

Mapping Reference: Delorme, King County iMap, and Google Maps



Mapping Reference: Delorme, King County iMap (Aerial, 2015), and Google Maps

Project File: 01-0979-G-F1-2.vsd





Note: This figure contains information in color. Black & white photocopies may not be suitable for review.

Mapping Reference: Google Maps (2017), King County iMap



Mapping Reference: Google Maps, WindWard "Lower Duwamish Waterway Remedial Investigation" (dated July 9, 2010)

oject File: 01-0979-G-F1-4.vsd



10.) THE UNDERGROUND UTILITIES SHOWN HEREON HAVE BEEN LOCATED FROM A COMBINATION OF: 1.) THE FIELD SURVEYED LOCATION OF VISIBLE SURFACE UTILITY STRUCTURES SUCH AS MANHOLE LIDS, GRATES, GAS AND WATER VALVE LIDS, ETC... 2.) AS-BUILT RECORDS AND MAPS OBTINED FROM CLENT, AND 3.) THE FIELD SURVEYED LOCATION OF PAINT OR OTHER MARKS OR MARKENS PLACED BY AN UNDERGROUND UTILITY LOCATIOR SERVICE. WA MARK ON GUARANTEE THAT THE UNDERGROUND UTILITY SHOWN COMPRISE ALL SUCH UTILITES IN THE AREA, ETHER IN SERVICE OR ABANDONED, NOR THAT ARE IN THE EXACT LOCATION SHOWN. AN UNDERGROUND UTILITY LOCATION SERVICE WAN UNDERGROUND UTILITY LINES FOR THIS PROJECT.

UTILITY INVERT ELEVATIONS AND PIPE / FLOW LINE DIAMETERS SHOWN HEREON ARE BASED ON OBSERVATIONS FROM THE TOP OF THE UTILITY STRUCTURE AND ARE APPROXIMATE ONLY. FOR SAFETY REASONS NO PHYSICAL ENTRY INTO THE UTILITY STRUCTURE WAS PERFORMED DURING THE COURSE OF THIS SURVEY.

11.) THE PROPERTY AND RIGHT-OF-WAYS LINES DISPLAYED ON THIS MAP WERE EXTRACTED FROM THE KING COUNTY ONLINE I-MAP WEBSITE AT THE TWE OF THIS SURVEY. THE COORDINATES OF THE CORNERS OF THE PARCELS AS DETERMINED FROM THE WEBSITE WERE USED TO FOSTION THE PARCELS ON THIS MAP. THE DIMENSIONS AND LOCATION OF THE PARCEL LINES ARE APPROXIMATE ONLY.

12.) THE GRAPHIC LOCATION AND SIZE OF SOME PHYSICAL FEATURES SUCH AS FENCES AND UTILITY STRUCTURES MAY BE SLIGHTLY EXAGGERATED FOR CLARITY PURPOSES.

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	Approximate Drawing Scale: 1" = 80'	Site Diagram, PLS, Inc. Survey	Figure
$S^{-10}S^{10}S$	0 ft. 48 ft. 80 ft. 160 ft.	6365 First Avenue South	2
		Seattle, Washington	ے



Project File: 01-0979-G-F3-1.vsd

Mapping Reference: SoundEarth Mapping, PLS Inc. Survey (2015-2017)



Mapping Reference: PLS Inc. Survey (2015-2017), G-Logics Site Measurements



Mapping Reference: EDR Historical Photographs (1969), Tax Assessor Records, SoundEarth Mapping, PLS Inc. Survey (2015-2017), G-Logics Site Measurements



Lean		DRAWN BY: M. JOHNSON
Envir-nment	FIGURE 3 - DUWAMISH MARINE SITE PLAN AND SHEET FLOW DIAGRAM	
4500a 15TH STREET EAST TACOMA, WA 98424 253-922-8823	SAMPSON TUG AND BARGE / DUWAMISH METAL FABRICATION 6361 FIRST AVENUE SOUTH, SEATTLE WA 98109	
	Surface Water Sheet Flow Diag	ram _{Figur}
g-logics	his figure contains information in color. Black & 6365 First Avenue South	ram Figur

Mapping Reference: Lean Environment Stormwater Engineering Report, Figure 3 (March 7, 2016)





Mapping Reference: Google Maps, "Geology of Seattle and the Seattle Area" (Troost and Booth, 2008)



Mapping Reference: Google Maps, "Geology of Seattle and the Seattle Area" (Troost and Booth, 2008)



Mapping Reference: EDR Historical Aerial Photographs, PLS Inc. Survey (2015-2017), G-Logics Site Measurements





oject File: 01-0979-G-F7-2.vsd





Figure 7-2



Mapping Reference: SoundEarth Mapping, PLS Inc. Survey (2015-2017), G-Logics Site Measurements





Cross Section B to B' Duwamish Marine Center Property 6365 First Avenue South Seattle, Washington





Project File: 01-0979-G-F7-4.vsd





Cross Section C to C' Duwamish Marine Center Property 6365 First Avenue South Seattle, Washington

Figure 7-4





Mapping Reference: SoundEarth Mapping, PLS Inc. Survey (2015-2017), G-Logics Site Measurements





white photocopies may not be suitable for review.

Note: This figure contains information in color. Black &

Interim Cleanup Action, Lead Excavatio Duwamish Marine Center Property 6365 First Avenue South

8-2

Seattle, Washington

Mapping Reference: Farallon Consulting Site Closure Report, Figure 11 (September 25, 2002)

















Potential Receptors			
operty kers	Subsistence User	Recreational User	Ecological Receptors
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> > ? ?	 ✓ ✓	 ✓ ✓ ✓ ✓ ✓ ✓ 	 ✓ ✓
9	、	✓ ✓	>
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	○	○○	⊘⊘
eptual Site Model hish Marine Center Property irst Avenue South , Washington		Figure 10-1	











roject File: 01-0979-G-F11-3_Highest Copper in Soil.vsd

Legend		
GLB11	Sample Location Identification	
	Copper Not Analyzed	
•	Copper Not Detected	
\bigcirc	Copper Detected Less than 36.4 mg/kg (Bac Concentration for Copper)	ckground
	Copper Detected Greater than 36.4 mg/kg than 275 mg/kg	and Less
\bigcirc	Copper Detected Greater than 275 mg/kg a than the Most Conservative Selected Clean (550 mg/kg)	and Less up Level
	Copper Detected Greater than 550 mg/kg a than 1,100 mg/kg	and Less
	Copper Detected Greater than 1,100 mg/kg Less than 5,500 mg/kg	g and
	Copper Detected Greater than 5,500 mg/kg	3
$\mathbf{\mathbf{x}}$	Sampling Location Where Copper Was Dete Groundwater Above Applicable Groundwar Cleanup Levels (see Table 2)	ected in ter
n Soil		Figure
		11 0

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GLB11	Sample Location Identification		
	Lead Not Analyzed		
•	Lead Not Detected		
\bigcirc	Lead Detected Less than 16.8 mg/kg (Backgrou Concentration for Copper)	und	
	Lead Detected Greater than 16.8 mg/kg and Le 110 mg/kg	ess than	
\bigcirc	Lead Detected Greater than 110 mg/kg and Less than the Most Conservative Selected Cleanup Level (220 mg/kg)		
	Lead Detected Greater than 220 mg/kg and Less than 440 mg/kg		
	Lead Detected Greater than 440 mg/kg and Le 2,200 mg/kg	ss than	
	Lead Detected Greater than 2,200 mg/kg		
\bigotimes	Sampling Location Where Lead Was Detected Groundwater Above Applicable Groundwater Cleanup Levels (see Table 2)	in	
Soil		Figure	
		11_4	



.B11	Sample Location Identification	
	Mercury Not Analyzed	
•	Mercury Not Detected	
\bigcirc	Mercury Detected Less than 0.105 mg/kg	
	Mercury Detected Greater than 0.105 mg/kg and Less than 0.35 mg/kg	
\bigcirc	Mercury Detected Greater than 0.35 mg/kg and Less than the Most Conservative Selected Cleanup Level (0.7 mg/kg)	
	Mercury Detected Greater than 0.7 mg/kg and Less than 1.4 mg/kg	
	Mercury Detected Greater than 1.4 mg/kg and Less than 7 mg/kg	
	Mercury Detected Greater than 7 mg/kg	
\mathbf{X}	Sampling Location Where Mercury Was Detected in Groundwater Above Applicable Groundwater Cleanup Levels (see Table 2)	

Figure

11-5





Sample Location Identification Zinc Not Analyzed Zinc Not Detected Zinc Detected Less than 85.1 mg/kg (Background **Concentration for Zinc)** Zinc Detected Greater than 85.1 mg/kg and Less than the Most Conservative Selected Cleanup Level (570 mg/kg) Zinc Detected Greater than 570 mg/kg and Less than Zinc Detected Greater than 1,140 mg/kg and Less than Zinc Detected Greater than 5,700 mg/kg Sampling Location Where Zinc Was Detected in Groundwater Above Applicable Groundwater Cleanup Levels (see Table 2)

Figure

11-7









Figure 11-11





Mapping Reference: PLS, Inc. Survey (2015-2017), Ecology Environmental Information Management (EIM) Database.

Sd

ntrations in Soil	gure
Sampling Location Where Chrysene Was Detected in Groundwater Above Applicable Groundwater Cleanup Levels (see Table 2)	s
Total cPAH TEQ Detected Greater than 1.37 mg/kg	
Total cPAH TEQ Detected Greater than 0.274 mg/kg and Less than 1.37 mg/kg	
Total cPAH TEQ Detected Greater than 0.137 mg/kg and Less than 0.274 mg/kg	5
Total cPAH TEQ Detected Greater than 0.068 mg/kg and Less the Most Conservative Selected Cleanup Level (0.137 mg/kg	s than
Total CPAH TEQ Not Detected	
Total cPAH TEQ Not Analyzed	
2 Sample Location Identification	
<u>end</u>	

11-13



Mapping Reference: PLS, Inc. Survey (2015-2017), Ecology Environmental Information Management (EIM) Database.

- 45n - D	Investigation of the second se	
Legend		
GLB12	Sample Location Identification	
	DRO Not Analyzed	
•	DRO Not Detected	
0	DRO Detected Less than 100 mg/kg	
•	DRO Detected Greater than 100 mg/kg and 1,000 mg/kg	Less than
\bigcirc	DRO Detected Greater than 1,000 mg/kg an Most Conservative Selected Cleanup Level (d Less than 2,000 mg/kg)
	DRO Detected Greater than 2,000 mg/kg an 4,000 mg/kg	d Less than
	DRO Detected Greater than 4,000 mg/kg an 15,000 mg/kg	d Less than
	DRO Detected Greater than 15,000 mg/kg	
\bigotimes	Sampling Location Where DRO Was Detecte Groundwater Above Applicable Groundwate Levels (see Table 2)	d in er Cleanup
B1-R**	Asterisks Indicate Locations Where Sheen W on the Boring Logs During Drilling	/as Noted
Conoc	ntrations in Soil	
Conce		Figure
		11-14



Mapping Reference: PLS, Inc. Survey (2015-2017), Ecology Environmental Information Management (EIM) Database.

ncent	rations in Soil	Figure	
B1-R**	Asterisks Indicate Locations Where Sheen Was	Noted	
>>	Sampling Location Where ORO Was Detected in Groundwater Above Applicable Groundwater Cleanup Levels (see Table 2)		
	ORO Detected Greater than 15,000 mg/kg	_	
	ORO Detected Greater than 4,000 mg/kg and I 15,000 mg/kg	ess than	
	ORO Detected Greater than 2,000 mg/kg and L 4,000 mg/kg	ess than	
\bigcirc	ORO Detected Greater than 1,000 mg/kg and L Most Conservative Selected Cleanup Level (2,0	.ess than 100 mg/kg)	
	ORO Detected Greater than 100 mg/kg and Les 1,000 mg/kg	ss than	
ightarrow	ORO Detected Less than 100 mg/kg		
•	ORO Not Detected		
	ORO Not Analyzed		
GLB12	Sample Location Identification		
.egend			

11-15