---	---	---	---	---	---
DR147	SAIC	9/2/1998	DR147	Surface	---	---	---	---	---	---	---	---	---
SMGN01	---	10/29/1992	SMGN01	---	---	---	---	2	49	---	---	---	---
SMGN02	---	10/29/1992	SMGN02	---	---	---	---	---	72	---	0.28	---	---
EIT081	SAIC	10/17/1997	EIT081	Surface	---	---	---	---	---	---	---	---	---
EST195	SAIC	10/14/1997	EST195	Surface	---	---	---	---	---	---	---	---	---
EST196	SAIC	10/6/1997	EST200	Surface	---	---	---	---	---	---	---	---	---
EST200	SAIC	10/22/1997	EST196	Surface	---	---	---	---	---	---	---	---	---
LDW-SS67	---	1/21/2005	LDW-SS67	Surface	---	---	---	---	---	---	---	---	---
LDW-SS69B	SAIC	3/16/2005	LDW-SS69B	Surface	---	---	---	---	---	---	---	---	---
LDW-SS71	---	3/15/2005	LDW-SS71	Surface	---	---	---	---	---	---	---	---	---
PSDDDA99	---	8/26/1999	PSDDDA99	0-4	---	---	---	1.8	55.2	---	---	---	---
TRI-069T	---	8/10/2006	TRI-069T	Surface	---	---	---	2.85	45.0	17.4	53.8	28.5	0.3
205	SAIC	6/23/1998	PSAMP-NOAA-205	Surface	---	---	---	1.33	56.62	10.93	45.38	43.11	0.58
		6/21/2007	UWI2007-205	Surface	---	---	---	1.62	---	9.8	36.5	52.7	1.0
		6/5/2007	UWI2013-205	Surface	---	---	---	2.96	64.8	14.9	58.5	26.4	0.2
LDW-SS2021	SAIC	3/24/2011	LDW-SS2021-A	0-0.3	---	---	---	1.01	70.1	6.4	45.7	46.4	1.4
		3/24/2011	LDW-SS2021-D	0-0.3	---	---	---	1.76	66.6	8.3	39.6	41.9	10.3
		3/24/2011	LDW-SS2021-U	0-0.3	---	---	---	2.12	67.9	6.6	29.6	63.2	0.7
LDW-SS2022	SAIC	3/24/2011	LDW-SS2022-A	0-0.25	---	---	---	2.34	47.8	16.4	51.8	31.1	0.6
		3/24/2011	LDW-SS2022-A-2	0-0.25	---	---	---	2.07	47.1	17.2	51.4	31.0	0.5
		3/24/2011	LDW-SS2022-D	0-0.3	---	---	---	2.17	49.4	15.0	49.8	34.9	0.1
LDW-SS2503	SAIC	3/24/2011	LDW-SS2503-A	0-0.3	---	---	---	1.58	70.1	3.9	10.9	50.5	34.7

Notes:
Refer to site diagram(s) for sampling locations.
See Table 3-1 for Details Regarding Sediment Cleanup Levels and Screening Criteria Used for Comparison Purposes

(1) Apparent Effects Threshold Sediment Cleanup Objective, Sediment Management Standards (SMS) WAC 173-204, Benthic Criteria
(2) Apparent Effects Threshold Cleanup Screening Level, Sediment Management Standards (SMS) WAC 173-204, Benthic Criteria
(3) EPA *Record of Decision, Lower Duwamish Waterway Superfund Site,* Table 20
(a) Soil Cleanup Level for Gasoline with no detectable benzene in groundwater.
(b) Soil Cleanup Level for Gasoline with detectable benzene in the groundwater.
na Cleanup Level Not Available
dup Blind Field Duplicate
--- Not Analyzed/No Data
nd Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified
<50.0 Not Detected at Specified Laboratory Reporting Limit
<49.9 Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level
250 Bold Number(s) Indicates Contaminant Detected.
1,440 Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level

TABLE 4-6
LDW Sediment Analyses, Volatile Organic Compounds (VOCs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	Sample Depth (ft)	Acetone	Benzene	n-Butylbenzene	sec-Butylbenzene	Carbon Disulfide	2-Chlorotoluene	1,1-Dichloroethene	Ethylbenzene	Hexachlorobutadiene	Methylene Chloride	n-Propylbenzene	Toluene	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m,p-Xylene	o-Xylene	Total Xylenes
Ecology Marine Sediment AETS Sediment Cleanup Objective (1)					na	na	na	na	na	na	na	na	0.011	na	na	na	0.031	na	na	na	na	na
Ecology Marine Sediment AETS Cleanup Screening Level (2)					na	na	na	na	na	na	na	na	0.120	na	na	na	0.051	na	na	na	na	na
EPA Sediment CUL for Benthic Invertebrate (3)					na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
(units in mg/kg)																						
C6	SAIC	8/25/1999	C6	0-4	---	---	---	---	---	---	---	---	<0.019	---	---	---	---	---	---	---	---	<0.0012
C8	SAIC	8/24/1999	C8	0-4	---	---	---	---	---	---	---	---	<0.020	---	---	---	---	---	---	---	---	<0.0015
C-12123	SAIC	6/23/1995	C-12123	0-4	---	---	---	---	---	---	---	---	<0.023	---	---	---	---	---	---	---	---	<0.004
DR100	SAIC	8/20/1998	DR100	Surface	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DR101	SAIC	8/20/1998	DR101	Surface	**0.019 J**	<0.0028	<0.0028	<0.0028	<0.0055	<0.0028	<0.0028	<0.0028	<0.0028	<0.0055	<0.0028	<0.0028	<0.0055	<0.0028	<0.0028	<0.0055	<0.0028	---
DR102	SAIC	8/20/1998	DR102	Surface	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DR103	SAIC	8/18/1998	DR103	Surface	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DR147	SAIC	9/2/1998	DR147	Surface	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SMGN01	---	10/29/1992	SMGN01	---	<0.05	<0.01	---	---	<0.01	---	---	<0.01	<0.03	<0.05	---	<0.01	<0.01	---	---	---	---	<0.01
SMGN02	---	10/29/1992	SMGN02	---	<0.03	<0.007	---	---	<0.007	---	---	<0.007	<0.02	<0.03	---	<0.007	<0.02	---	---	---	---	<0.007
EIT081	SAIC	10/17/1997	EIT081	Surface	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EST195	SAIC	10/14/1997	EST195	Surface	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EST196	SAIC	10/22/1997	EST196	Surface	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EST200	SAIC	10/6/1997	EST200	Surface	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
LDW-SS67	---	1/21/2005	LDW-SS67	Surface	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
LDW-SS69B	SAIC	3/16/2005	LDW-SS69B	Surface	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
LDW-SS71	---	3/15/2005	LDW-SS71	Surface	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PSDDDA99	---	8/26/1999	PSDDDA99	0-4	---	---	---	---	---	---	---	---	<0.020	---	---	---	<0.0071	---	---	<0.0014	<0.0014	<0.0014
TRI-069T	---	8/10/2006	TRI-069T	Surface	---	---	---	---	---	---	---	---	<0.0011	---	---	---	<0.0011	---	---	---	---	---
205	SAIC	6/23/1998	PSAMP-NOAA-205	Surface	---	---	---	---	---	---	---	---	<0.026	---	---	---	<0.026	---	---	---	---	---
		6/21/2007	UWI2007-205	Surface	---	---	---	---	---	---	---	---	<0.046	---	---	---	<0.046	---	---	---	---	---
		6/5/2007	UWI2013-205	Surface	---	---	---	---	---	---	---	---	<0.0096	---	---	---	<0.0096	---	---	---	---	---

TABLE 4-6
LDW Sediment Analyses, Volatile Organic Compounds (VOCs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	Sample Depth (ft)	Acetone	Benzene	n-Butylbenzene	sec-Butylbenzene	Carbon Disulfide	2-Chlorotoluene	1,1-Dichloroethene	Ethylbenzene	Hexachlorobutadiene	Methylene Chloride	n-Propylbenzene	Toluene	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m,p-Xylene	o-Xylene	Total Xylenes
Ecology Marine Sediment AETS Sediment Cleanup Objective (1)					na	na	na	na	na	na	na	na	0.011	na	na	na	0.031	na	na	na	na	na
Ecology Marine Sediment AETS Cleanup Screening Level (2)					na	na	na	na	na	na	na	na	0.120	na	na	na	0.051	na	na	na	na	na
EPA Sediment CUL for Benthic Invertebrate (3)					na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
(units in mg/kg)																						
LDW-SS2021	SAIC	3/24/2011	LDW-SS2021-A	0-0.3	---	---	---	---	---	---	---	---	<0.42	---	---	---	<4.2	---	---	---	---	---
		3/24/2011	LDW-SS2021-D	0-0.3	---	---	---	---	---	---	---	---	<0.23	---	---	---	<0.23	---	---	---	---	---
		3/24/2011	LDW-SS2021-U	0-0.3	---	---	---	---	---	---	---	---	<0.18	---	---	---	<0.18	---	---	---	---	---
LDW-SS2022	SAIC	3/24/2011	LDW-SS2022-A	0-0.25	---	---	---	---	---	---	---	---	<0.21	---	---	---	<0.21	---	---	---	---	---
		3/24/2011	LDW-SS2022-A-2	0-0.25	---	---	---	---	---	---	---	---	<0.23	---	---	---	<0.23	---	---	---	---	---
		3/24/2011	LDW-SS2022-D	0-0.3	---	---	---	---	---	---	---	---	<0.22	---	---	---	<0.22	---	---	---	---	---
LDW-SS2503	SAIC	---	LDW-SS2503-A	0-0.3	---	---	---	---	---	---	---	---	<0.3	---	---	---	<0.3	---	---	---	---	---

Notes:
Refer to site diagram(s) for sampling locations.
See Table 3-1 for Details Regarding Sediment Cleanup Levels and Screening Criteria Used for Comparison Purposes

(1) Apparent Effects Threshold Sediment Cleanup Objective, Sediment Management Standards (SMS) WAC 173-204, Benthic Criteria
(2) Apparent Effects Threshold Cleanup Screening Level, Sediment Management Standards (SMS) WAC 173-204, Benthic Criteria
(3) EPA *Record of Decision, Lower Duwamish Waterway Superfund Site,* Table 20
na Cleanup Level Not Available
dup Blind Field Duplicate
--- Not Analyzed/No Data
nd Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified
<50.0 Not Detected at Specified Laboratory Reporting Limit
<49.9 Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level
250 Bold Number(s) Indicates Contaminant Detected.
1,440 Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level
J Estimated Concentration, Analyte Detected Below Reporting Limit

TABLE 4-7
LDW Sediment Analyses, Dioxins and Furans (1)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample Date	Sample Name	Sample By	Sample Depth (ft)	2,3,7,8-TCDD	1,2,3,7,8-PeCDD	1,2,3,4,7,8-HxCDD	1,2,3,6,7,8-HxCDD	1,2,3,7,8,9-HxCDD	1,2,3,4,6,7,8-HpCDD	OCDD	2,3,7,8-TCDF	1,2,3,7,8-PeCDF	2,3,4,7,8-PeCDF	1,2,3,4,7,8-HxCDF	1,2,3,6,7,8-HxCDF	1,2,3,7,8,9-HxCDF	2,3,4,6,7,8-HxCDF	1,2,3,4,6,7,8-HpCDF	1,2,3,4,7,8,9-HpCDF	OCDF	Total 2,3,7,8-TCDD Equivalence TEQ, nd SDL*0.5	Total TCDD	Total TCDF	Total PeCDD	Total PeCDF	Total HxCDD	Total HxCDF	Total HpCDD	Total HpCDF
Ecology Marine Sediment AETS Sediment Cleanup Objective (1)					na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Ecology Marine Sediment AETS Cleanup Screening Level (2)					na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EPA Sediment CUL for Benthic Invertebrate (3)					na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
(units in ng/kg)																														
C6	SAIC	8/25/1999	C6	0-4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
C8	SAIC	8/24/1999	C8	0-4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
C-12123	SAIC	6/23/1995	C-12123	0-4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DR100	SAIC	8/20/1998	DR100	Surface	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DR101	SAIC	8/20/1998	DR101	Surface	<0.39	<0.62	<3.4	<1.1	<2.2	**66**	**620**	<1.1	<0.56	<1.1	<1.8	<0.56	<0.45	<0.5	**9.6**	<1.2	**28**	**0.82 JT**	---	---	---	---	---	---	---	---	---
DR102	SAIC	8/20/1998	DR102	Surface	---	---	---	---	---	---	**620**	---	---	---	---	---	---	---	---	---	**28**	---	**5.3**	**24**	---	**16**	**18**	**15**	**180**	**41**
DR103	SAIC	8/18/1998	DR103	Surface	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DR147	SAIC	9/2/1998	DR147	Surface	---	---	---	---	---	---	**296**	---	---	---	---	---	---	---	---	---	**185**	---	---	---	---	---	---	---	---	---
SMGN01	---	10/29/1992	SMGN01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SMGN02	---	10/29/1992	SMGN02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EIT081	SAIC	10/17/1997	EIT081	Surface	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EST195	SAIC	10/14/1997	EST195	Surface	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EST196	SAIC	10/22/1997	EST196	Surface	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EST200	SAIC	10/6/1997	EST200	Surface	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
LDW-3233	Fishtion	8/3/2004	LDW-3233	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
LDW-3293	Fishtion	8/3/2004	LDW-3293	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
LDW-8321	Fishtion	8/4/2004	LDW-8321	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
LDW-8625	Fishtion	8/3/2004	LDW-8625	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
LDW-SS67	SAIC	1/21/2005	LDW-SS67	Surface	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
LDW-SS69b	SAIC	3/16/2005	LDW-SS69b	Surface	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
LDW-SS71	SAIC	3/15/2005	LDW-SS71	Surface	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PSDDDA99	---	8/26/1999	PSDDDA99	0-4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TRI-069T	---	8/10/2006	TRI-069T	Surface	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
205	SAIC	6/23/1998	PSAMP-NOAA-205	Surface	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		6/21/2007	UWI2007-205	Surface	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		6/5/2007	UWI2013-205	Surface	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

TABLE 4-7
LDW Sediment Analyses, Dioxins and Furans (1)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample Date	Sample Name	Sample By	Sample Depth (ft)	2,3,7,8-TCDD	1,2,3,7,8-PeCDD	1,2,3,4,7,8-HxCDD	1,2,3,6,7,8-HxCDD	1,2,3,7,8,9-HxCDD	1,2,3,4,6,7,8-HpCDD	OCDD	2,3,7,8-TCDF	1,2,3,7,8-PeCDF	2,3,4,7,8-PeCDF	1,2,3,4,7,8-HxCDF	1,2,3,6,7,8-HxCDF	1,2,3,7,8,9-HxCDF	2,3,4,6,7,8-HxCDF	1,2,3,4,6,7,8-HpCDF	1,2,3,4,7,8,9-HpCDF	OCDF	Total 2,3,7,8-TCDD Equivalence TEQ, nd SDL*0.5	Total TCDD	Total TCDF	Total PeCDD	Total PeCDF	Total HxCDD	Total HxCDF	Total HpCDD	Total HpCDF
LDW-SS2021	SAIC	3/24/2011	LDW-SS2021-A	0-0.3	<0.018	<0.226	**0.323J**	**1.1J**	**1.01J**	**30.6**	**273**	0.16J	<0.087	0.181J	**0.379 J**	**0.173 J**	<0.0473	**0.163J**	**3.05 J**	**0.257 J**	**8.34 J**	---	**1.17 J**	**4.37 J**	**1.08 J**	**2.9 J**	**14.8 J**	**5.83 J**	**159 J**	**9.94 J**
		3/24/2011	LDW-SS2021-D	0-0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		3/24/2011	LDW-SS2021-U	0-0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
LDW-SS2022	SAIC	3/24/2011	LDW-SS2022-A	0-0.25	**0.357 J**	**0.866 J**	**1.53 J**	**5.51**	**4.52 J**	**195**	**1,630**	**0.62 J**	<0.465	**1.13 J**	**3.68 J**	**1.09 J**	<0.077	**0.926 J**	**25.4**	<2.15	**76.1**	---	**3.65 J**	**21.7 J**	**6.78 J**	**17.2 J**	**45.4 J**	**36.6 J**	**480 J**	**86 J**
		3/24/2011	LDW-SS2022-A-2	0-0.25	<0.306	**0.926 J**	**1.71 J**	**5.13 J**	**4.2 J**	**122**	**1,210**	**0.61 J**	<0.426	<1.02	**3.09 J**	**1.19 J**	<0.085	**0.979 J**	**23.9**	**1.9 J**	**67.3**	---	**3.63 J**	**20.5 J**	**5.72 J**	**16.1 J**	**43.4 J**	**35.5 J**	**335 J**	**78.1 J**
		3/24/2011	LDW-SS2022-D	0-0.3	<0.401	**1.01 J**	**1.62 J**	**5.99 J**	**4.94 J**	**145**	**1,270**	**0.676 J**	**0.486 J**	**1.19 J**	**3.22 J**	**1.25 J**	**0.103 J**	**0.962 J**	**27.3**	**1.97 J**	**78.7**	---	**3.69 J**	**24.2 J**	**7.6 J**	**20.7 J**	**52 J**	**39.1 J**	**392 J**	**90.6 J**
LDW-SS2503	SAIC	3/24/2011	LDW-SS2503-A	0-0.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Notes:

Refer to site diagram(s) for sampling locations.

See Table 3-1 for Details Regarding Sediment Cleanup Levels and Screening Criteria Used for Comparison Purposes

(1) Apparent Effects Threshold Sediment Cleanup Objective, Sediment Management Standards (SMS) WAC 173-204, Benthic Criteria

(2) Apparent Effects Threshold Cleanup Screening Level, Sediment Management Standards (SMS) WAC 173-204, Benthic Criteria

(3) EPA *Record of Decision, Lower Duwamish Waterway Superfund Site,* Table 20

na Cleanup Level Not Available

dup Blind Field Duplicate

--- Not Analyzed/No Data

nd Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified

<50.0 Not Detected at Specified Laboratory Reporting Limit

<49.9 Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level

250 Bold Number(s) Indicates Contaminant Detected.

1,440 Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level

J Estimated Concentration, Analyte Detected Below Reporting Limit

TABLE 5-1
Catch-Basin Sediment Screening Levels and Contaminants of Potential Concern
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Chemical	CAS No.	FAI Method	Lower Screening Level Appendix D, LDW Guidance for Stormwater Source Control Evaluation at Upland Sites	Upper Screening Level Appendix D, LDW Guidance for Stormwater Source Control Evaluation at Upland Sites	DMC Catch Basin Sediment Screening Level (Upper Level)	MDL Used as Reporting Limit (1)	No. of Analyses	Number of Detections
Chemical	**CAS**		**mg/kg dry weight**	**mg/kg dry weight**	**mg/kg dry weight**			
Metals								
Antimony	7440-36-0	EPA 200.8	na	na	na		8	8
Arsenic	7440-38-2	EPA 200.8/SW 6010B	5.70E+01	9.30E+01	9.30E+01		12	10
Barium	7440-39-3	EPA 200.8	na	na	na		2	2
Beryllium	7440-41-7	EPA 200.8	na	na	na		9	3
Cadmium	7440-43-9	EPA 200.8	5.10E+00	6.70E+00	6.70E+00		12	11
Chromium(III)	7440-47-3	EPA 200.8/SW 6010B	2.60E+02	2.70E+02	2.70E+02		12	12
Chromium(VI)	18540-29-9	SW 6010B/SW 7196A	na	na	na		3	0
Copper	7440-50-8	EPA 200.8/SW 6010B	3.90E+02	3.90E+02	3.90E+02		12	12
Lead	7439-92-1	EPA 200.8/SW 6010B	4.50E+02	5.30E+02	5.30E+02		12	12
Mercury, organic	7439-97-6	EPA 1631/SW 7471A	4.10E-01	5.90E-01	5.90E-01		12	2
Nickel	7440-02-0	EPA 200.8/SW 6010B	na	na	na		12	12
Selenium	7782-49-2	EPA 200.8	na	na	na		9	9
Silver	7440-22-4	EPA 200.8	6.10E+00	6.10E+00	6.10E+00		9	7
Thallium	7440-28-0	EPA 200.8	na	na	na		9	0
Zinc	7440-66-6	EPA 200.8/SW 6010B	4.10E+02	9.60E+02	960		12	2
PCBs								
Aroclor 1016	na	EPA 8082	na	na	na	X	12	0
Aroclor 1221	na	EPA 8082	na	na	na	X	12	0
Aroclor 1232	na	EPA 8082	na	na	na	X	12	0
Aroclor 1242	na	EPA 8082	na	na	na	X	12	0
Aroclor 1248	na	EPA 8082	na	na	na	X	12	0
Aroclor 1254	na	EPA 8082	na	na	na	X	12	1
Aroclor 1260	na	EPA 8082	na	na	na	X	12	3
Aroclor 1262	na	EPA 8082	na	na	na	X	10	0
Aroclor 1268	na	EPA 8082	na	na	na	X	10	0
Total PCB Aroclors	1336-36-3	EPA 8082	1.30E-01	1.00E+00	1.00E+00	X	12	3
Total PCB Congeners	1336-36-3	EPA 1668C	1.30E-01	1.00E+00	1.00E+00		2	2
VOCs								
1,1,1,2-Tetrachloroethane	630-20-6	EPA 8260C	na	na	na		9	0
1,1,1-Trichloroethane	71-55-6	EPA 8260C	na	na	na		9	0
1,1,2,2-Tetrachloroethane	79-34-5	EPA 8260C	na	na	na		9	0
1,1,2-Trichloroethane	79-00-5	EPA 8260C	na	na	na		9	0
1,1-Dichloroethane	75-34-3	EPA 8260C	na	na	na		9	1
1,1-Dichloroethylene	75-35-4	EPA 8260C	na	na	na		9	0
1,1-Dichloropropene	563-58-6	EPA 8260C	na	na	na		9	0
1,2,3-Trichlorobenzene	87-61-6	EPA 8260C	na	na	na		9	0
1,2,3-Trichloropropane	96-18-4	EPA 8260C	na	na	na		9	0
1,2,4-Trichlorobenzene	120-82-1	EPA 8260C	3.10E-02	5.10E-02	5.10E-02		9	0
1,2,4-Trimethylbenzene	95-63-6	EPA 8260C	na	na	na		12	5
1,2-Dibromo-3-chloropropane	96-12-8	EPA 8260C	na	na	na		9	0
1,2-Dichloroethane (EDC)	107-06-2	EPA 8260C	na	na	na		9	0
1,2-Dichloropropane	78-87-5	EPA 8260C	na	na	na		9	0
1,3,5-Trimethylbenzene	108-67-8	EPA 8260C	na	na	na		12	5
1,3-Dichloropropane	142-28-9	EPA 8260C	na	na	na		9	0
2,2-Dichloropropane	594-20-7	EPA 8260C	na	na	na		9	0
2-Chlorotoluene	95-49-8	EPA 8260C	na	na	na		9	1
2-Hexanone	591-78-6	EPA 8260C	na	na	na		9	0
4-Chlorotoluene	106-43-4	EPA 8260C	na	na	na		9	0
4-Isopropyltoluene	99-87-6	EPA 8260C	na	na	na		12	6
Acetone	67-64-1	EPA 8260C	na	na	na		10	4
Benzene	71-43-2	EPA 8260C	na	na	na		9	1
Bromobenzene	108-86-1	EPA 8260C	na	na	na		9	0
Bromoform	75-25-2	EPA 8260C	na	na	na		9	0
Bromomethane	74-83-9	EPA 8260C	na	na	na		9	0
Carbon disulfide	75-15-0	EPA 8260C	na	na	na		10	6

TABLE 5-1
Catch-Basin Sediment Screening Levels and Contaminants of Potential Concern
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Chemical	Highest Recorded Catch-Basin Sediment Concentation at DMC (mg/kg dry weight)	Location with Highest Concentration	Detections Above CUL	Number of Different Locations with CUL Exceedance	Exceedance Factor for Highest Concentrations	Preliminary Catch-Basin Sediment COPC List Based on Catch-Basin Sediment Upper Screening Level	Final Catch-Basin Sediment COPC List If number of locations = 2+ and Exceedance Factor > 2, **OR** Exceedance Factor >10.
Chemical							
Metals							
Antimony	5.41E+00	CB03	0	0			
Arsenic	1.90E+01	CB04	0	0			
Barium	1.30E+02	CB01	0	0			
Beryllium	3.20E-01	SWC1 & CB08	0	0			
Cadmium	4.87E+00	CB03	0	0			
Chromium(III)	1.78E+02	CB03	0	0			
Chromium(VI)	---	---	0	0			
Copper	2.48E+02	CB12	0	0			
Lead	3.13E+02	CB03	0	0			
Mercury, organic	1.40E-01	SWC1	0	0			
Nickel	8.62E+01	CB12	0	0			
Selenium	2.59E+00	CB01	0	0			
Silver	4.75E-01	CB12	0	0			
Thallium	---	---	0	0			
Zinc	1.45E+03	CB12	**2**	**2**	**1**	Zinc	
PCBs							
Aroclor 1016	---	---	0	0			
Aroclor 1221	---	---	0	0			
Aroclor 1232	---	---	0	0			
Aroclor 1242	---	---	0	0			
Aroclor 1248	---	---	0	0			
Aroclor 1254	3.50E-01	CB08	0	0			
Aroclor 1260	1.10E-01	SWC1	0	0			
Aroclor 1262	---	---	0	0			
Aroclor 1268	---	---	0	0			
Total PCB Aroclors	6.80E-01	CB08	0	0			
Total PCB Congeners	4.26E-01	SWC1	0	0			
VOCs							
1,1,1,2-Tetrachloroethane	---	---	0	0			
1,1,1-Trichloroethane	---	---	0	0			
1,1,2,2-Tetrachloroethane	---	---	0	0			
1,1,2-Trichloroethane	---	---	0	0			
1,1-Dichloroethane	9.90E-04	SWC1	0	0			
1,1-Dichloroethylene	---	---	0	0			
1,1-Dichloropropene	---	---	0	0			
1,2,3-Trichlorobenzene	---	---	0	0			
1,2,3-Trichloropropane	---	---	0	0			
1,2,4-Trichlorobenzene	---	---	0	0			
1,2,4-Trimethylbenzene	1.90E+00	CB01	0	0			
1,2-Dibromo-3-chloropropane	---	---	0	0			
1,2-Dichloroethane (EDC)	---	---	0	0			
1,2-Dichloropropane	---	---	0	0			
1,3,5-Trimethylbenzene	7.08E-01	CB01	0	0			
1,3-Dichloropropane	---	---	0	0			
2,2-Dichloropropane	---	---	0	0			
2-Chlorotoluene	4.31E-01	CB12	0	0			
2-Hexanone	---	---	0	0			
4-Chlorotoluene	---	---	0	0			
4-Isopropyltoluene	2.60E-01	CB01	0	0			
Acetone	1.20E-01	CB04	0	0			
Benzene	6.20E-04	SWC1	0	0			
Bromobenzene	---	---	0	0			
Bromoform	---	---	0	0			
Bromomethane	---	---	0	0			
Carbon disulfide	1.31E-01	CB03	0	0			

TABLE 5-1
Catch-Basin Sediment Screening Levels and Contaminants of Potential Concern
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6365 First Avenue South
Seattle, Washington

Chemical	CAS No.	FAI Method	Lower Screening Level Appendix D, LDW Guidance for Stormwater Source Control Evaluation at Upland Sites	Upper Screening Level Appendix D, LDW Guidance for Stormwater Source Control Evaluation at Upland Sites	DMC Catch Basin Sediment Screening Level (Upper Level)	MDL Used as Reporting Limit (1)	No. of Analyses	Number of Detections
Chemical	**CAS**		**mg/kg dry weight**	**mg/kg dry weight**	**mg/kg dry weight**			
VOCs								
Carbon tetrachloride	56-23-5	EPA 8260C	na	na	na		9	0
Chlorobenzene	108-90-7	EPA 8260C	na	na	na		9	0
Chloroethane (ethyl chloride)	75-00-3	EPA 8260C	na	na	na		9	0
Chloroform	67-66-3	EPA 8260C	na	na	na		9	0
Chloromethane (Methylene chloride)	74-87-3	EPA 8260C	na	na	na		9	0
cis-1,2-Dichloroethylene	156-59-2	EPA 8260C	na	na	na		9	0
cis-1,3-Dichloropropene	10061-01-5	EPA 8260C	na	na	na		9	0
Dibromochloromethane (chlorodibromomethane)	124-48-1	EPA 8260C	na	na	na		9	0
Dibromomethane (methylene bromide)	74-95-3	EPA 8260C	na	na	na		9	0
Dichlorobromomethane	75-27-4	EPA 8260C	na	na	na		9	0
Dichlorodifluoromethane (CFC-12)	75-71-8	EPA 8260C	na	na	na		9	0
Ethylbenzene	100-41-4	EPA 8260C	na	na	na		9	2
Ethylene dibromide (EDB)	106-93-4	EPA 8260C	na	na	na		9	0
Isopropylbenzene (Cumene)	98-82-8	EPA 8260C	na	na	na		9	1
m,p-Xylene	179601-23-1	EPA 8260C	na	na	na		12	9
Methyl ethyl ketone (2-Butanone, MEK)	78-93-3	EPA 8260C	na	na	na		10	4
Methyl isobutyl ketone (MIBK)	108-10-1	EPA 8260C	na	na	na		7	2
Methyl tert-butyl ether (MTBE)	1634-04-4	EPA 8260C	na	na	na		9	0
Methylene chloride	75-09-2	EPA 8260C	na	na	na		9	2
n-Butylbenzene	104-51-8	EPA 8260C	na	na	na		9	1
n-Propylbenzene	103-65-1	EPA 8260C	na	na	na		9	2
o-Xylene	95-47-6	EPA 8260C	na	na	na		12	7
Pentachloroethane	na	EPA 8260C	na	na	na		0	---
sec-Butylbenzene	135-98-8	EPA 8260C	na	na	na		7	1
Styrene	100-42-5	EPA 8260C	na	na	na		9	0
tert-Butylbenzene	98-06-6	EPA 8260C	na	na	na		9	0
Tetrachloroethylene (PCE)	127-18-4	EPA 8260C	na	na	na		9	0
Toluene	108-88-3	EPA 8260C	na	na	na		9	2
Total xylenes	1330-20-7	EPA 8260C	na	na	na		12	9
trans-1,2-Dichloroethylene	156-60-5	EPA 8260C	na	na	na		9	0
trans-1,3-Dichloropropene	10061-02-6	EPA 8260C	na	na	na		9	0
Trichloroethylene (TCE)	79-01-6	EPA 8260C	na	na	na		9	0
Trichlorofluoroethane	27154-33-2	EPA 8260C	na	na	na		0	---
Vinyl acetate	108-05-4	EPA 8260C	na	na	na		0	---
Vinyl chloride	75-01-4	EPA 8260C	na	na	na		9	0
SVOCs								
1,2-Dichlorobenzene	95-50-1	EPA 8270D	3.50E-02	5.00E-02	5.00E-02	X	9	0
1,3-Dichlorobenzene	541-73-1	EPA 8270D	na	na	na	X	9	0
1,4-Dichlorobenzene	106-46-7	EPA 8270D	1.10E-01	1.20E-01	1.20E-01	X	9	0
1,4-Dioxane	123-91-1	EPA 8270D	na	na	na	X	2	0
2,4,5-Trichlorophenol	na	EPA 8270D	na	na	na		0	---
2,4,6-Trichlorophenol	na	EPA 8270D	na	na	na		0	---
2,4-Dichlorophenol	120-83-2	EPA 8270D	na	na	na		0	---
2,4-Dimethylphenol	105-67-9	EPA 8270D	2.90E-02	2.90E-02	2.90E-02	X	4	0
2,4-Dinitrophenol	51-28-5	EPA 8270D	na	na	na		0	---
2,4-Dinitrotoluene	121-14-2	EPA 8270D	na	na	na	X	4	1
2,6-Dinitrotoluene	606-20-2	EPA 8270D	na	na	na		0	---
2-Chloronaphthalene	91-58-7	EPA 8270D	na	na	na	X	4	0
2-Chlorophenol	95-57-8	EPA 8270D	na	na	na		0	---
2-Methylphenol (o-Cresol)	95-48-7	EPA 8270D	6.30E-02	6.30E-02	6.30E-02	X	4	1
2-Nitroaniline	88-74-4	EPA 8270D	na	na	na		0	---
2-Nitrophenol	88-75-5	EPA 8270D	na	na	na		0	---
4,6-Dinitro-2-methylphenol	534-52-1	EPA 8270D	na	na	na		0	---
4-Bromophenyl phenyl ether	101-55-3	EPA 8270D	na	na	na		0	---
4-Chloro-3-methylphenol	59-50-7	EPA 8270D	na	na	na		0	---
4-Chloroaniline	106-47-8	EPA 8270D	na	na	na		0	---
4-Chlorophenyl phenyl ether	7005-72-3	EPA 8270D	na	na	na		0	---

TABLE 5-1
Catch-Basin Sediment Screening Levels and Contaminants of Potential Concern
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Chemical	Highest Recorded Catch-Basin Sediment Concentation at DMC (mg/kg dry weight)	Location with Highest Concentration	Detections Above CUL	Number of Different Locations with CUL Exceedance	Exceedance Factor for Highest Concentrations	Preliminary Catch-Basin Sediment COPC List Based on Catch-Basin Sediment Upper Screening Level	Final Catch-Basin Sediment COPC List If number of locations = 2+ and Exceedance Factor > 2, **OR** Exceedance Factor >10.
Chemical							
VOCs							
Carbon tetrachloride	---	---	0	0			
Chlorobenzene	---	---	0	0			
Chloroethane (ethyl chloride)	---	---	0	0			
Chloroform	---	---	0	0			
Chloromethane (Methylene chloride)	---	---	0	0			
cis-1,2-Dichloroethylene	---	---	0	0			
cis-1,3-Dichloropropene	---	---	0	0			
Dibromochloromethane (chlorodibromomethane)	---	---	0	0			
Dibromomethane (methylene bromide)	---	---	0	0			
Dichlorobromomethane	---	---	0	0			
Dichlorodifluoromethane (CFC-12)	---	---	0	0			
Ethylbenzene	8.90E-02	CB12	0	0			
Ethylene dibromide (EDB)	---	---	0	0			
Isopropylbenzene (Cumene)	1.10E-03	SWC1	0	0			
m,p-Xylene	4.89E-01	CB03	0	0			
Methyl ethyl ketone (2-Butanone, MEK)	3.30E-02	CB04	0	0			
Methyl isobutyl ketone (MIBK)	2.60E-03	CB08	0	0			
Methyl tert-butyl ether (MTBE)	---	---	0	0			
Methylene chloride	1.09E-01	CB03	0	0			
n-Butylbenzene	2.60E-03	SWC1	0	0			
n-Propylbenzene	2.77E-01	CB01	0	0			
o-Xylene	2.98E-01	CB03	0	0			
Pentachloroethane	---	---	---	---			
sec-Butylbenzene	2.40E-01	CB01	0	0			
Styrene	---	---	0	0			
tert-Butylbenzene	---	---	0	0			
Tetrachloroethylene (PCE)	---	---	0	0			
Toluene	3.56E-01	CB12	0	0			
Total xylenes	7.87E-01	CB03	0	0			
trans-1,2-Dichloroethylene	---	---	0	0			
trans-1,3-Dichloropropene	---	---	0	0			
Trichloroethylene (TCE)	---	---	0	0			
Trichlorofluoroethane	---	---	---	---			
Vinyl acetate	---	---	---	---			
Vinyl chloride	---	---	0	0			
SVOCs							
1,2-Dichlorobenzene	---	---	0	0			
1,3-Dichlorobenzene	---	---	0	0			
1,4-Dichlorobenzene	---	---	0	0			
1,4-Dioxane	---	---	0	0			
2,4,5-Trichlorophenol	---	---	---	---			
2,4,6-Trichlorophenol	---	---	---	---			
2,4-Dichlorophenol	---	---	---	---			
2,4-Dimethylphenol	---	---	0	0			
2,4-Dinitrophenol	---	---	---	---			
2,4-Dinitrotoluene	4.87E-02	CB01	0	0			
2,6-Dinitrotoluene	---	---	---	---			
2-Chloronaphthalene	---	---	0	0			
2-Chlorophenol	---	---	---	---			
2-Methylphenol (o-Cresol)	3.23E-03	CB12	0	0			
2-Nitroaniline	---	---	---	---			
2-Nitrophenol	---	---	---	---			
4,6-Dinitro-2-methylphenol	---	---	---	---			
4-Bromophenyl phenyl ether	---	---	---	---			
4-Chloro-3-methylphenol	---	---	---	---			
4-Chloroaniline	---	---	---	---			
4-Chlorophenyl phenyl ether	---	---	---	---			

TABLE 5-1
Catch-Basin Sediment Screening Levels and Contaminants of Potential Concern
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Chemical	CAS No.	FAI Method	Lower Screening Level Appendix D, LDW Guidance for Stormwater Source Control Evaluation at Upland Sites	Upper Screening Level Appendix D, LDW Guidance for Stormwater Source Control Evaluation at Upland Sites	DMC Catch Basin Sediment Screening Level (Upper Level)	MDL Used as Reporting Limit (1)	No. of Analyses	Number of Detections
Chemical	**CAS**		**mg/kg dry weight**	**mg/kg dry weight**	**mg/kg dry weight**			
SVOCs								
4-Methylphenol (p-Cresol)	106-44-5	EPA 8270D	6.70E-01	6.70E-01	6.70E-01	X	4	3
4-Nitrophenol	100-02-7	EPA 8270D	na	na	na	X	4	1
Benzyl alcohol	100-51-6	EPA 8270D	5.70E-02	7.30E-02	7.30E-02	X	9	3
Bis(2-chloroethoxy)methane	111-91-1	EPA 8270D	na	na	na	X	12	1
Bis(2-chloroethyl)ether	111-44-4	EPA 8270D	na	na	na		0	---
Bis/Di(2-ethylhexyl) phthalate	117-81-7	EPA 8270D	1.30E+00	1.90E+00	1.90E+00	X	12	11
bis(2-Ethylhexyl)adipate	na	EPA 8270D	na	na	na		0	---
Butyl benzyl phthalate	85-68-7	EPA 8270D	6.30E-02	9.00E-01	9.00E-01	X	12	6
Carbazole	86-74-8	EPA 8270D	na	na	na	X	12	7
Dibutyl phthalate	84-74-2	EPA 8270D	1.40E+00	5.10E+00	5.10E+00	X	12	3
Diethyl phthalate (phthalic acid)	84-66-2	EPA 8270D	2.00E-01	1.20E+00	1.20E+00	X	4	2
Dimethyl phthalate	131-11-3	EPA 8270D	7.10E-02	1.60E-01	1.60E-01	X	12	3
Di-n-octyl phthalate	117-84-0	EPA 8270D	6.20E+00	na	na	X	4	2
Hexachlorobenzene	118-74-1	EPA 8270D	2.20E-02	7.00E-02	7.00E-02	X	9	0
Hexachlorobutadiene	87-68-3	EPA 8270D	1.10E-02	1.20E-01	1.20E-01	X	9	0
Hexachlorocyclopentadiene	77-47-4	EPA 8270D	na	na	na		0	---
Hexachloroethane	67-72-1	EPA 8270D	na	na	na		0	---
Isophorone	78-59-1	EPA 8270D	na	na	na		0	---
Nitrobenzene	98-95-3	EPA 8270D	na	na	na		0	---
n-Nitrosodi-n-propylamine	621-64-7	EPA 8270D	na	na	na		0	---
Pentachlorophenol	87-86-5	EPA 8270D	3.60E-01	6.90E-01	6.90E-01	X	12	1
Phenol	108-95-2	EPA 8270D	4.20E-01	1.20E+00	1.20E+00	X	12	4
PAHs								
1-Methylnaphthalene	90-12-0	EPA 8270D SIM	na	na	na	X	12	6
2-Methylnaphthalene	91-57-6	EPA 8270D SIM	6.70E-01	1.40E+00	1.40E+00	X	12	8
Acenaphthene	83-32-9	EPA 8270D SIM	5.00E-01	7.30E-01	7.30E-01	X	12	5
Acenaphthylene	208-96-8	EPA 8270D SIM	1.30E+00	1.30E+00	1.30E+00	X	12	5
Anthracene	120-12-7	EPA 8270D SIM	9.60E-01	4.40E+00	4.40E+00	X	12	11
Benzo(a)anthracene	56-55-3	EPA 8270D SIM	1.30E+00	1.60E+00	1.60E+00	X	12	8
Benzo(a)pyrene	50-32-8	EPA 8270D SIM	1.60E+00	3.00E+00	3.00E+00	X	12	11
Benzo(b)fluoranthene	205-99-2	EPA 8270D SIM	na	na	na	X	10	9
Benzo(g,h,i)perylene	191-24-2	EPA 8270D SIM	6.70E-01	7.20E-01	7.20E-01	X	12	8
Benzo(k)fluoranthene	207-08-9	EPA 8270D SIM	na	na	na	X	10	5
Chrysene	218-01-9	EPA 8270D SIM	1.40E+00	2.80E+00	2.80E+00	X	12	11
Dibenz(a,h)anthracene	53-70-3	EPA 8270D SIM	2.30E-01	5.40E-01	5.40E-01	X	12	6
Dibenzofuran	132-64-9	EPA 8270D SIM	na	na	na	X	12	6
Fluoranthene	206-44-0	EPA 8270D SIM	1.70E+00	2.50E+00	2.50E+00	X	12	12
Fluorene	86-73-7	EPA 8270D SIM	5.40E-01	1.00E+00	1.00E+00	X	12	10
Indeno(1,2,3-cd)pyrene	193-39-5	EPA 8270D SIM	6.00E-01	6.90E-01	6.90E-01	X	12	7
Naphthalene**	91-20-3	EPA 8270D SIM	2.10E+00	2.40E+00	2.40E+00	X	12	5
Phenanthrene	85-01-8	EPA 8270D SIM	1.50E+00	5.40E+00	5.40E+00	X	12	9
Pyrene	129-00-0	EPA 8270D SIM	2.60E+00	3.30E+00	3.30E+00	X	12	11
HPAH	na	EPA 8270D SIM	1.20E+01	1.70E+01	1.70E+01	X	---	---
LPAH	na	EPA 8270D SIM	5.20E+00	5.20E+00	5.20E+00	X	---	---
Total Benzofluoranthenes	na	EPA 8270D SIM	3.20E+00	3.60E+00	3.60E+00	X	12	11
cPAH TEQ (2)	na	EPA 8270D SIM	na	na	na	X	12	12
Tins								
Tributyltin	36643-28-4	Krone 1988	na	na	na		0	---
Dioxin/Furans								
Dioxins/Furans TEQ	688-73-3	EPA 1613B	25 ng/kg	na	na		3	3
TPH								
Gasoline range organics without benzene (3)	J	NWTPH-Gx	na	na	na		9	2
Diesel range organics (3)	K	NWTPH-Dx	na	na	na		12	6
Oil range organics (Lube Oil) (3)	L	NWTPH-Dx	na	na	na		12	12

Notes:

(1) Only Contaminants with Concentrations in Dry Weight Basis Used

(2) Benzo(a)pyrene Cleanup Levels used for Comparison

(3) Method A Cleanup Levels used for Petroleum Hydrocarbon Contaminants

Tributyltin Yellow Highlight Indicates that Contaminant Was Not Included in Analysis

na Cleanup/Permit Level Not Available

** Naphthalene analyzed by methods 8270D SIM and 8260C

TABLE 5-1
Catch-Basin Sediment Screening Levels and Contaminants of Potential Concern
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Chemical	Highest Recorded Catch-Basin Sediment Concentation at DMC (mg/kg dry weight)	Location with Highest Concentration	Detections Above CUL	Number of Different Locations with CUL Exceedance	Exceedance Factor for Highest Concentrations	Preliminary Catch-Basin Sediment COPC List Based on Catch-Basin Sediment Upper Screening Level	Final Catch-Basin Sediment COPC List If number of locations = 2+ and Exceedance Factor > 2, **OR** Exceedance Factor >10.
Chemical							
SVOCs							
4-Methylphenol (p-Cresol)	4.05E-01	CB01	0	0			
4-Nitrophenol	6.79E-02	CB01	0	0			
Benzyl alcohol	3.60E-02	SWC1	0	0			
Bis(2-chloroethoxy)methane	6.00E-02	CB04	0	0			
Bis(2-chloroethyl)ether	---	---	---	---			
Bis/Di(2-ethylhexyl) phthalate	2.49E+01	CB12	**7**	**5**	**13**	Bis/Di(2-ethylhexyl) phthalate	Bis/Di(2-ethylhexyl) phthalate
bis(2-Ethylhexyl)adipate	---	---	---	---			
Butyl benzyl phthalate	2.44E+00	CB04	**2**	**1**	**2**	Butyl benzyl phthalate	
Carbazole	8.50E-01	SWC1	0	0			
Dibutyl phthalate	6.06E-01	CB012	0	0			
Diethyl phthalate (phthalic acid)	6.31E-02	CB01	0	0			
Dimethyl phthalate	7.60E-01	CB04	**2**	**1**	**4**	Dimethyl phthalate	
Di-n-octyl phthalate	1.80E-01	SWC1	0	0			
Hexachlorobenzene	---	---	0	0			
Hexachlorobutadiene	---	---	0	0			
Hexachlorocyclopentadiene	---	---	---	---			
Hexachloroethane	---	---	---	---			
Isophorone	---	---	---	---			
Nitrobenzene	---	---	---	---			
n-Nitrosodi-n-propylamine	---	---	---	---			
Pentachlorophenol	2.77E-02	CB12	0	0			
Phenol	3.47E-01	CB12	0	0			
PAHs							
1-Methylnaphthalene	1.29E-01	CB01	0	0			
2-Methylnaphthalene	2.20E-01	SWC1	0	0			
Acenaphthene	8.70E-02	CB08	0	0			
Acenaphthylene	4.60E-01	SWC1	0	0			
Anthracene	2.70E+00	SWC1	0	0			
Benzo(a)anthracene	1.50E+00	SWC1 & CB08	0	0			
Benzo(a)pyrene	7.40E-01	SWC1 & CB04	0	0			
Benzo(b)fluoranthene	1.60E+00	CB04	0	0			
Benzo(g,h,i)perylene	6.00E-01	CB04	0	0			
Benzo(k)fluoranthene	7.00E-01	CB04	0	0			
Chrysene	2.40E+00	CB08 & CB04	0	0			
Dibenz(a,h)anthracene	1.70E-01	CB04	0	0			
Dibenzofuran	5.30E-01	SWC1	0	0			
Fluoranthene	6.00E+00	SWC1	**2**	**2**	**2**	Fluoranthene	Fluoranthene
Fluorene	1.20E+00	SWC1	**1**	**1**	**1**	Fluorene	
Indeno(1,2,3-cd)pyrene	6.00E-01	CB04	0	0			
Naphthalene**	1.50E-01	SWC1	0	0			
Phenanthrene	5.40E+00	SWC1	**1**	**1**		Phenanthrene	
Pyrene	5.00E+00	SWC1	**3**	**3**	**1**	Pyrene	
HPAH	---	---	---	---			
LPAH	---	---	---	---			
Total Benzofluoranthenes	2.30E+00	CB04	0	0			
cPAH TEQ (2)	1.16E+00	CB04	0	0			
Tins							
Tributyltin	---	---	---	---			
Dioxin/Furans							
Dioxins/Furans TEQ	2.11E+01	CB08	0	0			
TPH							
Gasoline range organics without benzene (3)	2.20E+01	SWC1	0	0			
Diesel range organics (3)	1.30E+03	SWC1	0	0			
Oil range organics (Lube Oil) (3)	6.40E+03	SWC1	0	0			

Notes:

(1) Only Contaminants with Concentrations in Dry Weight Basis Used

(2) Benzo(a)pyrene Cleanup Levels used for Comparison

(3) Method A Cleanup Levels used for Petroleum Hydrocarbon Contaminants

Tributyltin Yellow Highlight Indicates that Contaminant Was Not Included in Analysis

na Cleanup/Permit Level Not Available

** Naphthalene analyzed by methods 8270D SIM and 8260C

TABLE 5-1a
Preliminary List of Catch-Basin Sediment Contaminants of Potential Concern
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Catch-Basin Sediment COPC	Cleanup Level Basis	Lowest Cleanup Level, mg/kg
Bis(2-ethylhexyl)phthalate	LDW Guidance for Stormwater Source Control, Appendix D, Upper Screening Level	1.90E+00
Fluoranthene	LDW Guidance for Stormwater Source Control, Appendix D, Upper Screening Level	2.50E+00

TABLE 5-2
Catch-Basin Sediment Analyses, Metals
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Sample Depth (ft)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium (Total)	Hexavalent Chromium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
Lower Screening Level (1)					na	57	na	na	5.1	260	na	390	450	0.41	na	na	6.1	na	410
Upper Screening Level (1)					na	93	na	na	6.7	270	na	390	530	0.59	na	na	6.1	na	960
(units in mg/kg)																			
Catch Basin #1 (CB01)	G-Logics	9/10/2015	CB01-20150910	---	**1.03 J**	**11.1 J**	---	<0.375	**0.620**	**48.4**	---	**110**	**100**	<0.609	**39.0**	**2.08**	<0.188	<0.375	**683**
	G-Logics	6/28/2016	CB01-20160628	---	**1.00 J**	**15.0**	**130**	<0.408	**0.675**	**58.3**	---	**112**	**103 J**	<0.646	**43.0**	**2.59**	<0.204	<0.408	**548**
Catch Basin #3 (CB03)	G-Logics	9/10/2015	CB03-20150910	---	**5.41 J**	**18.6 J**	---	<0.343	**4.87**	**178**	---	**218**	**313**	<0.468	**67.4**	**1.71**	**0.333**	<0.343	**1,350**
	G-Logics	6/28/2016	Not Sampled, Not Sufficient Sediment Volume		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Catch Basin #4 (CB04)	Pacific Crest	5/29/2008	CB-1*	---	---	<11	---	---	**0.83**	**78.0**	<1.2	**150**	**160**	<0.31	**45.0**	---	---	---	**350**
	G-Logics	9/10/2015	CB04-20150910	---	**1.53 J**	**19.0 J**	---	**0.261**	**0.849**	**85.3**	---	**148**	**89.2**	<0.359	**63.1**	**1.74**	**0.277**	<0.247	**690**
	G-Logics	6/28/2016	Not Sampled, Not Sufficient Sediment Volume		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Catch Basin #5 (CB05)	Pacific Crest	5/29/2008	CB-2*	---	---	<12	---	---	<0.60	**44.0**	<1.2	**87.0**	**45.0**	<0.30	**75.0**	---	---	---	**140**
	G-Logics	9/10/2015	CB05-20150910	---	**1.29 J**	**10.9 J**	---	<0.229	**0.373**	**50.8 B**	---	**116**	**55.7**	<0.343	**35.6**	**1.67**	**0.133**	<0.229	**321**
	G-Logics	6/28/2016	Not Sampled, Not Sufficient Sediment Volume		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Catch Basin #8 (CB08)	Pacific Crest	5/29/2008	CB-4*	---	---	**18.0**	---	---	**0.680**	**72.0**	<1.3	**190**	**140**	<0.33	**63.0**	---	---	---	**510**
	Ecology/NPDES	2/10/2015	ST-CB-08	---	**5.60**	**11.0**	---	**0.32**	**0.400**	**42 J**	---	**100**	**78.0**	**0.11**	**35.0**	**1.1 J**	**0.15 J**	<0.62	**430**
Catch Basin #12 (CB12)	G-Logics	9/10/2015	CB12-20150910	---	**2.49 J**	**13.8 J**	---	<0.269	**2.17**	**140**	---	**248**	**176**	<0.363	**86.2**	**1.25**	**0.475**	<0.269	**1,450**
	G-Logics	6/28/2016	CB12-20160628	---	**0.858 J**	**12.0**	**82.0**	<0.216	**0.786**	**107**	---	**171**	**137 J**	<0.342	**69.6**	**1.32**	**0.299**	<0.216	**896**
Pump Station (SWC1)	Ecology/NPDES	2/10/2015	ST-CB-04A	---	**6.20**	**14.0**	---	**0.32**	**0.700**	**84 J**	---	**130**	**81.0**	**0.14**	**58.0**	**0.9 J**	**0.17 J**	<0.6	**380**

Notes:
Refer to site diagram(s) for sampling locations.
See Table 5-1 for Details Regarding Catch-Basin Sediment Cleanup Levels and Screening Criteria.

(1) Ecology *Guidance for Stormwater Source Control Evaluations at Upland Sites,* Appendix D, Data Reporting and Screening Tables
* Pacific Crest and G-Logics Sample Names Differ for Catch Basins #4, #5, and #8.
na Cleanup Level Not Available
dup Blind Field Duplicate
--- Not Analyzed/No Data
nd Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified
<50.0 Not Detected at Specified Laboratory Reporting Limit
<49.9 Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level
250 Bold Number(s) Indicates Contaminant Detected.
1,440 Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level
1.70 Bold Number(s) and Purple Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level, but is Not a Final COPC
J Estimated Concentration, Analyte Detected Below Reporting Limit

TABLE 5-3
Catch-Basin Sediment Analyses, Polychlorinated Biphenyls (PCBs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	Sample Depth (ft)	Aroclor1016	Aroclor1221	Aroclor1232	Aroclor1242	Aroclor1248	Aroclor1254	Aroclor1260	Aroclor1262	Aroclor1268	Total PCB Aroclors (2)	Total PCB Congeners (2)	PCB TEQ, nd SDL*0.5
Lower Screening Level (1)					na	na	na	na	na	na	na	na	na	0.13	0.13	na
Upper Screening Level (1)					na	na	na	na	na	na	na	na	na	1.0	1.0	na
(units in mg/kg)																
Catch Basin #1 (CB01)	G-Logics	9/10/2015	CB01-20150910	---	<0.0496	<0.0496	<0.0496	<0.0496	<0.0496	<0.0496	<0.0496	<0.0496	<0.0496	<0.0496	---	---
	G-Logics	6/28/2016	CB01-20160628	---	<0.00193	<0.00193	<0.00193	<0.00193	<0.00193	<0.00193	<0.00193	<0.00193	<0.00193	<0.00193	---	---
Catch Basin #3 (CB03)	G-Logics	9/10/2015	CB03-20150910	---	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	---	---
	G-Logics	6/28/2016	Not Sampled, Not Sufficient Sediment Volume		---	---	---	---	---	---	---	---	---	---	---	---
Catch Basin #4 (CB04)	Pacific Crest	5/29/2008	CB-1*	---	<0.062	<0.062	<0.062	<0.062	<0.062	<0.062	<0.062	<0.062	<0.062	<0.062	---	---
	G-Logics	9/10/2015	CB04-20150910	---	<0.0497	<0.0497	<0.0497	<0.0497	<0.0497	<0.0497	<0.0497	<0.0497	<0.0497	<0.0497	---	---
	G-Logics	6/28/2016	Not Sampled, Not Sufficient Sediment Volume		---	---	---	---	---	---	---	---	---	---	---	---
Catch Basin #5 (CB05)	Pacific Crest	5/29/2008	CB-2*	---	<0.062	<0.062	<0.062	<0.062	<0.062	<0.062	<0.062	<0.062	<0.062	<0.060	---	---
	G-Logics	9/10/2015	CB05-20150910	---	<0.0498	<0.0498	<0.0498	<0.0498	<0.0498	<0.0498	<0.0498	<0.0498	<0.0498	<0.0498	---	---
	G-Logics	6/28/2016	Not Sampled, Not Sufficient Sediment Volume		---	---	---	---	---	---	---	---	---	---	---	---
Catch Basin #8 (CB08)	Pacific Crest	5/29/2008	CB-4*	---	<0.062	<0.062	<0.062	<0.062	<0.062	**0.35**	**0.033**	<0.062	<0.062	**0.680**	---	---
	Ecology/NPDES	2/10/2015	ST-CB-08	---	<0.02	<0.022	<0.022	<0.02	<0.02	<0.02	**0.074**	---	---	**0.074**	**0.264 J**	**0.000014 J**
Catch Basin #12 (CB12)	G-Logics	9/10/2015	CB12-20150910	---	<0.0490	<0.0490	<0.0490	<0.0490	<0.0490	<0.0490	<0.0490	<0.0490	<0.0490	<0.0490	---	---
	G-Logics	6/28/2016	CB12-20160628	---	<0.00147	<0.00147	<0.00147	<0.00147	<0.00147	<0.00147	<0.00147	<0.00147	<0.00147	<0.00147	---	---
Pump Station (SWC1)	Ecology/NPDES	2/10/2015	ST-CB-04A	---	<0.017	<0.019	<0.019	<0.017	<0.017	<0.017	**0.110**	---	---	**0.110**	**0.426 J**	**0.000016 J**

Notes:
Refer to site diagram(s) for sampling locations.
See Table 5-1 for Details Regarding Catch-Basin Sediment Cleanup Levels and Screening Criteria.

(1) Ecology *Guidance for Stormwater Source Control Evaluations at Upland Sites,* Appendix D, Data Reporting and Screening Tables

(2) Total PCBs Calculated by Summing the Detected PCBs

* Pacific Crest and G-Logics Sample Names Differ for Catch Basins #4, #5, and #8.

na Cleanup Level Not Available

dup Blind Field Duplicate

--- Not Analyzed/No Data

nd Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified

<50.0 Not Detected at Specified Laboratory Reporting Limit

<49.9 Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level

250 Bold Number(s) Indicates Contaminant Detected.

1,440 Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level

1.70 Bold Number(s) and Purple Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level, but is Not a Final COPC

J Estimated Concentration, Analyte Detected Below Reporting Limit

TABLE 5-4
Catch-Basin Sediment Analyses, Semivolatile Organic Compounds (SVOCs) and Polycyclic Aromatic Hydrocarbons (PAHs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	Sample Depth (ft)	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	Dibenzofuran	Fluoranthene	Fluorene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	Butylbenzylphthalate	Di-n-butylphthalate	Di-n-Octylphthalate	Diethylphthalate	Dimethylphthalate	bis(2-Ethylhexyl)phthalate	2,4-Dimethylphenol	2-Methylphenol	4-Methylphenol	4-Nitrophenol	Pentachlorophenol	Phenol	Benzoic Acid	Benzyl Alcohol	bis(2-Chloroethoxy)methane	Carbazole	2-Chloronaphthalene	1,2-Dichlorobenzene	2,4-Dinitrotoluene	Hexachlorobenzene	Hexachlorobutadiene	N-Nitrosodiphenylamine	Other SVOCs (2)
Lower Screening Level (1)					0.50	1.30	0.96	0.67	na	1.70	0.54	na	0.67	2.10	1.50	2.60	0.063	1.40	6.20	0.20	0.071	1.30	0.029	0.063	0.67	na	0.36	0.42	na	0.057	na	na	na	0.035	na	0.022	0.011	na	various
Upper Screening Level (1)					0.73	1.30	4.40	0.72	na	2.50	1.00	na	1.40	2.40	5.40	3.30	0.90	5.10	na	1.20	0.16	1.90	0.029	0.063	0.67	na	0.69	1.20	na	0.073	na	na	na	0.050	na	0.070	0.120	na	various
(units in mg/kg)																																								
Catch Basin #1 (CB01)	G-Logics	9/10/2015	CB01-20150910	---	<0.110	<0.110	<0.110	<0.110	<0.221 R	**0.194**	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	---	---	<0.110	**0.941**	---	---	---	---	<0.0441	<0.441	<1.10	<0.221 R	<0.221 R	<1.10 R	---	<0.0752	---	<0.221 R	<0.376	---	nd
	G-Logics	6/28/2016	CB01-20160628	---	<0.0943	<0.00428	**0.0175**	**0.0156**	**0.0205**	**0.0621**	**0.0534**	**0.129**	**0.218**	<0.0407	**0.0754**	**0.0789**	<0.0287	<0.0158	<0.0258	**0.0631**	**0.186**	**0.389**	<0.00407	<0.00402	**0.405 D**	**0.0679 J**	<0.0346** R	**0.0598**	---	**0.0163**	<0.00406	**0.00736**	<0.00331	<0.00558	**0.0487**	<0.00299	<0.00379	---	nd
Catch Basin #3 (CB03)	G-Logics	9/10/2015	CB03-20150910	---	<0.102	<0.102	**0.199**	<0.102	<0.205	**1.95**	**0.158**	<0.102	<0.102	<0.102	<0.102	**1.92**	**0.423**	**0.115**	---	---	<0.102	**4.68**	---	---	---	---	<0.0409	<0.409	<1.02	<0.205	<0.205	<1.02	---	<0.0778	---	<0.205	<0.389	---	nd
	G-Logics	6/28/2016	Not Sampled, Not Sufficient Sediment Volume		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Catch Basin #4 (CB04)	Pacific Crest	5/29/2008	CB-1*	---	**0.062**	**0.10**	**1.20**	**0.60**	**0.13**	**1.30**	**0.19**	<0.41	**0.08**	**0.09**	**1.00**	**1.70**	**1.20**	<0.041	---	---	**0.76**	**1.90**	---	---	---	---	<0.21	**0.16**	---	---	**0.06**	**0.39**	---	---	---	---	---	---	---	---
	G-Logics	9/10/2015	CB04-20150910	---	<0.0734	<0.0734	**0.289**	<0.0734	<0.147	**1.03**	<0.0734	<0.0734	<0.0734	<0.0734	<0.0734	**0.887**	**2.44**	<0.147	---	---	<0.0734	<0.0734	---	---	---	---	<0.0294	<0.294	<0.734	<0.147	<0.147	<0.734	---	<0.0374	---	<0.147	<0.187	---	nd
	G-Logics	6/28/2016	Not Sampled, Not Sufficient Sediment Volume		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Catch Basin #5 (CB05)	Pacific Crest	5/29/2008	CB-2*	---	**0.032**	**0.03**	**0.19**	**0.21**	<0.04	**0.40**	**0.045**	<0.008	**0.016**	**0.015**	**0.016**	**0.380**	<0.4	<0.04	---	---	<0.04	**0.16**	---	---	---	---	<0.2	<0.040	---	---	<0.04	**0.05**	---	---	---	---	---	---	---	---
	G-Logics	9/10/2015	CB05-20150910	---	<0.0686	<0.0686	**0.270**	<0.0686	<0.137	**0.608**	**0.0865**	<0.0686	<0.0686	<0.0686	**0.321**	**0.756**	<0.0686	<0.0686	---	---	<0.0686	**0.592**	---	---	---	---	<0.0274	<0.274	<0.686	<0.137	<0.137	<0.686	---	<0.0325	---	<0.137	<0.162	---	nd
	G-Logics	6/28/2016	Not Sampled, Not Sufficient Sediment Volume		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Catch Basin #8 (CB08)	Pacific Crest	5/29/2008	CB-4*	---	**0.087**	**0.26**	**0.66**	**0.46**	**0.23**	**3.90**	**0.35**	**0.09**	**0.15**	**0.11**	**1.70**	**3.60**	**0.39**	<0.044	---	---	<0.044	**2.70**	---	---	---	---	<0.22	<0.044	---	---	<0.44	**0.41**	---	---	---	---	---	---	---	---
	Ecology/NPDES	2/10/2015	ST-CB-08	---	**0.044 J**	**0.120 J**	**0.55**	**0.33**	**0.220 J**	**2.20**	**0.24**	**0.052 J**	**0.11**	**0.093**	**2.00**	**4.10**	<0.097	<0.970 U	<0.970 U	<0.150 U	<0.190 J	**3.30**	<0.190	<0.190 J	**0.160 J**	<1.900	<0.390 U	<0.190 U	<4.90	<0.190	<0.190 J	**0.120 J**	<0.039 J	<0.110	<0.190	<0.097 J	<0.097 J	**0.078 J**	nd
Catch Basin #12 (CB12)	G-Logics	9/10/2015	CB12-20150910	---	<0.0824	<0.0824	**0.388**	**0.156**	<0.165	**1.77**	**0.138**	**0.092**	**0.155**	<0.0824	**0.782**	**1.69**	**0.382**	**0.606**	---	---	<0.0824	**24.9 D**	---	---	---	---	<0.033	**0.347**	<0.824	<0.165	<0.165	<0.824	---	<0.0431	---	<0.165	<0.215	---	nd
	G-Logics	6/28/2016	CB12-20160628	---	<0.0721 R	<0.00428 R	**0.0212**	**0.0914 I**	**0.0117**	**0.267**	**0.0153 J**	**0.00535 J**	**0.0113 J**	<0.0407 R	**0.139 J**	**0.212**	**0.118 J**	**0.185 J**	**0.0276**	**0.00481**	**0.0450 B**	**2.25**	<0.00407	**0.00323**	**0.169**	<0.0482	**0.0277** J**	**0.152**	---	**0.0168**	<0.00310	**0.0188 J**	<0.00331 R	<0.00558 R	<0.00482 R	<0.00299 R	<0.00379 R	---	nd
Pump Station (SWC1)	Ecology/NPDES	2/10/2015	ST-CB-04A	---	**0.072 J**	**0.460 J**	**2.70**	**0.40**	**0.530 J**	**6.00**	**1.20**	**0.074**	**0.22**	**0.15**	**5.40**	**5.00**	<0.630	<0.890 U	**0.180 J**	<0.150 U	<0.180 J	**3.60**	<0.180	<0.180 J	<0.350 U	<1.800	<0.350 U	<0.180 U	<4.40	**0.036 J**	<0.180 J	**0.85**	<0.035 J	<0.098	<0.180	<0.089 U	<0.089 J	**0.056 J**	nd

Notes:
Refer to site diagram(s) for sampling locations.
See Table 5-1 for Details Regarding Catch-Basin Sediment Cleanup Levels and Screening Criteria.
(1) Ecology *Guidance for Stormwater Source Control Evaluations at Upland Sites*, Appendix D, Data Reporting and Screening Tables
(2) Analytes Not Listed were No Detected Above Laboratory Reporting Limits
* Pacific Crest and G-Logics Sample Names Differ for Catch Basins #4, #5, and #8.
na Cleanup Level Not Available
dup Blind Field Duplicate
--- Not Analyzed/No Data
nd Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified
<50.0 Not Detected at Specified Laboratory Reporting Limit
<49.9 Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level
250 Bold Number(s) Indicates Contaminant Detected.
1,440 Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level
1.70 Bold Number(s) and Purple Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level, but is Not a Final COPC
* The reporting limits were raised due to high moisture content
** Flagged Value is Not Within Established Control Limits
J Estimated Concentration, Analyte Detected Below Reporting Limit
R Data Rejected based on ECOCHEM Data Validation Report dated April 4, 2017

TABLE 5-5
Catch-Basin Sediment Analyses, Carcinogenic Polynuclear Aromatic Hydrocarbons (cPAHs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	Sample Depth (ft)	Benzo(a)anthracene	Chrysene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	Total Benzofluoranthenes	TEQ, nd RL*0.5 (2)
Lower Screening Level (1)					1.3	1.4	1.6	na	na	0.60	0.23	3.2	1.6
Upper Screening Level (1)					1.6	2.8	3.0	na	na	0.69	0.54	3.6	3.0
(units in mg/kg)													
Catch Basin #1 (CB01)	G-Logics	9/10/2015	CB01-20150910	---	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	**0.083**
	G-Logics	6/28/2016	CB01-20160628	---	**0.0271**	**0.0513**	**0.0183**	**0.0675**	**0.00858**	**0.0153**	**0.00638**	**0.0761**	**0.0313**
Catch Basin #3 (CB03)	G-Logics	9/10/2015	CB03-20150910	---	<0.102	**1.03**	**0.414**	**1.03**	<0.102	<0.102	<0.102	**1.03**	**0.548**
	G-Logics	6/28/2016	Not Sampled, Not Sufficient Sediment Volume		---	---	---	---	---	---	---	---	---
Catch Basin #4 (CB04)	Pacific Crest	5/29/2008	CB-1*	---	**0.890**	**2.40**	**0.740**	**1.60**	**0.700**	**0.600**	**0.170**	**2.30**	**1.164**
	G-Logics	9/10/2015	CB04-20150910	---	<0.0734	**0.929**	**0.246**	**1.00**	<0.0734	<0.0734	<0.0734	**1.00**	**0.370**
	G-Logics	6/28/2016	Not Sampled, Not Sufficient Sediment Volume		---	---	---	---	---	---	---	---	---
Catch Basin #5 (CB05)	Pacific Crest	5/29/2008	CB-2*	---	**0.170**	**0.280**	**0.270**	**0.170**	**0.230**	**0.130**	<0.0079	**0.400**	**0.343**
	G-Logics	9/10/2015	CB05-20150910	---	**0.554**	**0.729**	**0.296**	**0.677**	<0.0686	<0.0686	<0.0686	**0.677**	**0.437**
	G-Logics	6/28/2016	Not Sampled, Not Sufficient Sediment Volume		---	---	---	---	---	---	---	---	---
Catch Basin #8 (CB08)	Pacific Crest	5/29/2008	CB-4*	---	**1.20**	**1.80**	**0.610**	**1.00**	**0.560**	**0.410**	**0.150**	**1.56**	**0.96**
	Ecology/NPDES	2/10/2015	ST-CB-08	---	**1.50**	**2.40**	**0.590**	---	---	**0.360**	**0.100**	**1.90**	**1.00**
Catch Basin #12 (CB12)	G-Logics	9/10/2015	CB12-20150910	---	<0.0824	**1.91**	**0.368**	**1.10**	<0.0824	<0.0824	<0.0824	**1.10**	**0.514**
	G-Logics	6/28/2016	CB12-20160628	---	**0.0647 J**	**0.181 J**	**0.0447 J**	**0.104 J**	**0.0267 J**	**0.0541 IJ**	**0.0194 IJ**	**0.131**	**0.0734**

TABLE 5-5
Catch-Basin Sediment Analyses, Carcinogenic Polynuclear Aromatic Hydrocarbons (cPAHs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	Sample Depth (ft)	Benzo(a)anthracene	Chrysene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	Total Benzofluoranthenes	TEQ, nd RL *0.5 (2)
Lower Screening Level (1)					1.3	1.4	1.6	na	na	0.60	0.23	3.2	1.6
Upper Screening Level (1)					1.6	2.8	3.0	na	na	0.69	0.54	3.6	3.0
(units in mg/kg)													
Pump Station (SWC1)	Ecology/NPDES	2/10/2015	ST-CB-04A	---	**1.50**	**2.20**	**0.740**	---	---	**0.450**	**0.130**	**2.10**	**1.20**

Notes: Refer to site diagram(s) for sampling locations.

See Table 5-1 for Details Regarding Catch-Basin Sediment Cleanup Levels and Screening Criteria.

(1) Ecology *Guidance for Stormwater Source Control Evaluations at Upland Sites,* Appendix D, Data Reporting and Screening Tables

(2) Analytical Results for Each Individual cPAH is Multiplied by the Toxicity Equivalency Fraction (TEF) and then added together to produce a Toxicity Equivalency Quotient (TEQ). When Analytical Results are Less Than Reporting Limits, Half of the Reporting Limit is Used for the Calculation.

*	Pacific Crest and G-Logics Sample Names Differ for Catch Basins #4, #5, and #8.
na	Cleanup Level Not Available
dup	Blind Field Duplicate
---	Not Analyzed/No Data
nd	Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified
<50.0	Not Detected at Specified Laboratory Reporting Limit
<49.9	Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level
250	Bold Number(s) Indicates Contaminant Detected.
1,440	Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level
1.70	Bold Number(s) and Purple Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level, but is Not a Final COPC

TABLE 5-6
Catch-Basin Sediment Analyses, Conventional Parameters and Petroleum Hydrocarbons
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	Sample Depth (ft)	Gasoline Range Organics	Diesel Range Organics	Heavy Oil Range Organics	Total Organic Carbon	Total Solids	Clay	Silt	Sand	Gravel
Lower Screening Level (1)					na	na	na	na	na	na	na	na	na
Upper Screening Level (1)					na	na	na	na	na	na	na	na	na
(units in mg/kg)								(%)		Grain Size (%)			
Catch Basin #1 (CB01)	G-Logics	9/10/2015	CB01-20150910	---	<18.8	<45.1	**151**	**1.59**	---	**0.2**	**2.0**	**96**	**0.2**
	G-Logics	6/28/2016	CB01-20160628	---	<22.0	**279**	**2,240**	**2.25**	---	---	---	---	---
Catch Basin #3 (CB03)	G-Logics	9/10/2015	CB03-20150910	---	<19.4	<44.9	**865**	**3.65**	---	**2.8**	**14**	**80**	**2.1**
	G-Logics	6/28/2016	Not Sampled, Not Sufficient Sediment Volume		---	---	---	---	---	---	---	---	---
Catch Basin #4 (CB04)	Pacific Crest	5/29/2008	CB-1*	---	---	**230**	**1,400**	---	---	---	---	---	---
	G-Logics	9/10/2015	CB04-20150910	---	<9.35	<28.9	**739**	**1.65**	---	**3.4**	**15**	**73**	**7.9**
	G-Logics	6/28/2016	Not Sampled, Not Sufficient Sediment Volume		---	---	---	---	---	---	---	---	---
Catch Basin #5 (CB05)	Pacific Crest	5/29/2008	CB-2*	---	---	**100**	**560**	---	---	---	---	---	---
	G-Logics	9/10/2015	CB05-20150910	---	<8.12	<29.2	**278**	**1.36**	---	**1.8**	**8.3**	**58**	**32**
	G-Logics	6/28/2016	Not Sampled, Not Sufficient Sediment Volume		---	---	---	---	---	---	---	---	---
Catch Basin #8 (CB08)	Pacific Crest	5/29/2008	CB-4*	---	---	**250**	**1,700**	---	---	---	---	---	---
	Ecology/leidos	2/10/2015	ST-CB-08	---	<4.9	**930 J**	**2,700 J**	**1.9**	**49.5**	**42**	**54**	**3.5**	**0.5**
Catch Basin #12 (CB12)	G-Logics	9/10/2015	CB12-20150910	---	**19.6**	<28.6	**374**	**2.27**	---	**5.3**	**13**	**77**	**8.0**
	G-Logics	6/28/2016	CB12-20160628	---	<7.32	<29.3	**676 J**	**1.79**	---	---	---	---	---
Pump Station (SWC1)	Ecology/leidos	2/10/2015	ST-CB-04A	---	**33**	**1,300 J**	**6,400 J**	**1.5**	**56.2**	**17**	**23**	**52**	**8.5**

Notes:
Refer to site diagram(s) for sampling locations.
See Table 5-1 for Details Regarding Catch-Basin Sediment Cleanup Levels and Screening Criteria.
(1) Ecology *Guidance for Stormwater Source Control Evaluations at Upland Sites,* Appendix D, Data Reporting and Screening Tables
* Pacific Crest and G-Logics Sample Names Differ for Catch Basins #4, #5, and #8.
na Cleanup Level Not Available
dup Blind Field Duplicate
--- Not Analyzed/No Data
nd Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified
<50.0 Not Detected at Specified Laboratory Reporting Limit
<49.9 Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level
250 Bold Number(s) Indicates Contaminant Detected.
1,440 Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level
1.70 Bold Number(s) and Purple Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level, but is Not a Final COPC
J Estimated Concentration, Analyte Detected Below Reporting Limit

TABLE 5-7
Catch-Basin Sediment Analyses, Volatile Organic Compounds (VOCs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	Sample Depth (ft)	PID Reading (ppm)	Acetone	Benzene	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	Carbon Disulfide	2-Chlorotoluene	1,1-Dichloroethene	1,4-Dioxane	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	p/4-Isopropyltoluene	Methylene Chloride	4-Methyl-2-Pentanone (MIBK)	n-Propylbenzene	Toluene	1,2,4-Trichlorobenzene	Trichlorofluoromethane (CFC-11)	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m,p-Xylene	o-Xylene	Total Xylenes	Other VOCs (2)
Lower Screening Level (1)					na	na	na	na	na	na	na	na	na	na	na	0.011	na	na	na	na	na	na	0.031	na	na	na	na	na	na	various
Upper Screening Level (1)					na	na	na	na	na	na	na	na	na	na	na	0.12	na	na	na	na	na	na	0.051	na	na	na	na	na	na	various
(units in mg/kg)																														
Catch Basin #1 (CB01)	G-Logics	9/10/2015	CB01-20150910	---	**0.1**	<0.940	<0.0752	<0.940	<0.0752	<0.0752	**0.130**	<0.0752	<0.188	---	<0.113	<0.376	<0.301	**0.0836**	<0.0752	<0.940	<0.0752	<0.0752	<0.188	<0.188	<0.0752	<0.0752	<0.0752	<0.0752	<0.0752	nd
	G-Logics	6/28/2016	CB01-20160628	---	---	---	<0.0880	---	<0.0880	**0.240**	---	<0.0880	<0.220	<0.0886	<0.132	<0.0107	<0.352	**0.260**	<0.0880	---	**0.277**	<0.0880	<0.0106	<0.220	**1.90**	**0.708**	<0.0880	<0.0880	<0.0880	nd
Catch Basin #3 (CB03)	G-Logics	9/10/2015	CB03-20150910	---	0.0	<0.972	<0.0778	<0.972	<0.0778	<0.0778	**0.131**	<0.0778	<0.194	---	<0.117	<0.389	<0.311	<0.0778	**0.109* U**	<0.972	<0.0778	<0.0778	<0.194	<0.194	<0.0778	<0.0778	**0.489**	**0.298**	**0.787**	nd
	G-Logics	6/28/2016	Not Sampled, Not Sufficient Sediment Volume		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Catch Basin #4 (CB04)	Pacific Crest	5/29/2008	CB-1*	---	---	**0.120**	---	**0.033**	---	---	**0.0073**	---	---	---	---	---	---	**0.0087**	---	---	---	---	---	---	**0.007**	**0.0031**	**0.0045**	**0.0088**	**0.0042**	---
	G-Logics	9/10/2015	CB04-20150910	---	**0.1**	<0.467	<0.0374	<0.467	<0.0778	<0.0374	<0.0374	<0.0374	<0.0935	---	<0.0561	<0.187	<0.0374	<0.0374	**0.0699* U**	<0.467	<0.0374	<0.0374	<0.0935	<0.0935	<0.0374	<0.0374	**0.0593**	<0.0374	**0.0593**	nd
	G-Logics	6/28/2016	Not Sampled, Not Sufficient Sediment Volume		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Catch Basin #5 (CB05)	Pacific Crest	5/29/2008	CB-2*	---	---	<0.00095	---	<0.0047	---	---	<0.00095	---	---	---	---	---	---	<0.00095	---	---	---	---	---	---	<0.00095	<0.00095	<0.0019	<0.00095	<0.00285	---
	G-Logics	9/10/2015	CB05-20150910	---	**0.1**	<0.406	<0.0325	<0.406	<0.0325	<0.0325	<0.0325	<0.0325	<0.0812	---	<0.0487	<0.162	<0.130	<0.0325	<0.0325	<0.0487	<0.0325	<0.0325	<0.0812	<0.0812	<0.0325	<0.0325	**0.0945**	**0.118**	**0.213**	nd
	G-Logics	6/28/2016	Not Sampled, Not Sufficient Sediment Volume		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Catch Basin #8 (CB08)	Pacific Crest	5/29/2008	CB-4*	---	---	**0.033**	---	**0.010**	---	---	<0.0013	---	---	---	---	---	---	**0.0049**	---	---	---	---	---	---	**0.0038**	**0.002**	**0.0028**	**0.0021**	**0.0049**	---
	Ecology/NPDES	2/10/2015	ST-CB-08	---	---	**0.071**	<0.0015	**0.026**	<0.003	---	**0.00039 J**	<0.003	<0.0075	---	<0.0015	<0.097 J	<0.003	**0.031**	<0.023	**0.0026**	<0.003	<0.003	<0.089 J	<0.0015	<0.003	<0.0075	**0.00089 J**	<0.003	**0.00089 J**	nd
Catch Basin #12 (CB12)	G-Logics	9/10/2015	CB12-20150910	---	0.0	<0.539	<0.0431	<0.539	<0.0431	<0.0431	**0.0452**	**0.431**	<0.129	---	**0.0890**	<0.215	<0.172	**0.0625**	<0.0431	<0.539	**0.0763**	**0.356**	<0.108	**0.354**	**0.440**	**0.175**	**0.465**	**0.270**	**0.735**	nd
	G-Logics	6/28/2016	CB12-20160628	---	---	---	<0.0293	---	<0.0293	<0.0293	---	<0.0293	<0.0293	<0.0344	<0.0439	<0.00357	<0.117	<0.0293	<0.0293	---	<0.0293	<0.0293	<0.00352	<0.0732	<0.0293	<0.0293	**0.108**	**0.141**	**0.249**	nd
Pump Station (SWC1)	Ecology/NPDES	2/10/2015	ST-CB-04A	---	---	**0.060**	**0.00062 J**	**0.014 J**	**0.0026 J**	---	**0.004**	<0.0032	**0.00099 J**	---	**0.0023**	<0.089 J	**0.0011 J**	<0.0032	<0.024	**0.001**	<0.0032	**0.0011 J**	<0.097 J	**0.00059 J**	**0.0091**	**0.0047 J**	**0.009**	**0.015**	**0.024**	nd

Notes: Refer to site diagram(s) for sampling locations.

See Table 5-1 for Details Regarding Catch-Basin Sediment Cleanup Levels and Screening Criteria.

(1) Ecology *Guidance for Stormwater Source Control Evaluations at Upland Sites,* Appendix D, Data Reporting and Screening Tables

(2) Analytes Not Listed were No Detected Above Laboratory Reporting Limits

* Pacific Crest and G-Logics Sample Names Differ for Catch Basins #4, #5, and #8.

na Cleanup Level Not Available

dup Blind Field Duplicate

--- Not Analyzed/No Data

nd Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified

<50.0 Not Detected at Specified Laboratory Reporting Limit

<49.9 Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level

250 Bold Number(s) Indicates Contaminant Detected.

1,440 Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level

1.70 Bold Number(s) and Purple Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level, but is Not a Final COPC

* The reporting limits were raised due to high moisture content

J Estimated Concentration, Analyte Detected Below Reporting Limit

TABLE 5-8
Catch-Basin Sediment Analyses, Dioxins and Furans
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sampled By	Sample Date	Sample Name	Sample Depth (ft)	2,3,7,8-TCDD	1,2,3,7,8-PeCDD	1,2,3,4,7,8-HxCDD	1,2,3,6,7,8-HxCDD	1,2,3,7,8,9-HxCDD	1,2,3,4,6,7,8-HpCDD	OCDD	2,3,7,8-TCDF	1,2,3,7,8-PeCDF	2,3,4,7,8-PeCDF	1,2,3,4,7,8-HxCDF	1,2,3,6,7,8-HxCDF	1,2,3,7,8,9-HxCDF	2,3,4,6,7,8-HxCDF	1,2,3,4,6,7,8-HpCDF	1,2,3,4,7,8,9-HpCDF	OCDF	Total 2,3,7,8-TCDD Equivalence TEQ, nd SDL*1	Total 2,3,7,8-TCDD Equivalence TEQ, nd SDL*0.5	Total 2,3,7,8-TCDD Equivalence TEQ, nd SDL*1.5	Total TCDD	Total TCDF	Total PeCDD	Total PeCDF	Total HxCDD	Total HxCDF	Total HpCDD	Total HpCDF
Lower Screening Level (1)					na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	25	25	25	na	na	na	na	na	na	na	na
Upper Screening Level (1)					na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
(units in ng/kg)																																
Catch Basin #1 (CB01)	G-Logics	9/10/2015	CB01-20150910	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	G-Logics	6/28/2016	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Catch Basin #3 (CB03)	G-Logics	9/10/2015	CB03-20150910	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	G-Logics	6/28/2016	Not Sampled, Not Sufficient Sediment Volume		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Catch Basin #4 (CB04)	Pacific Crest	5/29/2008	CB-1*	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	G-Logics	9/10/2015	CB04-20150910	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	G-Logics	6/28/2016	Not Sampled, Not Sufficient Sediment Volume		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Catch Basin #5 (CB05)	Pacific Crest	5/29/2008	CB-2*	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	G-Logics	9/10/2015	CB05-20150910	---	**0.380 JEMPCU**	**2.09**	**3.84**	**18.00**	**9.69**	**672**	**7,640 E**	**1.79**	**1.08 B**	**1.52**	**4.91**	**2.82**	**1.40 B**	**2.58**	**95.8**	**7.26**	**501**	**17.7**	**17.7**	---	**7.01 EMPC**	**32.4 EMPC**	**14.2 EMPC**	**45.2 EMPC**	**217 EMPC**	**145 EMPC**	**2,290**	**358**
	G-Logics	6/28/2016	Not Sampled, Not Sufficient Sediment Volume		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Catch Basin #8 (CB08)	Pacific Crest	5/29/2008	CB-4*	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Ecology/NPDES	2/10/2015	ST-CB-08	---	<0.228	**1.51 J**	**5.11**	**23.7**	**9.01**	**922**	**10,200 J**	**1.11**	**1.68**	**2.21**	**6.46**	**3.29**	**0.428 J**	**5.14**	**92.0**	**6.53**	**370**	**21.0 J**	**21.1 J**	**21.3 J**	**2.39 J**	**17.8 J**	**15 J**	**44**	**381**	**152**	**3,990**	**377**
Catch Basin #12 (CB12)	G-Logics	9/10/2015	CB12-20150910	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	G-Logics	6/28/2016	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Pump Station (SWC1)	Ecology/NPDES	2/10/2015	ST-CB-04A	---	<0.302	**1.92 J**	**4.50**	**22.4**	**9.21**	**823**	**9,420 J**	**1.41**	**1.58 J**	**2.88**	**6.60**	**3.61**	**0.454 J**	**5.13**	**83.7**	**5.95**	**287**	**20.2 J**	**20.4 J**	**20.5 J**	**2.60 J**	**26.3 J**	**17**	**45.5 J**	**294**	**131**	**3,220**	**319**

Notes:

Refer to site diagram(s) for sampling locations.

See Table 5-1 for Details Regarding Catch-Basin Sediment Cleanup Levels and Screening Criteria.

(1) Ecology *Guidance for Stormwater Source Control Evaluations at Upland Sites,* Appendix D, Data Reporting and Screening Tables

* Pacific Crest and G-Logics Sample Names Differ for Catch Basins #4, #5, and #8.

na	Cleanup Level Not Available
dup	Blind Field Duplicate
---	Not Analyzed/No Data
nd	Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified
<50.0	Not Detected at Specified Laboratory Reporting Limit
<49.9	Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level
250	Bold Number(s) Indicates Contaminant Detected.
1,440	Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level
1.70	Bold Number(s) and Purple Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level, but is Not a Final COPC
B	Analyte Detected in Associated Method Blank
E	Value Above Quantitation Range
J	Estimated Concentration, Analyte Detected Below Reporting Limit
EMPC	Does Not Meet the Requirements of Positive Identification

TABLE 6-1
Stormwater Screening Levels and
Contaminants of Potential Concern
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Chemical	CAS No.	FAI Method	Surface Water (1) Method B Non cancer (µg/L)	Surface Water (1) Method B Cancer (µg/L)	Surface Water (1) Method C Non cancer (µg/L)	Surface Water (1) Method C Cancer (µg/L)	Surface Water Aquatic Life Marine/Acute 173-201A WAC (µg/L)	Surface Water Aquatic Life Marine/Acute NTR 40 CFR 131 (µg/L)	Surface Water Aquatic Life Marine/Acute CWA §304 (µg/L)
Chemical	**CAS**		**SW_B_Non-Canc_ug/L**	**SW_B_Canc_ug/L**	**SW_C_Non-Canc_ug/L**	**SW_C_Canc_ug/L**	**SW_AqL_MAc_201A_ug/L**	**SW_AqL_MAc_NTR_131_ug/L**	**SW_AqL_MAc_304_ug/L**
Total Metals									
Antimony	7440-36-0	EPA 200.8	1.00E+03	na	2.60E+03	na	na	na	na
Arsenic	7440-38-2	EPA 200.8	1.80E+01	9.80E-02	4.40E+01	2.50E+00	6.90E+01	6.90E+01	6.90E+01
Barium	7440-39-3	EPA 200.8	na	na	na	na	na	na	na
Beryllium	7440-41-7	EPA 200.8	2.70E+02	na	6.80E+02	na	na	na	na
Cadmium (nonpotable surface water)	7440-43-9	EPA 200.8	4.10E+01	na	1.00E+02	na	4.20E+01	4.20E+01	4.00E+01
Chromium(III)	7440-47-3	EPA 200.8	2.40E+05	na	6.10E+05	na	na	na	na
Copper	7440-50-8	EPA 200.8	2.90E+03	na	7.20E+03	na	4.80E+00	3.10E+00	4.80E+00
Lead	7439-92-1	EPA 200.8	na	na	na	na	2.10E+02	2.10E+02	2.10E+02
Mercury	7439-97-6	EPA 1631	na	na	na	na	1.80E+00	2.10E+00	1.80E+00
Nickel	7440-02-0	EPA 200.8	1.10E+03	na	2.80E+03	na	7.40E+01	7.40E+01	7.40E+01
Selenium	7782-49-2	EPA 200.8	2.70E+03	na	6.80E+03	na	2.90E+02	2.90E+02	2.90E+02
Silver	7440-22-4	EPA 200.8	2.60E+04	na	6.50E+04	na	1.90E+00	1.90E+00	1.90E+00
Thallium	7440-28-0	EPA 200.8	2.20E-01	na	5.60E-01	na	na	na	na
Zinc	7440-66-6	EPA 200.8	17000	na	41000	na	90	90	90
PCBs									
Aroclor 1016	na	EPA 8082	5.80E-03	3.00E-03	1.50E-02	7.40E-02	na	na	na
Aroclor 1221	na	EPA 8082	na	na	na	na	na	na	na
Aroclor 1232	na	EPA 8082	na	na	na	na	na	na	na
Aroclor 1242	na	EPA 8082	na	na	na	na	na	na	na
Aroclor 1248	na	EPA 8082	na	na	na	na	na	na	na
Aroclor 1254	na	EPA 8082	1.70E-03	1.00E-04	4.20E-03	2.60E-03	na	na	na
Aroclor 1260	na	EPA 8082	na	na	na	na	na	na	na
Aroclor 1262	na	EPA 8082	na	na	na	na	na	na	na
Aroclor 1268	na	EPA 8082	na	na	na	na	na	na	na
Total PCB Aroclors	1336-36-3	EPA 8082	na	1.00E-04	na	2.60E-03	1.00E+01	na	na
Total PCB Congeners	1336-36-3	EPA 8082	na	1.00E-04	na	2.60E-03	1.00E+01	na	na
VOCs									
1,1,1,2-Tetrachloroethane	630-20-6	EPA 8260C	na	na	na	na	na	na	na
1,1,1-Trichloroethane	71-55-6	EPA 8260C	9.30E+05	na	2.30E+06	na	na	na	na
1,1,2,2-Tetrachloroethane	79-34-5	EPA 8260C	1.00E+04	6.50E+00	2.60E+04	1.60E+02	na	na	na
1,1,2-Trichloroethane	79-00-5	EPA 8260C	2.30E+03	2.50E+01	5.80E+03	6.30E+02	na	na	na
1,1-Dichloroethane	75-34-3	EPA 8260C	na	na	na	na	na	na	na
1,1-Dichloroethylene	75-35-4	EPA 8260C	2.30E+04	na	5.80E+04	na	na	na	na
1,1-Dichloropropene	563-58-6	EPA 8260C	na	na	na	na	na	na	na
1,2,3-Trichlorobenzene	87-61-6	EPA 8260C	na	na	na	na	na	na	na
1,2,3-Trichloropropane	96-18-4	EPA 8260C	na	na	na	na	na	na	na
1,2,4-Trichlorobenzene	120-82-1	EPA 8260C	2.30E+02	2.00E+00	5.70E+02	4.90E+01	na	na	na
1,2,4-Trimethylbenzene	95-63-6	EPA 8260C	na	na	na	na	na	na	na
1,2-Dibromo-3-chloropropane	96-12-8	EPA 8260C	na	na	na	na	na	na	na
1,2-Dichloroethane (EDC)	107-06-2	EPA 8260C	1.30E+04	5.90E+01	3.20E+04	1.50E+03	na	na	na
1,2-Dichloropropane	78-87-5	EPA 8260C	5.70E+04	4.40E+01	1.40E+05	1.10E+03	na	na	na
1,3,5-Trimethylbenzene	108-67-8	EPA 8260C	na	na	na	na	na	na	na
1,3-Dichloropropane	142-28-9	EPA 8260C	na	na	na	na	na	na	na
2,2-Dichloropropane	594-20-7	EPA 8260C	na	na	na	na	na	na	na
2-Chlorotoluene	95-49-8	EPA 8260C	na	na	na	na	na	na	na
2-Hexanone	591-78-6	EPA 8260C	na	na	na	na	na	na	na
4-Chlorotoluene	106-43-4	EPA 8260C	na	na	na	na	na	na	na
4-Isopropyltoluene	99-87-6	EPA 8260C	na	na	na	na	na	na	na
Acetone	67-64-1	EPA 8260C	na	na	na	na	na	na	na
Benzene	71-43-2	EPA 8260C	2.00E+03	2.30E+01	5.00E+03	5.70E+02	na	na	na
Bromobenzene	108-86-1	EPA 8260C	na	na	na	na	na	na	na
Bromoform	75-25-2	EPA 8260C	1.40E+04	2.20E+02	3.50E+04	5.50E+03	na	na	na
Bromomethane	74-83-9	EPA 8260C	9.70E+02	na	2.40E+03	na	na	na	na
Carbon disulfide	75-15-0	EPA 8260C	na	na	na	na	na	na	na
Carbon tetrachloride	56-23-5	EPA 8260C	5.50E+02	4.90E+00	1.40E+03	1.20E+02	na	na	na
Chloroethane (ethyl chloride)	75-00-3	EPA 8260C	na	na	na	na	na	na	na
Chloroform	67-66-3	EPA 8260C	6.90E+03	5.60E+01	1.70E+04	1.40E+03	na	na	na
Chloromethane (Methylene chloride)	74-87-3	EPA 8260C	1.70E+04	3.60E+03	4.30E+04	9.00E+04	na	na	na
cis-1,2-Dichloroethylene	156-59-2	EPA 8260C	na	na	na	na	na	na	na
cis-1,3-Dichloropropene	10061-01-5	EPA 8260C	4.10E+04	3.40E+01	1.00E+05	8.50E+02	na	na	na

TABLE 6-1
Stormwater Screening Levels and Contaminants of Potential Concern
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Chemical	Surface Water Aquatic Life Marine/Chronic 173-201A WAC (µg/L)	Surface Water Aquatic Life Marine/Chronic NTR 40 CFR 131 (µg/L)	Surface Water Aquatic Life Marine/Chronic CWA §304 (µg/L)	Surface Water Human Health Marine Waters 173-201A WAC (µg/L)	Surface Water Human Health Marine Waters NTR 40 CFR 131 (µg/L)	Surface Water Human Health Marine Waters CWA §304 (µg/L)	Stormwater Screening Level (ug/L)
Chemical	**SW_AqL_MChr_201A_ug/L**	**SW_AqL_MChr_NTR_131_ug/L**	**SW_AqL_MChr_304_ug/L**	**SW_HH_Org_201A_ug/L**	**SW_HH_NTR_Org_131_ug/L**	**SW_HH_304_Org_ug/L**	
Total Metals							
Antimony	na	na	na	1.80E+02	9.00E+01	6.40E+02	9.00E+01
Arsenic	3.60E+01	3.60E+01	3.60E+01	1.00E+01	1.40E-01	1.40E-01	1.40E-01
Barium	na	na	na	na	na	na	na
Beryllium	na	na	na	na	na	na	2.70E+02
Cadmium (nonpotable surface water)	9.30E+00	9.30E+00	8.80E+00	na	na	na	8.80E+00
Chromium(III)	na	na	na	na	na	na	2.40E+05
Copper	3.10E+00	na	3.10E+00	na	na	na	3.10E+00
Lead	8.10E+00	8.10E+00	8.10E+00	na	na	na	8.10E+00
Mercury	2.50E-02	2.50E-02	9.40E-01	na	1.50E-01	na	2.50E-02
Nickel	8.20E+00	8.20E+00	8.20E+00	1.90E+02	1.00E+02	4.60E+03	8.20E+00
Selenium	7.10E+01	7.10E+01	7.10E+01	4.80E+02	2.00E+02	4.20E+03	7.10E+01
Silver	na	na	na	na	na	na	1.90E+00
Thallium	na	na	na	2.70E-01	6.30E+00	4.70E-01	2.70E-01
Zinc	81	81	81	2900	1000	26000	8.10E+01
PCBs							
Aroclor 1016	na	3.00E-02	na	na	na	na	3.00E-02
Aroclor 1221	na	na	na	na	na	na	na
Aroclor 1232	na	na	na	na	na	na	na
Aroclor 1242	na	na	na	na	na	na	na
Aroclor 1248	na	na	na	na	na	na	na
Aroclor 1254	na	3.00E-02	na	na	na	na	3.00E-02
Aroclor 1260	na	3.00E-02	na	na	na	na	3.00E-02
Aroclor 1262	na	na	na	na	na	na	na
Aroclor 1268	na	na	na	na	na	na	na
Total PCB Aroclors	3.00E-02	3.00E-02	3.00E-02	1.70E-04	7.00E-06	6.40E-05	7.00E-06
Total PCB Congeners	3.00E-02	3.00E-02	3.00E-02	1.70E-04	7.00E-06	6.40E-05	7.00E-06
VOCs							
1,1,1,2-Tetrachloroethane	na	na	na	na	na	na	na
1,1,1-Trichloroethane	na	na	na	1.60E+05	5.00E+04	2.00E+05	5.00E+04
1,1,2,2-Tetrachloroethane	na	na	na	4.60E-01	3.00E-01	3.00E+00	3.00E-01
1,1,2-Trichloroethane	na	na	na	1.80E+00	9.00E-01	8.90E+00	9.00E-01
1,1-Dichloroethane	na	na	na	na	na	na	na
1,1-Dichloroethylene	na	na	na	4.10E+03	4.00E+03	2.00E+04	4.00E+03
1,1-Dichloropropene	na	na	na	na	na	na	na
1,2,3-Trichlorobenzene	na	na	na	na	na	na	na
1,2,3-Trichloropropane	na	na	na	na	na	na	na
1,2,4-Trichlorobenzene	na	na	na	1.40E-01	3.70E-02	7.60E-02	3.70E-02
1,2,4-Trimethylbenzene	na	na	na	na	na	na	na
1,2-Dibromo-3-chloropropane	na	na	na	na	na	na	na
1,2-Dichloroethane (EDC)	na	na	na	1.20E+02	7.30E+01	6.50E+02	7.30E+01
1,2-Dichloropropane	na	na	na	3.10E+00	3.10E+00	3.10E+01	3.10E+00
1,3,5-Trimethylbenzene	na	na	na	na	na	na	na
1,3-Dichloropropane	na	na	na	na	na	na	na
2,2-Dichloropropane	na	na	na	na	na	na	na
2-Chlorotoluene	na	na	na	na	na	na	na
2-Hexanone	na	na	na	na	na	na	na
4-Chlorotoluene	na	na	na	na	na	na	na
4-Isopropyltoluene	na	na	na	na	na	na	na
Acetone	na	na	na	na	na	na	na
Benzene	na	na	na	1.60E+00	1.60E+00	1.60E+01	1.60E+00
Bromobenzene	na	na	na	na	na	na	na
Bromoform	na	na	na	2.70E+01	1.20E+01	1.20E+02	1.20E+01
Bromomethane	na	na	na	2.40E+03	2.40E+03	1.00E+04	2.40E+03
Carbon disulfide	na	na	na	na	na	na	na
Carbon tetrachloride	na	na	na	3.50E-01	3.50E-01	5.00E+00	3.50E-01
Chloroethane (ethyl chloride)	na	na	na	na	na	na	na
Chloroform	na	na	na	1.20E+03	6.00E+02	2.00E+03	6.00E+02
Chloromethane (Methylene chloride)	na	na	na	2.50E+02	1.00E+02	1.00E+03	1.00E+02
cis-1,2-Dichloroethylene	na	na	na	na	na	na	na
cis-1,3-Dichloropropene	na	na	na	2.00E+00	1.20E+00	1.20E+01	1.20E+00

TABLE 6-1
Stormwater Screening Levels and Contaminants of Potential Concern
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Chemical	MDL Used as Reporting Limit (2)	No. of Analyses	Number of Detections	Highest Recorded Stormwater Water Concentation at DMC (ug/L)	Location with Highest Concentration	Detections Above CUL	Exceedance Factor for Highest Concentrations	**Preliminary Stormwater COPC List** Based on Surface Water CUL	**Final Stormwater COPC List** Exceedence Factor > 2 and Total Detections Over CUL > 2, **OR** Exceedance Factor >10
Chemical									
Total Metals									
Antimony		7	6	8.10E+00	Outfall1	0			
Arsenic		7	5	1.30E+01	Outfall1	**5**	**92**	Arsenic	Arsenic
Barium		3	3	6.97E+01	Outfall1	0			
Beryllium		7	1	2.50E-01	Outfall1	0			
Cadmium (nonpotable surface water)		7	2	3.40E-01	Outfall1	0			
Chromium(III)		7	7	2.70E+01	Outfall1	0			
Copper		7	7	5.30E+01	Outfall1	**6**	**17**	Copper	Copper
Lead		7	6	4.40E+01	Outfall1	**1**	**5**	Lead	
Mercury		7	5	1.13E+00	Outfall1	**2**	**45**	Mercury	Mercury
Nickel		7	7	2.10E+01	Outfall1	**2**	**2**	Nickel	Nickel
Selenium		7	1	7.70E-01	Outfall1	0			
Silver		7	1	1.60E-01	Outfall1	0			
Thallium		7	0	---	---	0			
Zinc		7	7	1.60E+02	Outfall1	**1**	**1**	Zinc	
PCBs									
Aroclor 1016	X	6	0	---	---	0			
Aroclor 1221	X	6	0	---	---	0			
Aroclor 1232	X	6	0	---	---	0			
Aroclor 1242	X	6	0	---	---	0			
Aroclor 1248	X	6	0	---	---	0			
Aroclor 1254	X	6	0	---	---	0			
Aroclor 1260	X	6	0	---	---	0			
Aroclor 1262	X	6	0	---	---	0			
Aroclor 1268	X	6	0	---	---	0			
Total PCB Aroclors	X	6	0	---	---	0			
Total PCB Congeners	X	1	1	1.40E-01	Outfall 1	1	**20,000**	Total PCB Congeners	Total PCB Congeners
VOCs									
1,1,1,2-Tetrachloroethane		6	0	---	---	0			
1,1,1-Trichloroethane		6	0	---	---	0			
1,1,2,2-Tetrachloroethane	X	6	0	---	---	0			
1,1,2-Trichloroethane		6	0	---	---	0			
1,1-Dichloroethane		6	0	---	---	0			
1,1-Dichloroethylene		6	0	---	---	0			
1,1-Dichloropropene		6	0	---	---	0			
1,2,3-Trichlorobenzene		6	0	---	---	0			
1,2,3-Trichloropropane		6	0	---	---	0			
1,2,4-Trichlorobenzene	X	6	0	---	---	0			
1,2,4-Trimethylbenzene		6	0	---	---	0			
1,2-Dibromo-3-chloropropane		6	0	---	---	0			
1,2-Dichloroethane (EDC)		6	0	---	---	0			
1,2-Dichloropropane		6	0	---	---	0			
1,3,5-Trimethylbenzene		6	0	---	---	0			
1,3-Dichloropropane		6	0	---	---	0			
2,2-Dichloropropane		6	0	---	---	0			
2-Chlorotoluene		6	0	---	---	0			
2-Hexanone		6	0	---	---	0			
4-Chlorotoluene		6	0	---	---	0			
4-Isopropyltoluene		6	0	---	---	0			
Acetone		6	2	1.00E+01	Outfall 1	0			
Benzene		6	0	---	---	0			
Bromobenzene		6	0	---	---	0			
Bromoform		6	0	---	---	0			
Bromomethane		6	0	---	---	0			
Carbon disulfide		6	0	---	---	0			
Carbon tetrachloride		6	0	---	---	0			
Chloroethane (ethyl chloride)		6	0	---	---	0			
Chloroform		6	0	---	---	0			
Chloromethane (Methylene chloride)		6	0	---	---	0			
cis-1,2-Dichloroethylene		6	0	---	---	0			
cis-1,3-Dichloropropene		6	0	---	---	0			

TABLE 6-1
Stormwater Screening Levels and Contaminants of Potential Concern
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Chemical	CAS No.	FAI Method	Surface Water (1) Method B Non cancer (µg/L)	Surface Water (1) Method B Cancer (µg/L)	Surface Water (1) Method C Non cancer (µg/L)	Surface Water (1) Method C Cancer (µg/L)	Surface Water Aquatic Life Marine/Acute 173-201A WAC (µg/L)	Surface Water Aquatic Life Marine/Acute NTR 40 CFR 131 (µg/L)	Surface Water Aquatic Life Marine/Acute CWA §304 (µg/L)
Chemical	**CAS**		**SW_B_Non-Canc_ug/L**	**SW_B_Canc_ug/L**	**SW_C_Non-Canc_ug/L**	**SW_C_Canc_ug/L**	**SW_AqL_MAc_201A_ug/L**	**SW_AqL_MAc_NTR_131_ug/L**	**SW_AqL_MAc_304_ug/L**
VOCs									
Dibromochloromethane (chlorodibromomethane)	124-48-1	EPA 8260C	1.40E+04	2.10E+01	3.50E+04	5.10E+02	na	na	na
Dibromomethane (methylene bromide)	74-95-3	EPA 8260C	na	na	na	na	na	na	na
Dichlorobromomethane	75-27-4	EPA 8260C	1.40E+04	2.80E+01	3.50E+04	7.00E+02	na	na	na
Dichlorodifluoromethane (CFC-12)	75-71-8	EPA 8260C	na	na	na	na	na	na	na
Ethylbenzene	100-41-4	EPA 8260C	6.90E+03	na	1.70E+04	na	na	na	na
Ethylene dibromide (EDB)	106-93-4	EPA 8260C	na	na	na	na	na	na	na
Isopropylbenzene (Cumene)	98-82-8	EPA 8260C	na	na	na	na	na	na	na
m,p-Xylene	179601-23-1	EPA 8260C	na	na	na	na	na	na	na
Methyl ethyl ketone (2-Butanone, MEK)	78-93-3	EPA 8260C	na	na	na	na	na	na	na
Methyl isobutyl ketone (MIBK)	108-10-1	EPA 8260C	na	na	na	na	na	na	na
Methyl tert-butyl ether (MTBE)	1634-04-4	EPA 8260C	na	na	na	na	na	na	na
Methylene chloride	75-09-2	EPA 8260C	1.70E+04	3.60E+03	4.30E+04	9.00E+04	na	na	na
n-Butylbenzene	104-51-8	EPA 8260C	na	na	na	na	na	na	na
n-Propylbenzene	103-65-1	EPA 8260C	na	na	na	na	na	na	na
o-Xylene	95-47-6	EPA 8260C	na	na	na	na	na	na	na
Pentachloroethane	na	EPA 8260C	na	na	na	na	na	na	na
sec-Butylbenzene	135-98-8	EPA 8260C	na	na	na	na	na	na	na
Styrene	100-42-5	EPA 8260C	na	na	na	na	na	na	na
tert-Butylbenzene	98-06-6	EPA 8260C	na	na	na	na	na	na	na
Tetrachloroethylene (PCE)	127-18-4	EPA 8260C	5.00E+02	1.00E+02	1.30E+03	2.50E+03	na	na	na
Toluene	108-88-3	EPA 8260C	1.90E+04	na	4.80E+04	na	na	na	na
Total xylenes	1330-20-7	EPA 8260C	na	na	na	na	na	na	na
trans-1,2-Dichloroethylene	156-60-5	EPA 8260C	3.30E+04	na	8.20E+04	na	na	na	na
trans-1,3-Dichloropropene	10061-02-6	EPA 8260C	4.10E+04	3.40E+01	1.00E+05	8.50E+02	na	na	na
Trichloroethylene (TCE)	79-01-6	EPA 8260C	na	na	na	na	na	na	na
Trichlorofluoroethane	27154-33-2	EPA 8260C	na	na	na	na	na	na	na
Vinyl acetate	108-05-4	EPA 8260C	na	na	na	na	na	na	na
Vinyl chloride	75-01-4	EPA 8260C	6600	na	17000	na	na	na	na
SVOCs									
1,2-Dichlorobenzene	95-50-1	EPA 8270D	4.20E+03	na	1.00E+04	na	na	na	na
1,3-Dichlorobenzene	541-73-1	EPA 8270D	na	na	na	na	na	na	na
1,4-Dichlorobenzene	106-46-7	EPA 8270D	3.30E+03	2.20E+01	8.20E+03	5.40E+02	na	na	na
1,4-Dioxane	123-91-1	EPA 8270D	na	na	na	na	na	na	na
2,4,5-Trichlorophenol	na	EPA 8270D	na	na	na	na	na	na	na
2,4,6-Trichlorophenol	na	EPA 8270D	1.70E+01	3.90E+00	4.30E+01	9.80E+01	na	na	na
2,4-Dichlorophenol	120-83-2	EPA 8270D	1.90E+02	na	4.80E+02	na	na	na	na
2,4-Dimethylphenol	105-67-9	EPA 8270D	5.50E+02	na	1.40E+03	na	na	na	na
2,4-Dinitrophenol	51-28-5	EPA 8270D	3.50E+03	na	8.60E+03	na	na	na	na
2,4-Dinitrotoluene	121-14-2	EPA 8270D	1.40E+03	5.50E+00	3.40E+03	1.40E+02	na	na	na
2,6-Dinitrotoluene	606-20-2	EPA 8270D	na	na	na	na	na	na	na
2-Chloronaphthalene (beta-chloronaphthalene)	91-58-7	EPA 8270D	1.00E+03	na	2.60E+03	na	na	na	na
2-Chlorophenol	95-57-8	EPA 8270D	9.70E+01	na	2.40E+02	na	na	na	na
2-Methylphenol (o-Cresol)	95-48-7	EPA 8270D	na	na	na	na	na	na	na
2-Nitroaniline	88-74-4	EPA 8270D	na	na	na	na	na	na	na
2-Nitrophenol	88-75-5	EPA 8270D	na	na	na	na	na	na	na
4,6-Dinitro-2-methylphenol	534-52-1	EPA 8270D	na	na	na	na	na	na	na
4-Bromophenyl phenyl ether	101-55-3	EPA 8270D	na	na	na	na	na	na	na
4-Chloro-3-methylphenol (chlorocresol)	59-50-7	EPA 8270D	na	na	na	na	na	na	na
4-Chloroaniline (chloroaniline;p-)	106-47-8	EPA 8270D	na	na	na	na	na	na	na
4-Chlorophenyl phenyl ether	7005-72-3	EPA 8270D	na	na	na	na	na	na	na
4-Methylphenol (p-Cresol)	106-44-5	EPA 8270D	na	na	na	na	na	na	na
Benzyl alcohol	100-51-6	EPA 8270D	na	na	na	na	na	na	na
Bis(2-chloroethoxy)methane	111-91-1	EPA 8270D	na	na	na	na	na	na	na
Bis(2-chloroethyl)ether	111-44-4	EPA 8270D	na	8.50E-01	na	2.10E+01	na	na	na
Bis/Di(2-ethylhexyl) phthalate	117-81-7	EPA 8270D	4.00E+02	3.60E+00	1.00E+03	8.90E+01	na	na	na
bis/Di(2-Ethylhexyl)adipate	na	EPA 8270D	na	na	na	na	na	na	na
Butyl benzyl phthalate	85-68-7	EPA 8270D	1.30E+03	8.20E+00	3.10E+03	2.10E+02	na	na	na

TABLE 6-1
Stormwater Screening Levels and Contaminants of Potential Concern
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Chemical	Surface Water Aquatic Life Marine/Chronic 173-201A WAC (µg/L)	Surface Water Aquatic Life Marine/Chronic NTR 40 CFR 131 (µg/L)	Surface Water Aquatic Life Marine/Chronic CWA §304 (µg/L)	Surface Water Human Health Marine Waters 173-201A WAC (µg/L)	Surface Water Human Health Marine Waters NTR 40 CFR 131 (µg/L)	Surface Water Human Health Marine Waters CWA §304 (µg/L)	Stormwater Screening Level (ug/L)
Chemical	**SW_AqL_MChr_201A_ug/L**	**SW_AqL_MChr_NTR_131_ug/L**	**SW_AqL_MChr_304_ug/L**	**SW_HH_Org_201A_ug/L**	**SW_HH_NTR_Org_131_ug/L**	**SW_HH_304_Org_ug/L**	
VOCs							
Dibromochloromethane (chlorodibromomethane)	na	na	na	3.00E+00	2.20E+00	2.10E+01	2.20E+00
Dibromomethane (methylene bromide)	na	na	na	na	na	na	na
Dichlorobromomethane	na	na	na	3.60E+00	2.80E+00	2.70E+01	2.80E+00
Dichlorodifluoromethane (CFC-12)	na	na	na	na	na	na	na
Ethylbenzene	na	na	na	2.70E+02	3.10E+01	1.30E+02	3.10E+01
Ethylene dibromide (EDB)	na	na	na	na	na	na	na
Isopropylbenzene (Cumene)	na	na	na	na	na	na	na
m,p-Xylene	na	na	na	na	na	na	na
Methyl ethyl ketone (2-Butanone, MEK)	na	na	na	na	na	na	na
Methyl isobutyl ketone (MIBK)	na	na	na	na	na	na	na
Methyl tert-butyl ether (MTBE)	na	na	na	na	na	na	na
Methylene chloride	na	na	na	2.50E+02	1.00E+02	1.00E+03	1.00E+02
n-Butylbenzene	na	na	na	na	na	na	na
n-Propylbenzene	na	na	na	na	na	na	na
o-Xylene	na	na	na	na	na	na	na
Pentachloroethane	na	na	na	na	na	na	na
sec-Butylbenzene	na	na	na	na	na	na	na
Styrene	na	na	na	na	na	na	na
tert-Butylbenzene	na	na	na	na	na	na	na
Tetrachloroethylene (PCE)	na	na	na	7.10E+00	2.90E+00	2.90E+01	2.90E+00
Toluene	na	na	na	4.10E+02	1.30E+02	5.20E+02	1.30E+02
Total xylenes	na	na	na	na	na	na	na
trans-1,2-Dichloroethylene	na	na	na	5.80E+03	1.00E+03	4.00E+03	1.00E+03
trans-1,3-Dichloropropene	na	na	na	2.00E+00	1.20E+00	1.20E+01	1.20E+00
Trichloroethylene (TCE)	na	na	na	8.60E-01	7.00E-01	7.00E+00	7.00E-01
Trichlorofluoroethane	na	na	na	na	na	na	na
Vinyl acetate	na	na	na	na	na	na	na
Vinyl chloride	na	na	na	0.26	0.18	1.6	1.80E-01
SVOCs							
1,2-Dichlorobenzene	na	na	na	2.50E+03	8.00E+02	3.00E+03	8.00E+02
1,3-Dichlorobenzene	na	na	na	1.60E+01	2.00E+00	1.00E+01	2.00E+00
1,4-Dichlorobenzene	na	na	na	5.80E+02	2.00E+02	9.00E+02	2.00E+02
1,4-Dioxane	na	na	na	na	na	na	na
2,4,5-Trichlorophenol	na	na	na	na	na	6.00E+02	6.00E+02
2,4,6-Trichlorophenol	na	na	na	2.80E-01	2.80E-01	2.80E+00	2.80E-01
2,4-Dichlorophenol	na	na	na	3.40E+01	1.00E+01	6.00E+01	1.00E+01
2,4-Dimethylphenol	na	na	na	9.70E+01	9.70E+01	3.00E+03	9.70E+01
2,4-Dinitrophenol	na	na	na	6.10E+02	1.00E+02	3.00E+02	1.00E+02
2,4-Dinitrotoluene	na	na	na	1.80E-01	1.80E-01	1.70E+00	1.80E-01
2,6-Dinitrotoluene	na	na	na	na	na	na	na
2-Chloronaphthalene (beta-chloronaphthalene)	na	na	na	1.80E+02	1.00E+02	1.00E+03	1.00E+02
2-Chlorophenol	na	na	na	1.70E+01	1.70E+01	na	1.70E+01
2-Methylphenol (o-Cresol)	na	na	na	na	na	na	na
2-Nitroaniline	na	na	na	na	na	na	na
2-Nitrophenol	na	na	na	na	na	na	na
4,6-Dinitro-2-methylphenol	na	na	na	2.50E+01	7.00E+00	3.00E+01	7.00E+00
4-Bromophenyl phenyl ether	na	na	na	na	na	na	na
4-Chloro-3-methylphenol (chlorocresol)	na	na	na	3.60E+01	3.60E+01	2.00E+03	3.60E+01
4-Chloroaniline (chloroaniline;p-)	na	na	na	na	na	na	na
4-Chlorophenyl phenyl ether	na	na	na	na	na	na	na
4-Methylphenol (p-Cresol)	na	na	na	na	na	na	na
Benzyl alcohol	na	na	na	na	na	na	na
Bis(2-chloroethoxy)methane	na	na	na	na	na	na	na
Bis(2-chloroethyl)ether	na	na	na	6.00E-02	6.00E-02	2.20E+00	6.00E-02
Bis/Di(2-ethylhexyl) phthalate	na	na	na	2.50E-01	4.60E-02	3.70E-01	4.60E-02
bis/Di(2-Ethylhexyl)adipate	na	na	na	na	na	na	na
Butyl benzyl phthalate	na	na	na	5.80E-01	1.30E-02	1.00E-01	1.30E-02

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Stormwater Screening Levels and Contaminants of Potential Concern
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Chemical	MDL Used as Reporting Limit (2)	No. of Analyses	Number of Detections	Highest Recorded Stormwater Water Concentation at DMC (ug/L)	Location with Highest Concentration	Detections Above CUL	Exceedance Factor for Highest Concentrations	Preliminary Stormwater COPC List Based on Surface Water CUL	Final Stormwater COPC List Exceedence Factor > 2 and Total Detections Over CUL > 2, **OR** Exceedance Factor >10
Chemical									
VOCs									
Dibromochloromethane (chlorodibromomethane)		6	0	---	---	0			
Dibromomethane (methylene bromide)		6	0	---	---	0			
Dichlorobromomethane		6	0	---	---	0			
Dichlorodifluoromethane (CFC-12)		6	0	---	---	0			
Ethylbenzene		6	0	---	---	0			
Ethylene dibromide (EDB)	X	6	0	---	---	0			
Isopropylbenzene (Cumene)		6	0	---	---	0			
m,p-Xylene		6	0	---	---	0			
Methyl ethyl ketone (2-Butanone, MEK)		4	1	2.66E+01	Outfall 1	0			
Methyl isobutyl ketone (MIBK)		6	0	---	---	0			
Methyl tert-butyl ether (MTBE)		6	0	---	---	0			
Methylene chloride		6	0	---	---	0			
n-Butylbenzene		6	0	---	---	0			
n-Propylbenzene		6	0	---	---	0			
o-Xylene		6	0	---	---	0			
Pentachloroethane		6	0	---	---	0			
sec-Butylbenzene		6	0	---	---	0			
Styrene		6	1	2.49E+00	Outfall 1	0			
tert-Butylbenzene		6	0	---	---	0			
Tetrachloroethylene (PCE)		6	0	---	---	0			
Toluene		6	0	---	---	0			
Total xylenes		6	0	---	---	0			
trans-1,2-Dichloroethylene		6	0	---	---	0			
trans-1,3-Dichloropropene		6	0	---	---	0			
Trichloroethylene (TCE)		6	0	---	---	0			
Trichlorofluoroethane		6	0	---	---	0			
Vinyl acetate		6	0	---	---	0			
Vinyl chloride		6	0	---	---	0			
SVOCs									
1,2-Dichlorobenzene		6	0	---	---	0			
1,3-Dichlorobenzene		6	0	---	---	0			
1,4-Dichlorobenzene		6	0	---	---	0			
1,4-Dioxane		6	0	---	---	0			
2,4,5-Trichlorophenol		6	0	---	---	0			
2,4,6-Trichlorophenol		6	0	---	---	0			
2,4-Dichlorophenol		6	0	---	---	0			
2,4-Dimethylphenol		6	0	---	---	0			
2,4-Dinitrophenol		6	0	---	---	0			
2,4-Dinitrotoluene		5	0	---	---	0			
2,6-Dinitrotoluene		5	2	5.50E-01	Outfall 1	0			
2-Chloronaphthalene (beta-chloronaphthalene)		6	0	---	---	0			
2-Chlorophenol		6	0	---	---	0			
2-Methylphenol (o-Cresol)		6	0	---	---	0			
2-Nitroaniline		6	0	---	---	0			
2-Nitrophenol		6	0	---	---	0			
4,6-Dinitro-2-methylphenol		6	0	---	---	0			
4-Bromophenyl phenyl ether		6	0	---	---	0			
4-Chloro-3-methylphenol (chlorocresol)		6	0	---	---	0			
4-Chloroaniline (chloroaniline;p-)		6	0	---	---	0			
4-Chlorophenyl phenyl ether		6	0	---	---	0			
4-Methylphenol (p-Cresol)		6	0	---	---	0			
Benzyl alcohol		5	0	---	---	0			
Bis(2-chloroethoxy)methane		6	0	---	---	0			
Bis(2-chloroethyl)ether		5	0	---	---	0			
Bis/Di(2-ethylhexyl) phthalate	X	5	2	4.83E-01	Outfall 1	**2**	**10**	Bis/Di(2-ethylhexyl) phthalate	Bis/Di(2-ethylhexyl) phthalate
bis/Di(2-Ethylhexyl)adipate		5	1	3.63E+01	Outfall 1	0			
Butyl benzyl phthalate	X	6	0	---	---	0			

TABLE 6-1
Stormwater Screening Levels and
Contaminants of Potential Concern
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Chemical	CAS No.	FAI Method	Surface Water (1) Method B Non cancer (µg/L)	Surface Water (1) Method B Cancer (µg/L)	Surface Water (1) Method C Non cancer (µg/L)	Surface Water (1) Method C Cancer (µg/L)	Surface Water Aquatic Life Marine/Acute 173-201A WAC (µg/L)	Surface Water Aquatic Life Marine/Acute NTR 40 CFR 131 (µg/L)	Surface Water Aquatic Life Marine/Acute CWA §304 (µg/L)
Chemical	**CAS**		**SW_B_Non-Canc_ug/L**	**SW_B_Canc_ug/L**	**SW_C_Non-Canc_ug/L**	**SW_C_Canc_ug/L**	**SW_AqL_MAc_201A_ug/L**	**SW_AqL_MAc_NTR_131_ug/L**	**SW_AqL_MAc_304_ug/L**
SVOCs									
Carbazole	86-74-8	EPA 8270D	na	na	na	na	na	na	na
Dibutyl phthalate (Di -n-butylphthalate)	84-74-2	EPA 8270D	2.90E+03	na	7.30E+03	na	na	na	na
Diethyl phthalate (phthalic acid)	84-66-2	EPA 8270D	na	na	na	na	na	na	na
Dimethyl phthalate	131-11-3	EPA 8270D	na	na	na	na	na	na	na
Di-n-octyl phthalate	117-84-0	EPA 8270D	na	na	na	na	na	na	na
Hexachlorobenzene	118-74-1	EPA 8270D	2.40E-01	4.70E-04	6.00E-01	1.20E-02	na	na	na
Hexachlorobutadiene	87-68-3	EPA 8270D	9.30E+02	3.00E+01	2.30E+03	7.50E+02	na	na	na
Hexachlorocyclopentadiene	77-47-4	EPA 8270D	3.60E+03	na	9.00E+03	na	na	na	na
Hexachloroethane	67-72-1	EPA 8270D	2.10E+01	1.90E+00	5.20E+01	4.70E+01	na	na	na
Isophorone	78-59-1	EPA 8270D	1.20E+05	1.60E+03	3.00E+05	3.90E+04	na	na	na
Nitrobenzene	98-95-3	EPA 8270D	1.80E+03	na	4.50E+03	na	na	na	na
n-Nitrosodimethylamine	135-98-8	EPA 8270D	7.98E+02	4.89E+00	1.99E+03	1.22E+02	na	na	na
n-Nitrosodi-n-propylamine	621-64-7	EPA 8270D	na	8.20E-01	na	2.00E+01	na	na	na
Pentachlorophenol	87-86-5	EPA 8270D	1.20E+03	1.50E+00	2.90E+03	3.70E+01	1.30E+01	1.30E+01	1.30E+01
Phenol	108-95-2	EPA 8270D	5.60E+05	na	1.40E+06	na	na	na	na
PAHs									
1-Methylnaphthalene	90-12-0	EPA 8270D SIM	na	na	na	na	na	na	na
2-Methylnaphthalene	91-57-6	EPA 8270D SIM	na	na	na	na	na	na	na
Acenaphthene	83-32-9	EPA 8270D SIM	6.40E+02	na	1.60E+03	na	na	na	na
Acenaphthylene	208-96-8	EPA 8270D SIM	na	na	na	na	na	na	na
Anthracene	120-12-7	EPA 8270D SIM	2.60E+04	na	6.50E+04	na	na	na	na
Benzo(a)anthracene	56-55-3	EPA 8270D SIM	na	na	na	na	na	na	na
Benzo(a)pyrene	50-32-8	EPA 8270D SIM	2.60E+01	2.20E-01	6.50E+01	5.40E+00	na	na	na
Benzo(b)fluoranthene	205-99-2	EPA 8270D SIM	na	na	na	na	na	na	na
Benzo(g,h,i)perylene	191-24-2	EPA 8270D SIM	na	na	na	na	na	na	na
Benzo(k)fluoranthene	207-08-9	EPA 8270D SIM	na	na	na	na	na	na	na
Chrysene	218-01-9	EPA 8270D SIM	na	na	na	na	na	na	na
Dibenz(a,h)anthracene	53-70-3	EPA 8270D SIM	na	na	na	na	na	na	na
Dibenzofuran	132-64-9	EPA 8270D SIM	na	na	na	na	na	na	na
Fluoranthene	206-44-0	EPA 8270D SIM	9.00E+01	na	2.30E+02	na	na	na	na
Fluorene	86-73-7	EPA 8270D SIM	3.50E+03	na	8.60E+03	na	na	na	na
Indeno(1,2,3-cd)pyrene	193-39-5	EPA 8270D SIM	na	na	na	na	na	na	na
Naphthalene**	91-20-3	EPA 8270D SIM	4.90E+03	na	1.20E+04	na	na	na	na
Phenanthrene	85-01-8	EPA 8270D SIM	na	na	na	na	na	na	na
Pyrene	129-00-0	EPA 8270D SIM	na	2.60E+03	na	6.50E+03	na	na	na
Tins									
Tributyltin	36643-28-4	Krone 1988	na	na	na	na	na	na	4.20E-01
Dioxins/Furans									
TCDD; 2,3,7,8 (dioxin)	1746016	EPA 1613B	3.60E-07	1.00E-08	9.10E-07	2.50E-07	na	na	na
TPH									
Gasoline range organics without benzene (3)	J	NWTPH-Gx	1.00E+03	na	na	na	na	na	na
Diesel range organics (3)	K	NWTPH-Dx	5.00E+02	na	na	na	na	na	na
Oil range organics (Lube Oil) (3)	L	NWTPH-Dx	5.00E+02	na	na	na	na	na	na

Notes:

(1) MTCA Method B and C Only Used if Non-Potable Surface-Water Screening Levels were not Available.

(2) Laboratory Reported Results to the Method Detection Limit (MDL) for One or More Sampling Events. See Summary Tables for Reporting Limits.

(3) Method A Cleanup Levels used for Petroleum Hydrocarbon Contaminants

TCDD Yellow Highlight Indicates that Contaminant Was Not Included in Analysis

na Cleanup/Permit Level Not Available

** Naphthalene analyzed by methods 8270D SIM and 8260C

NTR National Toxics Rule
CFR Code of Federal Regulations
WAC Washington Administrative Code
CWA Clean Water Act

TABLE 6-1
Stormwater Screening Levels and Contaminants of Potential Concern
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Chemical	Surface Water Aquatic Life Marine/Chronic 173-201A WAC (µg/L)	Surface Water Aquatic Life Marine/Chronic NTR 40 CFR 131 (µg/L)	Surface Water Aquatic Life Marine/Chronic CWA §304 (µg/L)	Surface Water Human Health Marine Waters 173-201A WAC (µg/L)	Surface Water Human Health Marine Waters NTR 40 CFR 131 (µg/L)	Surface Water Human Health Marine Waters CWA §304 (µg/L)	Stormwater Screening Level (ug/L)
Chemical	**SW_AqL_MChr_201A_ug/L**	**SW_AqL_MChr_NTR_131_ug/L**	**SW_AqL_MChr_304_ug/L**	**SW_HH_Org_201A_ug/L**	**SW_HH_NTR_Org_131_ug/L**	**SW_HH_304_Org_ug/L**	
SVOCs							
Carbazole	na	na	na	na	na	na	na
Dibutyl phthalate (Di -n-butylphthalate)	na	na	na	5.10E+02	8.00E+00	3.00E+01	8.00E+00
Diethyl phthalate (phthalic acid)	na	na	na	na	na	na	na
Dimethyl phthalate	na	na	na	1.30E+05	6.00E+02	2.00E+03	6.00E+02
Di-n-octyl phthalate	na	na	na	na	na	na	na
Hexachlorobenzene	na	na	na	5.20E-05	5.00E-06	7.90E-05	5.00E-06
Hexachlorobutadiene	na	na	na	4.10E+00	1.00E-02	1.00E-02	1.00E-02
Hexachlorocyclopentadiene	na	na	na	6.30E+02	1.00E+00	4.00E+00	1.00E+00
Hexachloroethane	na	na	na	1.30E-01	2.00E-02	1.00E-01	2.00E-02
Isophorone	na	na	na	1.10E+02	1.10E+02	1.80E+03	1.10E+02
Nitrobenzene	na	na	na	3.20E+02	1.00E+02	6.00E+02	1.00E+02
n-Nitrosodimethylamine	na	na	na	na	8.10E+00	3.00E+00	3.00E+00
n-Nitrosodi-n-propylamine	na	na	na	5.80E-02	5.80E-02	5.10E-01	5.80E-02
Pentachlorophenol	7.90E+00	7.90E+00	7.90E+00	1.00E-01	2.00E-03	4.00E-02	2.00E-03
Phenol	na	na	na	2.00E+05	7.00E+04	3.00E+05	7.00E+04
PAHs							
1-Methylnaphthalene	na	na	na	na	na	na	na
2-Methylnaphthalene	na	na	na	na	na	na	na
Acenaphthene	na	na	na	1.10E+02	3.00E+01	9.00E+01	3.00E+01
Acenaphthylene	na	na	na	na	na	na	na
Anthracene	na	na	na	4.60E+03	1.00E+02	4.00E+02	1.00E+02
Benzo(a)anthracene	na	na	na	2.10E-02	1.60E-04	1.30E-03	1.60E-04
Benzo(a)pyrene	na	na	na	2.10E-03	1.60E-05	1.30E-04	1.60E-05
Benzo(b)fluoranthene	na	na	na	2.10E-02	1.60E-04	1.30E-03	1.60E-04
Benzo(g,h,i)perylene	na	na	na	na	na	na	na
Benzo(k)fluoranthene	na	na	na	2.10E-01	1.60E-03	1.30E-02	1.60E-03
Chrysene	na	na	na	2.10E+00	1.60E-02	1.30E-01	1.60E-02
Dibenz(a,h)anthracene	na	na	na	2.10E-03	1.60E-05	1.30E-04	1.60E-05
Dibenzofuran	na	na	na	na	na	na	na
Fluoranthene	na	na	na	1.60E+01	6.00E+00	2.00E+01	6.00E+00
Fluorene	na	na	na	6.10E+02	1.00E+01	7.00E+01	1.00E+01
Indeno(1,2,3-cd)pyrene	na	na	na	2.10E-02	1.60E-04	1.30E-03	1.60E-04
Naphthalene**	na	na	na	na	na	na	4.90E+03
Phenanthrene	na	na	na	na	na	na	na
Pyrene	na	na	na	na	4.60E+02	8.00E+00	8.00E+00
Tins							
Tributyltin	na	na	7.40E-03	na	na	na	7.40E-03
Dioxins/Furans							
TCDD; 2,3,7,8 (dioxin)	na	na	na	6.40E-08	1.40E-08	5.10E-09	5.10E-09
TPH							
Gasoline range organics without benzene (3)	na	na	na	na	na	na	1.00E+03
Diesel range organics (3)	na	na	na	na	na	na	5.00E+02
Oil range organics (Lube Oil) (3)	na	na	na	na	na	na	5.00E+02

Notes:

(1) MTCA Method B and C Only Used if Non-Potable Surface-Water Screening Levels were not Available.

(2) Laboratory Reported Results to the Method Detection Limit (MDL) for One or More Sampling Events. See Summary Tables for Reporting Limits.

(3) Method A Cleanup Levels used for Petroleum Hydrocarbon Contaminants

TCDD Yellow Highlight Indicates that Contaminant Was Not Included in Analysis

na Cleanup/Permit Level Not Available

** Naphthalene analyzed by methods 8270D SIM and 8260C

NTR National Toxics Rule

CFR Code of Federal Regulations

WAC Washington Administrative Code

CWA Clean Water Act

TABLE 6-1
Stormwater Screening Levels and Contaminants of Potential Concern
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Chemical	MDL Used as Reporting Limit (2)	No. of Analyses	Number of Detections	Highest Recorded Stormwater Water Concentation at DMC (ug/L)	Location with Highest Concentration	Detections Above CUL	Exceedance Factor for Highest Concentrations	Preliminary Stormwater COPC List Based on Surface Water CUL	Final Stormwater COPC List Exceedence Factor > 2 and Total Detections Over CUL > 2, **OR** Exceedance Factor >10
Chemical									
SVOCs									
Carbazole		6	0	---	---	0			
Dibutyl phthalate (Di -n-butylphthalate)		6	0	---	---	0			
Diethyl phthalate (phthalic acid)		5	0	---	---	0			
Dimethyl phthalate		6	0	---	---	0			
Di-n-octyl phthalate		5	0	---	---	0			
Hexachlorobenzene		5	0	---	---	0			
Hexachlorobutadiene		6	0	---	---	0			
Hexachlorocyclopentadiene		6	0	---	---	0			
Hexachloroethane		6	0	---	---	0			
Isophorone		6	0	---	---	0			
Nitrobenzene		6	0	---	---	0			
n-Nitrosodimethylamine		1	0	---	---	0			
n-Nitrosodi-n-propylamine		5	0	---	---	0			
Pentachlorophenol	X	6	4	3.60E+00	Outfall 1	**3**	**1,800**	Pentachlorophenol	Pentachlorophenol
Phenol		6	0	---	---	0			
PAHs									
1-Methylnaphthalene		6	1	3.64E-03	Outfall 1	0			
2-Methylnaphthalene		6	2	1.00E-01	Outfall 1	0			
Acenaphthene		6	2	1.00E-01	Outfall 1	0			
Acenaphthylene	X	6	1	4.74E-03	Outfall 1	0			
Anthracene		6	2	1.60E-01	Outfall 1	0			
Benzo(a)anthracene	X	6	4	1.80E-01	Outfall 1	**4**	**1,124**	Benzo(a)anthracene	Benzo(a)anthracene
Benzo(a)pyrene	X	6	1	7.61E-03	Outfall 1	**1**	**475**	Benzo(a)pyrene	Benzo(a)pyrene
Benzo(b)fluoranthene	X	6	2	2.10E-01	Outfall 1	**2**	**1,312**	Benzo(b)fluoranthene	Benzo(b)fluoranthene
Benzo(g,h,i)perylene	X	6	0	---	---	0			
Benzo(k)fluoranthene	X	6	1	8.26E-03	Outfall 1	**1**	**5**	Benzo(k)fluoranthene	
Chrysene	X	6	2	2.10E-01	Outfall 1	**2**	**13**	Chrysene	Chrysene
Dibenz(a,h)anthracene	X	6	1	7.31E-04	Outfall 1	**1**	**45**	Dibenz(a,h)anthracene	Dibenz(a,h)anthracene
Dibenzofuran		6	0	---	---	0			
Fluoranthene		6	3	2.90E-01	Outfall 1	0			
Fluorene		6	2	1.30E-01	Outfall 1	0			
Indeno(1,2,3-cd)pyrene	X	6	2	9.50E-02	Outfall 1	**2**	**593**	Indeno(1,2,3-cd)pyrene	Indeno(1,2,3-cd)pyrene
Naphthalene**		6	2	5.29E-03	Outfall 1	0			
Phenanthrene		6	3	2.70E-01	Outfall 1	0			
Pyrene	X	6	3	3.30E-01	Outfall 1	0			
Tins									
Tributyltin		0	---	---	---	---			
Dioxins/Furans									
TCDD; 2,3,7,8 (dioxin)		2	0	---	---	0			
TPH									
Gasoline range organics without benzene (3)		6	1	6.72E+01	Outfall 1	0			
Diesel range organics (3)		6	0	---	---	---			
Oil range organics (Lube Oil) (3)		6	4	3.95E+02	Outfall 1	0			

Notes:

(1) MTCA Method B and C Only Used if Non-Potable Surface-Water Screening Levels were not Available.

(2) Laboratory Reported Results to the Method Detection Limit (MDL) for One or More Sampling Events. See Summary Tables for Reporting Limits.

(3) Method A Cleanup Levels used for Petroleum Hydrocarbon Contaminants

TCDD Yellow Highlight Indicates that Contaminant Was Not Included in Analysis

na Cleanup/Permit Level Not Available

** Naphthalene analyzed by methods 8270D SIM and 8260C

NTR National Toxics Rule
CFR Code of Federal Regulations
WAC Washington Administrative Code
CWA Clean Water Act

TABLE 6-1a
Preliminary List of Stormwater Contaminants of Potential Concern
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Stormwater COPC	Cleanup Level Basis	Lowest Cleanup Level, ug/L
Arsenic	MTCA Method B, Cancer	9.80E-02
Copper	WAC 173-201A, Aquatic Life, Marine	3.10E+00
Mercury	WAC 173-201A, Aquatic Life, Marine	2.50E-02
Nickel	WAC 173-201A, Aquatic Life, Marine	8.20E+00
Total PCB Congeners	NTR 40 CFR 131, Human Health, Marine	7.00E-06
Bis(2-ethylhexyl)phthalate	NTR 40 CFR 131, Human Health, Marine	4.60E-02
Pentachlorophenol	NTR 40 CFR 131, Human Health, Marine	2.00E-03
Benzo(a)anthracene	NTR 40 CFR 131, Human Health, Marine	1.60E-04
Benzo(a)pyrene	NTR 40 CFR 131, Human Health, Marine	1.60E-05
Benzo(b)fluoranthene	NTR 40 CFR 131, Human Health, Marine	1.60E-04
Chrysene	NTR 40 CFR 131, Human Health, Marine	1.60E-02
Indeno(1,2,3-cd)pyrene	NTR 40 CFR 131, Human Health, Marine	1.60E-04
Dibenzo(a,h)anthracene	NTR 40 CFR 131, Human Health, Marine	1.60E-05

TABLE 6-2
Stormwater Sample Analyses, Metals
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Antimony	Antimony, Dissolved	Arsenic	Arsenic, Dissolved	Barium	Barium, Dissolved	Beryllium	Beryllium, Dissolved	Cadmium	Cadmium, Dissolved	Chromium (III/VI)	Chromium (III/VI), Dissolved	Copper	Copper, Dissolved	Lead	Lead, Dissolved	Mercury	Mercury, Dissolved	Nickel	Nickel, Dissolved	Selenium	Selenium, Dissolved	Silver	Silver, Dissolved	Thallium	Thallium, Dissolved	Zinc	Zinc, Dissolved
Most Conservative Cleanup Levels (1)				90	90	0.140	0.140	na	na	270	270	8.8	8.8	240,000	240,000	3.1	3.1	8.1	8.1	0.025	0.025	8.2	8.2	71	71	1.9	1.9	0.27	0.27	81	81
(units in ug/L)																															
Outfall 1 (OUT1)	Ecology/NPDES	2/10/2015	ST-TS-01	**8.10**	---	**13.0**	---	---	---	**0.22 J**	---	**0.34 J**	---	**27.0**	---	**53.0**	---	**44.0**	---	**0.12 J**	---	**21.0**	---	**0.58 J**	---	**0.16 J**	---	<1.0	---	**160**	---
	Ecology/NPDES	2/10/2015	ST-FD-02 (dup)	**7.60**	---	**12.0**	---	---	---	**0.25 J**	---	**0.31 J**	---	**22.0**	---	**48.0**	---	**40.0**	---	**0.19 J**	---	**18.0**	---	**0.77 J**	---	**0.14 J**	---	<1.0	---	**150**	---
	Blue Environmental	9/3/2015	System	**1.48**	**1.74**	**1.55**	**1.44**	---	---	<0.200	<0.200	<0.200	<0.200	**1.48**	<0.500	**6.47**	**3.94**	**2.18**	<1.00	<0.100	<0.100	**1.64**	**0.77**	<1.00	**1.60**	<0.200	<0.200	<0.200	<0.200	**13.9**	<1.50
	Blue Environmental	10/7/2015	Outfall 1	**1.40**	**1.55**	**2.20**	**2.46**	---	---	<0.200	<0.200	<0.200	<0.200	**0.60**	<0.500	**5.20**	**3.38**	**2.38**	<1.00	<0.100	<0.100	**2.45**	**3.71**	<1.00	<1.00	<0.200	<0.200	<0.200	<0.200	**4.92**	**1.88**
	Blue Environmental	3/21/2016	Outfall 1	**1.83**	**1.49**	<1.00	<1.00	---	---	<0.200	<0.200	**0.0185 J**	<0.00300	**0.946**	<0.500	**2.60**	**1.16**	**1.01**	<1.00	**0.00366**	<0.000500	**0.879**	<0.500	<1.00	<1.00	<0.200	<0.200	<0.00200	<0.00200	**2.09**	<1.50
	Blue Environmental	4/24/2016	Outfall 1	**1.28**	**1.23**	**1.24**	**1.11**	**23.7**	**19.9**	<0.200	<0.200	<0.0900	<0.0900	**1.72**	<0.500	**5.30**	**2.51**	**2.71**	<1.00	**0.00231**	<0.000500	**1.47**	**0.560**	<1.00	<1.00	<0.200	<0.200	<0.0700	<0.0700	**20.0**	**1.72**
	Blue Environmental	10/4/2016	Outfall 1	<0.200	<0.200	**5.25**	**4.52**	**69.7**	**67.7**	<0.200	<0.200	<0.200	<0.200	**0.500J**	<0.0620	**7.80**	**0.552**	**2.86**	<1.00	**0.000627**	<0.000500	**10.8**	**2.24**	<1.00	<1.00	<0.200	<0.200	<0.200	<0.200	**4.06**	**1.95**
	Blue Environmental	2/3/2017	Outfall 1	**1.28**	**1.49**	<1.00	<1.00	**14.9**	**13.8**	<0.200	<0.200	<0.200	<0.200	**1.55**	**0.582**	**3.88**	**2.71**	<1.00	<1.00	**1.13**	<0.500	**0.9**	**0.0856**	<1.00	<1.00	<0.200	<0.200	<0.200	<0.200	**5.83**	**4.78**
Outfall 2 (OUT2)	Blue Environmental	9/3/2015	Outfall 2	**0.666**	**0.659**	**5.77**	**3.80**	---	---	<0.200	<0.200	**0.216**	<0.200	**7.88**	<0.500	**36.6**	**3.64**	**31.6**	<1.00	<0.100	<0.100	**8.57**	<0.500	**1.48**	**1.38**	<0.200	<0.200	<0.200	<0.200	**158**	**2.49**
	Blue Environmental	3/21/2016	Outfall 3*	**1.43**	**1.35**	**2.91**	**1.63**	---	---	<0.200	<0.200	**0.196 J**	**0.0340 J**	**5.36**	**0.834**	**23.8**	**7.56**	**19.1**	<1.00	**0.0209**	**0.00100**	**5.17**	**0.526**	<1.00	<1.00	<0.200	<0.200	**0.00200 J**	<0.00200	**71.9**	<1.50
	Blue Environmental	4/24/2016	Outfall 3*	**0.491**	**0.365**	**1.42**	<1.00	**21.4**	**14.9**	<0.200	<0.200	**0.0900**	<0.0900	**1.59**	**0.574**	**11.4**	**6.78**	**2.74**	<1.00	**0.00636**	**0.00120**	**1.12**	**0.536**	<1.00	<1.00	<0.200	<0.200	<0.700	<0.0700	**53.1**	**24.9**
	Blue Environmental	10/4/2016	Outfall 2	**1.25**	**0.926**	**2.65**	**1.52**	**37.5**	**20.6**	<0.200	<0.200	<0.200	<0.200	**4.70**	**0.961**	**20.3**	**8.40**	**8.10**	<1.00	**0.00856**	**0.000808**	**5.50**	**1.58**	<1.00	<1.00	<0.200	<0.200	<0.200	<0.200	**133**	**10.3**
	Blue Environmental	2/3/2017	Outfall 2	**1.28**	**0.438**	<1.00	<1.00	**14.9**	**16.8**	<0.200	<0.200	<0.200	<0.200	**1.55**	**0.270 J**	**3.88**	**2.65**	<1.00	<1.00	**14.4**	**0.857**	**0.90**	**0.500**	<1.00	<1.00	<0.200	<0.200	<0.200	<0.200	**5.83**	**4.78**
Pump Station (SWC1), Pretreatment (2)	Blue Environmental	9/3/2015	Sump	**1.39**	**1.63**	**6.76**	**4.02**	---	---	<0.200	<0.200	<0.200	<0.200	**2.91**	<0.500	**15.8**	**4.28**	**10.1**	<1.00	<0.100	<0.100	**8.28**	**3.18**	<1.00	**1.17**	<0.200	<0.200	<0.200	<0.200	**83.2**	**17.0**
	Blue Environmental	10/7/2015	Sump	**2.06**	**2.26**	**3.60**	**3.39**	---	---	<0.200	<0.200	<0.200	<0.200	**3.20**	<0.500	**23.1**	**13.4**	**9.52**	<1.00	<0.100	<0.100	**4.01**	**1.84**	<1.00	<1.00	<0.200	<0.200	<0.200	<0.200	**212**	**119**
Michigan Street CSO	King County	9/4/2007	L43790-1	---	---	**2.55**	---	---	---	---	---	**0.470 J**	---	**5.15**	---	**41.3**	---	**20.5**	---	**0.256**	---	**5.81**	---	---	---	---	**0.250 J**	---	---	---	**158**	---
	King County	9/30/2007	L43913-1	---	---	**1.40 J**	---	---	---	---	---	**0.22 J**	---	**2.10**	---	**14.9**	---	**13.6**	---	<0.05	---	**2.52**	---	---	---	---	<0.200	---	---	---	**88.3**	---
	King County	12/2/2007	L44133-1	---	---	**1.90 J**	---	---	---	---	---	**0.585**	---	**6.15**	---	**41.0**	---	**30.8**	---	<0.05	---	**6.72**	---	---	---	---	<0.200	---	---	---	**185**	---
	King County	8/19/2008	L45811-1	---	---	**2.92**	---	---	---	---	---	**1.05**	---	**8.05**	---	**76.3**	---	**49.9**	---	**0.11 J**	---	**9.77**	---	---	---	---	**0.396**	---	---	---	**244**	---
	King County	11/6/2008	L46918-1	---	---	**1.85**	---	---	---	---	---	**0.471**	---	**5.12**	---	**25.2**	---	**20.2**	---	**0.039**	---	**4.67**	---	---	---	---	**0.12 J**	---	---	---	**105**	---

Notes: Refer to site diagram(s) for sampling locations.

(1) See Table 6-1 for Details Regarding Groundwater Cleanup Levels and Screening Criteria.

(2) Does not discharge to surface. Results not compared to screening levels.

* Outfall 3 is a misnomer made by Blue Environmental, it is actually Outfall 2

na Cleanup Level Not Available

dup Blind Field Duplicate

--- Not Analyzed/No Data

nd Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified

<50.0 Not Detected at Specified Laboratory Reporting Limit

<49.9 Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level

250 Bold Number(s) Indicates Contaminant Detected.

1,440 Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level

1.70 Bold Number(s) and Purple Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level, but is Not a Final COPC

J Estimated Concentration, Analyte Detected Below Reporting Limit

TABLE 6-3
Stormwater Sample Analyses, Polychlorinated Biphenyls (PCBs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Aroclor1016	Aroclor1221	Aroclor1232	Aroclor1242	Aroclor1248	Aroclor1254	Aroclor1260	Aroclor1262	Aroclor1268	Total PCB Aroclors (2)	Total PCB Congeners (2)	PCB TEQ, nd SDL *0.5	PCB TEQ, nd SDL *1
Most Conservative Cleanup Levels (1)				0.003	na	na	na	na	0.003	0.003	na	na	0.000007	0.000007	na	na
(units in ug/L)																
Outfall 1 (OUT1)	Ecology/NPDES	2/10/2015	ST-TS-01	---	---	---	---	---	---	---	---	---	---	**0.140 J**	**5.79E-06 J**	**6.30E-06 J**
	Ecology/NPDES	2/10/2015	ST-FD-02 (dup)	---	---	---	---	---	---	---	---	---	---	**0.121 J**	**4.92E-06 J**	**5.25E-06 J**
	Blue Environmental	9/3/2015	System	<0.0999	<0.0999	<0.0999	<0.0999	<0.0999	<0.0999	<0.0999	<0.0999	<0.0999	<0.0999	---	---	---
	Blue Environmental	3/21/2016	Outfall 1	<0.00173	<0.00886	<0.00886	<0.00886	<0.00553	<0.000463	<0.00176	<0.00886	<0.00886	<0.00886	---	---	---
	Blue Environmental	4/24/2016	Outfall 1	<0.00156	<0.00799	<0.00799	<0.00799	<0.00499	<0.000418	<0.00159	<0.00799	<0.00799	<0.00799	---	---	---
	Blue Environmental	10/4/2016	Outfall 1	<0.00166	<0.00850	<0.00850	<0.00850	<0.00531	<0.000444	<0.00169	<0.00850	<0.00850	<0.00850	---	---	---
	Blue Environmental	2/3/2017	Outfall 1	<0.00155	<0.00155	<0.00155	<0.00155	<0.00155	<0.00155	<0.00158	<0.00158	<0.00158	<0.00158	---	---	---
Outfall 2 (OUT2)	Blue Environmental	9/3/2015	Outfall 2	<0.0997	<0.0997	<0.0997	<0.0997	<0.0997	<0.0997	<0.0997	<0.0997	<0.0997	<0.0997	---	---	---
	Blue Environmental	3/21/2016	Outfall 3*	<0.00155	<0.00797	<0.00797	<0.00797	<0.00498	<0.000417	<0.00158	<0.00797	<0.00797	<0.00797	---	---	---
	Blue Environmental	4/24/2016	Outfall 3*	<0.00155	<0.00795	<0.00795	<0.00795	<0.00497	<0.000415	<0.00158	<0.00795	<0.00795	<0.00795	---	---	---
	Blue Environmental	10/4/2016	Outfall 2	<0.00159	<0.00813	<0.00813	<0.00813	<0.00508	<0.000425	<0.00162	<0.00813	<0.00813	<0.00813	---	---	---
	Blue Environmental	2/3/2017	Outfall 2	<0.00155	<0.00155	<0.00155	<0.00155	<0.00155	<0.00155	<0.00158	<0.00158	<0.00158	<0.00158	---	---	---
Pump Station (SWC1), Pretreatment (3)	Blue Environmental	9/3/2015	Sump	<0.200 D	<0.200 D	<0.200 D	<0.200 D	<0.200 D	<0.200 D	<0.200 D	<0.200 D	<0.200 D	<0.200 D	---	---	---
Michigan Street CSO	King County	9/4/2007	L43790-1	---	---	---	---	---	---	---	---	---	---	---	---	---
	King County	9/30/2007	L43913-1	---	---	---	---	---	---	---	---	---	---	---	---	---
	King County	12/2/2007	L44133-1	---	---	---	---	---	---	---	---	---	---	---	---	---
	King County	8/19/2008	L45811-1	---	---	---	---	---	---	---	---	---	---	---	---	---
	King County	11/6/2008	L46918-1	---	---	---	---	---	---	---	---	---	---	---	---	---

Notes:

Refer to site diagram(s) for sampling locations.

(1) See Table 6-3 for Details Regarding Groundwater Cleanup Levels and Screening Criteria.

(2) Total PCBs Calculated by Summing the Detected PCBs

(3) Does not discharge to surface. Results not compared to screening levels.

* Outfall 3 is a misnomer made by Blue Environmental, it is actually Outfall 2

na Cleanup Level Not Available

dup Blind Field Duplicate

--- Not Analyzed/No Data

nd Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified

<50.0 Not Detected at Specified Laboratory Reporting Limit

<49.9 Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level

250 Bold Number(s) Indicates Contaminant Detected.

1,440 Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level

1.70 Bold Number(s) and Purple Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level, but is Not a Final COPC

D Dilution Required.

J Estimated Concentration, Analyte Detected Below Reporting Limit

TABLE 6-4
Stormwater Sample Analyses, Semivolatile Organic Compounds (SVOCs) and Polycyclic Aromatic Hydrocarbons (PAHs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	2,4,6-Trichlorophenol	Acenaphthylene	Acenaphthene	Anthracene	bis(2-Ethylhexyl)adipate	bis(2-Ethylhexyl)phthalate	bis(2-Chloroethyl) Ether	Diethylphthalate	Di-n-Butylphthalate	Di-n-Octylphthalate	2,6-Dinitrotoluene	Fluoranthene	Fluorene	Hexachlorobenzene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	N-Nitrosodimethylamine	N-Nitroso-Di-N-Propylamine	Pentachlorophenol	Phenanthrene	Pyrene	Other SVOCs (2)
Most Conservative Cleanup Levels (1)				0.28	na	30	100	na	0.046	0.06	na	8	na	na	6	10	5.00E-06	na	na	4,900	3	0.058	0.002	na	8	various
(units in ug/L)																										
Outfall 1 (OUT1)	Ecology/NPDES	2/10/2015	ST-TS-01	<2.8	<0.38	**0.10 J**	**0.16 J**	---	<14	<1.9	<0.82	<1.9	<1.9	**0.55 J**	**0.29**	**0.13 J**	<1.9	<0.29	**0.10 J**	<1.9	<9.5	<1.9	**3.50**	**0.27 J**	**0.33**	nd
	Ecology/NPDES	2/10/2015	ST-FD-02 (dup)	<2.8	<0.38	<0.38	**0.15 J**	---	<14	<1.9	<0.83	<1.9	<1.9	**0.55 J**	**0.30**	**0.099 J**	<1.9	<0.28	<0.95	<1.9	<9.5	<1.9	**3.60**	**0.23 J**	**0.31**	nd
	Blue Environmental	9/3/2015	System	<0.0171 H	<0.00698 H	<0.500 H	<0.0124 H	**36.3 H**	**0.483 JH**	<0.0161 H	<0.0381 H	<0.00339 H	<0.00659 H	**0.225 JH**	<0.0083 H	<0.0105 H	<0.0194 H	<0.500 H	<0.500 H	<0.00712 H	---	<0.0134 H	**1.96 JH**	**0.0958 JH**	<0.0105 H	nd
	Blue Environmental	3/21/2016	Outfall 1	---	<0.00242	<0.00210	<0.00823	---	---	---	---	---	---	---	**0.0108 J**	<0.00314	---	<0.00204	<0.00230	<1.00	---	---	<0.0344	<0.00648	**0.0199 J**	nd
	Blue Environmental	4/24/2016	Outfall 1	<1.99	**0.00474 J**	<0.00121	<0.00412	<0.996	<0.996	<1.99	<0.996	<0.996	<0.996	<0.996	**0.0293 J**	**0.0101 J**	<0.996	**0.00364 J**	**0.00490 J**	**0.00529 J**	---	<0.996	<0.0172	**0.0186 J**	**0.0246 J**	nd
	Blue Environmental	10/4/2016	Outfall 1	<2.01	<0.100	<0.100	<0.100	<1.00	<0.00700	<2.01	<1.00	<1.00	<1.00	<1.00	<0.100	<0.100	<1.00	<0.502	<0.502	<0.100	---	<1.00	<0.0345	<0.100	<0.100	nd
	Blue Environmental	2/3/2017	Outfall 1	<2.00	<0.00305	**0.00803**	**0.0155**	<0.999	**0.115**	<2.00	<0.999	<0.999	<0.999	<0.999	<0.00901	<0.00395	<0.999	<0.500	<0.500	**0.00331**	---	<0.999	**0.339**	<0.00816	<0.0118	nd
Outfall 2 (OUT2)	Blue Environmental	9/3/2015	Outfall 2	<0.0171 H	**0.0634 JH**	<0.500 H	**0.186 JH**	**1.02 H**	**0.733 JH**	<0.0161 H	<0.0381 H	**0.318 JH**	<0.00659 H	<0.0118 H	**0.258 JH**	**0.109 JH**	<0.0194 H	<0.500 H	<0.500 H	**0.0830 JH**	---	<0.0134 H	<0.109 H	**0.156 JH**	**0.225 JH**	nd
	Blue Environmental	3/21/2016	Outfall 3*	---	**0.00679 J**	**0.00737 J**	**0.0113 J**	---	---	---	---	---	---	---	**0.0775 J**	**0.0114 J**	---	**0.00557 J**	**0.00822 J**	<1.00	---	---	<0.0345	**0.0329 J**	**0.0740 J**	nd
	Blue Environmental	4/24/2016	Outfall 3*	<2.00	<0.00121	**0.00474 J**	<0.00412	<0.998	**5.96**	<2.00	<0.998	<0.998	<0.998	<0.998	**0.0263 J**	**0.00970 J**	<0.998	**0.00635 J**	**0.00341 J**	**0.00626 J**	---	<0.998	<0.0172	**0.0453 J**	**0.0155 J**	nd
	Blue Environmental	10/4/2016	Outfall 2	<1.99	<0.0995	<0.0995	<0.0995	<0.995	<0.00694	<1.99	<0.995	<0.995	<0.995	<0.995	<0.0995	<0.0995	<0.995	<0.497	<0.497	<0.0995	---	<0.995	**0.0426 J**	<0.995	<0.995	nd
	Blue Environmental	2/3/2017	Outfall 2	<1.98	**0.00650**	**0.00988**	<0.0103	<0.991	**3.42**	<1.98	<0.991	<0.991	<0.991	<0.991	**0.0727**	**0.0165**	<0.991	<0.495	<0.495	**0.0264 B**	---	<0.991	**0.0331 BJQ**	**0.0831**	**0.0686**	nd
Pump Station (SWC1), Pretreatment (3)	Blue Environmental	9/3/2015	Sump	<0.0171 H	**0.0843 JH**	<0.500 H	<0.0124 H	<0.0106 H	**3.31 H**	**0.325 JH**	**0.150 JH**	<0.00339 H	**4.12 H**	<0.0118 H	**0.205 JH**	<0.0105 H	<0.0194 H	<0.500 H	<0.500 H	<0.00712 H	---	<0.0134 H	**0.574 JH**	**0.116 JH**	<0.0105 H	nd
Michigan Street CSO	King County	9/4/2007	L43790-1	---	<0.01	<0.01	<0.01	**0.454 B**	**1.51**	---	**0.546**	**0.562 B**	<0.025	---	**0.0696**	<0.01	---	---	**0.0338**	**0.0371**	---	---	**0.626**	**0.0588**	<0.01	---
	King County	9/30/2007	L43913-1	---	<0.0094	<0.0094	<0.0094	**0.29**	**1.99 B**	---	**0.549**	**0.234 B**	<0.024	---	**0.0729**	<0.0094	---	---	**0.06**	**0.0542**	---	---	**0.371**	**0.0678**	**0.0649**	---
	King County	12/2/2007	L44133-1	---	<0.0094	**0.125**	**0.245**	**0.441 B**	**3.85 B**	---	**1.63**	**0.699 B**	**0.649**	---	**0.641**	**0.201**	---	---	**0.289**	**0.294**	---	---	**1.28 J**	**0.848**	**0.454**	---
	King County	8/19/2008	L45811-1	---	<0.0094	<0.0094	<0.0094	**0.486 B**	**2.87 B**	---	**0.698 B**	**0.283 B**	**0.918**	---	**0.111**	**0.14**	---	---	**0.252**	**0.11**	---	---	**0.16**	**0.168**	**0.118**	---
	King County	11/6/2008	L46918-1	---	<0.0094	**0.0687**	**0.024**	**0.257**	**1.05 B**	---	**0.483**	**0.163**	<0.024	---	**0.0877**	**0.0777**	---	---	**0.146**	**0.302**	---	---	**0.11**	**0.152**	**0.093**	---

Notes:
Refer to site diagram(s) for sampling locations.

(1) See Table 6-1 for Details Regarding Groundwater Cleanup Levels and Screening Criteria.

(2) Analytes Not Listed were Not Detected Above Laboratory Reporting Limits

(3) Does not discharge to surface. Results not compared to screening levels.

* Outfall 3 is a misnomer made by Blue Environmental, it is actually Outfall 2

na Cleanup Level Not Available

dup Blind Field Duplicate

--- Not Analyzed/No Data

nd Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified

<50.0 Not Detected at Specified Laboratory Reporting Limit

<49.9 Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level

250 Bold Number(s) Indicates Contaminant Detected.

1,440 Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level

1.70 Bold Number(s) and Purple Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level, but is Not a Final COPC

B Analyte Detected in Associated Method Blank

D Dilution Required.

H Holding Times for Preparation or Analysis Exceeded

J Estimated Concentration, Analyte Detected Below Reporting Limit

Q Analyte with Initial or Continuing Calibration that does not Meet Established Acceptance Criteria

TABLE 6-5
Stormwater Sample Analyses, Carcinogenic Polynuclear Aromatic Hydrocarbons (cPAHs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene
Most Conservative Cleanup Levels (1)				0.00016	0.016	0.00016	0.0016	0.000016	0.00016	0.000016
(units in ug/L)										
Outfall 1 (OUT1)	Ecology/NPDES	2/10/2015	ST-TS-01	**0.18 J**	**0.18 J**	**0.19 J**	<0.28	<0.19 J	<0.28	<0.28
	Ecology/NPDES	2/10/2015	ST-FD-02 (dup)	**0.18 J**	**0.21**	**0.17 J**	<0.28	<0.19 J	**0.095 J**	<0.28
	Blue Environmental	9/3/2015	System	<0.00487 H	<0.0106 H	<0.0187 H	<0.0144 H	<0.0126 H	<0.0125 H	<0.0116 H
	Blue Environmental	3/21/2016	Outfall 1	**0.0214 J**	<0.00643	<0.0216	<0.0121	<0.00956	<0.00710	<0.00273
	Blue Environmental	4/24/2016	Outfall 1	**0.00827 J**	**0.00740 J**	**0.0110 J**	**0.00826 J**	**0.00761 J**	**0.0131 J**	<0.00137
	Blue Environmental	10/4/2016	Outfall 1	<0.0160	<0.00646	<0.0217	<0.0122	<0.00961	<0.00713	<0.00275
	Blue Environmental	2/3/2017	Outfall 1	**0.00579 J**	<0.00162	<0.00544	<0.00305	<0.00241	<0.00179	**0.000731 J**
Outfall 2 (OUT2)	Blue Environmental	9/3/2015	Outfall 2	<0.00487 H	**0.151 JH**	<0.0187 H	<0.0144 H	<0.0126 H	<0.0125 H	<0.0116 H
	Blue Environmental	3/21/2016	Outfall 3*	**0.0429 J**	**0.0373 J**	**0.0653 J**	**0.0214 J**	**0.0280 J**	<0.00712	<0.00274
	Blue Environmental	4/24/2016	Outfall 3*	<0.00795	**0.00322 J**	**0.0130 J**	**0.0118 J**	**0.0133 J**	<0.00355	<0.00137
	Blue Environmental	10/4/2016	Outfall 2	<0.0158	**0.00882 J**	<0.0215	<0.0121	<0.00952	<0.00707	<0.00272
	Blue Environmental	2/3/2017	Outfall 2	**0.0184 J**	**0.0451**	**0.0457**	**0.0136 J**	**0.0173**	**0.0105**	**0.00721**
Pump Station (SWC1), Pretreatment (2)	Blue Environmental	9/3/2015	Sump	<0.00487 H	<0.0106 H	<0.0187 H	<0.0144 H	<0.0126 H	<0.0125 H	<0.0116 H
Michigan Street CSO	King County	9/4/2007	L43790-1	**0.0246**	**0.0394**	<0.01	<0.01	<0.01	<0.01	<0.01
	King County	9/30/2007	L43913-1	<0.0094	**0.0386**	**0.0389**	**0.0209**	<0.0094	<0.0094	<0.0094
	King County	12/2/2007	L44133-1	**0.271**	**0.24**	**0.151**	**0.225**	**0.27**	**0.147**	**0.0617**
	King County	8/19/2008	L45811-1	**0.0631**	**0.0987**	**0.0732**	**0.0711**	**0.058**	**0.0538**	<0.0094
	King County	11/6/2008	L46918-1	**0.0226**	**0.0452**	<0.0094	<0.0094	<0.0094	<0.0094	<0.0094

Notes:
Refer to site diagram(s) for sampling locations.
(1) See Table 6-1 for Details Regarding Groundwater Cleanup Levels and Screening Criteria.
(2) Does not discharge to surface. Results not compared to screening levels.
* Outfall 3 is a misnomer made by Blue Environmental, it is actually Outfall 2
na Cleanup Level Not Available
dup Blind Field Duplicate
--- Not Analyzed/No Data
nd Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified
<50.0 Not Detected at Specified Laboratory Reporting Limit
<49.9 Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level
250 Bold Number(s) Indicates Contaminant Detected.
1,440 Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level
1.70 Bold Number(s) and Purple Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level, but is Not a Final COPC
H Holding Times for Preparation or Analysis Exceeded
J Estimated Concentration, Analyte Detected Below Reporting Limit

TABLE 6-6
Stormwater Sample Analyses, Conventional Parameters and Petroleum Hydrocarbons
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Gasoline Range Organics (ug/L)	Diesel Range Organics (ug/L)	Heavy Oil Range Organics (ug/L)	pH	Turbidity (NTU)	Chloride (mg/L)	Total Suspended Solids (mg/L)
Most ConservativeCleanup Levels (1)				800(a)/1000(b)	500	500	na	na	na	na
(units in ug/L)										
Outfall 1 (OUT1)	Ecology/NPDES	2/10/2015	ST-TS-01	---	---	---	**8.35 J**	---	**390**	**580**
	Ecology/NPDES	2/10/2015	ST-FD-02 (dup)	---	---	---	**8.44 J**	---	**390**	**600**
	Blue Environmental	9/3/2015	System	<50.0	<49.9	**329**	**6.5**	**4.0**	**20.0**	<5.00
	Blue Environmental	10/7/2015	Outfall 1	<50.0	<49.9	**395**	---	---	**26.1**	<5.00
	Blue Environmental	3/21/2016	Outfall 1	**67.2**	<6.23	**79.5**	**8.2**	**3.0**	**22.7 D**	**7.00**
	Blue Environmental	4/24/2016	Outfall 1	<50.0	<3.11	**286**	**7.9**	**10.0**	**48.9 D**	**17.0**
	Blue Environmental	10/4/2016	Outfall 1	<50.0	<49.9	<99.9	---	---	**238 D**	<5.00
	Blue Environmental	2/3/2017	Outfall 1	<50.0	<50.2	<100	---	---	**70.3 D**	<5.00
Outfall 2 (OUT2)	Blue Environmental	9/3/2015	Outfall 2	<50.0	<49.9	<99.8	**6.4**	**156**	**157**	**81.0**
	Blue Environmental	3/21/2016	Outfall 3*	<50.0	**84.4**	**175**	**8.1**	**324**	**10.7**	**30.0**
	Blue Environmental	4/24/2016	Outfall 3*	<50.0	<3.11	**1,050**	**7.6**	**22**	**1.5**	**13.0**
	Blue Environmental	10/4/2016	Outfall 2	<50.0	**175**	**1,260**	---	---	**317 D**	**41.0**
	Blue Environmental	2/3/2017	Outfall 2	<50.0	<50.1	**2,630**	---	---	**3.7**	**195**
Pump Station (SWC1), Pretreatment (2)	Blue Environmental	9/3/2015	Sump	<50.0	**520**	**812**	**6.7**	**216**	**53.0**	**10.0**
	Blue Environmental	10/7/2015	Sump	<50.0	**172**	**545**	---	---	**6.01**	**6.00**
Michigan Street CSO	King County	9/4/2007	L43790-1	---	---	---	---	---	---	---
	King County	9/30/2007	L43913-1	---	---	---	---	---	---	---
	King County	12/2/2007	L44133-1	---	---	---	---	---	---	---
	King County	8/19/2008	L45811-1	---	---	---	---	---	**3.52**	---
	King County	11/6/2008	L46918-1	---	---	---	---	---	**34.2**	---

Notes:
Refer to site diagram(s) for sampling locations.
(1) See Table 6-1 for Details Regarding Groundwater Cleanup Levels and Screening Criteria.
(2) Does not discharge to surface water. Results not compared to screening levels.
(a) Groundwater Cleanup Level for Gasoline with no detectable benzene in groundwater.
(b) Groundwater Cleanup Level for Gasoline with detectable benzene in the groundwater.
* Outfall 3 is a misnomer made by Blue Environmental, it is actually Outfall 2
dup Blind Field Duplicate
--- Not Analyzed/No Data
nd Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified
<50.0 Not Detected at Specified Laboratory Reporting Limit
<49.9 Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level
250 Bold Number(s) Indicates Contaminant Detected.
1,440 Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level
1.70 Bold Number(s) and Purple Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level, but is Not a Final COPC
D Dilution Required

TABLE 6-6
Stormwater Sample Analyses, Conventional Parameters and Petroleum Hydrocarbons
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Gasoline Range Organics (ug/L)	Diesel Range Organics (ug/L)	Heavy Oil Range Organics (ug/L)	pH	Turbidity (NTU)	Chloride (mg/L)	Total Suspended Solids (mg/L)
Most ConservativeCleanup Levels (1)				800(a)/1000(b)	500	500	na	na	na	na

J Estimated Concentration, Analyte Detected Below Reporting Limit

TABLE 6-7
Stormwater Sample Analyses, Volatile Organic Compounds (VOCs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Acetone	Bromodichloromethane	(MEK) 2-Butanone	Chloroform	Dibromochloromethane	Styrene	Other VOCs (2)
Most Conservative Cleanup Levels (1)				na	na	na	56	2.20	na	various
(units in ug/L)										
Outfall 1 (OUT1)	Ecology/NPDES	2/10/2015	ST-TS-01	---	---	---	---	---	---	---
	Ecology/NPDES	2/10/2015	ST-FD-02 (dup)	---	---	---	---	---	---	---
	Blue Environmental	9/3/2015	System	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	nd
	Blue Environmental	10/7/2015	Outfall 1	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	nd
	Blue Environmental	3/21/2016	Outfall 1	**10.0**	<1.00	**26.6**	<1.00	<1.00	<1.00	nd
	Blue Environmental	4/24/2016	Outfall 1	<1.00	<1.00	<5.00	<1.00	<1.00	**2.49**	nd
	Blue Environmental	10/4/2016	Outfall 1	<5.00	<1.00	---	<1.00	<1.00	<1.00	nd
	Blue Environmental	2/3/2017	Outfall 1	**6.28**	<1.00	---	<1.00	<1.00	<1.00	nd
Outfall 2 (OUT2)	Blue Environmental	9/3/2015	Outfall 2	<1.00	**2.03**	<5.00	**4.75**	**1.53**	<1.00	nd
	Blue Environmental	3/21/2016	Outfall 3*	**5.79**	<1.00	<5.00	<1.00	<1.00	<1.00	nd
	Blue Environmental	4/24/2016	Outfall 3*	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	nd
	Blue Environmental	10/4/2016	Outfall 2	**9.14**	<1.00	---	<1.00	<1.00	<1.00	nd
	Blue Environmental	2/3/2017	Outfall 2	**11.6**	<1.00	---	<1.00	<1.00	<1.00	nd
Pump Station (SWC1), Pretreatment (3)	Blue Environmental	9/3/2015	Sump	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	nd
	Blue Environmental	10/7/2015	Sump	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	nd

TABLE 6-7
Stormwater Sample Analyses, Volatile Organic Compounds (VOCs)
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	Acetone	Bromodichloromethane	(MEK) 2-Butanone	Chloroform	Dibromochloromethane	Styrene	Other VOCs (2)
Most Conservative Cleanup Levels (1)				na	na	na	56	2.20	na	various
(units in ug/L)										
Michigan Street CSO	King County	9/4/2007	L43790-1	---	---	---	---	---	---	---
	King County	9/30/2007	L43913-1	---	---	---	---	---	---	---
	King County	12/2/2007	L44133-1	---	---	---	---	---	---	---
	King County	8/19/2008	L45811-1	---	---	---	---	---	---	---
	King County	11/6/2008	L46918-1	---	---	---	---	---	---	---

Notes:
(1) See Table 6-1 for Details Regarding Groundwater Cleanup Levels and Screening Criteria.
(2) Analytes Not Listed were Not Detected Above Laboratory Reporting Limits
(3) Does not discharge to surface. Results not compared to screening levels.
* Outfall 3 is a misnomer made by Blue Environmental, it is actually Outfall 2
na Cleanup Level Not Available
dup Blind Field Duplicate
--- Not Analyzed/No Data
nd Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified
<50.0 Not Detected at Specified Laboratory Reporting Limit
<49.9 Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level
250 Bold Number(s) Indicates Contaminant Detected.
1,440 Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level
1.70 Bold Number(s) and Purple Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level, but is Not a Final COPC

TABLE 6-8
Stormwater Sample Analyses, Dioxins and Furans
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Exploration Location	Sample By	Sample Date	Sample Name	2,3,7,8-TCDD	1,2,3,7,8-PeCDD	1,2,3,4,7,8-HxCDD	1,2,3,6,7,8-HxCDD	1,2,3,7,8,9-HxCDD	1,2,3,4,6,7,8-HpCDD	OCDD	2,3,7,8-TCDF	1,2,3,7,8-PeCDF	2,3,4,7,8-PeCDF	1,2,3,4,7,8-HxCDF	1,2,3,6,7,8-HxCDF	1,2,3,7,8,9-HxCDF	2,3,4,6,7,8-HxCDF	1,2,3,4,6,7,8-HpCDF	1,2,3,4,7,8,9-HpCDF	OCDF	Total TCDD	Total TCDF	Total PeCDD	Total PeCDF	Total HxCDD	Total HxCDF	Total HpCDD	Total HpCDF
Most Conservative Cleanup Levels (1)				########	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
(units in pg/L)																												
Outfall 1 (OUT1)	Ecology/NPDES	2/10/2015	ST-TS-01	<1.50	**3.23 J**	**7.87 J**	**46.0**	**16.9 J**	**1,570**	**17,100**	**2.67 J**	<2.34	**3.48 J**	**14.1 J**	**6.18 J**	<3.07	**11.3 J**	**238**	**22.5 J**	**1,400**	<3.17	**35.0 J**	**18.0 J**	**67.5 J**	**529**	**275**	**5,660**	**1,080**
	Ecology/NPDES	2/10/2015	ST-FD-02 (dup)	<0.750	**2.91 J**	**10.40 J**	**35.9**	**17.7 J**	**1,320**	**14,800**	**2.46 J**	<2.09 J	**3.14 J**	**10.7J**	**5.84 J**	**1.46 J**	**10.2 J**	**201**	**17.6 J**	**1,180**	<2.35	**33.5 J**	**17.1 J**	**62.5 J**	**434**	**242 J**	**4,790**	**871**
	Blue Environmental	9/3/2015	System	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Blue Environmental	3/21/2016	Outfall 1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Blue Environmental	4/24/2016	Outfall 1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Blue Environmental	10/4/2016	Outfall 1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Blue Environmental	2/3/2017	Outfall 1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Outfall 2 (OUT2)	Blue Environmental	9/3/2015	Outfall 2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Blue Environmental	3/21/2016	Outfall 3*	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Blue Environmental	4/24/2016	Outfall 3*	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Blue Environmental	10/4/2016	Outfall 2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Blue Environmental	2/3/2017	Outfall 2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Pump Station (SWC1), Pretreatment (2)	Blue Environmental	9/3/2015	Sump	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Michigan Street CSO	King County	9/4/2007	L43790-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	King County	9/30/2007	L43913-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	King County	12/2/2007	L44133-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	King County	8/19/2008	L45811-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	King County	11/6/2008	L46918-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Notes:
Refer to site diagram(s) for sampling locations.

(1) See Table 6-1 for Details Regarding Groundwater Cleanup Levels and Screening Criteria.

(2) Does not discharge to surface. Results not compared to screening levels.

* Outfall 3 is a misnomer made by Blue Environmental, it is actually Outfall 2

na Cleanup Level Not Available

dup Blind Field Duplicate

--- Not Analyzed/No Data

nd Not Detected at Laboratory Reporting Limit, No Reporting Limit Specified

<50.0 Not Detected at Specified Laboratory Reporting Limit

<49.9 Laboratory Method Reporting Limits Highlighted Peach are Greater Than the Most Conservative Specified Cleanup Level

250 Bold Number(s) Indicates Contaminant Detected.

1,440 Bold Number(s) and Yellow Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level

1.70 Bold Number(s) and Purple Shading Indicates Concentration Greater Than the Most Conservative Specified Cleanup Level, but is Not a Final COPC

J Estimated Concentration, Analyte Detected Below Reporting Limit

TABLE 7
Groundwater Screening Levels for Vapor Intrusion Contaminants of Potential Concern
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Chemical	CAS No.	FAI Method	Groundwater Screening Level for Vapor Instrusion Method B Noncancer (µg/L)	Groundwater Screening Level for Vapor Intrusion Method B Cancer (µg/L)	Vapor Intrusion Groundwater Lowest Screening Level Lowest ARAR CLARC (ug/L)	No. of Analyses	Number of Detections	Total % Detections
Chemical	**CAS**							
Total Metals								
Antimony	7440-36-0	EPA 200.8	na	na	na	58	33	56.9%
Arsenic	7440-38-2	EPA 200.8	na	na	na	58	51	87.9%
Barium	7440-39-3	EPA 200.8	na	na	na	34	34	100.0%
Beryllium	7440-41-7	EPA 200.8	na	na	na	51	8	15.7%
Cadmium (nonpotable surface water)	7440-43-9	EPA 200.8	na	na	na	60	10	16.7%
Chromium(III)	7440-47-3	EPA 200.8	na	na	na	59	53	89.8%
Copper	7440-50-8	EPA 200.8	na	na	na	61	36	59.0%
Lead	7439-92-1	EPA 200.8	na	na	na	61	24	39.3%
Mercury	7439-97-6	EPA 1631	8.90E-01	na	8.90E-01	65	22	33.8%
Nickel	7440-02-0	EPA 200.8	na	na	na	60	48	80.0%
Selenium	7782-49-2	EPA 200.8	na	na	na	60	21	35.0%
Silver	7440-22-4	EPA 200.8	na	na	na	51	1	2.0%
Thallium	7440-28-0	EPA 200.8	na	na	na	51	3	5.9%
Zinc	7440-66-6	EPA 200.8	na	na	na	62	43	69.4%
PCBs								
Aroclor 1016	na	EPA 8082	na	na	na	65	0	0.0%
Aroclor 1221	na	EPA 8082	na	na	na	65	0	0.0%
Aroclor 1232	na	EPA 8082	na	na	na	65	0	0.0%
Aroclor 1242	na	EPA 8082	na	na	na	65	2	3.1%
Aroclor 1248	na	EPA 8082	na	na	na	65	0	0.0%
Aroclor 1254	na	EPA 8082	na	na	na	65	1	1.5%
Aroclor 1260	na	EPA 8082	na	na	na	65	2	3.1%
Aroclor 1262	na	EPA 8082	na	na	na	54	0	0.0%
Aroclor 1268	na	EPA 8082	na	na	na	54	0	0.0%
Total PCB Aroclors	1336-36-3	EPA 8082	na	na	na	65	2	3.1%
VOCs								
1,1,1,2-Tetrachloroethane	630-20-6	EPA 8260C	na	7.40E+00	7.40E+00	50	0	0.0%
1,1,1-Trichloroethane	71-55-6	EPA 8260C	5.24E+03	na	5.24E+03	50	0	0.0%
1,1,2,2-Tetrachloroethane	79-34-5	EPA 8260C	na	6.20E+00	6.20E+00	50	1	2.0%
1,1,2-Trichloroethane	79-00-5	EPA 8260C	4.51E+00	7.71E+00	4.51E+00	50	0	0.0%
1,1-Dichloroethane	75-34-3	EPA 8260C	na	1.12E+01	1.12E+01	61	3	4.9%
1,1-Dichloroethylene	75-35-4	EPA 8260C	1.30E+02	na	1.30E+02	50	0	0.0%
1,1-Dichloropropene	563-58-6	EPA 8260C	na	na	na	50	0	0.0%
1,2,3-Trichlorobenzene	87-61-6	EPA 8260C	na	na	na	50	0	0.0%
1,2,4-Trichlorobenzene	120-82-1	EPA 8260C	3.92E+01	na	3.92E+01	50	0	0.0%
1,2,4-Trimethylbenzene	95-63-6	EPA 8260C	2.84E+01	na	2.84E+01	61	5	8.2%
1,2-Dibromo-3-chloropropane	96-12-8	EPA 8260C	na	na	na	50	0	0.0%
1,2-Dichloroethane (EDC)	107-06-2	EPA 8260C	1.40E+02	4.20E+00	4.20E+00	50	0	0.0%
1,2-Dichloropropane	78-87-5	EPA 8260C	2.84E+01	3.89E+00	3.89E+00	50	0	0.0%
1,3,5-Trimethylbenzene	108-67-8	EPA 8260C	na	na	na	61	3	4.9%
1,3-Dichloropropane	142-28-9	EPA 8260C	na	na	na	50	0	0.0%
2,2-Dichloropropane	594-20-7	EPA 8260C	na	na	na	50	0	0.0%
2-Chlorotoluene	95-49-8	EPA 8260C	na	na	na	50	0	0.0%
2-Hexanone	591-78-6	EPA 8260C	na	na	na	18	0	0.0%
4-Chlorotoluene	106-43-4	EPA 8260C	na	na	na	50	0	0.0%
4-Isopropyltoluene	99-87-6	EPA 8260C	na	na	na	50	2	4.0%
Acetone	67-64-1	EPA 8260C	na	na	na	61	1	1.6%
Benzene	71-43-2	EPA 8260C	1.03E+02	2.40E+00	2.40E+00	57	0	0.0%
Bromobenzene	108-86-1	EPA 8260C	na	na	na	50	0	0.0%
Bromoform	75-25-2	EPA 8260C	na	2.00E+02	2.00E+02	50	0	0.0%
Bromomethane	74-83-9	EPA 8260C	1.30E+01	na	1.30E+01	50	0	0.0%
Carbon disulfide	75-15-0	EPA 8260C	4.00E+02	na	4.00E+02	61	1	1.6%

TABLE 7
Groundwater Screening Levels for Vapor Intrusion Contaminants of Potential Concern
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Chemical	Highest Recorded Groundwater Concentation at DMC (ug/L)	Location with Highest Concentration	Detections Above Screening Level	Total % of Samples with Detections Over Screening Level	Number of Different Locations with CUL Exceedance	**Preliminary Vapor Intrusion COPC List** Based on Most Conservative Screening Level	**Final Vapor Intrusion COPC List** Total % Detections Over Screening Level > 5%
Chemical							
Total Metals							
Antimony	5.60E+01	MW2		0.0%			
Arsenic	2.20E+02	MW2		0.0%			
Barium	9.67E+02	MW14		0.0%			
Beryllium	5.47E+00	MW14		0.0%			
Cadmium (nonpotable surface water)	1.20E+01	MW2		0.0%			
Chromium(III)	1.40E+02	MW2		0.0%			
Copper	8.10E+02	MW2		0.0%			
Lead	2.10E+03	MW2		0.0%			
Mercury	2.00E+00	MW2	**2**	3.1%	**2**	Mercury	
Nickel	2.40E+02	MW2		0.0%			
Selenium	3.40E+01	MW2		0.0%			
Silver	2.30E+00	MW11		0.0%			
Thallium	4.00E-02	MW11		0.0%			
Zinc	2.00E+03	MW1		0.0%			
PCBs							
Aroclor 1016				0.0%			
Aroclor 1221				0.0%			
Aroclor 1232				0.0%			
Aroclor 1242	0.67	MW4		0.0%			
Aroclor 1248	---	---		0.0%			
Aroclor 1254	1.70E-01	MW4		0.0%			
Aroclor 1260	1.30E-01	MW2		0.0%			
Aroclor 1262				0.0%			
Aroclor 1268				0.0%			
Total PCB Aroclors	9.50E-01	MW4		0.0%			
VOCs							
1,1,1,2-Tetrachloroethane				0.0%			
1,1,1-Trichloroethane				0.0%			
1,1,2,2-Tetrachloroethane	1.30E-01	MW09		0.0%			
1,1,2-Trichloroethane				0.0%			
1,1-Dichloroethane	2.20E+00	MW3		0.0%			
1,1-Dichloroethylene				0.0%			
1,1-Dichloropropene				0.0%			
1,2,3-Trichlorobenzene				0.0%			
1,2,4-Trichlorobenzene				0.0%			
1,2,4-Trimethylbenzene	2.69E+00	MW16		0.0%			
1,2-Dibromo-3-chloropropane				0.0%			
1,2-Dichloroethane (EDC)				0.0%			
1,2-Dichloropropane				0.0%			
1,3,5-Trimethylbenzene	1.63E+00	MW16		0.0%			
1,3-Dichloropropane				0.0%			
2,2-Dichloropropane				0.0%			
2-Chlorotoluene				0.0%			
2-Hexanone				0.0%			
4-Chlorotoluene				0.0%			
4-Isopropyltoluene	2.07E+00	MW14		0.0%			
Acetone	1.50E+01	MW3		0.0%			
Benzene				0.0%			
Bromobenzene				0.0%			
Bromoform				0.0%			
Bromomethane				0.0%			
Carbon disulfide	1.60E+00	MW2D		0.0%			

TABLE 7
Groundwater Screening Levels for Vapor Intrusion Contaminants of Potential Concern
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Chemical	CAS No.	FAI Method	Groundwater Screening Level for Vapor Instrusion Method B Noncancer (µg/L)	Groundwater Screening Level for Vapor Intrusion Method B Cancer (µg/L)	Vapor Intrusion Groundwater Lowest Screening Level Lowest ARAR CLARC (ug/L)	No. of Analyses	Number of Detections	Total % Detections
Chemical	**CAS**							
VOCs								
Carbon tetrachloride	56-23-5	EPA 8260C	5.92E+01	5.39E-01	5.39E-01	50	0	0.0%
Chlorobenzene	108-90-7	EPA 8260C	2.86E+02	na	2.86E+02	50	0	0.0%
Chloroethane (ethyl chloride)	75-00-3	EPA 8260C	1.83E+04	na	1.83E+04	61	1	1.6%
Chloroform	67-66-3	EPA 8260C	4.95E+02	1.20E+00	1.20E+00	61	3	4.9%
Chloromethane (Methylene chloride)	74-87-3	EPA 8260C	1.53E+02	na	1.53E+02	50	0	0.0%
cis-1,2-Dichloroethylene	156-59-2	EPA 8260C	na	na	na	61	1	1.6%
cis-1,3-Dichloropropene	10061-01-5	EPA 8260C	na	na	na	50	0	0.0%
Dibromochloromethane (chlorodibromomethane)	124-48-1	EPA 8260C		4.53E+00	4.53E+00	50	0	0.0%
Dibromomethane (methylene bromide)	74-95-3	EPA 8260C	na	na	na	50	0	0.0%
Dichlorobromomethane	75-27-4	EPA 8260C		1.84E+00	1.84E+00	50	0	0.0%
Dichlorodifluoromethane (CFC-12)	75-71-8	EPA 8260C	5.66E+00	na	5.66E+00	50	0	0.0%
Ethylbenzene	100-41-4	EPA 8260C	2.78E+03	na	2.78E+03	61	5	8.2%
Ethylene dibromide (EDB)	106-93-4	EPA 8260C	2.77E+02	2.80E-01	2.80E-01	50	0	0.0%
Isopropylbenzene (Cumene)	98-82-8	EPA 8260C	7.20E+02	na	7.20E+02	61	1	1.6%
m,p-Xylene	179601-23-1	EPA 8260C	na	na	na	50	0	0.0%
Methyl ethyl ketone (2-Butanone, MEK)	78-93-3	EPA 8260C	1.74E+06	na	1.74E+06	18	0	0.0%
Methyl isobutyl ketone (MIBK)	108-10-1	EPA 8260C	4.71E+05	na	4.71E+05	50	0	0.0%
Methyl tert-butyl ether (MTBE)	1634-04-4	EPA 8260C	8.70E+04	6.10E+02	6.10E+02	50	0	0.0%
Methylene chloride	75-09-2	EPA 8260C	4.86E+03	4.43E+03	4.43E+03	50	0	0.0%
n-Butylbenzene	104-51-8	EPA 8260C	na	na	na	50	0	0.0%
n-Propylbenzene	103-65-1	EPA 8260C	na	na	na	50	0	0.0%
o-Xylene	95-47-6	EPA 8260C	4.40E+02	na	4.40E+02	50	0	0.0%
Pentachloroethane	na	EPA 8260C	na	na	na	50	0	0.0%
sec-Butylbenzene	135-98-8	EPA 8260C	na	na	na	50	0	0.0%
Styrene	100-42-5	EPA 8260C	8.10E+03	na	8.10E+03	50	0	0.0%
tert-Butylbenzene	98-06-6	EPA 8260C	na	na	na	50	0	0.0%
Tetrachloroethylene (PCE)	127-18-4	EPA 8260C	4.35E+01	2.29E+01	2.29E+01	50	1	2.0%
Toluene	108-88-3	EPA 8260C	1.56E+04	na	1.56E+04	50	2	4.0%
Total xylenes	1330-20-7	EPA 8260C	na	na	na	50	6	12.0%
trans-1,2-Dichloroethylene	156-60-5	EPA 8260C	na	na	na	50	0	0.0%
trans-1,3-Dichloropropene	10061-02-6	EPA 8260C	na	na	na	50	0	0.0%
Trichloroethylene (TCE)	79-01-6	EPA 8260C	3.84E+00	1.55E+00	1.55E+00	50	0	0.0%
Trichlorofluoroethane	27154-33-2	EPA 8260C	na	na	na	50	0	0.0%
Vinyl acetate	108-05-4	EPA 8260C	7.80E+03	na	7.80E+03	50	0	0.0%
Vinyl chloride	75-01-4	EPA 8260C	5.67E+01	3.47E-01	3.47E-01	50	1	2.0%
SVOCs								
1,2-Dichlorobenzene	95-50-1	EPA 8270D	2.57E+03	na	2.57E+03	50	0	0.0%
1,3-Dichlorobenzene	541-73-1	EPA 8270D	na	na	na	50	0	0.0%
1,4-Dichlorobenzene	106-46-7	EPA 8270D	7.81E+03	4.85E+00	4.85E+00	50	0	0.0%
1,4-Dioxane	123-91-1	EPA 8270D	na	na	na	17	2	11.8%
2,4,5-Trichlorophenol	na	EPA 8270D	na	na	na	50	0	0.0%
2,4,6-Trichlorophenol	na	EPA 8270D	na	na	na	50	0	0.0%
2,4-Dichlorophenol	120-83-2	EPA 8270D	na	na	na	50	0	0.0%
2,4-Dimethylphenol	105-67-9	EPA 8270D	na	na	na	50	1	2.0%
2,4-Dinitrophenol	51-28-5	EPA 8270D	na	na	na	50	0	0.0%
2,4-Dinitrotoluene	121-14-2	EPA 8270D	na	na	na	50	0	0.0%
2,6-Dinitrotoluene	606-20-2	EPA 8270D	na	na	na	50	0	0.0%
2-Chloronaphthalene (beta-chloronaphthalene)	91-58-7	EPA 8270D	na	na	na	50	0	0.0%
2-Chlorophenol	95-57-8	EPA 8270D	na	na	na	50	0	0.0%
2-Methylphenol (o-Cresol)	95-48-7	EPA 8270D	na	na	na	50	1	2.0%
2-Nitroaniline	88-74-4	EPA 8270D	na	na	na	50	0	0.0%
2-Nitrophenol	88-75-5	EPA 8270D	na	na	na	50	0	0.0%

TABLE 7
Groundwater Screening Levels for Vapor Intrusion Contaminants of Potential Concern
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Chemical	Highest Recorded Groundwater Concentation at DMC (ug/L)	Location with Highest Concentration	Detections Above Screening Level	Total % of Samples with Detections Over Screening Level	Number of Different Locations with CUL Exceedance	Preliminary Vapor Intrusion COPC List Based on Most Conservative Screening Level	Final Vapor Intrusion COPC List Total % Detections Over Screening Level > 5%
Chemical							
VOCs							
Carbon tetrachloride				0.0%			
Chlorobenzene				0.0%			
Chloroethane (ethyl chloride)	5.10E-01	MW3		0.0%			
Chloroform	1.60E+00	MW08	2	3.3%	2	Chloroform	
Chloromethane (Methylene chloride)				0.0%			
cis-1,2-Dichloroethylene	2.40E-01	MW2		0.0%			
cis-1,3-Dichloropropene				0.0%			
Dibromochloromethane (chlorodibromomethane)				0.0%			
Dibromomethane (methylene bromide)				0.0%			
Dichlorobromomethane				0.0%			
Dichlorodifluoromethane (CFC-12)				0.0%			
Ethylbenzene	2.29E+00	MW16		0.0%			
Ethylene dibromide (EDB)				0.0%			
Isopropylbenzene (Cumene)	6.00E-01	MW2D		0.0%			
m,p-Xylene				0.0%			
Methyl ethyl ketone (2-Butanone, MEK)				0.0%			
Methyl isobutyl ketone (MIBK)				0.0%			
Methyl tert-butyl ether (MTBE)				0.0%			
Methylene chloride				0.0%			
n-Butylbenzene				0.0%			
n-Propylbenzene				0.0%			
o-Xylene				0.0%			
Pentachloroethane				0.0%			
sec-Butylbenzene				0.0%			
Styrene				0.0%			
tert-Butylbenzene				0.0%			
Tetrachloroethylene (PCE)	6.90E-01	MW1		0.0%			
Toluene	1.08E+00	MW16		0.0%			
Total xylenes	6.55E+00	MW16		0.0%			
trans-1,2-Dichloroethylene				0.0%			
trans-1,3-Dichloropropene				0.0%			
Trichloroethylene (TCE)				0.0%			
Trichlorofluoroethane				0.0%			
Vinyl acetate				0.0%			
Vinyl chloride	3.70E-01	MW12D	1	2.0%	1	Vinyl chloride	
SVOCs							
1,2-Dichlorobenzene				0.0%			
1,3-Dichlorobenzene				0.0%			
1,4-Dichlorobenzene				0.0%			
1,4-Dioxane	1.79E+00	MW09		0.0%			
2,4,5-Trichlorophenol				0.0%			
2,4,6-Trichlorophenol				0.0%			
2,4-Dichlorophenol				0.0%			
2,4-Dimethylphenol				0.0%			
2,4-Dinitrophenol				0.0%			
2,4-Dinitrotoluene				0.0%			
2,6-Dinitrotoluene				0.0%			
2-Chloronaphthalene (beta-chloronaphthalene)				0.0%			
2-Chlorophenol				0.0%			
2-Methylphenol (o-Cresol)	1.56E+01	MW16		0.0%			
2-Nitroaniline				0.0%			
2-Nitrophenol				0.0%			

TABLE 7
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Duwamish Marine Center
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Seattle, Washington

Chemical	CAS No.	FAI Method	Groundwater Screening Level for Vapor Instrusion Method B Noncancer (µg/L)	Groundwater Screening Level for Vapor Intrusion Method B Cancer (µg/L)	Vapor Intrusion Groundwater Lowest Screening Level Lowest ARAR CLARC (ug/L)	No. of Analyses	Number of Detections	Total % Detections
Chemical	**CAS**							
SVOCs								
4,6-Dinitro-2-methylphenol	534-52-1	EPA 8270D	na	na	na	50	0	0.0%
4-Bromophenyl phenyl ether	101-55-3	EPA 8270D	na	na	na	50	0	0.0%
4-Chloro-3-methylphenol (chlorocresol)	59-50-7	EPA 8270D	na	na	na	50	0	0.0%
4-Chloroaniline (chloroaniline;p-)	106-47-8	EPA 8270D	na	na	na	50	0	0.0%
4-Chlorophenyl phenyl ether	7005-72-3	EPA 8270D	na	na	na	50	0	0.0%
4-Methylphenol (p-Cresol)	106-44-5	EPA 8270D	na	na	na	50	1	2.0%
4-Nitrophenol	100-02-7	EPA 8270D	na	na	na	50	0	0.0%
Benzyl alcohol	100-51-6	EPA 8270D	na	na	na	50	0	0.0%
Bis(2-chloroethoxy)methane	111-91-1	EPA 8270D	na	na	na	50	0	0.0%
Bis(2-chloroethyl)ether	111-44-4	EPA 8270D	na	2.60E+01	2.60E+01	50	0	0.0%
Bis/Di(2-ethylhexyl) phthalate	117-81-7	EPA 8270D	na	na	na	49	17	34.7%
bis/Di(2-Ethylhexyl)adipate	na	EPA 8270D	na	na	na	50	2	4.0%
Butyl benzyl phthalate	85-68-7	EPA 8270D	na	na	na	50	0	0.0%
Carbazole	86-74-8	EPA 8270D	na	na	na	57	3	5.3%
Dibutyl phthalate	84-74-2	EPA 8270D	na	na	na	50	0	0.0%
Diethyl phthalate (phthalic acid)	84-66-2	EPA 8270D	na	na	na	50	0	0.0%
Dimethyl phthalate	131-11-3	EPA 8270D	na	na	na	50	0	0.0%
Di-n-octyl phthalate	117-84-0	EPA 8270D	na	na	na	50	0	0.0%
Hexachlorobenzene	118-74-1	EPA 8270D	na	na	na	50	0	0.0%
Hexachlorobutadiene	87-68-3	EPA 8270D	na	8.10E-01	8.10E-01	50	0	0.0%
Hexachlorocyclopentadiene	77-47-4	EPA 8270D	na	na	na	50	0	0.0%
Hexachloroethane	67-72-1	EPA 8270D	1.87E+02	3.10E+00	3.10E+00	50	0	0.0%
Isophorone	78-59-1	EPA 8270D	na	na	na	50	0	0.0%
Nitrobenzene	98-95-3	EPA 8270D	1.05E+04	1.60E+02	1.60E+02	57	1	1.8%
n-Nitrosodi-n-propylamine	621-64-7	EPA 8270D	na	na	na	50	0	0.0%
Pentachlorophenol	87-86-5	EPA 8270D	na	na	na	50	3	6.0%
Phenol	108-95-2	EPA 8270D	na	na	na	50	0	0.0%
PAHs								
1-Methylnaphthalene	90-12-0	EPA 8270D SIM	na	na	na	62	40	64.5%
2-Methylnaphthalene	91-57-6	EPA 8270D SIM	na	na	na	62	42	67.7%
Acenaphthene	83-32-9	EPA 8270D SIM	na	na	na	62	42	67.7%
Acenaphthylene	208-96-8	EPA 8270D SIM	na	na	na	62	12	19.4%
Anthracene	120-12-7	EPA 8270D SIM	na	na	na	62	26	41.9%
Benzo(a)anthracene	56-55-3	EPA 8270D SIM	na	na	na	62	12	19.4%
Benzo(a)pyrene	50-32-8	EPA 8270D SIM	na	na	na	62	7	11.3%
Benzo(b)fluoranthene	205-99-2	EPA 8270D SIM	na	na	na	62	9	14.5%
Benzo(g,h,i)perylene	191-24-2	EPA 8270D SIM	na	na	na	62	12	19.4%
Benzo(k)fluoranthene	207-08-9	EPA 8270D SIM	na	na	na	62	6	9.7%
Chrysene	218-01-9	EPA 8270D SIM	na	na	na	62	12	19.4%
Dibenz(a,h)anthracene	53-70-3	EPA 8270D SIM	na	na	na	62	6	9.7%
Dibenzofuran	132-64-9	EPA 8270D SIM	na	na	na	58	4	6.9%
Fluoranthene	206-44-0	EPA 8270D SIM	na	na	na	61	19	31.1%
Fluorene	86-73-7	EPA 8270D SIM	na	na	na	62	27	43.5%
Indeno(1,2,3-cd)pyrene	193-39-5	EPA 8270D SIM	na	na	na	62	15	24.2%
Naphthalene**	91-20-3	EPA 8270D SIM	1.67E+02	8.93E+00	8.93E+00	62	42	67.7%
Phenanthrene	85-01-8	EPA 8270D SIM	na	na	na	62	20	32.3%
Pyrene	129-00-0	EPA 8270D SIM	na	na	na	61	21	34.4%
Total cPAH TEQ (1)	I	EPA 8270D SIM	na	na	na	62	62	100.0%
Tins								
Tributyltin	36643-28-4	Krone 1988	na	na	na	17	0	0.0%
TPH								
Gasoline range hydrocarbons without benzene (2)	J	NWTPH-Gx	na	na	na	57	5	8.8%
Diesel range hydrocarbons (2)	K	NWTPH-Dx	na	na	na	65	23	35.4%
Oil range hydrocarbons (Lube Oil) (2)	L	NWTPH-Dx	na	na	na	65	31	47.7%

Notes:
na Cleanup/Permit Level Not Available
** Naphthalene analyzed by methods 8270D SIM and 8260C

TABLE 7
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Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Chemical	Highest Recorded Groundwater Concentation at DMC (ug/L)	Location with Highest Concentration	Detections Above Screening Level	Total % of Samples with Detections Over Screening Level	Number of Different Locations with CUL Exceedance	**Preliminary Vapor Intrusion COPC List** Based on Most Conservative Screening Level	**Final Vapor Intrusion COPC List** Total % Detections Over Screening Level > 5%
Chemical							
SVOCs							
4,6-Dinitro-2-methylphenol				0.0%			
4-Bromophenyl phenyl ether				0.0%			
4-Chloro-3-methylphenol (chlorocresol)				0.0%			
4-Chloroaniline (chloroaniline;p-)				0.0%			
4-Chlorophenyl phenyl ether				0.0%			
4-Methylphenol (p-Cresol)	3.03E+01	MW16		0.0%			
4-Nitrophenol				0.0%			
Benzyl alcohol				0.0%			
Bis(2-chloroethoxy)methane				0.0%			
Bis(2-chloroethyl)ether				0.0%			
Bis/Di(2-ethylhexyl) phthalate	2.74E-01	MW14		0.0%			
bis/Di(2-Ethylhexyl)adipate	1.47E+01	MW09D		0.0%			
Butyl benzyl phthalate				0.0%			
Carbazole	1.70E+01	MW3D		0.0%			
Dibutyl phthalate				0.0%			
Diethyl phthalate (phthalic acid)				0.0%			
Dimethyl phthalate				0.0%			
Di-n-octyl phthalate				0.0%			
Hexachlorobenzene				0.0%			
Hexachlorobutadiene				0.0%			
Hexachlorocyclopentadiene				0.0%			
Hexachloroethane				0.0%			
Isophorone				0.0%			
Nitrobenzene	2.10E+00	MW3		0.0%			
n-Nitrosodi-n-propylamine				0.0%			
Pentachlorophenol	3.66E+00	MW06		0.0%			
Phenol				0.0%			
PAHs							
1-Methylnaphthalene	1.13E+02	MW16		0.0%			
2-Methylnaphthalene	1.22E+02	MW16		0.0%			
Acenaphthene	1.35E+02	MW16		0.0%			
Acenaphthylene	1.91E+00	MW16		0.0%			
Anthracene	5.70E+00	MW2		0.0%			
Benzo(a)anthracene	1.10E+01	MW2		0.0%			
Benzo(a)pyrene	1.30E+01	MW2		0.0%			
Benzo(b)fluoranthene	9.60E+00	MW2		0.0%			
Benzo(g,h,i)perylene	7.00E+00	MW2		0.0%			
Benzo(k)fluoranthene	1.30E+01	MW2		0.0%			
Chrysene	1.50E+01	MW2		0.0%			
Dibenz(a,h)anthracene	6.80E-01	MW2		0.0%			
Dibenzofuran	7.17E+01	MW16		0.0%			
Fluoranthene	2.40E+01	MW2		0.0%			
Fluorene	6.58E+01	MW16		0.0%			
Indeno(1,2,3-cd)pyrene	6.80E+00	MW2		0.0%			
Naphthalene**	1.89E+03	MW16	**8**	12.9%	**5**	Naphthalene**	Naphthalene**
Phenanthrene	7.25E+01	MW16		0.0%			
Pyrene	2.40E+01	MW2		0.0%			
Total cPAH TEQ (1)	1.73E+01	MW2		0.0%			
Tins							
Tributyltin	---	---		0.0%			
TPH							
Gasoline range hydrocarbons without benzene (2)	1.44E+03	MW16		0.0%			
Diesel range hydrocarbons (2)	2.70E+03	MW2		0.0%			
Oil range hydrocarbons (Lube Oil) (2)	4.90E+03	MW2		0.0%			

Notes:
na Cleanup/Permit Level Not Available
** Naphthalene analyzed by methods 8270D SIM and 8260C

TABLE 8
Contaminants of Potential Concern by Media
Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Chemical	Media					
	Soil	Groundwater	River Sediment	CB Sediment	Stormwater	Vapor Intrusion
Arsenic	X	X			X	
Chromium (III)	X					
Copper	X	X	X		X	
Lead	X	X				
Mercury	X (1)	X	X		X	
Nickel	X (1)	X			X	
Zinc	X	X				
Total PCBs (2)	X	X	X		X	
Acenaphthene	X (1)	X				
Bis(2-ethylhexyl)phthalate	X (1)	X		X	X	
Fluoranthene				X		
Fluorene	X (1)	X				
Naphthalene						X
Pentachlorophenol	X	X			X	
cPAH TEQ	X					
Benzo(a)anthracene		X			X	
Benzo(a)pyrene		X			X	
Benzo(b)fluoranthene		X			X	
Benzo(k)fluoranthene		X				
Chrysene		X			X	
Indeno(1,2,3-cd)pyrene		X			X	
Dibenzo(a,h)anthracene		X			X	
Diesel range organics	X (1)	X				
Oil range organics	X	X				

Notes:

(1) Contaminant Included as a Soil COPC Based on Grounwater COPC Evaluation

(2) Include PCB Aroclors and Congeners