TABLES

Table 1
Target Elevations for Sediment Stakes (feet)

Percentile	Gage Datum	NGVD 29	NAVD 88
10th (Low Stakes)	2.59	4.14	7.55
50th (Median Stakes)	4.96	6.51	9.92
90th (High Stakes)	9.99	11.54	14.95
Conversion	0.00	1.55	4.96

Notes: Elevation relative to Gage datum = Elevation relative to NAVD88 minus 4.96 feet
Elevation relative to NGVD29 = Elevation relative to NAVD 88 minus 3.41 feet

Table 2
Coordinates and Mudline Elevations for Sediment Stakes

Location	Sediment Stake	Northing(1) (feet)	Easting(1) (feet)	Latitude NAD 1983 (°N)	Longitude NAD 1983 (°W)	Mudline Elevation NAVD88 Datum (feet)	Mudline Elevation Gage Datum (feet)
General Electric	1L	718660.8	7615358.4	45° 36' 54.17"	122° 47' 35.75"	6.93	1.97
	1M	718645.5	7615325.2	45° 36' 54.01"	122° 47' 36.21"	9.11	4.15
	1H	718627.3	7615284.9	45° 36' 53.82"	122° 47' 36.77"	14.89	9.93
Terminal 4	3L	713910.2	7619605.5	45° 36' 08.47"	122° 46' 34.13"	7.86	2.90
	3M	713925.2	7619610.8	45° 36' 08.62"	122° 46' 34.07"	10.78	5.82
	3H	713950.9	7619619.8	45° 36' 08.88"	122° 46' 33.95"	14.29	9.33
Gasco	4L	705823.1	7623542.8	45° 34' 49.75"	122° 45' 35.59"	7.23	2.27
	4M	705804.1	7623535.0	45° 34' 49.56"	122° 45' 35.69"	9.96	5.00
	4H	705793.5	7623528.7	45° 34' 49.45"	122° 45' 35.78"	12.04	7.08
Willamette Cove	5L	705618.6	7627491.8	45° 34' 48.81"	122° 44' 40.01"	7.38	2.42
	5M	705712.9	7627480.4	45° 34' 49.74"	122° 44' 40.21"	12.10	7.14
	5H	705813.8	7627504.4	45° 34' 50.74"	122° 44' 39.91"	15.65	10.69
Atofina	6L	702780.1	7627394.3	45° 34' 20.77"	122° 44' 40.27"	7.02	2.06
	6M	702760.2	7627374.3	45° 34' 20.57"	122° 44' 40.54"	9.69	4.73
	6H	702714.6	7627331.4	45° 34' 20.11"	122° 44' 41.13"	17.38	12.42
GATX	7L	701444.3	7628522.6	45° 34' 07.90"	122° 44' 23.89"	7.07	2.11
	7M	701461.2	7628440.7	45° 34' 08.04"	122° 44' 25.05"	9.47	4.51
	7H	701478.3	7628356.3	45° 34' 08.19"	122° 44' 26.24"	16.27	11.31
Coast Guard	8L	701942.8	7632757.5	45° 34' 13.97"	122° 43' 24.58"	7.01	2.05
	8M	701954.2	7632752.7	45° 34' 14.08"	122° 43' 24.65"	9.00	4.04
	8H	701976.7	7632740.6	45° 34' 14.30"	122° 43' 24.83"	13.41	8.45
Equilon	9L	696756.7	7633304.4	45° 33' 22.94"	122° 43' 14.89"	6.52	1.56
	9M	696708.5	7633245.4	45° 33' 22.44"	122° 43' 15.70"	8.85	3.89
	9H	696687.8	7633216.3	45° 33' 22.23"	122° 43' 16.10"	13.69	8.73

Notes: (1) U.S. State Plane, Oregon North Zone NAD 1983
L, M, H Low, Median, High

DO NOT QUOTE OR CITE:

This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or part.

Table 3
Sediment Level Measurements at the Low Stakes

Transect Number	Location	Stake Installation 7/17/2002 (cm)*	Stake Monitoring 8/5/2002 (cm)*	Stake Monitoring 9/19/2002 (cm)*	Stake Monitoring 10/17/2002 (cm)*	Stake Monitoring 11/20/2002 (cm)*	Stake Monitoring 12/20/2002 (cm)*	Stake Monitoring 3/12/2003 (cm)*	Stake Monitoring 7/10/2003 (cm)*	Stake Monitoring 11/1/2003 (cm)*	Stake Monitoring 1/19/2004 (cm)*
1	General Electric	30	30	30	33	34	34	33	32	31	Missing
3	Terminal 4	30	31	31	32	32	29	35	30	25	18
4	Gasco	30	19	17	21	22	26	30	19	18	22
5	Willamette Cove	30	34	35	34	32	31.5	Could not locate	34	Missing	Missing
6	Atofina	30	31	28	28	30	32	30	28	23	Missing
7	GATX	30	35	38	39	39	43	28	38	40	Missing
8	Coast Guard	27	25	25	28	27	29	29	25	27	Missing
9	Equilon	30	31	38	43	44	46	43	45	48	48

Note: * Distance from top of stake to ground surface

DO NOT QUOTE OR CITE:

This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or part.

Table 4
Sediment Level Measurements at the Median Stakes

Transect Number	Location	Stake Installation 7/17/2002 (cm)*	Stake Monitoring 8/5/2002 (cm)*	Stake Monitoring 9/19/2002 (cm)*	Stake Monitoring 10/17/2002 (cm)*	Stake Monitoring 11/20/2002 (cm)*	Stake Monitoring 12/20/2002 (cm)*	Stake Monitoring 3/12/03 (cm)*	Stake Monitoring 7/10/03 (cm)*	Stake Monitoring 11/1/03 (cm)*	Stake Monitoring 1/19/04 (cm)*
1	General Electric	30	30	28	30	28	27	30	39	Missing	Missing
3	Terminal 4	30	38	36	35	41	45	Reset to 45 cm	46	39	41
4	Gasco	30	26	20	20	27	35	44	26	38	59
5	Willamette Cove	30			30			Missing	Missing	Missing	Missing
6	Atofina	30	30	23	20	22	30	28	Missing	Missing	Missing
7	GATX	30	34	28	31	39	42	47	Reinstalled to 30 cm	26	Missing
8	Coast Guard	30	31	31	31	31	30	31	32	34	32
9	Equilon	30	25	13	10	11	15	27	30	12	25

Note: * Distance from top of stake to ground surface

DO NOT QUOTE OR CITE:

This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or part.

Table 5
Sediment Level Measurements at the High Stakes

Transect Number	Location	Stake Installation 7/17/2002 (cm)*	Stake Monitoring 8/5/2002 (cm)*	Stake Monitoring 9/19/2002 (cm)*	Stake Monitoring 10/17/2002 (cm)*	Stake Monitoring 11/20/2002 (cm)*	Stake Monitoring 12/20/2002 (cm)*	Stake Monitoring 3/12/03 (cm)*	Stake Monitoring 7/10/03 (cm)*	Stake Monitoring 11/1/03 (cm)*	Stake Monitoring 1/19/04 (cm)*
1	General Electric	30	30	30	30	27	26	Missing	Missing	Missing	Missing
3	Terminal 4	30	30	30	30	30	30	30	Missing	Missing	Missing
4	Gasco	30	35	36	37	37	39	Broken off	Missing	Missing	Missing
5	Willamette Cove	30	30	30	30	Missing	Missing	Missing	Missing	Missing	Missing
6	Atofina	30	29	28	29	27	27	Missing	Missing	Missing	Missing
7	GATX	30	30	30	30	26	26	30	30	29	28
8	Coast Guard	30	30	30	30	30	30	30	27	27	27
9	Equilon	30	30	29	29	29	28	31	38	38	38

Note: * Distance from top of stake to ground surface

DO NOT QUOTE OR CITE:
This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or part.

Table 6
Comparison of the Direction and Magnitude of Vertical Sediment Level Changes Indicated by Bathymetric and Stake Measurement Data

Location	Change in Sediment Elevation (cm)			Consistent with Direction of Bathymetric Data Vertical Change?		Consistent with Magnitude of Bathymetric Data Vertical Change?		Consistent with Both Bathymetric Direction and Magnitude?	
	Local Bathymetry	Low Stake	Median Stake	Low Stake	Median Stake	Low Stake	Median Stake	Low Stake	Median Stake
General Electric	7.5D to 7.5S	3D	9D	I	No	Yes	No	No	No
Terminal 4	7.5 to 15S	1D	10D	No	No	No	Yes	No	No
Gasco	7.5D to 7.5S	5D	10D	I	No	Yes	No	No	No
Will Cove	15 to 30D	2S	No Data	No	---	No	---	No	---
Atofina	7.5 to 15D	1D	5D	Yes	Yes	No	Yes	Yes	Yes
GATX	7.5D to 7.5S	3S	19D	I	No	Yes	No	No	No
Coast Guard	15 to 30D	1D	1D	Yes	Yes	No	No	Yes	No
Equilon	7.5 to 15D	6D	16D	Yes	Yes	Yes	Yes	Yes	Yes

D – Deepening
S – Shallowing
I - Indeterminate