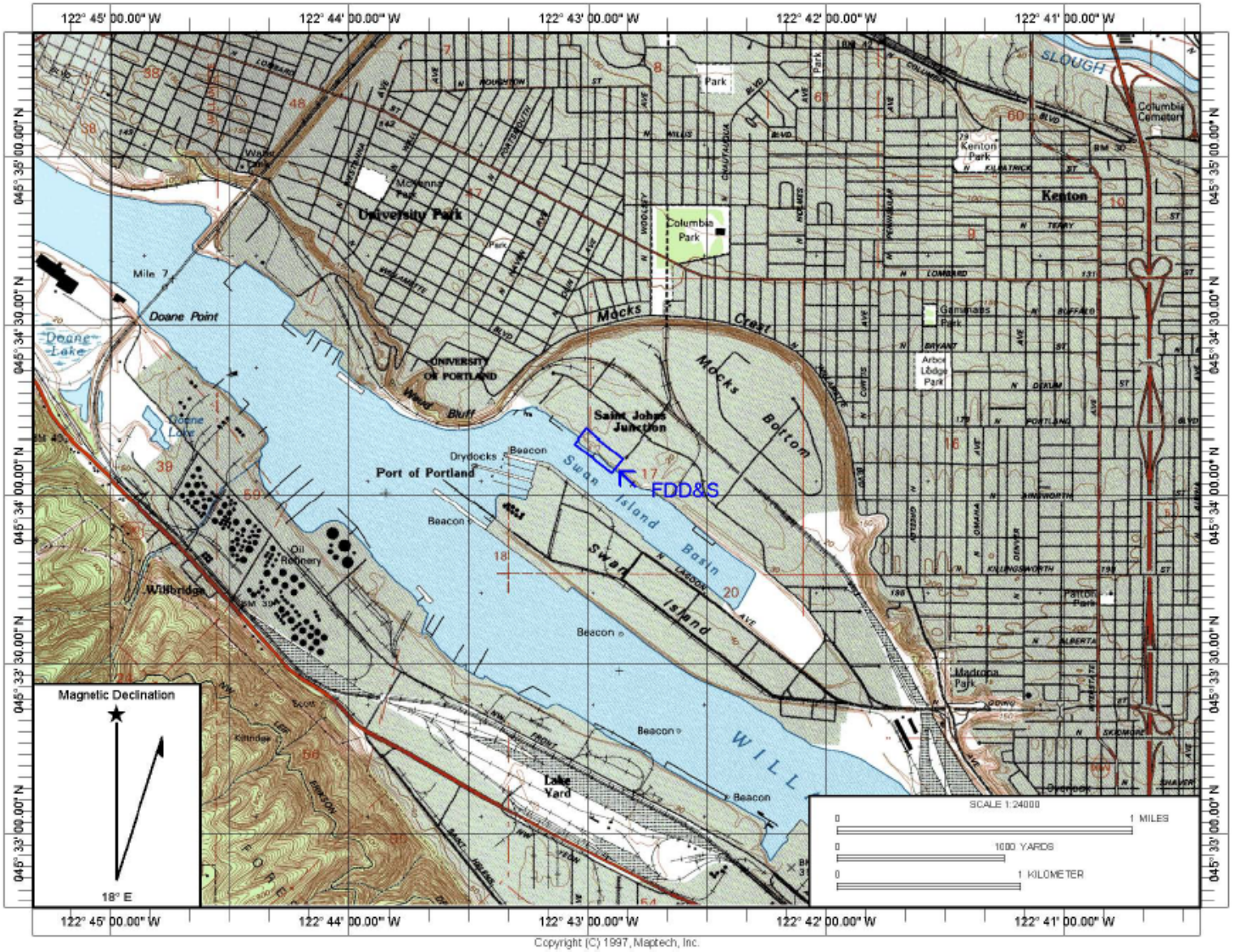
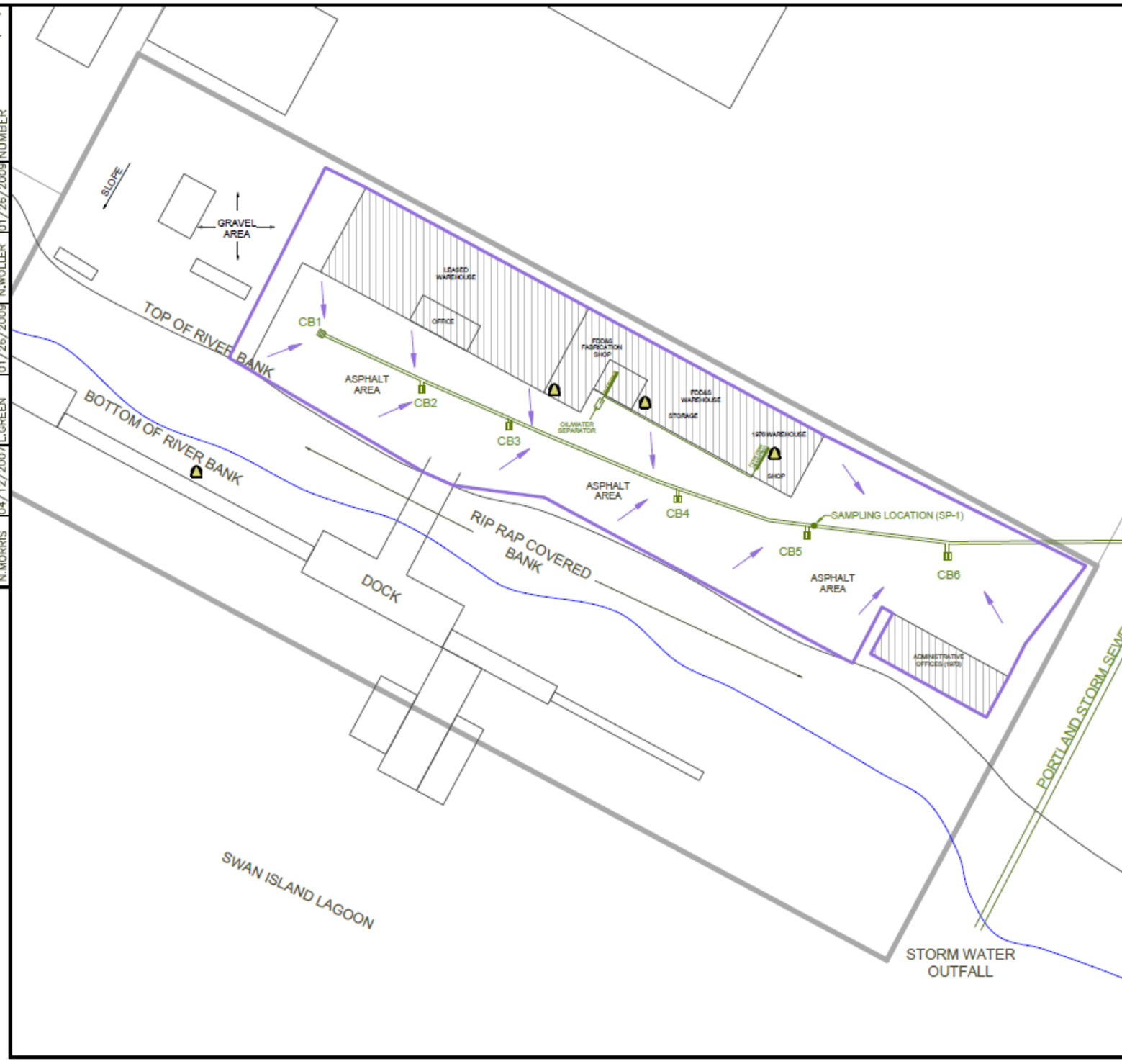


Source: USGS Topographic Map, 7.5-Minute Portland Quadrangle, 1990

EVREN NORTHWEST	Date Drawn: 4/11/2008 CAD File Name: 521-07001-01svmap.doc Drawn By: LDG Approved By: NMW	Fred Devine Diving & Salvage Co. 6211 N. Ensign Street Portland Oregon For: The Marine Salvage Consortium, Inc.	**Site Vicinity Map**	Project No. 521-07001-01 Figure No. **1**



LEGEND:

- APPROXIMATE BUILDING LOCATIONS
- APPROXIMATE PROPERTY BOUNDARIES
- APPROXIMATE SUBJECT PROPERTY BOUNDARIES
- APPROXIMATE SUBJECT BUILDINGS
- CATCH BASIN
- STORM/DRAIN LINES
- APPROXIMATE BOUNDARY OF STORM WATER DRAINAGE AREA
- DIRECTION OF STORM WATER SHEET FLOW
- LOCATION OF SPILL KIT

NOTES:

1. BASE MAP DEVELOPED FROM AN AERIAL PHOTOGRAPH MAP DATED 2005 AND EVREN NORTHWEST, INC FIELD NOTES.

APPROXIMATE SCALE

0 75 150 FEET

N

EVREN NORTHWEST
PO BOX 14488
PORTLAND, OREGON 97293
(503)452-5561 Fax(503)452-7669

FIGURE 2

SITE PLAN

FRED DIVINE DIVING & SALVAGE FACILITY
6211 NORTH ENSIGN STREET
PORTLAND, OREGON

DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
N.MORRIS 04/12/2007	L.GREEN 01/26/2008	N.WOLLER 01/26/2008	521-07001(v01)

Figure 3: Bank Photos

PHOTO 1: View to the west from the main dock platform. The roofed barge in the background is part of the adjacent facility.

PHOTO 2: View to the east of the office building.

Table 1 - Summary of Analytical Data, Sediment

Location ID	Catch Basin # 1	Catch Basin # 2	Catch Basin # 3	Catch Basin # 4	Catch Basin # 5	Catch Basin # 6	CB01-CB03	CB04-CB06	DUST
Sample ID	CB-1	CB-2	CB-3	CB-4	CB-5	CB-6	COMP01-CB1-3-100415	COMP02-CB4-6-100415	DUST-100720
Date Sampled	4/30/2002	4/30/2002	4/30/2002	4/30/2002	4/30/2002	4/30/2002	4/15/2010	4/15/2010	7/20/2010
Depth Sampled (feet)	NA	NA	NA	NA	NA	NA	10.5	10	Surface
Sample By	Evergreen	Evergreen	Evergreen	Evergreen	Evergreen	Evergreen	ENW	ENW	ENW
Location	Catch Basin # 1	Catch Basin # 2	Catch Basin # 3	Catch Basin # 4	Catch Basin # 5	Catch Basin # 6	CB01, CB02, CB03	CB04, CB05, CB06	Dust layer in traler along northern edge of FDD&S facility
Constituent of Interest	mg/Kg (ppm)								
Semi-Volatile Organic Constituents (SVOCs)									
Polyaromatic Hydrocarbons									
Naphthalene	<6.7 (ND)	NA	<6.7 (ND)	<6.7 (ND)	NA	<6.7 (ND)	<0.2 (ND)	0.22	NA
Acenaphthene	<6.7 (ND)	NA	<6.7 (ND)	<6.7 (ND)	NA	<6.7 (ND)	<0.2 (ND)	0.60	NA
Fluorene	<6.7 (ND)	NA	<6.7 (ND)	6.73	NA	<6.7 (ND)	<0.2 (ND)	1.3	NA
Anthracene	<6.7 (ND)	NA	<6.7 (ND)	16.7	NA	<6.7 (ND)	0.59	2.3	NA
Fluoranthene	<6.7 (ND)	NA	16.3	18.7	NA	<6.7 (ND)	4.1	28	NA
Pyrene	<6.7 (ND)	NA	8.9	12.5	NA	<6.7 (ND)	2.8	17	NA
Benz[a]anthracene	<6.7 (ND)	NA	<6.7 (ND)	<6.7 (ND)	NA	<6.7 (ND)	0.90	3.9	NA
Chrysene	<6.7 (ND)	NA	<6.7 (ND)	<6.7 (ND)	NA	<6.7 (ND)	2.4	11	NA
Benzo[b]fluoranthene	<6.7 (ND)	NA	<6.7 (ND)	<6.7 (ND)	NA	<6.7 (ND)	2.00	7.9	NA
Benzo[k]fluoranthene	<6.7 (ND)	NA	<6.7 (ND)	<6.7 (ND)	NA	<6.7 (ND)	0.57	2.5	NA
Benzo[a]pyrene	<6.7 (ND)	NA	<6.7 (ND)	<6.7 (ND)	NA	<6.7 (ND)	0.68	2.0	NA
Indeno[1,2,3-cd]pyrene	<6.7 (ND)	NA	<6.7 (ND)	<6.7 (ND)	NA	<6.7 (ND)	0.69	1.8	NA
Dibenz[a,h]anthracene	<6.7 (ND)	NA	<6.7 (ND)	<6.7 (ND)	NA	<6.7 (ND)	<0.2 (ND)	0.30	NA
Benzo[g,h,i]perylene	<6.7 (ND)	NA	<6.7 (ND)	<6.7 (ND)	NA	<6.7 (ND)	0.55	1.4	NA
Polychlorinated Biphenyls (PCBs)									
Aroclor 1016	<0.5 (ND)	NA	<0.5 (ND)	<0.5 (ND)	NA	<0.5 (ND)	<0.05 (ND)	<0.05 (ND)	NA
Aroclor 1221	<0.5 (ND)	NA	<0.5 (ND)	<0.5 (ND)	NA	<0.5 (ND)	<0.05 (ND)	<0.05 (ND)	NA
Aroclor 1232	<0.5 (ND)	NA	<0.5 (ND)	<0.5 (ND)	NA	<0.5 (ND)	<0.05 (ND)	<0.05 (ND)	NA
Aroclor 1242	<0.5 (ND)	NA	<0.5 (ND)	<0.5 (ND)	NA	<0.5 (ND)	<0.05 (ND)	<0.05 (ND)	NA
Aroclor 1248	<0.5 (ND)	NA	<0.5 (ND)	<0.5 (ND)	NA	<0.5 (ND)	<0.05 (ND)	<0.05 (ND)	NA
Aroclor 1254	<0.5 (ND)	NA	<0.5 (ND)	<0.5 (ND)	NA	<0.5 (ND)	<0.05 (ND)	<0.05 (ND)	NA
Aroclor 1260	<0.5 (ND)	NA	<0.5 (ND)	<0.5 (ND)	NA	<0.5 (ND)	<0.05 (ND)	<0.05 (ND)	NA
Total PCBs (total as Aroclors)	<0.5 (ND)	NA	<0.5 (ND)	<0.5 (ND)	NA	<0.5 (ND)	<0.05 (ND)	<0.05 (ND)	NA

Table 1 - Summary of Analytical Data, Sediment

Location ID	Catch Basin # 1	Catch Basin # 2	Catch Basin # 3	Catch Basin # 4	Catch Basin # 5	Catch Basin # 6	CB01-CB03	CB04-CB06	DUST
Sample ID	CB-1	CB-2	CB-3	CB-4	CB-5	CB-6	COMP01-CB1-3-100415	COMP02-CB4-6-100415	DUST-100720
Date Sampled	4/30/2002	4/30/2002	4/30/2002	4/30/2002	4/30/2002	4/30/2002	4/15/2010	4/15/2010	7/20/2010
Depth Sampled (feet)	NA	NA	NA	NA	NA	NA	10.5	10	Surface
Sample By	Evergreen	Evergreen	Evergreen	Evergreen	Evergreen	Evergreen	ENW	ENW	ENW
Location	Catch Basin # 1	Catch Basin # 2	Catch Basin # 3	Catch Basin # 4	Catch Basin # 5	Catch Basin # 6	CB01, CB02, CB03	CB04, CB05, CB06	Dust layer in trailer along northern edge of FDD&S facility
Constituent of Interest	mg/Kg (ppm)								
Metals									
Cadmium	**2.25**	NA	**2.75**	**3.47**	NA	<1 (ND)	**3.84**	**5.03**	**117**
Chromium (total)	NA	NA	NA	NA	NA	NA	**43.0**	**54.6**	**71.1**
Copper	**206**	NA	**172**	**202**	NA	**85.5**	**193**	**278**	**328**
Lead	**226**	NA	**176**	**283**	NA	**66.6**	**92.6**	**152**	**264**
Zinc	**447**	NA	**365**	**488**	NA	**236**	**455**	**636**	**1560**
Total Petroleum Hydrocarbons									
DRO	NA	NA	NA	NA	NA	NA	**4500x**	**4400 x**	NA
RRO	NA	NA	NA	NA	NA	NA	**9000**	**12000**	NA

Notes:

NP = not present based on NW TPH-HCID (hydrocarbon identification) analysis
ND = not detected at or above laboratory method reporting limits
--- = not analyzed or not applicable.
NE = not established.
mk/Kg = milligrams per kilogram
DRO = diesel-range organics.
RRO = residual-range organics.
JSCS = Portland Harbor Joint Source Control Strategy, ODEQ and EPA, December 2005
Bolded concentrations exceed JSCS screening levels (indicated with a Y)
(Y) indicates analyte not detected, but detection limit is above screening concentration.

* Portland Harbor RI/FS, June 24, 2004, Table A6-2,
Analytes, Analytical Concentration Goals and Method
Reporting Limits for Sediment Samples

ACG = Analytical Concentration Goals
MDL = Method Detection Limit
MRL = Method Reporting Limit
PQL = Practible Quanitation Limit
tbd = to be determined

Table 2- Summary of Detected Constituents in Storm Water

Location ID		SP01		SP01		SP01		SP01		SP01		Maximum Detected Storm Water Concentration	Geometric Mean (1/2 MDL used if ND)	Lowest JSCS Screening Value	Background	1200-Z Benchark	RBDM Screening Level RBCs (1)	EPA Region VI SSLs (1)
Sample ID		SP01-071116		SP-1		SP-1		0SP01-080520		0F01-090513								
Date Sampled		11/16/2007		11/28/2007		3/26/2008		5/20/2008		5/13/2009								
		Concentration	Method Detection Limit	Concentration	Method Detection Limit	Concentration	Method Detection Limit	Concentration	Method Detection Limit	Concentration	Method Detection Limit							
Constituent of Interest	Note	µg/L (ppb)										µg/L (ppb)		µg/L (ppb)				
Phthalate Esters																		
Di-n-octylphthalate	c, v	<1 (ND)	1	<0.5 (ND)	0.5	<0.5 (ND)	0.5	<0.5 (ND)	0.5	0.9	0.5	0.9	0.34	3	–	–	–	–
Bis[2-ethylhexyl]phthalate	c, nv	<10 (ND)	10	2.9	0.5	3.1 J, fb	0.5	3.1 fba	0.5	<5 (ND)	5	3.1 J, fb	3.87	0.22	–	–	4.1	4.8
Polyaromatic Hydrocarbons																		
Naphthalene	nc, v	<1 (ND)	1	0.15	0.05	<0.05 (ND)	0.05	0.53	0.05	0.055	0.05	0.53	0.10	0.2	–	–	6.2	6.2
Fluorene	c, nv	<1 (ND)	1	0.11	0.05	<0.05 (ND)	0.05	0.093	0.05	<0.05 (ND)	0.05	0.11	0.09	0.2	–	–	240	2.40E+02
Phenanthrene	c, nv	<1 (ND)	1	0.52	0.05	0.13	0.05	0.29	0.05	0.051	0.05	0.52	0.22	0.2	–	–	–	–
Anthracene	c, nv	<1 (ND)	1	0.053	0.05	<0.05 (ND)	0.05	0.064	0.05	<0.05 (ND)	0.05	0.064	0.06	0.2	–	–	1800	1.80E+03
Fluoranthene	nc, nv	<1 (ND)	1	0.45	0.05	0.24	0.05	0.23	0.05	0.066	0.05	0.45	0.24	0.2	–	–	1500	1.50E+03
Pyrene	c, nv	<1 (ND)	1	0.38	0.05	0.18	0.05	0.15	0.05	0.057	0.05	0.38	0.20	0.2	–	–	1100	1.80E+02
Benz[a]anthracene	c, nv	<1 (ND)	1	0.14	0.05	0.062	0.05	0.082	0.05	<0.05 (ND)	0.05	0.14	0.10	0.0018	–	–	0.078	2.90E-02
Chrysene	nc, nv	<1 (ND)	1	0.30	0.05	0.018	0.05	0.18	0.05	<0.05 (ND)	0.05	0.30	0.10	0.0018	–	–	7.8	2.9
Benzo[b]fluoranthene	nc, v	<1 (ND)	1	0.26	0.05	0.16	0.05	0.13	0.05	<0.05 (ND)	0.05	0.26	0.15	0.0018	–	–	0.078	2.90E-02
Benzo[k]fluoranthene	c, nv	<1 (ND)	1	0.081	0.05	0.057	0.05	<0.05 (ND)	0.05	<0.05 (ND)	0.05	0.081	0.07	0.0018	–	–	0.78	2.90E-01
Benzo[a]pyrene	c, nv	<1 (ND)	1	0.15	0.05	0.067	0.05	0.056	0.05	<0.05 (ND)	0.05	0.15	0.09	0.0018	–	–	0.0078	2.90E-03
Indeno[1,2,3-cd]pyrene	c, nv	<1 (ND)	1	0.15	0.05	0.080	0.05	0.056	0.05	<0.05 (ND)	0.05	0.15	0.10	0.0018	–	–	0.078	2.90E-02
Benzo[g,h,i]perylene	nc, nv	<1 (ND)	1	0.15	0.05	0.091	0.05	0.060	0.05	<0.05 (ND) J	0.05	0.15	0.10	0.2	–	–	–	–
Total PAHs (detected)				3.044		1.135		2.091		0.229								
Metals																		
Cadmium	c, nv	<1 (ND)	1	1.34	1	0.80	0.1	0.86	0.2	<1 (ND)	1	1.34	0.75	0.094	<1	–	–	1.80E+01
Chromium (total)	nc, nv	1.92	1	5.32	1	3.13	1	98.7	1	2.77	1	5.32	6.14	100	1	–	–	110 (2)
Copper	c, nv	21.7	1	74.1	1	30.8	1	48.1	1	14.5	1	74.1	32.2	2.7	9	100		1.40E+03
Lead	nc, nv	8.84	1	25.4	1	24.2	1	14.9	0.5	6.28	1	25.4	13.8	0.54	13.3	400		1.50E+01
Nickel	nc, nv	2.16	1	5.22	1	2.77	1	3.62	1	2.74	1	5.22	3.15	NE	5.5	–		7.30E+02
Zinc	nc, nv	321	1	457	1	299	1	395	1	1520	1	1520	483	33	38	600		1.10E+04
Total Petroleum Hydrocarbons																		
DRO	nc, nv	310	50	650	50	360x	50	940	50	290 X	50	650	381	NE	–	10000	–	–
RRO	nc, nv	590	250	1100	250	1220	250	2000	250	<250 (ND)	250	1220	667	NE	–			

Notes:

ND = not detected at or above laboratory method reporting limits

NE = not established.

µg/L = micrograms per Liter

GRO = gasoline-range organics.

DRO = diesel-range organics.

RRO = residual-range organics.

JSCS = Portland Harbor Joint Source Control Strategy, ODEQ and EPA, December 2005

x = Chromatogram pattern is not indicative of diesel

J = Sample is out of control limits, and concentration is considered an estimate