

August 26, 2008

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503 944 7000

**Subject: Terminal 4 Phase I Removal Action
Construction Weekly Progress Report for August 18 through 24, 2008**

Dear Sean:

This weekly status report contains information related to the implementation of the Terminal 4 Phase I Removal Action as required by the Administrative Order on Consent (AOC) between the Port of Portland (Port) and the US Environmental Protection Agency (USEPA) signed on October 2, 2003. The reporting period covered by this letter is August 18 through 25, 2008.

SIGNIFICANT DEVELOPMENTS

- Continued dredging of Phase I dredging and capping work during the week. Dredging activities occurred on August 18 through 24, 2008.
- Begin sediment offloading at the Dalles facility. Sediment offloading occurred August 18 through 23, 2008.
- Continued Phase I construction work in Wheeler Bay on August 18 through 22, 2008.

CONSTRUCTION ACTIVITIES PERFORMED

Dredging and Capping

- Mobilized dredging equipment back to the Terminal 4 site.
- Set up turbidity curtain around dredge and haul scow.
- See the attached summary table for quantities dredged each day. Hickey dredged approximately 4,700 cy of sediment during the reporting period (6,000 cy total for the project) Three scows were loaded and transported for offloading during this period (Umpqua, Reedsport, and Chetco). Hickey pumped approximately 125,000 gallons of effluent during this period (142,000 gallons total for the project) into the lash barge.
- The daily survey from August 24, 2008 is attached showing the work completed to date.
- A 20 cy cable arm bucket was used to dredge the sediments August 18 through August 23, 2008. A 10 cy digging bucket was used for dredging on August 24, 2008.
- No water quality exceedances attributable to dredging were documented during the week.
- Offloading equipment, along with the scow Chetco, was mobilized to The Dalles.
- Offloading occurred August 18th through August 23rd. See the attached summary table for quantities offloaded each day. Just under 5,350 tons of sediment were offloaded and hauled to the Wasco County landfill during this period.

- No water quality exceedances attributable to offloading were documented during the week.

Wheeler Bay Shoreline Stabilization

- Removed the fire boat pier within the area of construction.
- Continued limited clearing and grubbing.
- Graded the site.
- Excavated trench for utility relocation.
- Offloaded debris from site.

PROBLEMS ENCOUNTERED AND PROPOSED SOLUTIONS

Dredging and Capping

- On the first day of offloading, water leakage was observed on one truck; however it was raining heavily that day and is unclear if the leakage was related to the rain event or the consistency of the material. As an added safety measure, additional truck lining and drying agent were used as necessary. No truck leakage has been observed throughout the remainder of the reporting period.
- Towards the later part of the week some rip rap and hard native sediments were encountered. The cable arm bucket could not remove the material. A digging bucket was used starting on Sunday to remove this material.
- On Thursday additional investigation was done to evaluate the appropriateness of the background water quality monitoring station. After the data was gathered and with consultation with EPA the background water quality station was moved further offshore. This will put the station at a similar water depth and offset from the shoreline as the compliance point locations.

Wheeler Bay Shoreline Stabilization

- Fire boat pier demolition. Before construction, the intent was to only remove the pile bents shoreward of the silt curtain and all of the spans. Additional bents beyond the silt curtain required removal during demolition due to instability of the structure.

MONITORING ACTIVITIES PERFORMED

Dredging and Capping

- Water quality monitoring activities occurred during the dredging activities as described in the EPA-issued Water Quality Monitoring and Compliance Conditions Plan (WQMCCP) and the WQMP (Appendix H of the Final Remedial Action Work Plan).

Wheeler Bay Shoreline Stabilization

- Air monitoring occurred throughout the reporting period except on days of rain.

SUMMARY OF MONITORING DATA COLLECTED AND RECEIVED

Dredging and Capping

- Attachment D contains a summary of the daily field parameters and chemistry analytical results for this reporting period. No water quality exceedances attributable to dredging were documented during the week.

- No chemical criteria were exceeded during the dredging activities that occurred during this reporting period.
- Air monitoring data completed at the offloading facility on August 18, 2008 and August 21, 2008 indicated no issues with air quality from the offloading activities.
- No water quality exceedances attributable to offloading were documented during the week (see Attachment E).

Wheeler Bay Shoreline Stabilization

- Air monitoring data indicated no issues with air quality from dust at the Wheeler Bay construction site.

SCHEDULE OF ACTIVITIES TO BE PERFORMED DURING NEXT REPORTING PERIOD

Dredging and Capping

- Completing the dredging of Berth 411 "Plus" area and early start on dredging of the Berth 410 area.

Wheeler Bay Shoreline Stabilization

- Continue regarding of the shoreline and placement of import materials.

If you have any questions, please call me at (503) 944-7323.

Sincerely,



Nicole LaFranchise
Environmental Project Manager

Attachments:

- Table 1: Terminal 4 Removal Action Dredging Log Summary
- Table 2: Offloading Facility Tracking Log
- Figure 1: August 24, 2008 Daily Survey
- Attachment A: Daily Construction Monitoring Reports for Dredging and Capping
- Attachment B: Daily Construction Monitoring Reports for Wheeler Bay
- Attachment C: Daily Construction Monitoring Reports for the Transloading Facility
- Attachment D: Daily Results from Water Quality Monitoring Activities at Terminal 4
- Attachment E: Daily Results from Water Quality Monitoring Activities at the Transloading Facility

Table 1 - Terminal 4 Removal Action Dredging Log Summary

Date	Scow	Sediment Wt in Tons (1)		Dredge Volume in CY (2)		Lash Barge Water in Gal (3)		Total Work Hours		Actual Dredge Hours		Daily Dredging Production Rate in cy/hr		Area Dredged
		Day	Total	Day	Total	Day	Total	Day	Total	Day	Total	Dredge Hours	Total Hrs	
12-Aug-08	Chetco	391	391	277	277	0	0	10.0	10.0	2.3	2.3	123	28	414 Square
13-Aug-08	Chetco	1,144	1,535	811	1,088	10,724	10,724	12.5	22.5	6.8	9.0	120	65	Slip 3 Square
14-Aug-08	Chetco	360	1,895	255	1,343	5,360	16,084	9.0	31.5	2.5	11.5	102	28	Slip 3 Square
18-Aug-08	Umpqua	849	2,744	602	1,945	10,724	26,808	16.0	47.5	6.8	18.3	89	38	Berth 411 Sta 12-24
19-Aug-08	Umpqua	984	3,728	698	2,643		26,808							
	Reedsport	565	4,293	372	3,015	5,362	32,170	16.0	63.5	9.2	27.4	117	67	Berth 411 Sta 10-40 outside; Sta 12-18 inside
20-Aug-08	Reedsport	760	5,053	539	3,554	26,811	58,981	16.0	79.5	12.3	39.7	44	34	Cell 1, 2, 3, 4, 5
21-Aug-08	Reedsport	624	5,677	442	3,996									
	Chetco	442	6,119	395	4,391	18,500	77,481	16.0	95.5	10.3	49.9	82	52	Cells 2, 3, 5, 6, and 9--grade pass
22-Aug-08	Chetco	1,270	7,389	875	5,266	16,087	93,568	16.0	111.5	13.0	62.9	98	79	Cells 7, 8, 9, 10
23-Aug-08	Chetco	675	8,064	465	5,731	32,710	126,278	16.0	127.5	10.8	73.7	125	84	Cells 1, 6, 10, 11 and side slopes
24-Aug-08	Umpqua	411	8,475	283	6,014	15,638	141,916	12.0	139.5	5.3	78.9	142	62	Cells 4, 2, and 3

Notes

(1) Estimated from barge displacement

(2) Estimated assuming 1.41 tons/cy and barge displacement tonnage

(3) Estimated by stick

Running gallons effluent per cubic yard dredged	23.6	11.7%
Running production rate (cy/total work hours)	43	
Running production rate (cy/actual dredge hours)	76	
Running efficiency (dredge hours/total work hours)	57%	
Percent of B411 "Plus" net line volume removed	127%	
Percent of B410 net line volume removed		

**Table 2 - Offloading Facility Tracking Log
Terminal 4 Phase I Removal Action**

Recorded at Transfer Station				Recorded at Landfill			Daily Total	Barge Total
Load	Date	Time Out	Truck No.	Barge	TICKET #	Tons	(tons)	(tons)
1.	8/18	11:00	N/A	Chetco	12349	33.17		
2.	8/18	N/A	N/A	Chetco	12353	33.07		
3.	8/18	N/A	N/A	Chetco	12357	23.12		
4.	8/18	12:10	N/A	Chetco	12359	32.50		
5.	8/18	N/A	N/A	Chetco	12362	32.00		
6.	8/18	12:28	N/A	Chetco	12364	32.72		
7.	8/18	N/A	N/A	Chetco	12366	33.03		
8.	8/18	13:30	N/A	Chetco	12371	26.14		
9.	8/18	13:45	N/A	Chetco	12374	33.65		
10.	8/18	N/A	N/A	Chetco	12379	31.68		
11.	8/18	14:25	N/A	Chetco	12384	32.99		
12.	8/18	14:47	N/A	Chetco	12389	32.45		
13.	8/18	15:43	N/A	Chetco	12391	30.29		
14.	8/18	15:58	8508	Chetco	12392	34.00	440.81	
<hr/>								
1.	8/19	6:43	51	Chetco	12400	31.53		
2.	8/19	6:58	41	Chetco	12402	34.07		
3.	8/19	7:08	20	Chetco	12403	32.39		
4.	8/19	7:21	10	Chetco	12407	34.22		
5.	8/19	7:35	19	Chetco	12408	36.22		
6.	8/19	7:48	46	Chetco	12409	33.55		
7.	8/19	8:27	51	Chetco	12413	32.32		
8.	8/19	8:53	41	Chetco	12420	33.26		
9.	8/19	9:05	20	Chetco	12421	32.70		
10.	8/19	9:40	10	Chetco	12425	37.34		
11.	8/19	9:57	19	Chetco	12430	32.56		
12.	8/19	10:15	51	Chetco	12432	34.10		
13.	8/19	10:44	41	Chetco	12436	32.61		
14.	8/19	10:58	46	Chetco	12439	32.58		
15.	8/19	11:12	20	Chetco	12441	32.80		
16.	8/19	11:29	10	Chetco	12444	27.86		
17.	8/19	11:45	19	Chetco	12448	33.18		
18.	8/19	12:49	41	Chetco	12461	34.89		
19.	8/19	13:03	20	Chetco	12463	32.24		
20.	8/19	13:28	10	Chetco	12465	29.46		
21.	8/19	13:41	51	Chetco	12466	32.83		
22.	8/19	13:56	19	Chetco	12469	32.60		
23.	8/19	14:11	46	Chetco	12470	33.20		
24.	8/19	14:31	41	Chetco	12475	31.42		
25.	8/19	14:55	20	Chetco	12479	32.27		
26.	8/19	15:13	10	Chetco	12483	33.33		
27.	8/19	15:28	51	Chetco	12485	35.32		
28.	8/19	15:42	19	Chetco	12488	33.15	924.00	
<hr/>								
1.	8/20	6:28	51	Chetco	12494	33.23		
2.	8/20	6:45	46	Chetco	12497	32.13		
3.	8/20	6:58	41	Chetco	12498	32.87		
4.	8/20	7:15	20	Chetco	12504	32.31		
5.	8/20	7:31	10	Chetco	12506	22.86		
6.	8/20	8:05	51	Chetco	12509	33.03		
7.	8/20	8:48	41	Chetco	12517	32.48		

**Table 2 - Offloading Facility Tracking Log
Terminal 4 Phase I Removal Action**

Recorded at Transfer Station				Recorded at Landfill			Daily Total	Barge Total
Load	Date	Time Out	Truck No.	Barge	TICKET #	Tons	(tons)	(tons)
8.	8/20	9:00	20	Chetco	12522	32.97		
9.	8/20	9:17	10	Chetco	12541	32.70		
10.	8/20	9:37	46	Chetco	12540	32.31		
11.	8/20	10:22	41	Chetco	12545	32.64		
12.	8/20	10:30	51	Chetco	12550	27.52		
13.	8/20	10:49	20	Chetco	12555	34.05		
14.	8/20	11:06	10	Chetco	12554	32.58		
15.	8/20	11:42	46	Chetco	12559	32.85		
16.	8/20	11:58	51	Chetco	12560	33.70		
17.	8/20	12:08	41	Chetco	12562	32.83		
18.	8/20	12:16	20	Chetco	12565	32.97		
19.	8/20	12:25	19	Chetco	12572	33.66		
20.	8/20	12:43	10	Chetco	12578	33.46		
21.	8/20	1:26	51	Chetco	12579	32.62		
22.	8/20	1:59	41	Chetco	12591	32.21		
23.	8/20	2:08	20	Chetco/Umpqua	12587	33.05		2,105.84
24.	8/20	2:26	46	Umpqua	12588	27.90		
25.	8/20	2:42	19	Umpqua	12590	34.56		
26.	8/20	2:54	10	Umpqua	12595	35.35		
27.	8/20	3:03	51	Umpqua	12597	33.63		
28.	8/20	3:38	41	Umpqua	12599	32.81		
29.	8/20	3:47	20	Umpqua	12602	34.86		
30.	8/20	4:17	19	Umpqua	12604	32.26		
31.	8/20	4:35	51	Umpqua	12603	31.35		
32.	8/20	4:50	46	Umpqua	12606	24.78		
33.	8/20	5:10	41	Umpqua	12605	32.82	1,061.35	
1.	8/21	6:13	46	Umpqua	12607	33.15		
2.	8/21	6:25	51	Umpqua	12611	34.88		
3.	8/21	6:40	41	Umpqua	12614	34.15		
4.	8/21	6:46	19	Umpqua	12615	31.75		
5.	8/21	7:05	20	Umpqua	12620	34.03		
6.	8/21	7:17	10	Umpqua	12621	31.38		
7.	8/21	7:40	46	Umpqua	12623	33.04		
8.	8/21	7:50	51	Umpqua	12624	34.82		
9.	8/21	8:14	41	Umpqua	12627	33.16		
10.	8/21	8:24	19	Umpqua	12629	31.85		
11.	8/21	8:58	10	Umpqua	12635	26.87		
12.	8/21	9:28	46	Umpqua	12637	33.31		
13.	8/21	9:36	51	Umpqua	12639	33.46		
14.	8/21	9:51	22	Umpqua	12644	33.41		
15.	8/21	10:00	20	Umpqua	12643	35.34		
16.	8/21	10:09	41	Umpqua	12646	34.80		
17.	8/21	10:33	19	Umpqua	12648	33.50		
18.	8/21	10:44	10	Umpqua	12651	32.77		
19.	8/21	10:53	46	Umpqua	12654	32.91		
20.	8/21	11:07	51	Umpqua	12659	33.17		
21.	8/21	11:24	20	Umpqua	12664	34.30		
22.	8/21	11:37	22	Umpqua	12670	32.96		
23.	8/21	11:53	41	Umpqua	12671	32.40		

**Table 2 - Offloading Facility Tracking Log
Terminal 4 Phase I Removal Action**

Recorded at Transfer Station				Recorded at Landfill			Daily Total (tons)	Barge Total (tons)
Load	Date	Time Out	Truck No.	Barge	TICKET #	Tons		
24.	8/21	11:59	19	Umpqua	12674	24.97		
25.	8/21	12:26	10	Umpqua	12676	33.99		
26.	8/21	12:40	51	Umpqua	12681	34.12		
27.	8/21	1:16	20	Umpqua	12683	32.66		
28.	8/21	1:40	46	Umpqua	12685	33.64		
29.	8/21	2:05	22	Umpqua	12688	32.93		
30.	8/21	2:25	41	Umpqua	12689	33.26		
31.	8/21	2:38	19	Umpqua	12692	33.40		
32.	8/21	2:53	51	Umpqua	12693	33.60		
33.	8/21	3:02	10	Umpqua	12695	32.05		
34.	8/21	3:25	20	Umpqua	12697	33.60		
35.	8/21	3:40	46	Umpqua	12703	34.71		
36.	8/21	4:03	22	Umpqua	12700	33.90	1,188.24	
1	8/22	6:15	46	Umpqua	12704	32.66		
2	8/22	6:31	51	Umpqua	12708	31.32		
3	8/22	6:42	41	Umpqua	12712	33.08		
4	8/22	7:05	22	Umpqua	12715	34.59		
5	8/22	7:12	20	Umpqua	12718	32.91		
6	8/22	7:22	10	Umpqua	12719	27.30		
7	8/22	8:10	51	Umpqua	12723	32.89		
8	8/22	8:18	46	Umpqua	12725	33.33		
9	8/22	8:47	41	Umpqua	12732	33.75		
10	8/22	9:02	20	Umpqua	12734	32.85		
11	8/22	9:26	26	Umpqua	12736	33.61		
12	8/22	9:35	10	Umpqua	12739	32.33		
13	8/22	9:49	51	Umpqua	12741	34.25		
14	8/22	9:56	46	Umpqua	12743	33.58		
15	8/22	10:24	41	Umpqua	12748	34.02		
16	8/22	10:35	20	Umpqua/Reedsport	12749	33.16		2,034.19
17	8/22	11:04	22	Reedsport	12755	35.41		
18	8/22	11:15	51	Reedsport	12757	33.95		
19	8/22	11:55	46	Reedsport	12765	32.97		
20	8/22	12:06	41	Reedsport	12770	32.52		
21	8/22	12:28	21	Reedsport	12773	33.06		
22	8/22	12:40	22	Reedsport	12780	35.54		
23	8/22	12:55	51	Reedsport	12785	35.10		
24	8/22	1:05	21	Reedsport	12786	32.47		
25	8/22	1:20	46	Reedsport	12789	32.44		
26	8/22	1:45	26	Reedsport	12793	32.67		
27	8/22	2:30	22	Reedsport	12804	37.11		
28	8/22	2:37	51	Reedsport	12805	33.31		
29	8/22	2:49	41	Reedsport	12808	33.08		
30	8/22	3:15	21	Reedsport	12822	32.80		
31	8/22	3:44	46	Reedsport	12829	32.16		
32	8/22	3:53	51	Reedsport	12830	33.77		
33	8/22	4:05	22	Reedsport	12831	36.32		
34.	8/22	4:22	41	Reedsport	12832	31.96	1,132.27	
1	8/23	6:10	46	Reedsport	12842	32.62		
2	8/23	6:21	51	Reedsport	12843	34.09		

**Table 2 - Offloading Facility Tracking Log
Terminal 4 Phase I Removal Action**

Recorded at Transfer Station				Recorded at Landfill			Daily Total	Barge Total
Load	Date	Time Out	Truck No.	Barge	TICKET #	Tons	(tons)	(tons)
3	8/23	6:43	41	Reedsport	12845	32.35		
4	8/23	6:57	22	Reedsport	12846	36.00		
5	8/23	7:34	46	Reedsport	12850	32.04		
6	8/23	7:46	51	Reedsport	12852	34.56		
7	8/23	8:13	41	Reedsport	12854	33.36		
8	8/23	9:05	51	Reedsport	12859	32.65		
9	8/23	9:30	46	Reedsport	12863	33.00		
10	8/23	9:57	41	Reedsport	12866	33.31		
11	8/23	10:19	51	Reedsport	12868	34.51		
12	8/23	10:30	22	Reedsport	12870	32.64		
13	8/23	10:47	46	Reedsport	12871	32.67		
14	8/23	11:27	41	Reedsport	12872	32.13		
15	8/23	11:48	51	Reedsport	12874	34.87		
16	8/23	12:04	22	Reedsport	12875	32.49		
17	8/23	12:12	46	Reedsport	12876	33.21		
18	8/23	12:57	41	Reedsport	12881	33.43	599.93	

713498

7620147

7620247

7620347

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TERMINAL 4

30 BERTH 411

40

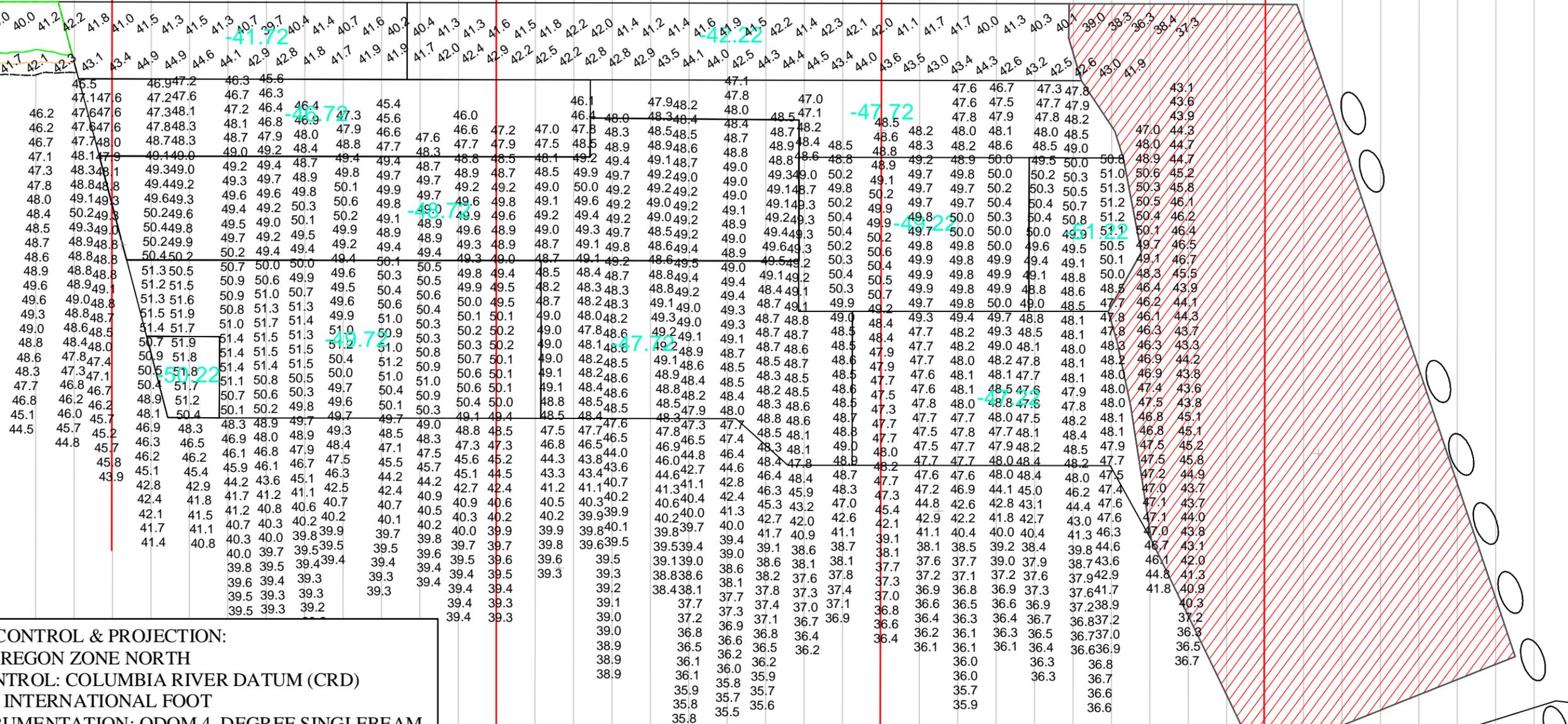
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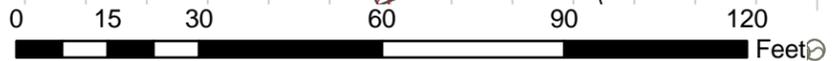
713298



1. HORIZONTAL CONTROL & PROJECTION:
NAD 83 SPCS OREGON ZONE NORTH
2. VERTICAL CONTROL: COLUMBIA RIVER DATUM (CRD)
3. SURVEY UNIT: INTERNATIONAL FOOT
4. SUREVY INSTRUMENTATION: ODOM 4 -DEGREE SINGLEBEAM
TRANSDUCER & HYDROTRAC ECHOSOUNDER
5. HORIZONTAL CONTROL METHOD: DGPS
6. PRIMARY POSITIONING SYSTEM: CSI R110

1 inch = 30 feet

NOTE: SOUNDINGS ARE IN FEET RELATIVE TO CRD




**eTrac
Engineering, LLC**
www.etracengineering.com
705 Fawn Ave
San Anselmo, CA 94960



**HICKEY MARINE
ENTERPRISES, INC**
6801 NW Old Lower River Rd
Vancouver, WA 98660



PORT OF PORTLAND
121 NW EVERETT STREET
PORTLAND, OREGON 97209

TERMINAL 4 - SLIP 3

REMOVAL ACTION - PHASE 1 - DREDGING & CAPPING
DAILY HYDROGRAPHIC SURVEY DATA

SURVEY DATE: 08/24/2008 SURVEYOR: JDM

ATTACHMENT A
DAILY CONSTRUCTION MONITORING REPORTS FOR DREDGING
AND CAPPING



PROJECT T4 Removal Action-Phase 1 Dredging and Capping CONTRACT NO. 820027/2008D013
 CONTRACTOR Hickey Marine Inc. SUPERINTENDENT Darrell Jamison
 DAY OF WEEK & DATE: Mon., Aug 18, 2008 REPORT NO. 04
 WEATHER Morning Rain, partial cloudy TEMPERATURE L 62 H 84

<u>NUMBER/CLASS OF CONTRACTOR'S PERSONNEL:</u>	<u>MAJOR EQUIPMENT ON JOB (Size/capacity and hours):</u>
Hickey Dredge Crew: Superintendent Crane operator 3 Deck hands Subcontractor: MSG surveyor: Crew 3	Crane/Derrick with 2 Barge/Scow

CHRONOLOGICAL ACCOUNT OF DAY'S WORK:

(08:00 – 21:30) Contractor's working hours while dredging at berth 411 dredging area.

Contractor re-mobilized back to slip 3, and will be concentrating dredging berth 411.

Crews spent all morning getting derrick/crane prepared for dredging, boom position verification using GPS. Including adding an additional 200 lin ft of new silt curtain, and placing curtain surrounding both crane derrick and barges. This is contractor's second sediment barge, Umpqua, that will be filled this week during dredging operations.

MSG crews on dock, berth 410 & 411, using Port TBM's, shooting to of dock from one end to the other which will be used to determine if dock has settled or not after crane had dredged along face of dock for both berths 410/411.

Anchor water quality control crew with boat on site.

(10:45) Hickey's superintendent (DJ) with Anchor (BH) and Port (NL,PGB) at T4 admin building, discussed implementing additional BMP's as per EPA's request while contractor continues to daily reach turbidity exceedance.

(11:00) Hickey's crane operator (Phil) arrived on site.

(14:30) Contractor started dredging at head of slip 3, berth 411.

Crane operator continues taking extra measures when dredging to minimize amount of turbidity by allowing bucket to stabilize at mudline before closing it, bringing it up slowly when full and a silt curtain is in-place around derrick and barge/scow. Crew also secured tarps along side of barge/scow to prevent any sediment escaping from the bucket and landing on the barge's walkway.

(15:30) Turbidity crew tested water quality and reached an exceedance in the early warning location, went out to compliance area (mouth of slip) and did not receive any exceedance.

Contractor did not have any pumping operations during the day shift, removing water from sediment barge/scow and pumping it into concealed barge.

EPA representative (AS) on site monitoring dredging operations .

(



DAILY DIARY

PROJECT T4 Removal Action-Phase 1 Dredging and Capping CONTRACT NO. 820027/2008D013

CONTRACTOR Hickey Marine Inc. SUPERINTENDENT Darrell Jamison

DAY OF WEEK & DATE: Mon., Aug 18, 2008 REPORT NO. 04

WEATHER Morning Rain, partial cloudy TEMPERATURE L 62 H 84

TESTING LABORATORY ON SITE: _____ HRS: _____	
TESTS PERFORMED: _____	
<u>PHONE LOG:</u>	
<u>SITE PHOTOS/VIDEOS TAKEN:</u>	<u>FORCE ACCOUNT WORK/ CHANGES ENCOUNTERED:</u>

INSPECTOR Philipp G. Bales HRS _____ DATE 8-14-8
(signature on hardcopy)

DAILY REPORT OF OPERATIONS:

CONTRACT NO:

TO: **P.O.P.** CONTRACTOR: **HME** DATE(S): **8/18/08** REPORT NO: **4**
 CONTRACT DAY: **7**

PROJECT AND BAR: NAME: **Terminal 4 Removal Action** AUTHORIZED DIMENSIONS: **80x100** WIDTH: **100** DEPTH: **Remove 3'**
BERTH 411
 LOCATION: (include station no.) **END OF SLIP - station 12-24** OVERDEPTH: **1'**

DREDGE: NAME & TYPE: **SEA HORSE** SIZE: **135 Ton** DIPPER OR **BUCKET**
 HORSEPOWER OF **900** **20** CY. CAP.
 NUMBER OF CREW MEMBERS: Dredge: **11** Shore: Other: Total: **11** WORK SCHEDULE: Shifts per day: **2** Days per week: **7**

CHANNEL CONDITION: AVERAGE BEFORE DREDGING: **-40** AFTER DREDGING: **-43** MINIMUM BEFORE DREDGING: **-38** AFTER DREDGING: **-42**

CHARACTER OF MATERIAL AND PERCENTAGE: GRAVEL: MUD: **70** STONE: SAND: **3** CLAY: HARDPAN: SILT: **25** OTHERS: **2** DISTRIBUTION OF TIME: EFFECTIVE WORKING TIME (chargeable to cost of work): **6** HOURS: **45** MIN

WORK PERFORMED: PUMPING OR DREDGING: **6** **45**
 ITEM: UNIT: QTY: AVERAGE WIDTH OF CUT: FEET: **80** NON-EFFECTIVE WORKING TIME
 TOTAL ADVANCE THIS PERIOD: FEET: **100** HANDLING ANCHOR LINES
 TOTAL ADVANCE PREVIOUS TO THIS PERIOD: FEET: **140** WAITING FOR SCOWS Set up: **1** **30**
 TOTAL ADVANCE TO DATE: FEET: **240** TO AND FROM WARF OR ANCHORAGE
 WATER PUMPED THIS PERIOD: **0** CHANGING LOCATION OF PLANT ON JOB
 WATER PUMPED PREVIOUS TO THIS PERIOD: LOSS DUE TO OPPOSING NATURAL ELEM.
 TOTAL WATER PUMPED TO DATE: **26,808 gal** LOSS DUE TO PASSING VESSELS
 AVERAGE DREDGED PER PUMP HOUR, GROSS: CU. YD: **89** SHORE LINE AND SHORE WORK Turbidity Boom: **3**
 SCOWS LOADED: NUMBER: **—** MINOR OPER. REPAIRS (explain below): **2** **15**
 AVERAGE LOAD PER SCOW: CU. YD: **—** WAITING FOR ATTENDANT PLANT

CUBIC YARDS REMOVED: PREPARATION AND MAKING UP TOW: **1**
 AMOUNT DREDGED THIS PERIOD: TRANSFERRING PLAN BETWEEN WORKS: **1** **15**
 (1) GROSS (computed amount): **602** LAY TIME OFF SHIRT AND SATURDAYS
 (2) CREDITED (pay place): SUNDAYS AND HOLIDAYS
 AMOUNT PREVIOUSLY REPORTED: SAFETY MEETING: **15**
 (1) GROSS (computed amount): **1,344** WATER PUMPING
 (2) CREDITED (pay place): TOTAL NON-EFFECTIVE WORKING TIME: **9** **15**
 AMOUNT DREDGED TO DATE: TOTAL EFFECTIVE AND NON-EFFECTIVE TIME (chargeable to cost of work): **16** **00**
 (1) GROSS (computed amount): **1,946**
 (2) CREDITED (pay place)

ATTENDANT PLANT: LOST TIME (chargeable to cost of work)
 ITEM: NAME OR NUMBER: HOURS: TUB: **HUSKY**: **16**
 MATERIAL BARGE: **umpova**: **16**
 Water Barge: **LASH Comdo**: **16**
 Survey / crew: **Piggy**: **16**

Has anything developed which might lead to a change order or claim: **3 ha used to add Turbidity Boom 200' AND SECURE**
 MISCELLANEOUS:
 MAJOR REPAIRS AND ALTERATIONS:
 CESSATION:
 MISCELLANEOUS:
 TOTAL LOST TIME:
 TOTAL TIME IN PERIOD:

ALL WORK PERFORMED DURING THIS PERIOD COMPIES WITH THE CONTRACT SPECIFICATIONS AND DRAWINGS:

TITLE: **Superintendent**

SIGNATURE: *[Signature]*



HICKEY MARINE ENTERPRISES

6801 NW Old Lower River Road
Vancouver, WA 98660
(360) 695-4553 (503) 284-1140

M T W TH F S S

Job Name Terminal 4 Date 8/18/08

Job No. 2428 Weather _____

- Equipment: Sea Hawk Sea Vulture Sea Lion Viking 966 Loader Chetco
- Barge 174 Barge 34 BK5 Nova Barge 47 Barge Harvey A
- Manlift Other UMPQVA, SEA HORSE

Equipment Safety Checks Performed? YES / No

Personal Protective Equipment Safety Checks Performed? YES / No

Work performed today

06:00 - 7:00	WARM up - Build Tow
7:00 - 8:15	TBL MOVES Horse to T-4 - Husky Barges LASH BARGE
8:15 - 10:00	SET up to DIG - Rig pumps Hook up Bucket. (safety meet)
10:00 - 13:00	ADD 300' of Turbidity Boom - Deploy AND SECURE ->
13:00 - 14:00	Work on GPS ON CRANE - Deploy oil absorbent Boom
14:00 - 16:15	LOAD #2 UMPQVA
16:15 - 16:30	Replace Closing line Control VALVE
16:30 - 21:00	LOAD #2 Finish PASS 1
21:00 - 22:00	Service - SECURE - Fuel

Extra work or delays (authorized by) _____

3 hours to ADD 300' OF Turbidity Boom AND connect to EXISTING 300'.

Sign _____



DAILY QUALITY CONTROL REPORT

Daily Report No. 4

Date: 8/18/08

Contract No. _____

Project Title: T-4 Removal Action

Location: BERTH 411

Weather: cloudy

Temperature: 65 Min. 78 Max

1. Contractor/Subcontractors and Area of Responsibility:

NUMBER	TRADE	HOURS	EMPLOYER	LOCATION/DESCRIPTION OF WORK
<u>11</u>	<u>DREDGE</u>	<u>16</u>	<u>HME</u>	<u>411 plus / DREDGE - set up</u>

2. Operating Plant or Equipment. (Not Hand Tools)

Plant/Equipment	Date of Arrival/Departure	Date of Safety Check	Hours Used	Hours Idle	Hours Repair
<u>SEA HORSE</u>	<u>8/18</u>	<u>8/18</u>	<u>6⁴⁵</u>	<u>7</u>	<u>2¹⁵</u>
<u>Umpqua</u>	<u>8/18</u>	<u>8/18</u>	<u>16</u>		
<u>Husky</u>	<u>8/18</u>	<u>8/18</u>	<u>1¹⁵</u>	<u>14⁴⁵</u>	
<u>Debra</u>	<u>8/18</u>	<u>8/18</u>		<u>16</u>	
<u>Piggy</u>	<u>8/18</u>	<u>8/18</u>	<u>16</u>		

1. Work performed today: (Indicate location and description of work performed by prime and/or subcontractors by letter in table above).

MOVE in to DREDGE 411 plus, SET up turbidity boom AND oil absorbent Boom. BEGIN DREDGING 1 pass REMOVING 3' BEGINNING AT

HEAD of slip WORKING OFFSHORE, (Station 12 - 24)

Finish cut ~~or~~ (PASS) #1

2. Results of control activities: (Indicate whether P - Preparatory, I - Initial, or F - Follow-up phase. When a P or I meeting is conducted, complete attachment 1-A or 1-B, respectively. When network analysis system is used, identify work by use of I-J numbers.

1. VERIFY GPS on Boom tip (SEE ATTACHMENT)
2. PERFORM ALL Daily Tests
3. 6.5 Buckets per hour
4. NO WATER pumped into LASH BARGE

3. Offsite surveillance activities, including action taken:

WORKED with Phillip Bales on organizing spider hoe approach on HEAD of slip. P.O.P. will cut back water lines for spider hoe to work BANK

4. Job Safety: (Report violations; corrective instructions given; corrective actions taken).

1. GO OVER CHASP with NEW EMPLOYEES on DREDGE
2. PPE worn to AND FROM DREDGE
3. TYFEK worn when pumping, KEEP DECON STATION CLEAN.

5. Remarks: (Instructions received or given. Conflict(s) in plans and/or specifications).

1. Implicated more Bmp's to Aid in better test results for turbidity
2. ADDED ADDITIONAL turbidity Boom (300') @ 19' of Depth
3. All compliance tests PASSED, EXCEPT LAST ONE which was DETERMINED to be CAUSED by a ELEVATED Background from RECENT RAIN showers.

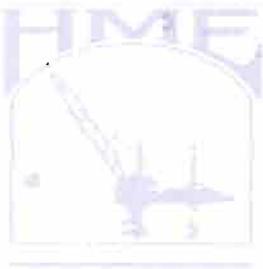
Contractor's Verification: On behalf of the Contractor, I certify this report is complete and correct, and all materials and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as noted above.

Authorized CQC Rep at Site

Date



8/19/08



**T-4/ The Dalles Offload Site
Daily Inspection Checklist**

Date 8/18/08

1) Safety Meeting:

Agenda: SCOPE OF WORK, BRING NEW CREW
UP TO DATE

Attendees:

[Signature]
[Signature]
[Signature]
[Signature]
[Signature]

[Signature]
[Signature]
[Signature]
[Signature]

Derrick SEAHORSE

Derrick Sea Vulture

2) Crane Inspection:

"Attach Operator Log/Inspection Log"

3) Plant Inspection

Deficiencies:

Date

Date Corrected

Closing line control valve (stick)

8/18

8/18

NO REVERSE ON STARBOARD

8/12

Pibby Engine

4) Staff Gage Check

Time

Tideboard

Tide Track

11:00

3.21

3.19

12:00

2.9

2.9

15:00

1.9

1.87

5) Main Fuel Tank Levels

Port

Starboard

Height 69

NA

Gallons 6900

300

6) Survey Boat



Fuel

Port 3/4
Starboard 3/4

Hull Depth _____
Sound Velocity _____
Latency _____

No Daily Survey

Position Verification

Boat
X _____
Y _____

Control Point
X _____
Y _____

7) Dredge Material Weight



105 pounds per cubic foot

8) Dredge Boom Tip Verification

Control Point
#20

X 7620400.36
Y 713422.89
X 7620400.37
Y 713422.93

9) Containment and Truck Load Area

Clean Dust Suppression
Fabric Spill Plates

10) Lash Barge:
Keep within 2 ft of trim

Draft PB 9'³ SB 10'⁰ Gallons Pumped Today 0
PS 9' SS 10"
Total Gallons 26,808
Tank Sounding #1 12" #3 6"
#2 0 #4 0

11) Baker Tank Level

#1 _____ #2 _____

12) De con Stations

Clean
Inventory

13) Dust Suppression

Location Bow Time 14:30 Reading 0.037 Background
Location stern Time 14:30 Reading 0.035 0.032
Location umpqua Time 14:30 Reading 0.041
Location Bow Time 17:30 Reading 0.051
Location stern Time 17:30 Reading 0.052 } welding on Deck

14) Cheteo:
umpqua

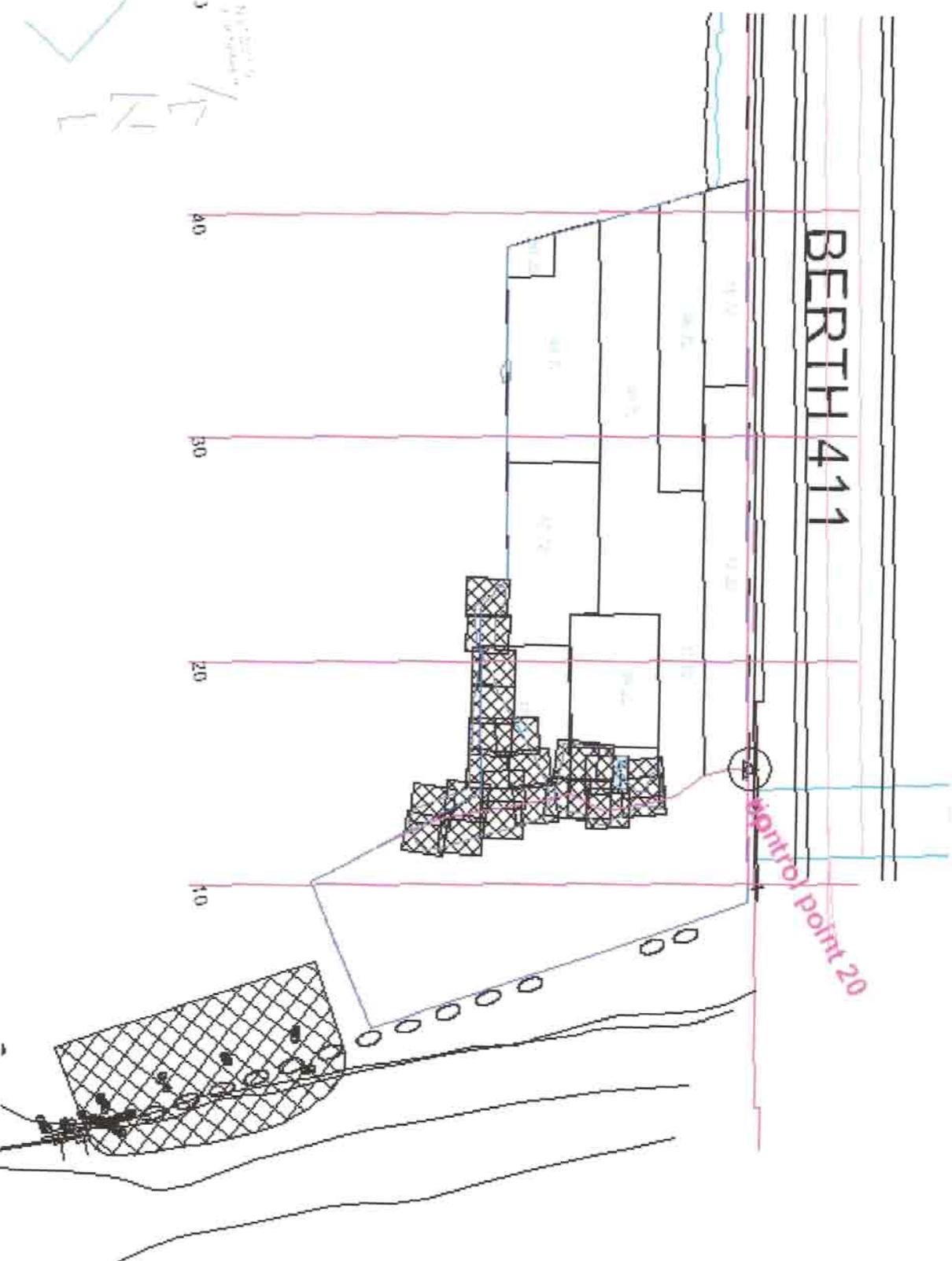
Draft PB 3⁵ SB 3⁵ MT Tons 893 Total Tons
MT PS 3⁹ SS 3⁵ 849
Draft PB 3⁹ SB 3⁹ LD Tons 1742 Total Yards
LD PS 9 SS 9 602

BERTH 411

control point 20

10 20 30 40

3
10/10/2007
10/10/2007



Dredge T

7620305.99	713319.19	0.00	101.90	19.00	17.00	75049
7620321.92	713316.94	0.00	101.12	19.00	17.00	74232
7620337.53	713317.08	0.00	101.47	19.00	17.00	73228
7620354.10	713314.11	0.00	100.93	19.00	17.00	72491
7620368.36	713310.80	0.00	100.75	19.00	17.00	71843
7620394.39	713280.56	0.00	106.89	19.00	17.00	70852
7620369.98	713322.92	0.00	97.46	19.00	17.00	70577
7620382.40	713307.80	0.00	101.04	19.00	17.00	67134
7620395.28	713296.04	0.00	103.69	19.00	17.00	65745
7620392.85	713313.00	0.00	98.31	19.00	17.00	65434
7620385.12	713325.97	0.00	93.68	19.00	17.00	64525
7620406.80	713275.21	0.00	108.66	19.00	17.00	63732
7620409.57	713291.23	0.00	104.21	19.00	17.00	62728
7620405.90	713309.74	0.00	99.36	19.00	17.00	60933
7620400.78	713325.96	0.00	94.36	19.00	17.00	60236
7620384.48	713347.56	0.00	103.48	19.00	17.00	57866
7620386.60	713354.31	0.00	100.68	19.00	17.00	56859
7620392.87	713359.88	0.00	98.86	19.00	17.00	55958
7620396.92	713374.88	0.00	93.89	19.00	17.00	55639
7620400.97	713340.52	0.00	104.08	19.00	17.00	54856
7620407.92	713357.90	0.00	98.33	19.00	17.00	54204
7620405.10	713374.21	0.00	93.96	19.00	17.00	52682
7620402.56	713350.60	0.00	100.52	19.00	17.00	51731



Diary (continued)

Date: 8/19/08

Report Number:

6:30 HME took one dredge cut and then had mechanical problems.

8:50 starting dredging again. Dredge Sea Horse and haul barge Umpqua working.

Talked with Darrell. HME dredged 602 cy yesterday

Electronic tide gauge has been down since the lightning strike yesterday. HME will repair soon. They have been using the physical tide gauges.

10:15 water elevation at 3.9 feet CRD

11:15 water elevation at 3.5 feet CRD

Turbidity elevated at the 50 meter from the center of dredging location (S3A-E) and one of the 100 meter from the center of dredging locations (S3A-N) during each of the three rounds of sampling. No exceedances were reported at the compliance locations 100 m from the mouth of Slip 3 (S3M-N, S3M-M, S3M-N) for Turbidity during the first 3 rounds.

John Verduin
Resident Engineer

John Verduin
Project Engineer



PROJECT T4 Removal Action-Phase 1 Dredging and Capping CONTRACT NO. 820027/2008D013
 CONTRACTOR Hickey Marine Inc. SUPERINTENDENT Darrell Jamison
 DAY OF WEEK & DATE: Tues., Aug 19, 2008 REPORT NO. 05
 WEATHER Lt Morning showers, cloudy afternoon TEMPERATURE L 59 H 80

<u>NUMBER/CLASS OF CONTRACTOR'S PERSONNEL:</u>	<u>MAJOR EQUIPMENT ON JOB (Size/capacity and hours):</u>
Hickey Dredge Crew: Superintendent Crane operator 3 Deck hands Subcontractor: MSG surveyor: Crew 3	Crane/Derrick with 2 Barge/Scow

CHRONOLOGICAL ACCOUNT OF DAY'S WORK:

(06:00 – 21:00) Contractor's working hours while dredging at berth 411 dredging area.

NOTE:

- a) Thus far, contractor has informed Port inspector (PGB) that there is currently 26,808 gal. of waste water in the lash barge representing approx. 1946 cu yds of material removed.
- b) Chetko #1 barge (first barge loaded) had 1344 cu yds of dredged material (1895 tons) when it left for the Dallas Friday, 8-14-8.
- c) Umpqua #1 barge (2nd total barge loaded thus far) was loaded today and left slip 3 for the Dallas at 15:45. Reedport #1 (3rd barge total to date) arrived today at 15:30, and contractor began loading it with B411 dredge material at 16:35.

Port inspector (PGB) on site monitoring dredging operations from 06:00 -15:00. Anchor engineer (JV) monitoring dredging operations from (15:00 – 21:00).

(07:00) Dredging operations started, but do to mechanical problems, dredging operations stopped for repairs till 08:50.

Footmark: 1200

Tide board: 3.6

Oil water boom at head of slip surrounding both barges and crane/derrick. Silt curtain already installed mouth of slip 3.

Contractor kept Umpqua barge on site overnight to continue filling this morning.

Anchor water quality control crew with boat on site.

(07:30-08:30) Contractor has two crews in Tyvek suits pumping out waste water from Umpqua barge/scow into lash barge.

(08:50) Dredging operations resumed, second bucket in water. Contractor conducting their hydro survey of worked areas in B411 "plus" area including area dredged at B411, head of slip 3.



PROJECT T4 Removal Action-Phase 1 Dredging and Capping **CONTRACT NO.** 820027/2008D013
CONTRACTOR Hickey Marine Inc. **SUPERINTENDENT** Darrell Jamison
DAY OF WEEK & DATE: Tues., Aug 19, 2008 **REPORT NO.** 05
WEATHER Lt Morning showers, cloudy afternoon **TEMPERATURE** L 59 H 80

(09:10) Crane continues to dredge approx. 60'-80' from face of dock.
FM 1200
Freeboard: 4.5
Tideboard: +4.0'

(09:50) Crane continues to dredge. Crew no longer pumping out water from Umpqua barge into lash barge
FM 1225, approx. 80' from face of dock
Freeboard: 5 at bow

(10:12) Crane pulled out large log at B411, FM 1230, 24" dia. 30' long
(10:20) Crane pulled out large log at B411, FM 1240, 18" dia, 8' long

(10:20) Turbidity exceedance inside early warning area. Turbidity test passed in compliant area, mouth of slip.

(11:10) Crane continues to dredge
FM 1225
Freeboard: 7 at bow
Tide board: +3.5'

(11:30) Spuds lifted, crane moved away from head of slip 3
Second turbidity exceedance in early warning area. Test passed in compliant area, mouth of slip

(13:00) Crane continues to dredge. Contractor has crew 3 in Tyvek suits pumping out waste water from Umpqua barge into lash barge.
FM: 1275
Freeboard: 9 at bow
Tide board: +2.9'

(13:15) Crane continues to dredge.
FM: 1300-1320
Tide board: 2.25
Freeboard: 9.5 at bow

(14:00) Crane operator phoned Port inspector (PGB) that the crane has stopped dredging do to Umpqua barge being full. Reedsport #1 barge will be on site approx. 1 hr.

(15:45) Umpqua #1 (second barge total loaded to date) left slip 3 to the Dallas. Reedsport barge #1 (third barge total to be loaded) on site.
(16:00) Contractor re-securing spill tarps to barge and re-positioning silt curtain and oil water boom surrounding crane derrick and barges

(16:35) Crane started dredging operations loading Reedport #1 barge
FM 1330-1340, approx. 80' from face of dock



PROJECT T4 Removal Action-Phase 1 Dredging and Capping CONTRACT NO. 820027/2008D013

CONTRACTOR Hickey Marine Inc. SUPERINTENDENT Darrell Jamison

DAY OF WEEK & DATE: Tues., Aug 19, 2008 REPORT NO. 05

WEATHER Lt Morning showers, cloudy afternoon TEMPERATURE L 59 H 80

Tide board: 1.9'	
(17:00) Port inspector (PGB) left site.	
TESTING LABORATORY ON SITE: _____ HRS: _____	
TESTS PERFORMED: _____	
<u>PHONE LOG:</u>	
<u>SITE PHOTOS/VIDEOS TAKEN:</u>	<u>FORCE ACCOUNT WORK/ CHANGES ENCOUNTERED:</u>

INSPECTOR Philipp G. Bales HRS _____ DATE 8-19-8
(signature on hardcopy)

DAILY REPORT OF OPERATIONS: **CONTRACT NO:**

TO: **P.O.P.** CONTRACTOR: **HME** DATE(S) **8/19/08** REPORT NO: **5**
 CONTRACT DAY: **8**

OBJECT AND BAR: NAME: **Terminal 4 Removal Action** AUTHORIZED DIMENSIONS: **125 x 270** WIDTH: **100** DEPTH: **Remove 3'**
411 plus

LOCATION: (include station no.) **10 to 40 outside pass 12 to 18 inside** OVERDEPTH: **1'**

DREDGE: NAME & TYPE: **SEA HORSE DREDGE** SIZE: **135 ton** DIPPER OR BUCKET: **20 CY. CAP.**

HORSEPOWER OF **900**

NUMBER OF CREW MEMBERS: Dredge: **11** Shore: **0** Other: **0** Total: **11** WORK SCHEDULE: Shifts per day: **2** Days per week: **7**

CHANNEL CONDITION: AVERAGE BEFORE DREDGING: **-44** AFTER DREDGING: **-47** MINIMUM BEFORE DREDGING: **-39** AFTER DREDGING: **-41**

CHARACTER OF MATERIAL AND PERCENTAGE: GRAVEL: **0** MUD: **70** STONE: **0** SAND: **3** CLAY: **0** HARDPAN: **0** SILT: **25** OTHERS: **2** DISTRIBUTION OF TIME: EFFECTIVE WORKING TIME (chargeable to cost of work): HOURS: **16** MIN: **00**

WORK PERFORMED: PUMPING OR DREDGING: **9** HOURS: **10** MIN: **00**

ITEM: AVERAGE WIDTH OF CUT: **80** FEET: **80** NON-EFFECTIVE WORKING TIME

TOTAL ADVANCE THIS PERIOD: **360** FEET: **360** HANDLING ANCHOR LINES

TOTAL ADVANCE PREVIOUS TO THIS PERIOD: **240** FEET: **240** WAITING FOR SCOWS: **15**

TOTAL ADVANCE TO DATE: **600** FEET: **600** TO AND FROM WARP OR ANCHORAGE

WATER PUMPED THIS PERIOD: **5,362 gal** CHANGING LOCATION OF PLANT ON JOB: **20**

WATER PUMPED PREVIOUS TO THIS PERIOD: **26,808 gal** LOSS DUE TO OPPOSING NATURAL ELEM.

TOTAL WATER PUMPED TO DATE: **32,170 gal** LOSS DUE TO PASSING VESSELS

RAGE DREDGED PER PUMP HOUR, GROSS: **117** CU. YD: **117** SHORE LINE AND SHORE WORK **Tugboat Boom**: **1**

SCOWS LOADED: **1** NUMBER: **1** MINOR OPER. REPAIRS (explain below): **1** HOURS: **30**

AVERAGE LOAD PER SCOW: **117** CU. YD: **117** WAITING FOR ATTENDANT PLANT

CUBIC YARDS REMOVED: **117** PREPARATION AND MAKING UP TOW

AMOUNT DREDGED THIS PERIOD: **1,070** TRANSFERRING PLAN BETWEEN WORKS

(1) GROSS (computed amount): **1,070** LAY TIME OFF SHIRT AND SATURDAYS

(2) CREDITED (pay place): **0** SUNDAYS AND HOLIDAYS **Set up**: **1** HOURS: **30**

AMOUNT PREVIOUSLY REPORTED: **1,946** CU. YD: **1,946** SAFETY MEETING: **15**

(1) GROSS (computed amount): **1,946** WATER PUMPING: **2** HOURS: **50**

(2) CREDITED (pay place): **0** TOTAL NON-EFFECTIVE WORKING TIME: **6** HOURS: **50**

AMOUNT DREDGED TO DATE: **3,016** TOTAL EFFECTIVE AND NON-EFFECTIVE TIME (chargeable to cost of work): **16** HOURS: **00**

(1) GROSS (computed amount): **3,016** TOTAL LOST TIME: **00**

(2) CREDITED (pay place): **Umpqua Shipped 1,300 yd LD** TOTAL TIME IN PERIOD: **16** HOURS: **00**

ATTENDANT PLANT			HOURS	MAJOR REPAIRS AND ALTERATIONS:
ITEM	NAME OR NUMBER			
Tug			1	
MATERIAL BARGE	Umpqua		16	
WATER BARGE			16	
Survey/crew	Piggot		16	
Material Barge	Recof post		7	

Has anything developed which might lead to a change order or claim:

I have 2 men making turbidity containment boom

ALL WORK PERFORMED DURING THIS PERIOD COMPIES WITH THE CONTRACT SPECIFICATIONS AND DRAWINGS:

TITLE: **Superintendent** SIGNATURE: *[Signature]*



HICKEY MARINE ENTERPRISES

6801 NW Old Lower River Road
Vancouver, WA 98660
(360) 695-4553 (503) 284-1140

M T W TH F S S

Job Name Terminal 4 Date 8/19/08

Job No. 2428 Weather _____

Equipment: Sea Hawk Sea Vulture Sea Lion Viking 966 Loader Chetco
 Barge 174 Barge 34 BK5 Nova Barge 47 Barge Harvey A
 Manlift Other SEA HORSE, Umpqua, Husky

Equipment Safety Checks Performed? YES / No

Personal Protective Equipment Safety Checks Performed? YES / No

Work performed today

06:00 - 06:45 - WARM up - 1 spot Dredge for cut #2

06:45 - 07:00 - SAFETY MEETING

07:00 - 07:15 LOAD Umpqua - PASS #2 station outside cut

07:15 - 08:30 Frictions sticking on control Buttons (REPAIR)

8:30 - 13:30 RESUME DREDGING - Finish loading Umpqua

13:30 - 14:30 PUMP WATER, SERVICE

14:30 - 15:00 OPEN Turbidity Boom

15:00 - 15:30 MOVE pumps onto LASH BARGE

15:30 - 15:45 SECURE LASH BARGE ALONG DOCK

15:45 - 16:00 SWAP Umpqua with REESPOT

16:00 - 16:30 SECURE Turbidity Boom

16:30 - 16:45 HANG Drip Panels, SET UP pumps

16:45 - 19:00 LOAD #3 REESPOT

19:00 - 19:20 Finish outside cut move to inside

19:20 - 21:00 LOAD #3 REESPOT

21:00 - 22:00 Fuel - pump - SERVICE - SECURE

Extra work or delays (authorized by) _____

Sign _____

T-4/ The Dalles Offload Site Daily Inspection Checklist

Date 8/19/08

1) Safety Meeting:

Agenda: PPE, TYVEK, Housekeeping

Attendees:

[Signature]
[Signature]
[Signature]
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[Signature]

Derrick SEAHORSE

Derrick Sea Vulture

2) Crane Inspection:

"Attach Operator Log/Inspection Log"

3) Plant Inspection

Deficiencies:

Date

Date Corrected

1. OUTBOARD ENGINE IN SKIFF
FROZEN UP.
2. Lower unit out on Pibby
3. Vent for septic system
too short.

8/19/08

8/19/08

8/19/08

8/19/08

4) Staff Gage Check

Time

Tideboard

Tide Track

TIDE TRAC SENSOR IS OUT OF SERVICE

5) Main Fuel Tank Levels

Port

Starboard

Height 67

NA

Gallons 6700

Consumption per day 200

6) Survey Boat
 Fuel
 Port 1/2
 Starboard 1/2

Hull Depth .7
 Sound Velocity 4891
 Latency .200

Position Verification
 Boat
 X 7620400.15
 Y 713422.51
 Control Point
 X 7620400.37
 Y 713422.93

#120

7) Dredge Material Weight 105 pounds per cubic foot

8) Dredge Boom Tip Verification
 X 7620401.01
 Y 713422.50
 #20 Control Point X 7620400.37
 Y 713422.93

9) Containment and Truck Load Area
 Clean Dust Suppression
 Fabric Spill Plates

10) Lash Barge: Draft PB 9.3 SB 10.6 Gallons Pumped Today 20 tons = 5,362
 Keep within 2 ft of trim PS 8.10 SS 11
 Tank Sounding #1 8" #3 3" Total Gallons 32,170
 #2 4" #4 4"

11) Baker Tank Level #1 _____ #2 _____

12) De con Stations
 Clean
 Inventory

13) Dust Suppression
 Location Bow Time 12:00 Reading 0.031 Background
 Location stern Time 12:05 Reading 0.042 0.040
 Location umpqua Time 12:10 Reading 0.027
 Location _____ Time _____ Reading _____
 Location _____ Time _____ Reading _____

14) Material Barge
 Draft PB 3.9 SB 3.9 MT Tons 1742 Umpqua Reedsport
 MT PS 9 SS 9 Total Tons 984 565
 Draft PB 9.4 SB 9.4 LD Tons 2726 Total Yards 698 372
 LD PS 9.9 SS 9.9
 REEDSPORT MT
3.3 3.3
3.5 3.5
 Umpqua Total Load 1300 yds
 Shipped
 MT TONS 865
 LD TONS 1390
 6.5 4.0
 3.9 6.6



DAILY QUALITY CONTROL REPORT

Daily Report No. 5

Date: 8/19/08

Contract No. _____

Project Title: Terminal 4 Removal Action Location: BERTH 411

Weather: Lt. RAIN cloudy Temperature: 65 Min. 69 Max

1. Contractor/Subcontractors and Area of Responsibility:

NUMBER	TRADE	HOURS	EMPLOYER	LOCATION/DESCRIPTION OF WORK
<u>11</u>	<u>DREDGE</u>	<u>16</u>	<u>HME</u>	<u>BERTH 411 / DREDGE</u>

2. Operating Plant or Equipment. (Not Hand Tools)

Plant/Equipment	Date of Arrival/Departure	Date of Safety Check	Hours Used	Hours Idle	Hours Repair
<u>SEA HORSE</u>	<u>8/18</u>	<u>8/18</u>	<u>9¹⁰</u>	<u>5²⁰</u>	<u>1³⁰</u>
<u>Husky</u>	<u>8/18</u>	<u>8/18</u>	<u>2</u>	<u>14</u>	
<u>LASH Combo</u>	<u>8/18</u>	<u>8/18</u>	<u>16</u>		
<u>Piggy</u>	<u>8/18</u>	<u>8/18</u>	<u>16</u>		
<u>DEORA</u>	<u>8/18</u>	<u>8/18</u>	<u>1</u>	<u>15</u>	
<u>Umpqua</u>	<u>8/18</u> <u>8/19</u>	<u>8/18</u>	<u>10</u>		
<u>REDSPOAT</u>	<u>8/19</u>	<u>8/19</u>	<u>6</u>		

1. Work performed today: (Indicate location and description of work performed by prime and/or subcontractors by letter in table above).

BEGIN PASS # 2 - work from station 10 - 40 on outside pass
AND 12 - 18 on inside pass. Completed Loading BARGE

Umpqua (1,300 cu yds) BEGAN ON REEFSPOST @ 16:00.

5,362 gallons pumped during Umpqua Load

32,170 gallons of water pumped Total

2. Results of control activities: (Indicate whether P – Preparatory, I – Initial, or F – Follow-up phase. When a P or I meeting is conducted, complete attachment 1-A or 1-B, respectively. When network analysis system is used, identify work by use of I-J numbers.

1. ORDERED NEW SENSOR FOR ELECTRONIC TIDE GAUGE (SEEMS THAT LIGHTING STORM EFFECTED OUR SENSOR) NEW SENSOR TO BE INSTALLED 8/20

2. LOWER UNIT OUT ON SURVEY BOAT, WAS ABLE TO PERFORM SURVEY TODAY. BOAT WILL BE REPAIRED AND BACK IN SERVICE 8/20. MAY HAVE TROUBLE WITH TIMING FOR AFTERNOON SURVEY

3. Offsite surveillance activities, including action taken:

4. Job Safety: (Report violations; corrective instructions given; corrective actions taken).

1. INSTRUCTED CREWS TO WEAR FACE SHIELDS WHEN DISCONNECTING PUMPHOSES

2. INSPECT ALL DECK WIRES, ADD BREAK-AWAY CHAINS TO WIRES.

3. PLACE EXTRA MOORING ROPES ON UMPQUA AND NAVIGATION LIGHTS BEFORE DEPARTURE.

5. Remarks: (Instructions received or given. Conflict(s) in plans and/or specifications).

1. WATER QUALITY TESTS AT COMPLIANCE POINTS ALL PASSED

2. 2 MEN AND SKIFF USED TO OPEN AND CLOSE TURBIDITY BOOM (1hr)

3. SOME LOGS REMOVED IN DREDGE AREA, BUCKET WILL NOT COMPLETELY CLOSE MAKING MATERIAL FALL OUT OF SIDES OF BUCKET. OPERATOR HAS BEEN PAUSING BEFORE HOISTING FOR A LONGER PERIOD TO ALLOW MUD TO FALL OUT NEAR BOTTOM WHEN HE SEE'S THAT HIS BUCKET IS NOT CLOSED COMPLETELY.

Contractor's Verification: On behalf of the Contractor, I certify this report is complete and correct, and all materials and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as noted above.

Authorized CQC Rep at Site

Date



8/20/08

Dredge T

7620306.00	713306.34	0.00	107.11	19.00	17.00	47218
7620309.80	713322.33	0.00	100.56	19.00	17.00	46761
7620311.15	713339.31	0.00	94.10	19.00	17.00	46428
7620320.24	713302.21	0.00	106.65	19.00	17.00	45968
7620324.39	713319.38	0.00	100.61	19.00	17.00	45648
7620326.40	713335.44	0.00	95.12	19.00	17.00	45383
7620325.51	713354.00	0.00	88.73	19.00	17.00	45098
7620327.64	713343.97	0.00	92.12	19.00	17.00	45003
7620342.68	713353.38	0.00	89.14	19.00	17.00	44675
7620341.40	713336.30	0.00	94.50	19.00	17.00	44422
7620339.50	713319.53	0.00	99.79	19.00	17.00	44237
7620334.70	713301.23	0.00	105.62	19.00	17.00	44023
7620358.13	713344.48	0.00	91.94	19.00	17.00	43782
7620358.74	713342.73	0.00	92.51	19.00	17.00	43736
7620374.13	713346.68	0.00	91.34	19.00	17.00	43408
7620352.49	713315.23	0.00	100.18	19.00	17.00	43176
7620349.26	713298.04	0.00	105.47	19.00	17.00	42911
7620359.28	713326.07	0.00	79.72	19.00	17.00	40839
7620362.69	713314.64	0.00	84.41	19.00	17.00	40540
7620363.25	713296.86	0.00	90.42	19.00	17.00	40162
7620374.97	713330.75	0.00	78.60	19.00	17.00	39869
7620376.94	713313.61	0.00	84.35	19.00	17.00	39423
7620378.32	713296.21	0.00	90.22	19.00	17.00	39011
7620423.53	713342.85	0.00	78.10	19.00	17.00	38583
7620416.80	713341.16	0.00	77.82	19.00	17.00	38153
7620417.87	713322.51	0.00	82.85	19.00	17.00	37952
7620419.87	713305.22	0.00	87.67	19.00	17.00	37275
7620420.20	713288.24	0.00	92.38	19.00	17.00	36796
7620421.01	713271.77	0.00	96.31	19.00	17.00	36393
7620401.50	713342.01	0.00	77.06	19.00	17.00	35984
7620404.69	713323.38	0.00	82.38	19.00	17.00	35493
7620406.20	713306.13	0.00	87.37	19.00	17.00	35032
7620406.44	713289.56	0.00	91.90	19.00	17.00	34548
7620404.45	713271.67	0.00	97.34	19.00	17.00	34043
7620389.55	713343.93	0.00	75.82	19.00	17.00	33643
7620391.78	713325.97	0.00	81.34	19.00	17.00	33106
7620391.85	713307.85	0.00	86.62	19.00	17.00	32911
7620392.47	713289.99	0.00	92.17	19.00	17.00	31737
7620392.06	713271.61	0.00	98.25	19.00	17.00	25954
7620296.81	713342.01	0.00	100.97	19.00	17.00	48361
7620294.39	713324.00	0.00	106.16	19.00	17.00	48685
7620282.95	713340.66	0.00	102.21	19.00	17.00	49018
7620279.16	713328.35	0.00	106.20	19.00	17.00	49387
7620265.06	713334.14	0.00	105.25	19.00	17.00	59967
7620250.63	713338.87	0.00	105.31	19.00	17.00	60240
7620241.49	713345.09	0.00	103.94	19.00	17.00	60665
7620237.46	713329.37	0.00	111.01	19.00	17.00	61334
7620251.28	713370.49	0.00	99.26	19.00	17.00	62104
7620235.64	713371.94	0.00	99.76	19.00	17.00	62521
7620226.15	713347.27	0.00	99.03	19.00	17.00	63240
7620222.48	713329.47	0.00	104.59	19.00	17.00	63505

7620213.66	713358.56	0.00	95.47	19.00	17.00	63828
7620210.73	713343.24	0.00	101.38	19.00	17.00	64153
7620206.71	713330.94	0.00	105.82	19.00	17.00	64440
7620197.68	713354.57	0.00	97.85	19.00	17.00	64705
7620194.19	713336.75	0.00	105.11	19.00	17.00	65154
7620182.77	713355.08	0.00	103.82	19.00	17.00	65856
7620179.34	713341.76	0.00	108.15	19.00	17.00	66126
7620165.06	713346.99	0.00	108.45	19.00	17.00	66646
7620152.90	713345.12	0.00	110.77	19.00	17.00	66996
7620420.18	713358.03	0.00	102.68	19.00	17.00	69742
7620420.30	713374.10	0.00	98.31	19.00	17.00	70036
7620418.05	713391.88	0.00	93.08	19.00	17.00	70262
7620416.95	713391.43	0.00	92.98	19.00	17.00	70288
7620411.87	713401.82	0.00	89.73	19.00	17.00	70512
7620404.68	713359.58	0.00	103.13	19.00	17.00	70817
7620406.49	713376.70	0.00	97.33	19.00	17.00	71078
7620403.39	713392.59	0.00	92.62	19.00	17.00	71869
7620395.78	713404.39	0.00	88.67	19.00	17.00	72223
7620389.26	713359.12	0.00	104.48	19.00	17.00	72492
7620391.69	713377.20	0.00	98.08	19.00	17.00	72864
7620388.21	713392.59	0.00	92.96	19.00	17.00	73485
7620375.26	713361.84	0.00	104.20	19.00	17.00	74321
7620375.47	713380.81	0.00	97.92	19.00	17.00	74556
7620358.17	713359.15	0.00	107.07	19.00	17.00	74950
7620379.54	713405.36	0.00	89.82	19.00	17.00	75164
7620378.86	713404.62	0.00	89.96	19.00	17.00	75194

Diary (continued)

Date: 8/20/08

Report Number:

06:30 Arrived on site. Hickey preparing to dredge with the dredge Sea Horse and the haul barge Reedsport. Boom surrounds the dredge and haul barge. Silt curtain goes from shore to shore across the slip just behind the dredge.

06:40 Contacted Darrell to discuss status. Survey boat is down and headed to shop for repairs. Hence crew is short one member. Will pump water from haul barge before beginning dredging this morning. Anticipated start time is 07:15

06:50 Contacted Anchor WQ crew. Crew is on track to begin sampling at 07:00

06:55 Contacted Phillip Bales (Port) re: increased monitoring needed in Wheeler Bay due to heavy rain.

07:30 Very heavy rain falling as dredging begins.

07:45 Advised WQ crew to collect BG sampling directly before compliance monitoring round due to potential stormwater influence and changing conditions.

08:00 – 09:00 Hickey re-positioning dredge and barges in order to target area towards the center of the slip.

8:30 to 11:00 Verduin at weekly dredge and cap and Wheeler Bay contractor meetings

08:36 Contacted by Amada Shellenberger. Barge Umpqua has just arrived at the transloading facility and moved into position on top of compliance sampling points. WQ round complete except for one depth at the last of three WQ locations. No exceedances reported during round. Weather in The Dalles is very rainy and windy. Location control at compliance conditions has been aided by lines attached to haul barge that is being offloaded. WQ crew unable to utilize lines due to presence of new barge. Advised Shellenberger and WQ crew to note deviation and consider monitoring round complete.

09:00 Dredging is resumed. Cycle time averaging about 7.5 minutes.

09:40 Drove over to Wheeler Bay. Spoke with ACA rep re: presence of any stormwater flow through site. Site is very pervious and no surface water flow was observed or expected. Rainfall diminishing.

10:30 Water elevation at +4 CRD

10:40 Monitored cycle time during two cycles. 11 minute average cycle time.

12:30 water level at elevation 3' CRD

13:00 to 14:00 Verduin/Hung/Stone at weekly EPA/Contractor meeting

14:45 Darrell J called to say that they have encountered some rip rap near the sheet pile wall. He stated that they would work around it for now. Correspondence with Port personnel indicate that rip rap is likely material that has moved down the slope over time. Can be removed without compromising the integrity of the wall.

15:20 water level at elevation 1.9' CRD

15:30 to 16:15 monitored cycle times. Cycle times varied from 4 to 10 minutes with an average of 6:45 minutes.

16:50 Water quality monitoring round completed. No exceedance at compliance point. Background was remeasured and determined to be 6.7.

17:50 water level at elevation 2.9' CRD

17:55 talked with Darrell. Said that the dredge was hitting harder material in cell 1. Likely native material. Will finish the work with the cable arm but will likely need to come back through in this area with the digging bucket to remove.

19:50 to 20:10 monitored dredge cycles. They averaged 5 to 6 minutes in length

19:50 water level at elevation 5' CRD

19:40 Gillingham called to state that had the south station in the river (S3M-S) was slightly above the 5 NTU over background. I asked them to go and measure background again. Background was up slightly to 7.9 NTU. They then went and reoccupied S3M-S and again



PROJECT T4 Removal Action-Phase 1 Dredging and Capping CONTRACT NO. 820027/2008D013
 CONTRACTOR Hickey Marine Inc. SUPERINTENDENT Darrell Jamison
 DAY OF WEEK & DATE: Wed., Aug 20, 2008 REPORT NO. 06
 WEATHER Morning rain, Lt showers cloudy afternoon TEMPERATURE L 59 H 77

<u>NUMBER/CLASS OF CONTRACTOR'S PERSONNEL:</u>	<u>MAJOR EQUIPMENT ON JOB (Size/capacity and hours):</u>
Hickey Dredge Crew: Superintendent Crane operator 3 Deck hands	Crane/Derrick with Barge/Scow Lash Barge

CHRONOLOGICAL ACCOUNT OF DAY'S WORK:

(06:00 – 21:00) Contractor's working hours while dredging at berth 411

(06:45) Dredging operations re-started at berth 411. Contractor continues loading Reedsport #1 (3rd barge total)
 Footmark: 1260
 Oil water boom at head of slip surrounding both barges and crane/derrick. Silt curtain already installed across mouth of slip 3.
 Anchor water quality control crew with boat on site.

(08:00-08:30) Contractor has crew of 2 in Tyvek suits pumping out waste water from Reedsport barge/scow into lash barge. Port inspector (PGB) informed contractor's superintendent (DJ) that his crews need to be wearing eye protection when discharging water. Crew will be wearing eye protection from now on during this activity.

(08:25) Spuds lifted, barge moved towards head of slip 3
 Dredging operations re-summed
 FM 1220-1240, 20'-30' from face of dock

(08:30-11:30) Port inspector (PGB) attended RA-1 and Wheeler Bay project weekly meeting at T4 admin. building.

(11:15) Crane continues to dredge
 FM 1260, 5' to 15' from face of dock
 Contractor continues to discharge waste water from Reedsport barge into lash barge.
 Turbidity exceedance in early warning area, but test passed in compliant location, just outside mouth of slip 3

(13:00) Crane continues to dredge.
 FM: 1250
 Tide board: +3.5'

(13:05) Crane continues to dredge. Second exceedance in early warning area
 FM: 1260
 Tide board: 3.5



PROJECT T4 Removal Action-Phase 1 Dredging and Capping CONTRACT NO. 820027/2008D013

CONTRACTOR Hickey Marine Inc. SUPERINTENDENT Darrell Jamison

DAY OF WEEK & DATE: Wed., Aug 20, 2008 REPORT NO. 06

WEATHER Morning rain, Lt showers cloudy afternoon TEMPERATURE L 59 H 77

(13:45) Crane continues to dredge
FM 1275, 80'-100' from face of dock
Tide board: +3.0'

(14:45) Crane continues to dredge. Crane Operator informed Port that while dredging next to sheet pile wall, FM 1215, they are encountering rip rap. Port to review if removing rip rap next to sheet pile wall will damage integrity of pile wall.
FM: 1215-1225, 5' to 15' from face of dock
Tide board: +2.3'

(15:00) Port informed contractor that the rip rap encountered next to sheet pile wall is only residual from previous project which has no effect on the integrity of sheet pile wall. Contractor continues to dredge next to sheet pile wall at footmark 1225.

(15:20) Port inspector (PGB) left site. Anchor engineer (JV) continues to monitor dredging operations at B411

TESTING LABORATORY ON SITE: _____ HRS: _____

TESTS PERFORMED: _____

PHONE LOG:

SITE PHOTOS/VIDEOS TAKEN:

FORCE ACCOUNT WORK/ CHANGES ENCOUNTERED:

INSPECTOR Philipp G. Bales HRS _____ DATE 8-20-8
(signature on hardcopy)

DAILY REPORT OF OPERATIONS:

CONTRACT NO:

TO: P.O.P. CONTRACTOR: HME DATE(S) 8/20/08 REPORT NO: 6
 CONTRACT DAY: 8

OBJECT AND BAR: NAME: Terminal 4 Removal Action AUTHORIZED DIMENSIONS: 120 x 260 WIDTH: 50 DEPTH: 42.22 - 49.22
 LOCATION: (include station no.) CELL 1, 2, 3, 4, 5 OVERDEPTH: 1'

DREDGE: NAME & TYPE: SEA HORSE DREVO SIZE: 135 Ton DIPPER OR BUCKET: 20 CY. CAP.
 HORSEPOWER OF 900

NUMBER OF CREW MEMBERS: Dredge: 11 Shore: 11 Other: 11 Total: 11 Shifts per day: 2 Days per week: 7
 CHANNEL CONDITION: AVERAGE: — BEFORE DREDGING: — AFTER DREDGING: — MINIMUM: — BEFORE DREDGING: — AFTER DREDGING: —

CHARACTER OF MATERIAL AND PERCENTAGE: GRAVEL: — MUD: 90 STONE: — SAND: 2 CLAY: — HARDPAN: — SILT: 8 OTHERS: —
 DISTRIBUTION OF TIME: EFFECTIVE WORKING TIME (chargeable to cost of work): HOURS: 12 MIN: 15

WORK PERFORMED: ITEM: UNIT: QTY: PUMPING OR DREDGING: 12 15
 AVERAGE WIDTH OF CUT: FEET: 120' NON-EFFECTIVE WORKING TIME:
 TOTAL ADVANCE THIS PERIOD: FEET: 100' HANDLING ANCHOR LINES:
 TOTAL ADVANCE PREVIOUS TO THIS PERIOD: FEET: 600' WAITING FOR SCOWS:
 TOTAL ADVANCE TO DATE: FEET: 700' TO AND FROM WARP OR ANCHORAGE:
 WATER PUMPED THIS PERIOD: 26,811 CHANGING LOCATION OF PLANT ON JOB: 1
 WATER PUMPED PREVIOUS TO THIS PERIOD: 32,170 LOSS DUE TO OPPOSING NATURAL ELEM.:
 TOTAL WATER PUMPED TO DATE: 58,981 LOSS DUE TO PASSING VESSELS:

BARGE DREDGED PER PUMP HOUR, GROSS: CU. YD: 44 SHORE LINE AND SHORE WORK:
 SCOWS LOADED: NUMBER: 2 MINOR OPER. REPAIRS (explain below): 2 30
 AVERAGE LOAD PER SCOW: CU. YD: 22 WAITING FOR ATTENDANT PLANT:
 CUBIC YARDS REMOVED: PREPARATION AND MAKING UP TOW:
 AMOUNT DREDGED THIS PERIOD: TRANSFERRING PLAN BETWEEN WORKS:
 (1) GROSS (computed amount): 539 LAY TIME OFF SHIRT AND SATURDAYS:
 (2) CREDITED (pay place): SUNDAYS AND HOLIDAYS:

AMOUNT PREVIOUSLY REPORTED: SAFETY MEETING: 15
 (1) GROSS (computed amount): 3,016 WATER PUMPING:
 (2) CREDITED (pay place): TOTAL NON-EFFECTIVE WORKING TIME: 3 45
 AMOUNT DREDGED TO DATE: TOTAL EFFECTIVE AND NON-EFFECTIVE TIME (chargeable to cost of work): 16 00
 (1) GROSS (computed amount): 3,555
 (2) CREDITED (pay place):

ATTENDANT PLANT: LOST TIME (chargeable to cost of work):
 ITEM: NAME OR NUMBER: HOURS:
TUG HUSKY 16
MATERIAL BARGE REBOAT 16
WATER BARGE WASH CONDO 16
CREW / SURVEY PIVOT 2

Has anything developed which might lead to a change order or claim: NO TIME CHARGED FOR TURBIDITY BOOM
 MAJOR REPAIRS AND ALTERATIONS:
 CESSATION:
 MISCELLANEOUS:
 TOTAL LOST TIME:
 TOTAL TIME IN PERIOD:

ALL WORK PERFORMED DURING THIS PERIOD COMPIES WITH THE CONTRACT SPECIFICATIONS AND DRAWINGS:

TITLE: SUPERINTENDENT SIGNATURE: [Signature]



HICKEY MARINE ENTERPRISES

6801 NW Old Lower River Road
Vancouver, WA 98660
(360) 695-4553 (503) 284-1140

M T W TH F S S

Job Name Terminal 4 Date 8/20/08

Job No. 2428 Weather _____

Equipment: Sea Hawk Sea Vulture Sea Lion Viking 966 Loader Chetco
 Barge 174 Barge 34 BK5 Nova Barge 47 Barge Harvey A
 Manlift Other SEA HORSE, REEDSPORT, LASH BARGE
HUSKY

Equipment Safety Checks Performed? Yes / No

Personal Protective Equipment Safety Checks Performed? Yes / No

Work performed today

06:00 - 06:45	WARM UP - SAFETY MEETING
06:45 - 8:15	BEGIN DREDGING REEDSPORT #3
8:15 - 9:15	Finish pass #2 - move in for final grade
9:15 -	LOAD REEDSPORT (GRADE PASS, HEAD OF SLIP upstream)
14:00	CELL #1
14:00 - 14:15	move to cell #2
14:15 -	DREDGE CELL #2-3-5- ENCOUNTER SHEET PILE WALL OFF OF FENDER LINE MAKING US UNABLE TO REACH GRADE
21:15	HARD BOTTOM IN CELL #4 UNABLE TO REACH final GRADE
21:15 - 22:00	FUEL - SERVICE - PUMP - SECURE

Extra work or delays (authorized by)

NO TIME CHARGED FOR Turbidity Boom

Sign _____



T-4/ The Dalles Offload Site

Daily Inspection Checklist

Date 8/20/08

1) Safety Meeting:

Agenda: SAFETY Supplies, Handling pumps And Hoses, SECURING BOAT for EVENING

Attendees:

[Signature]
[Signature]
[Signature]
[Signature]
[Signature]

[Signature]
[Signature]
[Signature]
[Signature]

Derrick SEAHORSE

Derrick Sea Vulture

2) Crane Inspection:

"Attach Operator Log/Inspection Log"

3) Plant Inspection

Deficiencies:	Date	Date Corrected
<u>Lower unit on Pibby</u>	<u>8/18</u>	<u>8/20</u>
<u>NEED Fittings for trash pumps</u>	<u>8/20</u>	<u>8/20</u>
<u>TIDE TRAC TIDE SENSOR</u>	<u>8/18</u>	<u>8/20</u>
<u>NEED MORE Grommets for connects Turbidity control</u>	<u>8/20</u>	<u>8/20</u>

4) Staff Gage Check

Time	Tideboard	Tide Track
<u>11:00</u>	<u>4.0</u>	<u>OUT OF SERVICE</u>
<u>14:00</u>	<u>3.1</u>	<u>OUT OF SERVICE</u>
<u>16:30</u>	<u>1.9</u>	<u>1.9 REPAIRED</u>

5) Main Fuel Tank Levels

	Port	Starboard
Height	<u>65"</u>	<u>NA</u>
Gallons	<u>6,500</u>	<u></u>
Consumption per day	<u>200</u>	<u></u>

6) Survey Boat
 Fuel
 Port Full
 Starboard Full

Hull Depth _____
 Sound Velocity _____
 Latency _____

NO DAILY SURVEY

Position Verification
 Boat
 X _____
 Y _____
 Control Point
 X _____
 Y _____

7) Dredge Material Weight 105 pounds per cubic foot

8) Dredge Boom Tip Verification
 #20 Control Point
 X 7620399.89
 Y 713422.80
 X 7620400.37
 Y 713422.93

9) Containment and Truck Load Area
 Clean Dust Suppression
 Fabric Spill Plates

10) Lash Barge: Draft PB 9'6" SB 9'6" Gallons Pumped Today 100 Tons = 26,811 Gallons
 Keep within 2 ft of trim PS 9'10" SS 9'10"
 Tank Sounding #1 6'6" #3 8" Total Gallons 58,981
 #2 12" #4 12" NEW AVE 15 gallons of water PER YARD.

11) Baker Tank Level #1 _____ #2 _____

12) De con Stations
 Clean
 Inventory

13) Dust Suppression
 Location Bow Time 11:20 Reading 0.015 Background _____
 Location Stem Time 11:25 Reading 0.013 0.012
 Location REESPORT Time 11:30 Reading 0.018
 Location _____ Time _____ Reading _____
 Location _____ Time _____ Reading _____

14) Material Barge
REESPORT
 Draft PB 4 SB 3'9" MT Tons 1390 Total Tons _____
 MT PS 6'5" SS 6'6" 760
 Draft PB 10'9" SB 10'6" LD Tons 2150 Total Yards _____
 LD PS 4'7" SS 5 539



DAILY QUALITY CONTROL REPORT

Daily Report No. 6

Date: 8/20/08

Contract No. _____

Project Title: Terminal 4 Removal Action

Location: BERTH 411

Weather: Lt RAIN

Temperature: 58 Min. 72 Max

1. Contractor/Subcontractors and Area of Responsibility:

NUMBER	TRADE	HOURS	EMPLOYER	LOCATION/DESCRIPTION OF WORK
<u>11</u>	<u>DREDGE</u>	<u>16</u>	<u>HME</u>	<u>BERTH 411 / DREDGE</u>

2. Operating Plant or Equipment. (Not Hand Tools)

Plant/Equipment	Date of Arrival/Departure	Date of Safety Check	Hours Used	Hours Idle	Hours Repair
<u>SEA HORSE</u>	<u>8/18</u>	<u>8/20</u>	<u>12¹⁵</u>	<u>1¹⁵</u>	<u>2³⁰</u>
<u>HUSKY</u>	<u>8/18</u>	<u>8/20</u>	<u>2</u>	<u>14</u>	
<u>REARPOAT</u>	<u>8/19</u>	<u>8/20</u>	<u>16</u>		
<u>WASH COMBO</u>	<u>8/18</u>	<u>8/20</u>	<u>16</u>		
<u>PIGGY</u>	<u>8/18</u>	<u>8/20</u>	<u>2</u>	<u>4</u>	<u>10</u>
<u>DEBRA</u>	<u>8/18</u>	<u>8/20</u>	<u>1</u>	<u>15</u>	

1. Work performed today: (Indicate location and description of work performed by prime and/or subcontractors by letter in table above).

FINISHED PASS #2 AND BEGAN DREDGING GRADE @ 9:00.
LABELED EACH CELL FOR PROGRESS REPORTS FOR P.O.P. (SEE ATTACHED)

DRAWING.) DREDGED GRAVE IN CELL #1 AND COMPLETED. CELLS 2, 3, AND 5 ARE MOSTLY COMPLETED. CELL #4 WE ENCOUNTERED A HARD BOTTOM 12"-18" ABOVE NEATLINE.

2. Results of control activities: (Indicate whether P – Preparatory, I – Initial, or F – Follow-up phase. When a P or I meeting is conducted, complete attachment 1-A or 1-B, respectively. When network analysis system is used, identify work by use of I-J numbers.

HARD BOTTOM ALONG FENDER LINE AND CELL #4 WILL BE COMPLETED WITH THE ATLAS 10 YD HD CUMSHELL. UNABLE TO REACH NEATLINE ELEVATION WITH CABLE ARM, 12" TO 18" SHY.

3. Offsite surveillance activities, including action taken:

SCHEDULED TBL TO SWITCH LOADED REEFSPOUT FOR MT CHETCO @ 12:00 TOMORROW.

4. Job Safety: (Report violations; corrective instructions given; corrective actions taken).

1. PERFORM ALL DAILY SAFETY INSPECTIONS
2. INSTRUCTED CREWS TO WEAR SAFETY GLASSES OR SHIELDS WHEN DISCHARGING WATER
3. INSTRUCTED CREWS NOT TO WALK ON TOP OF BIN ON MATERIAL BARGE
4. DAILY CRANE INSPECTIONS FOR LAST WEEK ATTACHED.

5. Remarks: (Instructions received or given. Conflict(s) in plans and/or specifications).

1. REPLACED SENSOR FOR TIDE TRAC, AND REPLACED LOWER UNIT ON SURVEY BOAT. BOTH ARE BACK IN SERVICE AND READY TO PERFORM SURVEY TOMORROW A.M.
2. CROSS SECTIONS FOR 8/19/08 SURVEY ATTACHED TO REPORT.

Contractor's Verification: On behalf of the Contractor, I certify this report is complete and correct, and all materials and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as noted above.

Authorized CQC Rep at Site

Date



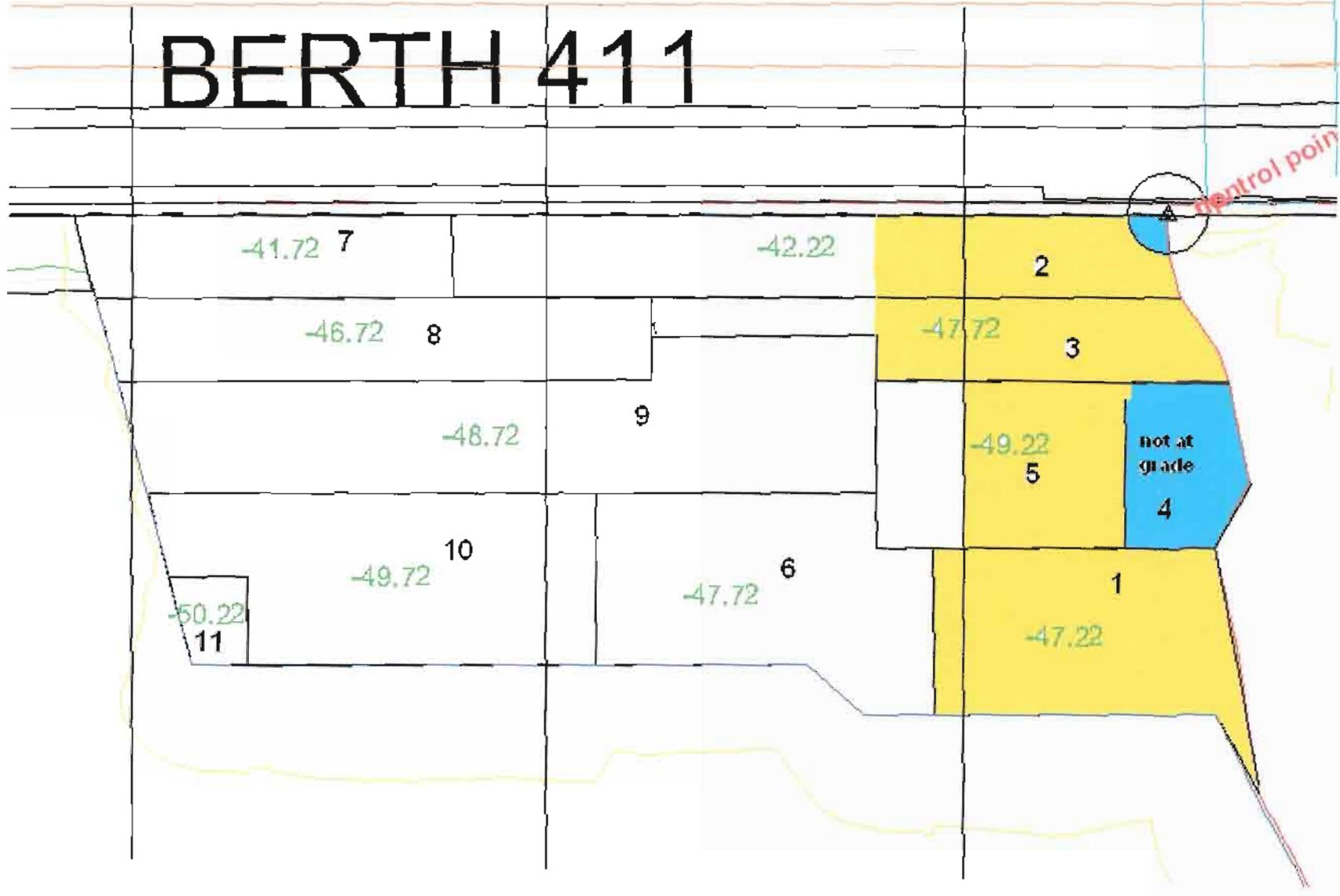
8/21/08

Dredge Progress as of 8/20/08

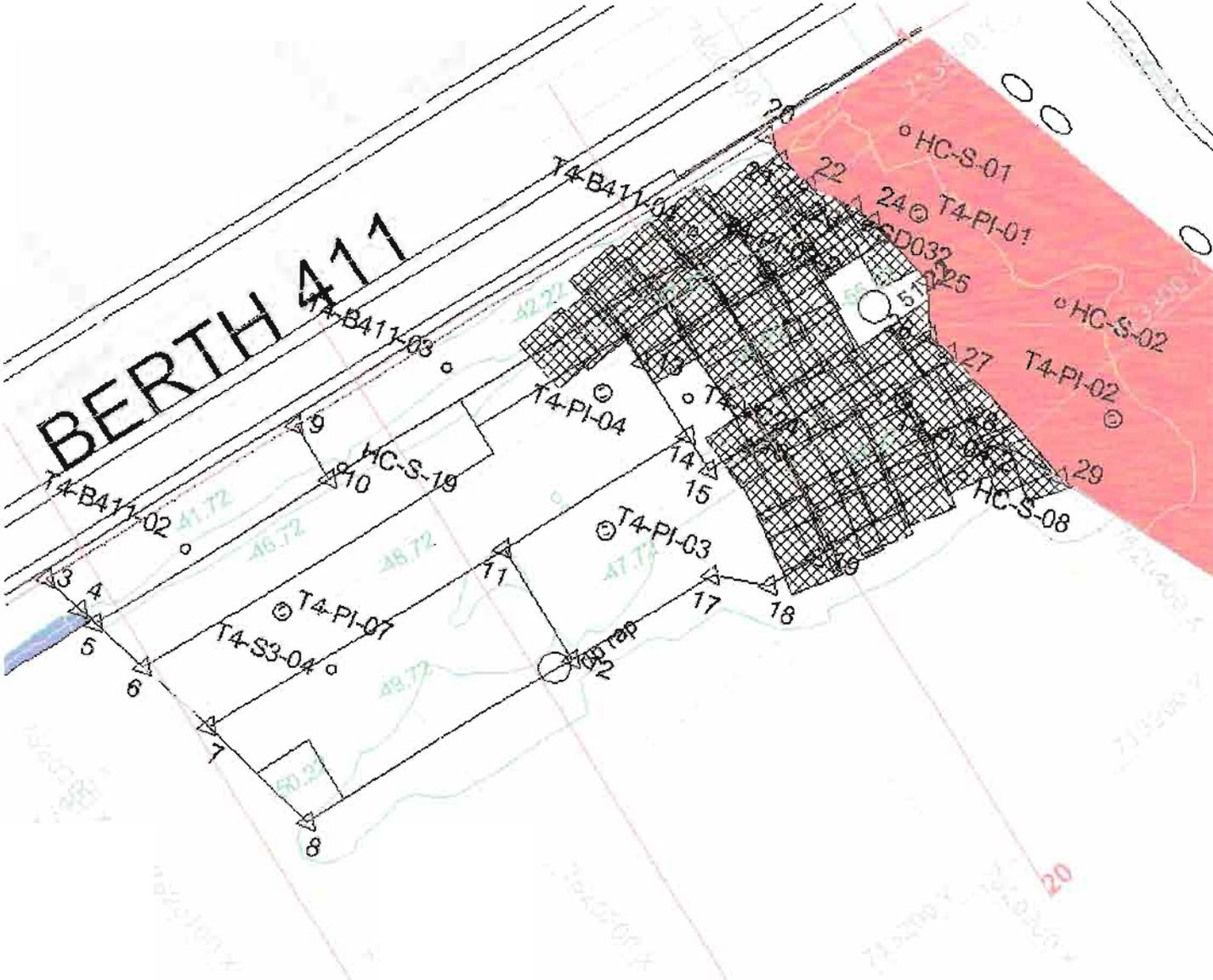
yellow = grade

lt. blue = dredged but not at grade (hard bottom)

BERTH 411



BERTH 411



Dredge T

7620343.85	713358.90	0.00	102.99	19.00	17.00	75757
7620345.73	713369.20	0.00	99.58	19.00	17.00	75554
7620347.27	713382.93	0.00	94.96	19.00	17.00	74656
7620335.27	713404.66	0.00	96.60	19.00	17.00	73773
7620333.21	713394.82	0.00	99.01	19.00	17.00	72609
7620350.25	713402.47	0.00	95.25	19.00	17.00	71095
7620348.45	713392.36	0.00	98.76	19.00	17.00	70565
7620333.10	713418.85	0.00	89.29	19.00	17.00	70187
7620346.57	713417.23	0.00	90.07	19.00	17.00	69902
7620364.07	713415.87	0.00	90.67	19.00	17.00	69634
7620360.87	713366.74	0.00	105.94	19.00	17.00	67981
7620362.80	713378.65	0.00	101.08	19.00	17.00	67552
7620371.65	713363.27	0.00	105.79	19.00	17.00	67046
7620375.61	713377.64	0.00	100.02	19.00	17.00	66010
7620406.49	713371.35	0.00	101.68	19.00	17.00	62225
7620365.57	713400.89	0.00	93.53	19.00	17.00	59776
7620365.13	713398.39	0.00	95.08	19.00	17.00	58991
7620365.38	713389.64	0.00	98.10	19.00	17.00	58294
7620381.81	713397.79	0.00	94.81	19.00	17.00	57829
7620380.74	713387.27	0.00	98.31	19.00	17.00	56739
7620395.32	713385.90	0.00	97.83	19.00	17.00	56482
7620405.59	713384.59	0.00	97.95	19.00	17.00	56106
7620397.08	713397.70	0.00	94.06	19.00	17.00	55280
7620367.64	713414.43	0.00	88.65	19.00	17.00	54235
7620383.37	713410.38	0.00	90.63	19.00	17.00	53903
7620386.03	713325.43	0.00	100.55	19.00	17.00	36539
7620381.07	713307.38	0.00	105.98	19.00	17.00	36234
7620367.17	713348.16	0.00	94.25	19.00	17.00	35814
7620382.10	713343.97	0.00	95.14	19.00	17.00	35198
7620397.63	713332.35	0.00	98.25	19.00	17.00	34279
7620397.74	713313.86	0.00	103.41	19.00	17.00	33877
7620393.36	713296.64	0.00	108.18	19.00	17.00	32741
7620308.25	713414.01	0.00	88.77	19.00	17.00	28243
7620318.99	713412.35	0.00	89.88	19.00	17.00	27740
7620334.38	713412.79	0.00	89.92	19.00	17.00	27231
7620348.76	713412.14	0.00	90.45	19.00	17.00	26631
7620364.74	713409.39	0.00	88.37	19.00	17.00	24197
7620398.11	713342.54	0.00	95.12	19.00	17.00	39093
7620399.41	713322.49	0.00	100.76	19.00	17.00	39607
7620399.43	713288.27	0.00	112.23	19.00	17.00	40401
7620371.67	713330.24	0.00	101.01	19.00	17.00	41337
7620369.76	713322.19	0.00	103.92	19.00	17.00	41732
7620365.00	713307.90	0.00	108.72	19.00	17.00	42629
7620359.28	713349.26	0.00	95.68	19.00	17.00	43229
7620356.57	713333.24	0.00	101.24	19.00	17.00	43729
7620349.66	713310.18	0.00	109.71	19.00	17.00	44487
7620352.28	713317.64	0.00	106.78	19.00	17.00	44900
7620347.56	713350.29	0.00	94.46	19.00	17.00	46222
7620346.03	713332.96	0.00	100.44	19.00	17.00	46562
7620339.37	713312.11	0.00	108.05	19.00	17.00	47118
7620342.40	713320.24	0.00	104.95	19.00	17.00	47846

7620332.26	713352.58	0.00	94.00	19.00	17.00	48255
7620331.24	713340.03	0.00	98.73	19.00	17.00	48683
7620324.76	713315.08	0.00	108.39	19.00	17.00	50007
7620326.98	713322.73	0.00	105.44	19.00	17.00	50399
7620400.26	713407.09	0.00	91.20	19.00	17.00	53266
7620402.05	713396.87	0.00	94.64	19.00	17.00	53599

06:00 Hickey Marine staff on site making preparations for dredging. Derrick in place along dock edge in Berth 411 (approximately cell #2). Sea Horse Dredge, 20 cu. yd cable arm, and loading to Chetco Barge (#4 in rotation)

06:40 Dredging begins in cell #2—moving toward cell #7

06:45 advised WQ monitoring crew of dredging start time, relocated BG-1 location (100 meters from dock face), and designated this point as BG-1 (R).

07:00-08:00 dredge buckets appear to be retrieved at approximately ¼-1/3 of capacity; drain off water appears light tan-grey with very little debris observed at bucket closure point; cycle times are approximately 7-12 minutes

08:30 discuss BMP additions with Darrel per email from EPA and Anchor observations ; specifically discussed complete opening/closing/opening cycle above barge before moving bucket back over water surface—Hickey responded immediately to the recommendation and this appears to have made a significant reduction in the amount of sediment returned to the water after dumping of bucket.

10:00 WQ crew indicates that no exceedances occurred at the warning point (100m) arc, with the highest recorded turbidity being 9.5 NTU which is equal to the 9.5 NTU recorded at 08:20 at the background BG-1(R) location. No monitoring required at the compliance arc. Chemistry sampling and parameter monitoring conducted during dredging hours 2-3.

10:00-12:00 Dredging continues in cell #7. Cycle times observed at between 5:00 and 7:00 minutes; buckets appear to be filled to ¼-1/3 full; drain off water appears light tan-grey to clear and colorless at times; larger wood debris encountered in cell #7 near bent #37 (caused incomplete bucket closure on 3-4 occasions); operator made effort to move load to barge quickly allowing very little drain down time over water.

12:00-14:00 Dredging continues at cell #7 nearing bent #40. Shallow cuts continue with buckets loaded to ¼-1/3 of capacity. Operator occasionally neglects to open bucket prior to returning to target location over water—reminder may be required if large chunks of material are observed when opened over water. Cycle times measured at between 5:30-6:30 mm:ss. Drain down times for AM shift between 1-5 minutes; bucket retrieval-to-surface times during AM shift measured between 30-40 seconds with occasional trips up to 50 seconds; time to dump and clear bucket of sediment over barge timed at between 1:30-2:20 mm:ss during AM shift.

15:15 to 16:00 Stop dredging to complete daily survey

16:00 Digging at station 38.5 in cell #7

17:15 Round 3 WQ sampling completed. No exceedances at the S3A series (100 m from dredge). The WQ crew decided to sample at the S3M series locations and found an exceedance at the -S location (early warning location was in compliance). They speculated it was from a passing ship. They waited about 45 minutes and resampled and the station was comparable to the others ~5 to 9 NTUs and in compliance.

19:40 to 21:00 monitored cycle times. Cycle times varied from 3 to 6 minutes averaging 5 minutes. The bucket was pulled from the bottom typically around 1 to 2 feet per second. Dredging was occurring mostly in cell 10 at station 32—this was predominantly side slope dredging.

20:55 Done dredging for the day

21:00 WQ crew called with results. Exceedances at the 2 of the 4 S3A series locations, but none at the S3M locations.

Tim Stone/John Verduin

Resident Engineer

John Verduin

Project Engineer



PROJECT T4 Removal Action-Phase 1 Dredging and Capping CONTRACT NO. 820027/2008D013
 CONTRACTOR Hickey Marine Inc. SUPERINTENDENT Darrell Jamison
 DAY OF WEEK & DATE: Fri., Aug 22, 2008 REPORT NO. 08
 WEATHER Morning showers, cloudy afternoon TEMPERATURE L 57 H 78

NUMBER/CLASS OF CONTRACTOR'S PERSONNEL:	MAJOR EQUIPMENT ON JOB (Size/capacity and hours):
Hickey Dredge Crew: Superintendent Crane operator 3 Deck hands	Crane/Derrick with 2 Barge/Scow

CHRONOLOGICAL ACCOUNT OF DAY'S WORK:

(06:00 – 21:00) Contractor's working hours while dredging at berth 411

NOTE: Currently, there is approx. 77,480 gal of waste water in lash barge which represents about 4390 cu yds or 6120 tons of total dredged material.

(06:35) Crane's first bucket in water

Foot Mark: 1375, 10'-15' from face of dock

Tide: +2.1 CRD

Freeboard: 5 bow

Contractor continues to load Chetco #2 barge (4th barge total to date) and continues to have crew in Tyvek suit discharge waste water from barge to lash barge.

Oil water boom at head of slip surrounding both crane derrick and barges, silt fence also in-place 100' from mouth of slip 3.

Anchor boat crew on site, including Const. Mgr: Tim Stone monitoring day shift dredging operations from berth 411

(10:00) Crane continues to dredge

FM 1390- 1415, 10'-20' from face of dock

Tide: 3.5' CRD

Crane removed large log and placed inside scow, 10' long, 14" dia

(13:00) Crane spuds lifted. Crane moved away from head of slip and resumed dredging

FM: 1430-1450, 10'-20' from face of dock

Freeboard: 6 bow

Tide board: +2.7' CRD

(14:30) Crane continues to dredge

FM 1430-1450, 10'20' from face of dock

Freeboard: 6 bow

(15:00) Port inspector (PGB) left site. Anchor engineer (JV) continues to monitor dredging operations at B411

TESTING LABORATORY ON SITE: _____ HRS: _____

TESTS PERFORMED: _____



DAILY DIARY

PROJECT T4 Removal Action-Phase 1 Dredging and Capping CONTRACT NO. 820027/2008D013

CONTRACTOR Hickey Marine Inc. SUPERINTENDENT Darrell Jamison

DAY OF WEEK & DATE: Fri., Aug 22, 2008 REPORT NO. 08

WEATHER Morning showers, cloudy afternoon TEMPERATURE L 57 H 78

<u>PHONE LOG:</u>	
<u>SITE PHOTOS/VIDEOS TAKEN:</u>	<u>FORCE ACCOUNT WORK/ CHANGES ENCOUNTERED:</u>

INSPECTOR Philipp G. Bales HRS _____ DATE 8-22-8
(signature on hardcopy)

DAILY REPORT OF OPERATIONS:

CONTRACT NO:

TO: P.O.P.

CONTRACTOR: HME

DATE(S): 8/22/08

REPORT NO: 8
CONTRACT DAY: 10

OBJECT AND BAR: NAME: Terminal 4 Removal Action
 AUTHORIZED DIMENSIONS: 120 x 260
 WIDTH: 50
 DEPTH: -41.72 - 49.72

LOCATION: (include station no.): CELLS 7, 8, 9, 10
 GRADE PASS
 OVERDEPTH: 1'

DREDGE: NAME & TYPE: SEA HORSE DREVO
 SIZE: 135 Ton
 HORSEPOWER OF: 900
 DIPPER OR BUCKET: 20 CY. CAP.

NUMBER OF CREW MEMBERS: Dredge: 11, Shore: , Other: 1, Total: 12
 WORK SCHEDULE: Shifts per day: 2, Days per week: 7

CHANNEL CONDITION: AVERAGE BEFORE DREDGING AFTER DREDGING
 MINIMUM BEFORE DREDGING AFTER DREDGING

CHARACTER OF MATERIAL AND PERCENTAGE: GRAVEL, MUD, SAND, SILT, STONE, HARDPAN, OTHERS
 DISTRIBUTION OF TIME: EFFECTIVE WORKING TIME (chargeable to cost of work), HOURS, MIN

WORK PERFORMED: PUMPING OR DREDGING 13 00

ITEM: AVERAGE WIDTH OF CUT, UNIT: FEET, QTY: 120
 NON-EFFECTIVE WORKING TIME

TOTAL ADVANCE THIS PERIOD: FEET 75
 HANDLING ANCHOR LINES

TOTAL ADVANCE PREVIOUS TO THIS PERIOD: FEET 800
 WAITING FOR SCOWS

TOTAL ADVANCE TO DATE: FEET 875
 TO AND FROM WARF OR ANCHORAGE

WATER PUMPED THIS PERIOD: Gallons 16,087
 CHANGING LOCATION OF PLANT ON JOB 30

WATER PUMPED PREVIOUS TO THIS PERIOD: Gallons 77,481
 LOSS DUE TO OPPOSING NATURAL ELEM.

TOTAL WATER PUMPED TO DATE: Gallons 93,568
 LOSS DUE TO PASSING VESSELS

SCOWS LOADED: SCOWS DREDGED PER PUMP HOUR, GROSS: CU. YD 67
 SHORE LINE AND SHORE WORK

MINOR OPER. REPAIRS (explain below): 1 15

WAITING FOR ATTENDANT PLANT

CUBIC YARDS REMOVED: PREPARATION AND MAKING UP TOW

AMOUNT DREDGED THIS PERIOD: (1) GROSS (computed amount) 875
 TRANSFERRING PLAN BETWEEN WORKS

(2) CREDITED (pay place) SUNDAYS AND HOLIDAYS SURVEY 1

AMOUNT PREVIOUSLY REPORTED: (1) GROSS (computed amount) 4392
 SAFETY MEETING 15

(2) CREDITED (pay place) WATER PUMPING

AMOUNT DREDGED TO DATE: (1) GROSS (computed amount) 5267
 TOTAL NON-EFFECTIVE WORKING TIME 3

(2) CREDITED (pay place) TOTAL EFFECTIVE AND NON-EFFECTIVE TIME (chargeable to cost of work) 16 00

ATTENDANT PLANT: LOST TIME (chargeable to cost of work)

ITEM	NAME OR NUMBER	HOURS
TUG	HUSKY	16
MATERIAL BARGE	CHEFCO	16
WATER BARGE	LASH Combo	16
CREW/SURVEY	Piggy	16
TUG	DEGAN	16

MAJOR REPAIRS AND ALTERATIONS:

CESSATION:

MISCELLANEOUS:

Has anything developed which might lead to a change order or claim:

TOTAL LOST TIME:

TOTAL TIME IN PERIOD:

ALL WORK PERFORMED DURING THIS PERIOD COMPLIES WITH THE CONTRACT SPECIFICATIONS AND DRAWINGS:

TITLE: SUPERINTENDENT

SIGNATURE: [Signature]



HICKEY MARINE ENTERPRISES

6801 NW Old Lower River Road
Vancouver, WA 98660
(360) 695-4553 (503) 284-1140

M T W T H F S S

Job Name Terminal 4 Removal Action Date 8/22/08

Job No. 2428 Weather

- Equipment: Sea Hawk Sea Vulture Sea Lion Viking 966 Loader Chetco
Barge 174 Barge 34 BK5 Nova Barge 47 Barge Harvey A
Manlift Other SEA Hoistg Lash Combo, DEBRA

Equipment Safety Checks Performed? Yes / No

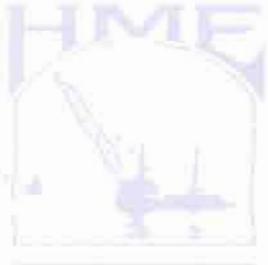
Personal Protective Equipment Safety Checks Performed? Yes / No

Work performed today

06:00 - 6:15 WARM UP
6:15 - 6:30 SAFETY MEETING
6:30 - 15:00 LOAD CHETCO #4 CELLS 7, 8, 9
15:00 - 16:00 SURVEY - GREASE BUCKET
16:00 - 16:30 RESUME DREDGING
16:30 - 17:00 MOVE TO DREDGE CELL 10
17:00 - 21:00 RESUME DREDGING
21:00 - 22:00 PUMP - SERVICE - FUEL - SECURE

Extra work or delays (authorized by)

Sign



T-4/ The Dalles Offload Site

Daily Inspection Checklist

Date 8/22/08

1) Safety Meeting:

Agenda: PPE, Fire Extinguisher inspection, USE
Decow Station

Attendees:

[Signature]
[Signature]
[Signature]
[Signature]

[Signature]
[Signature]
[Signature]
[Signature]

Derrick SEAHORSE

Derrick Sea Vulture

2) Crane Inspection:

"Attach Operator Log/Inspection Log"

3) Plant Inspection

Deficiencies:

Date

Date Corrected

1. SAFETY Post in front
OF Bow Block

8/22

8/22

2. MOVE WEIDER FROM TOOL
Room

8/22

8/22

3. Ballasts Bvant out in
Basement

8/21

4) Staff Gage Check

Time

Tideboard

Tide Track

06:30

2.2

2.23

14:45

2.32

2.34

17:25

1.5

1.54

5) Main Fuel Tank Levels

Port

Starboard

Height

62

NA

Gallons

6200

Consumption per day

200

6) Survey Boat

Fuel

Port

Starboard



Hull Depth

.7

Sound Velocity

4889

Latency

.200

Position Verification

Boat

X 7620401.02Y 713422.15
1/2
1/2

#20 Control Point

X 7620400.37Y 713422.93

7) Dredge Material Weight

108 pounds per cubic foot 1.45

8) Dredge Boom Tip Verification

X 7620400.90Y 713423.01

#20 Control Point

X 7620400.37Y 713422.93

9) Containment and Truck Load Area

Clean



Dust Suppression



Fabric



Spill Plates



10) Lash Barge:

Keep within 2 ft of trim

Draft

PB 8.8SB 8.6

Gallons Pumped Today

60 Tons = 16,087 galPS 9.6SS 9.3

Total Gallons

93,568

Tank Sounding

#1 19"#3 20"#2 12"#4 12"

11) Baker Tank Level

#1 _____

#2 _____

12) De con Stations

Clean



Inventory



13) Dust Suppression NA

Location _____ Time _____ Reading _____

Background _____

Location _____ Time _____ Reading _____

14) Material Barge

CHETCO

Draft

PB 4.3SB 4.1MT Tons 1600

Total Tons

MT

PS 5.2SS 3.91290

Draft

PB 8.8SB 9.3LD Tons 2870

Total Yards

LD

PS 10.2SS 9.6875



DAILY QUALITY CONTROL REPORT

Daily Report No. 8

Date: 8/22/08

Contract No. _____

Project Title: TERMINAL 4 REMOVAL ACTION Location: BEATH 411

Weather: CLEAR Temperature: 65 Min. 85 Max

1. Contractor/Subcontractors and Area of Responsibility:

NUMBER	TRADE	HOURS	EMPLOYER	LOCATION/DESCRIPTION OF WORK
<u>11</u>	<u>DREDGE</u>	<u>16</u>	<u>HME</u>	<u>411 / DREDGE</u>
<u>1</u>	<u>SURVEY</u>	<u>8</u>	<u>ETRAC</u>	<u>411 / PROGRESS SURVEYS</u>

2. Operating Plant or Equipment. (Not Hand Tools)

Plant/Equipment	Date of Arrival/Departure	Date of Safety Check	Hours Used	Hours Idle	Hours Repair
<u>SEA HORSE</u>	<u>8/18</u>	<u>8/22</u>	<u>13</u>	<u>145</u>	<u>115</u>
<u>CHETCO</u>	<u>8/21</u>	<u>8/22</u>	<u>16</u>		
<u>HUSKY</u>	<u>8/18</u>	<u>8/22</u>	<u>1</u>	<u>15</u>	
<u>LASH COMBO</u>	<u>8/18</u>	<u>8/22</u>	<u>16</u>		
<u>DEBRA</u>	<u>8/18</u>	<u>8/22</u>	<u>2</u>	<u>14</u>	
<u>PIGGY</u>	<u>8/18</u>	<u>8/22</u>	<u>16</u>		

1. Work performed today: (Indicate location and description of work performed by prime and/or subcontractors by letter in table above).

DREDGED GRADE IN CELLS 7, 8, 9, 10. PERFORMED DAILY PROGRESS SURVEY @ 2:00 pm. P.O.P. GAVE HME A VERY QUICK RESPONSE TO RFI'S SUBMITTED

YESTERDAY'S PROGRESS SURVEY SHOWED SOME CLEAN UP ON SLOPE AND SMALL POINTS WITHIN THE CELLS. HME WILL CLEAN UP WHAT WE CAN BEFORE CHANGING TO OUR CONVENTIONAL BUCKET.

2. Results of control activities: (Indicate whether P - Preparatory, I - Initial, or F - Follow-up phase. When a P or I meeting is conducted, complete attachment I-A or I-B, respectively. When network analysis system is used, identify work by use of I-J numbers.

1. RECEIVED APPROVAL FROM P.O.P. TO SWITCH TO ROUNDNOSE H.D. CLAMSHELL IN AREAS THAT CANNOT BE DREDGED TO GRADE WITH A CABLE ARM. CERTAIN CONDITIONS WILL APPLY TO OUR METHODS, (THE BUCKET WILL BE HOISTED AT A HIGHER RATE OF SPEED AND NOT TO BE ALLOWED TO DREDGE AS WE DO WITH THE C.A.

2. P.O.P. APPROVED THAT HME CAN BEGIN DREDGING IN BERTH 410 BEFORE SCHEDULES SHUT DOWN,
3. NO EXCEEDANCES AT COMPLIANCE POINTS FOR WQ TESTING.
3. Offsite surveillance activities, including action taken:

1. Worked with HME OFFICE FOR RFI FOR PILE REMOVAL AT THE HEAD OF SI'P

4. Job Safety: (Report violations; corrective instructions given; corrective actions taken).

1. Monthly FIRE EXTINGUISHER INSPECTION PERFORMED

2. REMINDED CREWS TO USE DEWAX STATION TO CLEAN MUDDY BOOTS

3. CREWS ARE DOING A GREAT JOB WITH THE HOUSEKEEPING AND WEARING THEIR P.P.E.

5. Remarks: (Instructions received or given. Conflict(s) in plans and/or specifications).

1. WHILE USING CLAMSHELL H.D. BUCKET WQ TESTING WILL BE CONDUCTED EVERY HOUR INSTEAD OF 4 HOURS.

2. WE WILL REMOVE AS MUCH MATERIAL WITH THE C.A. BEFORE WE SWITCH TO A CONVENTIONAL BUCKET

3. BEGAN DREDGING SOME CLEAN-UP (REMOVING 1-2 TENTHS.)

Contractor's Verification: On behalf of the Contractor, I certify this report is complete and correct, and all materials and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as noted above.

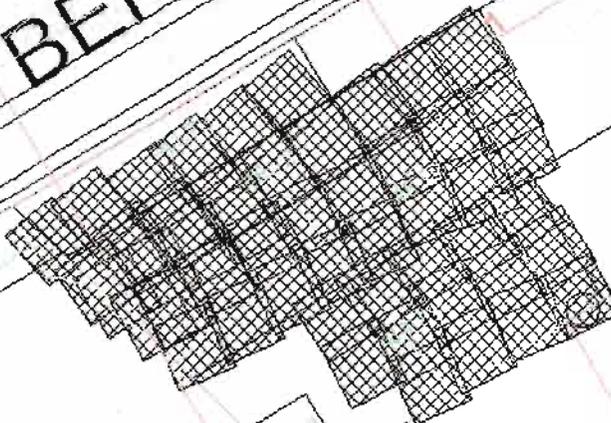
Authorized CQC Rep at Site

Date



8/23/08

BERTH 411



○ 14:45:31

○ 51:22

49.22

47.72

49.22

41.22

47.72

40.22

rip rap

20

Dredge T

7620186.55	713366.47	0.00	101.09	19.00	17.00	74814
7620188.80	713380.97	0.00	95.59	19.00	17.00	74556
7620197.48	713350.87	0.00	105.79	19.00	17.00	72922
7620201.16	713362.62	0.00	101.32	19.00	17.00	72625
7620202.64	713378.73	0.00	95.50	19.00	17.00	72347
7620212.61	713349.49	0.00	104.26	19.00	17.00	71282
7620215.64	713363.52	0.00	99.66	19.00	17.00	70678
7620217.45	713376.33	0.00	95.81	19.00	17.00	70267
7620229.01	713346.52	0.00	108.38	19.00	17.00	68630
7620231.28	713359.32	0.00	103.45	19.00	17.00	67592
7620232.48	713372.40	0.00	98.52	19.00	17.00	67164
7620263.30	713415.09	0.00	94.25	19.00	17.00	26777
7620248.33	713417.30	0.00	92.88	19.00	17.00	28244
7620234.38	713419.60	0.00	92.85	19.00	17.00	29192
7620260.69	713396.73	0.00	99.97	19.00	17.00	30076
7620246.13	713400.58	0.00	99.58	19.00	17.00	30512
7620231.04	713402.42	0.00	100.42	19.00	17.00	31960
7620257.33	713384.93	0.00	106.44	19.00	17.00	33048
7620242.74	713383.83	0.00	108.31	19.00	17.00	33578
7620228.29	713388.95	0.00	108.21	19.00	17.00	33938
7620218.21	713437.33	0.00	89.84	19.00	17.00	35679
7620218.19	713420.66	0.00	95.61	19.00	17.00	36007
7620215.44	713403.86	0.00	101.12	19.00	17.00	36341
7620211.23	713390.01	0.00	105.80	19.00	17.00	36689
7620202.17	713438.52	0.00	89.51	19.00	17.00	37040
7620201.76	713423.15	0.00	95.36	19.00	17.00	37701
7620200.37	713408.06	0.00	100.83	19.00	17.00	38021
7620197.66	713392.40	0.00	106.42	19.00	17.00	38376
7620187.04	713441.01	0.00	91.83	19.00	17.00	39537
7620173.11	713442.07	0.00	92.16	19.00	17.00	40169
7620156.78	713446.76	0.00	90.48	19.00	17.00	41499
7620142.06	713448.16	0.00	89.61	19.00	17.00	42209
7620186.89	713418.00	0.00	98.24	19.00	17.00	46083
7620187.62	713425.19	0.00	96.42	19.00	17.00	46672
7620172.83	713420.14	0.00	98.58	19.00	17.00	46992
7620172.42	713427.53	0.00	96.28	19.00	17.00	47411
7620171.55	713430.09	0.00	95.33	19.00	17.00	47747
7620159.61	713422.98	0.00	97.90	19.00	17.00	48087
7620158.56	713432.73	0.00	94.93	19.00	17.00	49406
7620146.70	713425.16	0.00	97.89	19.00	17.00	49851
7620144.81	713430.89	0.00	96.25	19.00	17.00	50655
7620183.59	713394.86	0.00	105.24	19.00	17.00	52619
7620187.10	713409.40	0.00	101.08	19.00	17.00	52879
7620168.49	713397.07	0.00	106.34	19.00	17.00	53852
7620170.62	713410.93	0.00	101.71	19.00	17.00	54379
7620153.51	713400.04	0.00	106.18	19.00	17.00	58374
7620157.18	713412.16	0.00	102.25	19.00	17.00	58873
7620150.48	713414.00	0.00	101.25	19.00	17.00	59352
7620246.66	713371.18	0.00	94.47	19.00	17.00	61677
7620246.79	713357.04	0.00	98.40	19.00	17.00	62040
7620243.76	713342.27	0.00	102.41	19.00	17.00	62478

Hickey Marine Enterprises
Daily Preventative Maintenance Checklist

SEA HORSE

VISUAL CHECKS:

WEEK OF: 8-18-08

NO	ITEM TO BE CHECKED	INITIAL EACH ITEM AS CHECKED						
		DATE	8/18	8/19	8/20	8/21	8/22	8/25
1	Broken or cracked glass. Clean if needed.		PS	CTC	CTC	PS	PS	PS
2	Damaged or missing sheet metal, guards, gear, or chain case covers.				✓			
3	Drive chains & sprockets for cracked or broken pieces.				✓			
4	Oil or coolant leaking below rotating bed or car body.				✓			
5	Roller path, house rollers, hook rollers for chips or cracks.				✓			
6	Boom hoist, whip line & hoist wire rope – pendants – load blocks – sheaves.				✓			
7	Fuel tank(s) – fuel gauges – hoses & connections.				✓			
8	Limit devices – boom/mast stops – drum pawls.				✓			
9	Control valves – lever & linkage – instrument panel(s)				✓			
10	Fire extinguisher available in working order.				✓			
11	Drain air tank of water.				✓			
12	Inspect boom and gantry.				✓			
13	Check all brakes.				✓			

PREVENTATIVE MAINTENANCE CHECKLIST

NO	ITEM TO BE CHECKED	PROCEDURE	INITIAL EACH ITEM AS CHECKED							
			DATE	PS	CTC	CTC	PS	PS	PS	
	Radiator coolant all equipment (3 total)	Check level, add when necessary				✓				
2	Controlled converter fluid	Check reservoir, add oil when necessary				✓				
3	Hydraulic system(s) level (2 total)					✓				
4	Chain case lube	Check level, add when necessary				✓				
5	Cooling Fans	Water Brake and CAT 3508				✓				
6	Main and Generator	Check level, add oil when necessary				✓				
7	Converter input and/or output housing(s)					✓				
8	Air compressor (air leaks, etc.)					✓				
9	Observe all gauges and warning devices					✓				
10	Check for missing pins and/or bolts					✓				
11	All Louvers	Make sure they are open				✓				

DATE	ITEM OR DISCREPANCY	DATE CORRECTED	INITIAL
8-18	Full Filter reset boom spider		PS
	change ceeman valve 2 line no change clean contacts		PS
8-19	clean contact 1 & 2 line, lube buttons working good		CTC

Diary (continued)

Date: 8/23/08

Report Number: 10

06:00 Hickey moving Sea Horse and Chetco barge into place and preparing to dredge with 20 cu. yard cable arm bucket

06:30 Hickey begins dredging at Cells 10 and 11 near bent lines 35-40

06:30-08:15 dredging continues with cycle times of 4-7 minutes with very little debris observed at the bucket closure point

08:15 Hickey moves barge and derrick to allow for bathymetry survey of dredge prism

08:30-09:40 Hickey conducts bathymetry survey

09:40 Hickey resumes dredging at cells #1 and #6 and processing survey data

09:50 WQ crew begins round #1 of measurements at S3A-E

10:30 WQ crew to collect chemistry samples at 100 M arc at point of highest turbidity "N" location

10:15-14:00 dredging continues with Hickey moving derrick and barge occasionally and performing cleanup passes in selected cells with 20 cu. yard cable-arm bucket

- buckets occasionally observed to be heavy to one end
 - buckets are typically ¼-1/3 full
 - cycle times have been observed at 7-10 minutes
 - drain down water is grey-tan to clear and colorless
 - very little debris has been observed obstructing bucket closure point
 - operator has been very consistent about opening bucket to stops while above barge (banging the bucket) multiple times and this continues to result in little to no sediment being returned to the water
-

12:45 WQ crew reports that turbidity at compliance point was nearing the point of exceedance; crew returned to BG-1(R) to conduct an additional measurement of background. Background has elevated from early AM measurement 9.5 NTU to 19 NTU at 12:55.

13:00 WQ crew begins round #2 measurements at 100 meters from dredge bucket

13:20 WQ crew reports elevated turbidity (>30) at 100 M from dredge bucket at "M" location at bottom depth interval—crew will complete measurements at 100 M arc

13:35 WQ crew moving to compliance arc for measurement of compliance point parameters round #2. Hydrolab unit computer unit was not charged completely and is currently being recharged. Final compliance arc will be performed by second shift.

13:50 dredging ongoing in cells #1, #4, and #5

14:00 Chetco barge appears to be nearly filled to capacity—dredging with 20 cu. yard cable-arm continues

14:00 Ben Hung on site to assume CQA/CM for second shift/Hickey conducting shift change as well

14:20 Boom completely surrounds area of dredging. Turbidity curtain deployed across slip and around derrick tug, sediment barge, and lash barge.

14:30 Discussed plan for evening shift with Hickey. Side slopes and in cells 6 and 11 are targeted, as well as high spots in cell 10.

14:35 WQ second shift crew performing compliance round sampling. No exceedances reported.

16:00 Joined WQ crew on water and checked fish diversion. Batteries are out on lighted buoy. Instructed WQ crew to obtain/replace batteries tomorrow.

18:30 WQ crew reports elevated turbidity at S3A-N. Moving out to S3M locations. Reported also that batteries in Hydrolab Unit needed to be replaced between rounds 2 and 3. Batteries were replaced and Hydrolab re-calibrated, resulting in approximate 45 minute delay.

19:00 Hickey primarily rehandling material on barge to balance out load to prepare for transport.



PROJECT T4 Removal Action-Phase 1 Dredging and Capping CONTRACT NO. 820027/2008D013
 CONTRACTOR Hickey Marine Inc. SUPERINTENDENT Darrell Jamison
 DAY OF WEEK & DATE: Sat., Aug 23, 2008 REPORT NO. 09
 WEATHER Sunny TEMPERATURE L 59 H 85

<u>NUMBER/CLASS OF CONTRACTOR'S PERSONNEL:</u>	<u>MAJOR EQUIPMENT ON JOB (Size/capacity and hours):</u>
Hickey Dredge Crew: Superintendent Crane operator 3 Deck hands	Crane/Derrick with 2 Barge/Scow

CHRONOLOGICAL ACCOUNT OF DAY'S WORK:

(06:00 – 21:00) Contractor's working hours while dredging at berth 411.

Starting Sun., 8-24, contractor will be switching to 1-12hr shift till Thurs., 8-28, finishing B411 on Mon., then start dredging in B410 on Tues., 8-26.

Port hydro surveyor's (D&E) are scheduled to survey all of Hickey's completed dredging work thus far in B414, B411"plus" dredge and B411, on Tues., 8-26.

Contractor has informed Port inspector (PGB) that they plan on starting to remove and replace approx. 40 piles for MFM, along B410,B411, starting Tues., 8-26. The pile driving crew will work around both D&E and dredging crew during their work.

(06:30) Crane's first bucket in water
 Foot Mark: 1425-1440, 60'-80' from face of dock
 Tide: +2.0 CRD
 Freeboard: 9 bow

Contractor continues to load Chetco #2 barge (4th barge total to date) and continues to have crew in Tyvek suit discharge waste water from barge to lash barge.

Oil water boom at head of slip surrounding both crane derrick and barges, silt curtain also in-place 100' inside mouth of slip 3 covering entire width.

Anchor boat crew on site, including Const. Mgr: Tim Stone monitoring day shift dredging operations from berth

(08:00) Crane spuds lifted, crane/derrick moved towards head of slip, and continued to dredge
 FM: 1200

(09:15-09:50) Crane on standby while HME superintendent hydro survey B411 dredged work areas. According to HME survey, several areas remain high and they will spend remainder of the day with cable bucket getting these areas to design finished grade.

(10:00) Crane re-summed dredging still using cable bucket
 FM: 1280, 80'-100' from face of dock
 Freeboard: 9 bow

(11:00) Crane continues to dredge
 FM: 1255, 60'-80' from face of dock
 Crews in Tyvek suits continue to discharge waste water from barge into lash barge



PROJECT T4 Removal Action-Phase 1 Dredging and Capping CONTRACT NO. 820027/2008D013

CONTRACTOR Hickey Marine Inc. SUPERINTENDENT Darrell Jamison

DAY OF WEEK & DATE: Sat., Aug 23, 2008 REPORT NO. 09

WEATHER Sunny TEMPERATURE L 59 H 85

(11:20) Crane cont dredge
FM: 1265-1275, 80'-100' from face of dock
Freeboard: 9 bow

(12:00) Crane using bucket inside barge to relocate sediment to help distribute weight
Crews in Tyvek suits continue to discharge waste water from Chetco barge into lash barge

EPA representative (AS) on site monitoring HME dredging operations till 16:00.

(12:15-12:25) Crane spuds lifted moved towards head of slip 3, then continued to dredge with cable bucket
FM: 1240, 40' from face of dock
Tide: 3.3 CRD
Freeboard: 9 bow

(13:15) Crane continues to dredge (cell #1)
FM: 1250, 20'-30' from face of dock
Tide: 3.5 CRD
Freeboard: 9 bow

(14:00) Crane spuds lifted, moved crane derrick & barge away from head of slip 3
FM 1340-1350, 60' from face of dock
Freeboard: 10 bow
Tide: 2.2 CRD

Anchor engineer (BH) on site to monitor night shift dredging operations.

(15:15) Crane spuds lifted moving crane derrick and barge away from head of slip 3
FM 1375
Tide: +2.0 CRD
Freeboard: 10.5 bow

(16:00) Port inspector (PGB) left site. Anchor engineer (BH) continues to monitor night shift dredging operations at B411

TESTING LABORATORY ON SITE: _____ HRS: _____

TESTS PERFORMED: _____

PHONE LOG:

SITE PHOTOS/VIDEOS TAKEN:

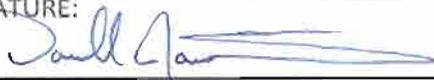
FORCE ACCOUNT WORK/ CHANGES ENCOUNTERED:



DAILY DIARY

PROJECT T4 Removal Action-Phase 1 Dredging and Capping CONTRACT NO. 820027/2008D013
CONTRACTOR Hickey Marine Inc. SUPERINTENDENT Darrell Jamison
DAY OF WEEK & DATE: Sat., Aug 23, 2008 REPORT NO. 09
WEATHER Sunny TEMPERATURE L 59 H 85

INSPECTOR Philipp G. Bales HRS _____ DATE 8-23-8
(signature on hardcopy)

DAILY REPORT OF OPERATIONS:					CONTRACT NO:					
TO: P.O.P.		CONTRACTOR: HME		DATE(S): 8/23/08		REPORT NO: 9 CONTRACT DAY: 11				
PROJECT AND BAR	NAME: Terminal 4 Removal Action			AUTHORIZED DIMENSIONS: 120 x 260		WIDTH: 50	DEPTH: -47.22 - 50.22			
	LOCATION: (Include station no.) CELLS 1,6,10,11 + SIDE SLOPE				OVERDEPTH: 1					
DREDGE	NAME & TYPE: SEA HORSE DREVO			SIZE: 135 ton		DIPPER OR BUCKET: 20 CY. CAP.				
	HORSEPOWER OF 900									
	NUMBER OF CREW MEMBERS				WORK SCHEDULE					
Dredge: 11		Shore: 1	Other: 1	Total: 12	Shifts per day: 2		Days per week: 7			
CHANNEL CONDITION	AVERAGE BEFORE DREDGING		AFTER DREDGING		MINIMUM		BEFORE DREDGING	AFTER DREDGING		
	GRAVEL 2		MUD 50	STONE	DISTRIBUTION OF TIME		EFFECTIVE WORKING TIME (chargeable to cost of work)	HOURS	MIN	
CHARACTER OF MATERIAL AND PERCENTAGE	SAND 35		CLAY	HARDPAN	EFFECTIVE WORKING TIME (chargeable to cost of work)		HOURS	MIN		
	SILT 13		OTHERS		PUMPING OR DREDGING		10	45		
	WORK PERFORMED				PUMPING OR DREDGING		10	45		
ITEM		UNIT	QTY		NON-EFFECTIVE WORKING TIME					
AVERAGE WIDTH OF CUT		FEET	120		HANDLING ANCHOR LINES					
TOTAL ADVANCE THIS PERIOD		FEET	200		WAITING FOR SCOWS					
TOTAL ADVANCE PREVIOUS TO THIS PERIOD		FEET	875		TO AND FROM WARP OR ANCHORAGE					
TOTAL ADVANCE TO DATE		FEET	1075		CHANGING LOCATION OF PLANT ON JOB				1	15
WATER PUMPED THIS PERIOD		GALLONS	32,710		LOSS DUE TO OPPOSING NATURAL ELEM.					
WATER PUMPED PREVIOUS TO THIS PERIOD		GALLONS	93,568		LOSS DUE TO PASSING VESSELS					
TOTAL WATER PUMPED TO DATE		GALLONS	126,278		SHORE LINE AND SHORE WORK					
AVERAGE DREDGED PER PUMP HOUR, GROSS		CU. YD	43		MINOR OPER. REPAIRS (explain below)				1	45
SCOWS LOADED		NUMBER	1		WAITING FOR ATTENDANT PLANT					
AVERAGE LOAD PER SCOW		CU. YD	1735		PREPARATION AND MAKING UP TOW					
CUBIC YARDS REMOVED				TRANSFERRING PLAN BETWEEN WORKS						
AMOUNT DREDGED THIS PERIOD:				LAY TIME OFF SHIRT AND SATURDAYS						
(1) GROSS (computed amount)		465		SUNDAYS AND HOLIDAYS SURVEY				1	30	
(2) CREDITED (pay place)				SAFETY MEETING					15	
AMOUNT PREVIOUSLY REPORTED:				WATER PUMPING						
(1) GROSS (computed amount)		5267		TOTAL NON-EFFECTIVE WORKING TIME				5	15	
(2) CREDITED (pay place)				TOTAL EFFECTIVE AND NON-EFFECTIVE TIME (chargeable to cost of work)				16	00	
AMOUNT DREDGED TO DATE:				LOST TIME (chargeable to cost of work)						
(1) GROSS (computed amount)		5732		MAJOR REPAIRS AND ALTERATIONS:						
(2) CREDITED (pay place)		1735 yds CHETCO LOADED		CESSATION:						
ATTENDANT PLANT				MISCELLANEOUS: OPEN BOOM					30	
ITEM		NAME OR NUMBER		HOURS		TOTAL LOST TIME:				
TUG		Husky		16		TOTAL TIME IN PERIOD:			30	
MATERIAL BARGE		CHETCO		16						
WATER BARGE		LASH Combo		16						
CREW / SURVEY		PIGLEY		16						
TUG		DEORA		16						
Has anything developed which might lead to a change order or claim: Open Turbidity Boom										
ALL WORK PERFORMED DURING THIS PERIOD COMPIES WITH THE CONTRACT SPECIFICATIONS AND DRAWINGS:				TITLE: SUPERINTENDENT				SIGNATURE: 		



HICKEY MARINE ENTERPRISES

6801 NW Old Lower River Road
Vancouver, WA 98660
(360) 695-4553 (503) 284-1140

M T W T H F S

Job Name T-4 Removal Action Date 8/23/08

Job No. 2428 Weather _____

Equipment: Sea Hawk Sea Vulture Sea Lion Viking 966 Loader Chetco

Barge 174 Barge 34 BK5 Nova Barge 47 Barge Harvey A

Manlift Other SEA HORSE, LASH COMBO, HUSKY

Equipment Safety Checks Performed? Yes / No

Personal Protective Equipment Safety Checks Performed? Yes / No

Work performed today

06:00 - 06:30	WARM UP
6:30 - 6:45	SAFETY MEETING
6:45 - 8:00	LOAD CHETCO DREDGE CELL #10 - 11
8:00 - 8:15	MOVE DREDGE FOR SURVEY
8:15 - 9:45	SURVEY
9:45 - 10:00	MOVE DREDGE to CELL #6 TOE
10:00 - 14:00	LOAD CHETCO - Finish cell 1-6 End slope cleanup
14:00 - 14:30	MOVE Back to DREDGE SIDE SLOPE CELL 6-10
14:30 - 20:00	LOAD CHETCO
20:00 - 20:30	Level load - move BACK for AM SURVEY
20:30 - 21:30	Break silt boom - service - move pumps onto LASH
21:30 - 22:00	SECURE

Extra work or delays (authorized by)

2 new OPEW Turbidity Boom (30 min)

Sign _____



T-4/ The Dalles Offload Site Daily Inspection Checklist

Date 8/23/08

1) Safety Meeting:

Agenda: House Keeping, Scope of Work, Hand Washing,
GARBAGE, Do not walk on Bin wall

Attendees:

Booy Alberti
[Signature]
[Signature]
[Signature]
[Signature]

[Signature]
Adam Bognath
[Signature]
[Signature]
[Signature]

Derrick SEAHORSE

Derrick Sea Vulture

2) Crane Inspection:

"Attach Operator Log/Inspection Log"

3) Plant Inspection

Deficiencies:	Date	Date Corrected
<u>Ballasts Burnt in Basement</u>	<u>8/21</u>	
<u>DECK BLOCKS ARE NOT WEIDED in PROPER locations</u>	<u>8/23</u>	

4) Staff Gage Check

Time	Tideboard	Tide Track
<u>06:30</u>	<u>2.3</u>	<u>2.34</u>
<u>01:45</u>	<u>3.3</u>	<u>3.34</u>
<u>13:40</u>	<u>2.7</u>	<u>2.73</u>

5) Main Fuel Tank Levels

Port _____ Starboard _____

Height 60.5
Gallons 6050
Consumption per day 150

6) Survey Boat



Hull Depth

.7

Fuel



Sound Velocity

4888

Latency

.200

Position Verification

Boat

#20

X 7620399.98

Y 713422.50

Port

1/2

Starboard

1/2

Control Point

X 7620400.37

Y 713422.98

7) Dredge Material Weight



108

pounds per cubic foot

8) Dredge Boom Tip Verification

X 7620400.91

Y 713423.00

Control Point

X 7620400.37

Y 713422.93

9) Containment and Truck Load Area

Clean



Dust Suppression



Fabric



Spill Plates



10) Lash Barge:

Keep within 2 ft of trim

Draft

PB 8.2

SB 8.2

PS 9.1

SS 9.1

Gallons Pumped Today 122 tons 32,710

Tank Sounding

#1 24

#3 21

#2 21

#4 26

Total Gallons 126,278

22 gallons per yd

11) Baker Tank Level

#1 _____

#2 _____

12) De con Stations

Clean



Inventory



13) Dust Suppression

Location NA Time _____ Reading _____

Background _____

Location _____ Time _____ Reading _____

14) Material Barge

Draft

PB 8.8

SB 9.3

MT Tons 2870

Total Tons

MT

PS 10.2

SS 9.6

675

Total Yards

Draft

PB 11.2

SB 11.2

LD Tons 3547

465

LD

PS 11.8

SS 11.8

CHETCO LOADED

Total YARDS 1735



DAILY QUALITY CONTROL REPORT

Daily Report No. 9

Date: 8/23/08

Contract No. _____

Project Title: Terminal 4 Removal Action

Location: BERTH 411

Weather: CLEAR

Temperature: 65 Min. 88 Max

1. Contractor/Subcontractors and Area of Responsibility:

NUMBER	TRADE	HOURS	EMPLOYER	LOCATION/DESCRIPTION OF WORK
<u>11</u>	<u>DREDGE</u>	<u>16</u>	<u>HME</u>	<u>411 - DREDGE</u>
<u>1</u>	<u>SURVEY</u>	<u>8</u>	<u>ETRAC</u>	<u>411 - PROGRESS SURVEYS</u>

2. Operating Plant or Equipment. (Not Hand Tools)

Plant/Equipment	Date of Arrival/Departure	Date of Safety Check	Hours Used	Hours Idle	Hours Repair
<u>SEA HORSE</u>	<u>8/18</u>	<u>8/23</u>	<u>10⁴⁵</u>	<u>3³⁰</u>	<u>145</u>
<u>Husky</u>	<u>8/18</u>	<u>8/23</u>	<u>3</u>	<u>13</u>	
<u>CHETCO</u>	<u>8/21</u>	<u>8/23</u>	<u>16</u>		
<u>LASH Combo</u>	<u>8/18</u>	<u>8/23</u>	<u>16</u>		
<u>Piggy</u>	<u>8/18</u>	<u>8/23</u>	<u>16</u>		
<u>DEBRA</u>	<u>8/18</u>	<u>8/23</u>	<u>2</u>	<u>14</u>	

1. Work performed today: (Indicate location and description of work performed by prime and/or subcontractors by letter in table above).

Finish DREDGING Cells 10-11. DREDGED SIDE SLOPE Cells 16,10
PERFORMED Daily PROGRESS SURVEY. Finished Loading Chetco

Total Load 1,735 yds. Material is more sandy and weight has changed to 108 lbs cu ft. Water Pumping is at 22 gallons per yo

2. Results of control activities: (Indicate whether P – Preparatory, I – Initial, or F – Follow-up phase. When a P or I meeting is conducted, complete attachment 1-A or 1-B, respectively. When network analysis system is used, identify work by use of I-J numbers.

CLEANED UP AREA AFTER PROGRESS SURVEY THAT WE NEW THAT THE CA-
WOULD CUT. Tomorrow WE ANTICIPATE WE WILL NEED TO USE OUR H.D.
CLAMSHELL TO REACH FINAL GRADE IN CERTAIN AREAS

3. Offsite surveillance activities, including action taken:

COORDINATED WITH TIDEWATER BARGE LINES TO SET UP A 6:00 A.M. BARGE
SWAP TOMORROW MORNING

4. Job Safety: (Report violations; corrective instructions given; corrective actions taken).

1. INSTRUCTED CREW MEMBERS AGAIN NOT TO WALK ON BARGE BIV WALLS
2. AIR MONITORING HAS BEEN WELL WELL BELOW EXCESSANCE LEVELS
3. CREWS HAVE WORKED HARD TO MAINTAIN A CLEAN AND SAFE WORK AREA
4. ADJUSTED GUARDS ON GRINDER WHEELS.

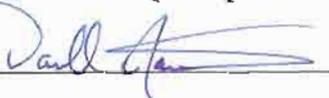
5. Remarks: (Instructions received or given. Conflict(s) in plans and/or specifications).

1. 30 minutes used to open AND SECURE turbidity Room for A.M.
BARGE SWAP
2. AREAS THAT WE HAVE WENT OVER TO CLEAN UP HAVE BEEN DOWN TO
A TENTH. IF REQUIRED TO REMOVE OR (CLEAN UP) ANYTHING LESS THAN THAT WE
RUN A RISK OF BURSTING OR DEWATERING A FULL BUCKET OF WATER.

Contractor's Verification: On behalf of the Contractor, I certify this report is complete and correct, and all materials and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as noted above.

Authorized CQC Rep at Site

Date



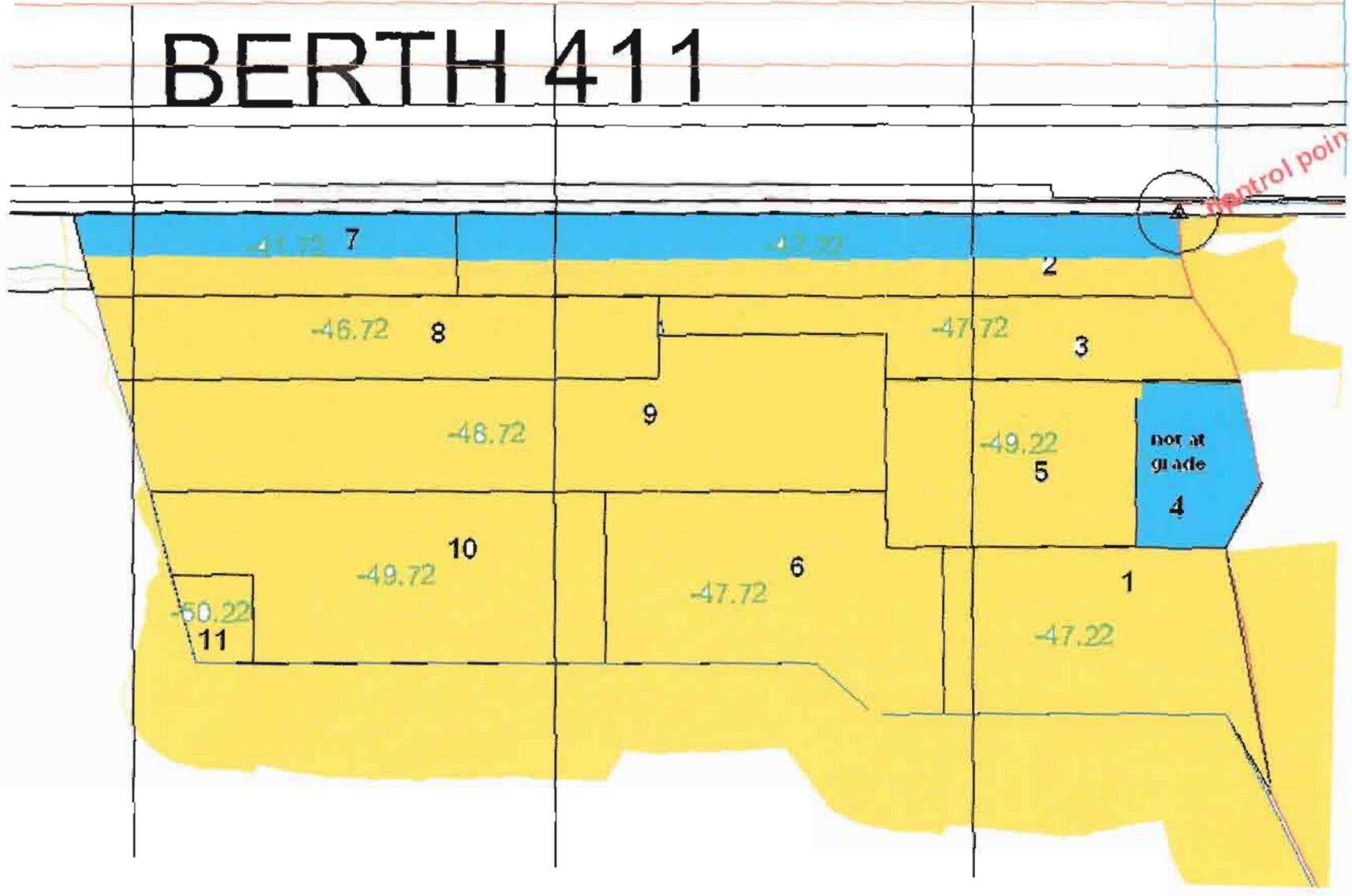
8/24/08

Dredge Progress as of 8/23/08

yellow = grade

lt. blue = dredged but not at grade (hard bottom)

BERTH 411



Dredge T

7620177.76	713356.66	0.00	103.31	19.00	17.00	62392
7620177.46	713356.46	0.00	103.40	19.00	17.00	62390
7620193.51	713369.28	0.00	98.73	19.00	17.00	61715
7620146.53	713383.79	0.00	96.30	19.00	17.00	61500
7620145.09	713367.14	0.00	103.57	19.00	17.00	61184
7620141.81	713347.77	0.00	111.42	19.00	17.00	60972
7620155.80	713342.93	0.00	111.11	19.00	17.00	60747
7620170.66	713339.61	0.00	110.21	19.00	17.00	60423
7620182.34	713337.69	0.00	109.44	19.00	17.00	59739
7620197.12	713335.78	0.00	108.64	19.00	17.00	59449
7620235.69	713396.36	0.00	83.93	19.00	17.00	58127
7620206.61	713360.51	0.00	97.50	19.00	17.00	57666
7620205.91	713350.81	0.00	101.47	19.00	17.00	57643
7620220.99	713348.97	0.00	101.02	19.00	17.00	57044
7620213.16	713334.31	0.00	106.84	19.00	17.00	56764
7620227.28	713332.26	0.00	106.09	19.00	17.00	56468
7620241.01	713328.05	0.00	106.01	19.00	17.00	56075
7620304.14	713359.29	0.00	98.08	19.00	17.00	55452
7620255.33	713344.43	0.00	105.85	19.00	17.00	55116
7620271.91	713340.77	0.00	105.64	19.00	17.00	54779
7620271.25	713323.75	0.00	111.22	19.00	17.00	53999
7620255.95	713328.65	0.00	111.46	19.00	17.00	53672
7620272.13	713326.04	0.00	109.50	19.00	17.00	51585
7620285.58	713323.31	0.00	109.18	19.00	17.00	51137
7620410.82	713307.15	0.00	104.58	19.00	17.00	50489
7620416.01	713324.33	0.00	99.96	19.00	17.00	50396
7620402.00	713285.43	0.00	110.82	19.00	17.00	49694
7620402.97	713299.53	0.00	107.40	19.00	17.00	49220
7620402.11	713312.21	0.00	103.89	19.00	17.00	48878
7620400.46	713324.32	0.00	100.55	19.00	17.00	48286
7620397.35	713337.22	0.00	97.02	19.00	17.00	47985
7620374.47	713378.85	0.00	84.13	19.00	17.00	47198
7620379.91	713377.05	0.00	85.09	19.00	17.00	46527
7620361.62	713343.13	0.00	95.94	19.00	17.00	46104
7620361.52	713327.39	0.00	102.04	19.00	17.00	45722
7620376.03	713331.31	0.00	99.84	19.00	17.00	45318
7620371.58	713342.31	0.00	96.21	19.00	17.00	45043
7620384.63	713336.41	0.00	97.60	19.00	17.00	44177
7620328.14	713377.41	0.00	80.63	19.00	17.00	43180
7620334.62	713360.01	0.00	86.44	19.00	17.00	41978
7620378.97	713302.95	0.00	101.99	19.00	17.00	41176
7620365.04	713304.52	0.00	102.38	19.00	17.00	40763
7620351.90	713306.52	0.00	103.13	19.00	17.00	40036

7620351.95	713306.86	0.00	103.18	19.00	17.00	39927
7620374.35	713295.74	0.00	104.59	19.00	17.00	39524
7620360.60	713298.58	0.00	104.46	19.00	17.00	39207
7620347.37	713300.56	0.00	104.88	19.00	17.00	38646
7620332.05	713302.56	0.00	105.19	19.00	17.00	38355
7620332.04	713302.23	0.00	105.31	19.00	17.00	38328
7620324.33	713301.10	0.00	106.36	19.00	17.00	37915
7620309.16	713304.02	0.00	107.21	19.00	17.00	37465
7620299.71	713314.66	0.00	104.10	19.00	17.00	37104
7620337.09	713308.53	0.00	102.83	19.00	17.00	36380
7620324.94	713310.84	0.00	103.19	19.00	17.00	35969
7620312.12	713313.88	0.00	103.58	19.00	17.00	35637
7620301.77	713325.56	0.00	99.49	19.00	17.00	35228
7620155.50	713357.75	0.00	102.57	19.00	17.00	30155
7620169.44	713354.74	0.00	102.25	19.00	17.00	29721
7620182.35	713351.16	0.00	102.52	19.00	17.00	29378
7620152.13	713366.79	0.00	98.82	19.00	17.00	29123
7620156.30	713362.49	0.00	100.14	19.00	17.00	27939
7620158.38	713359.56	0.00	100.66	19.00	17.00	27498
7620158.39	713365.54	0.00	98.98	19.00	17.00	26716
7620154.78	713383.37	0.00	93.50	19.00	17.00	26264
7620166.18	713381.77	0.00	94.08	19.00	17.00	25902
7620169.69	713357.65	0.00	102.12	19.00	17.00	25451
7620172.34	713369.46	0.00	98.04	19.00	17.00	25028
7620173.56	713381.48	0.00	93.97	19.00	17.00	24522
7620184.31	713354.28	0.00	105.60	19.00	17.00	23647

Diary (continued)

Date: 8/24/08

Report Number: 11

06:00 Hickey on site performing switch out of haul barges. Barge #4 (Chetco) filled on 8/23/08 and is being replaced by Barge #5 (Umpqua)

08:45 Hickey begins dredging cells 2,3,4,and 5 using Atlas 10 cu. yard digging bucket

08:45 WQ crew will begin intensive sampling round due to change in construction activity (three rounds of parameters and one chemistry sample per first four hours)

08:45-16:20 dredging ongoing with Hickey moving derrick and barge occasionally and performing cleanup passes in selected areas of hard material using 10 cu. yard Atlas digging bucket

- buckets are typically $\frac{1}{4}$ - $\frac{1}{2}$ full with occasional buckets filled to near capacity
 - cycle times have been observed at 4-7 minutes (with occasional pauses in dredging)
 - drain down of water when above water surface has been typically limited to 5-10 seconds
 - very little debris has been observed obstructing bucket closure point
 - operator has been very consistent about opening bucket to stops while above barge (banging the bucket) multiple times and this continues to result in little to no sediment being returned to the water
-

11:00-16:30 WQ crew experiencing difficulty with dissolved oxygen measurements using the Hydrolab meter—results have been between 6.5 and 7.5 mg/L throughout the morning; multiple recalibrations have not corrected the problem. Crew instructed to return to background and record parameters again as confirmation that the meter is malfunctioning. Results continued to be in this range throughout the day. No measurements of below 6.0 mg/L were measured by the crew.

- backup meter will be ordered from vendor for delivery on Tuesday 8/26/08
 - WQ crew will attempt to repair the instrument Sunday evening 8/24/08
 - in the event that the D.O. meter cannot be repaired the WQ crew is prepared and has been instructed to collect Van Dorn samples at each location and perform Winkler titrations to determine D.O. at all stations including background. Measurements from the Hydrolab meter will also be recorded as a reference.
-

08:45-15:30 WQ crew measured no turbidity exceedances at the 100 meter arc (S-3A) until the final round of WQ monitoring. The final round required the WQ crew to complete monitoring at the S3-M locations due to an elevated measurement of 33.4 NTU at location S3A-N (15:27). No exceedances were measured in the S3-M locations and the round was completed at 16:20.

16:20 Hickey ends dredging and continues cleanup, maintenance, etc.

17:00 End of day. Hickey off site.

18:15 Anchor off site

Tim Stone

Resident Engineer

John Verduin

Project Engineer

Table 1 - Terminal 4 Removal Action Dredging Log Summary

Date	Scow	Sediment Wt in Tons (1)		Dredge Volume in CY (2)		Lash Barge Water in Gal (3)		Total Work Hours		Actual Dredge Hours		Daily Dredging Production Rate in cy/hr		Area Dredged
		Day	Total	Day	Total	Day	Total	Day	Total	Day	Total	Dredge Hours	Total Hrs	
12-Aug-08	Chetco	391	391	277	277	0	0	10.0	10.0	2.3	2.3	123	28	414 Square
13-Aug-08	Chetco	1,144	1,535	811	1,088	10,724	10,724	12.5	22.5	6.8	9.0	120	65	Slip 3 Square
14-Aug-08	Chetco	360	1,895	255	1,343	5,360	16,084	9.0	31.5	2.5	11.5	102	28	Slip 3 Square
18-Aug-08	Umpqua	849	2,744	602	1,945	10,724	26,808	16.0	47.5	6.8	18.3	89	38	Berth 411 Sta 12-24
19-Aug-08	Umpqua	984	3,728	698	2,643		26,808							
	Reedsport	565	4,293	372	3,015	5,362	32,170	16.0	63.5	9.2	27.4	117	67	Berth 411 Sta 10-40 outside; Sta 12-18 inside
20-Aug-08	Reedsport	760	5,053	539	3,554	26,811	58,981	16.0	79.5	12.3	39.7	44	34	Cell 1, 2, 3, 4, 5
21-Aug-08	Reedsport	624	5,677	442	3,996									
	Chetco	442	6,119	395	4,391	18,500	77,481	16.0	95.5	10.3	49.9	82	52	Cells 2, 3, 5, 6, and 9--grade pass
22-Aug-08	Chetco	1,270	7,389	875	5,266	16,087	93,568	16.0	111.5	13.0	62.9	98	79	Cells 7, 8, 9, 10
23-Aug-08	Chetco	675	8,064	465	5,731	32,710	126,278	16.0	127.5	10.8	73.7	125	84	Cells 1, 6, 10, 11 and side slopes
24-Aug-08	Umpqua	411	8,475	283	6,014	15,638	141,916	12.0	139.5	5.3	78.9	142	62	Cells 4, 2, and 3

Notes

(1) Estimated from barge displacement

(2) Estimated assuming 1.41 tons/cy and barge displacement tonnage

(3) Estimated by stick

Running gallons effluent per cubic yard dredged	23.6	11.7%
Running production rate (cy/total work hours)	43	
Running production rate (cy/actual dredge hours)	76	
Running efficiency (dredge hours/total work hours)	57%	
Percent of B411 "Plus" net line volume removed	127%	
Percent of B410 net line volume removed		



PROJECT T4 Removal Action-Phase 1 Dredging and Capping CONTRACT NO. 820027/2008D013
 CONTRACTOR Hickey Marine Inc. SUPERINTENDENT Darrell Jamison
 DAY OF WEEK & DATE: Sun., Aug 24, 2008 REPORT NO. 10
 WEATHER Sunny TEMPERATURE L 59 H 85

NUMBER/CLASS OF CONTRACTOR'S PERSONNEL:	MAJOR EQUIPMENT ON JOB (Size/capacity and hours):
Hickey Dredge Crew: Superintendent Crane operator 3 Deck hands	Crane/Derrick with 2 Barge/Scow

CHRONOLOGICAL ACCOUNT OF DAY'S WORK:

(06:00 – 21:00) Contractor's working hours while dredging at berth 411.

NOTE: End of Saturday's (8-23-8) dredging operations, the lash barge has 126,278 gal of waste water in it.

(06:00) Barge Chetco #2 is completely loaded and switched out with empty barge Umpqua #2 (5th barge total). Freeboard Umpqua is about 18" below 5. HME crews had to remove and replace silt curtain during barge transition.

(07:00) Crew switching buckets for first time, from cable bucket to conventional bucket and also re-painting cable markings for in-water elevations while dredging. Crew securing tarps along side of Umpqua barge. Anchor boat crew on site taking water quality control tests during dredging operations.

(08:40) Crane with conventional bucket began dredging (cell 4)
 FM 1200, 40'-60' from face of dock
 Tideboard: +2' CRD
 Oil water boom in water at head of slip surrounding both crane derrick and barges. Silt curtain in water about 100' inside slip 3 from mouth of slip,

(09:00) Crane continues to dredge using conventional bucket dredging (cell 4)
 FM 1220, 30'-50' from face of dock

(10:40) Crane continues to dredge with conventional bucket
 FM 1215-1220, 15'-20' from face of dock
 Tide board: 2.2' CRD
 HME crews in Tyvek suits continue to discharge waste water into lash barge.

(11:00) Crane spuds lifted, moving away from head of slip 3
 FM 1230-1240
 Crane idle for 15 min. while HME reviews their current hydro survey data

(11:25) Crane resumed dredging with conventional bucket
 FM 1230, 20' to 40' from face of dock
 Note that most buckets taken with conventional bucket are full of sediment. Crane operator taking extra measures to minimize turbidity by slowing bucket while coming up through water column and placing bucket into barge as soon as



PROJECT T4 Removal Action-Phase 1 Dredging and Capping CONTRACT NO. 820027/2008D013
 CONTRACTOR Hickey Marine Inc. SUPERINTENDENT Darrell Jamison
 DAY OF WEEK & DATE: Sun., Aug 24, 2008 REPORT NO. 10
 WEATHER Sunny TEMPERATURE L 59 H 85

possible when reaching surface.

(11:45) Crane continues to dredge with conventional bucket
 FM 1225, 20' – 40' from face of dock

(12:00) Crane continues to dredge with conventional bucket (cell 4)
 FM 1220-1230, 20'-60' from face of dock
 Tide board: 3.0' CRD

(12:10) Crane on standby for 15min
 (12:25) Crane continued dredging operations using conventional bucket (cell 2)
 FM 1250, 10'-15' from face of dock

(13:00) Crane continues to dredge using conventional bucket
 FM: 1240, 5'-10' from face of dock
 Bucket when dredging next to face of dock has some rip rap inside bucket and loaded into Umpqua #2
 Tideboard: 3.0

(13:10) Crane spuds lifted, moved away from head of slip 3
 FM: 1300 -1315, 15'-20' from face of dock
 Tide: +3.0 CRD

(14:00) Crane continues to dredge using conventional bucket
 FM 1320

(15:40) Crane continues to dredge using conventional bucket
 FM 1330-1340, 50'-60' from face of dock
 Tide: +3.0 CRD

(16:00) Crane continues to dredge using conventional bucket loading Umpqua barge #2
 FM 1350

(16:40) Crane operations stopped for the day. HME no longer having any dredging operations during the night shift
 Crew cleaned work area, secured crane derrick and barges inside slip 3 then left site.

TESTING LABORATORY ON SITE: _____ HRS: _____
 TESTS PERFORMED: _____

PHONE LOG:

SITE PHOTOS/VIDEOS TAKEN: _____ FORCE ACCOUNT WORK/ CHANGES ENCOUNTERED: _____



DAILY DIARY

PROJECT T4 Removal Action-Phase 1 Dredging and Capping CONTRACT NO. 820027/2008D013

CONTRACTOR Hickey Marine Inc. SUPERINTENDENT Darrell Jamison

DAY OF WEEK & DATE: Sun., Aug 24, 2008 REPORT NO. 10

WEATHER Sunny TEMPERATURE L 59 H 85

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INSPECTOR Philipp G. Bales HRS _____ DATE 8-24-8
(signature on hardcopy)

DAILY REPORT OF OPERATIONS:

CONTRACT NO:

TO: P.O.P.		CONTRACTOR: HME		DATE(S): 8/24/08	REPORT NO: 10	
				CONTRACT DAY: 12		
OBJECT AND BAR	NAME: Terminal 4 Removal Action			AUTHORIZED DIMENSIONS: 120 x 260	WIDTH: 50	DEPTH: -42.22 - 51.22
	LOCATION: (include station no.) CELLS #4, 2, 3			OVERDEPTH: 1		
DREDGE	NAME & TYPE: SEA HORSE DREVO		SIZE: 135 TON	DIPPER OR BUCKET: 20 CY. CAP.		
	HORSEPOWER OF: 900					
	NUMBER OF CREW MEMBERS			WORK SCHEDULE		
	Dredge: 6	Shore: 1	Other: 1	Total: 7	Shifts per day: 1	Days per week: 7
CHANNEL CONDITION	AVERAGE BEFORE DREDGING		AFTER DREDGING		MINIMUM	AFTER DREDGING
CHARACTER OF MATERIAL AND PERCENTAGE	GRAVEL		MUD 38	STONE	DISTRIBUTION OF TIME	
	SAND 20	CLAY		HARDPAN	EFFECTIVE WORKING TIME (chargeable to cost of work)	HOURS
	SILT 40	OTHERS 2				MIN
WORK PERFORMED				PUMPING OR DREDGING		5
ITEM			UNIT	QTY	NON-EFFECTIVE WORKING TIME	
AVERAGE WIDTH OF CUT			FEET	60		
TOTAL ADVANCE THIS PERIOD			FEET	150	HANDLING ANCHOR LINES	
TOTAL ADVANCE PREVIOUS TO THIS PERIOD			FEET	1075	WAITING FOR SCOWS	
TOTAL ADVANCE TO DATE			FEET	1225	TO AND FROM WARF OR ANCHORAGE	
WATER PUMPED THIS PERIOD			GALLONS	15,638	CHANGING LOCATION OF PLANT ON JOB 45	
WATER PUMPED PREVIOUS TO THIS PERIOD			GALLONS	126,278	LOSS DUE TO OPPOSING NATURAL ELEM.	
TOTAL WATER PUMPED TO DATE			GALLONS	141,916	LOSS DUE TO PASSING VESSELS	
AVERAGE DREDGED PER PUMP HOUR, GROSS			CU. YD	54	SHORE LINE AND SHORE WORK Set up 15	
SCOWS LOADED			NUMBER		MINOR OPER. REPAIRS (explain below) 1 30	
AVERAGE LOAD PER SCOW			CU. YD		WAITING FOR ATTENDANT PLANT	
CUBIC YARDS REMOVED				PREPARATION AND MAKING UP TOW		1 45
AMOUNT DREDGED THIS PERIOD:				TRANSFERRING PLAN BETWEEN WORKS		
(1) GROSS (computed amount) 283			LAY TIME OFF SHIRT AND SATURDAYS			
(2) CREDITED (pay place)			SUNDAYS AND HOLIDAYS — SURVEY 1 15			
AMOUNT PREVIOUSLY REPORTED:				SAFETY MEETING 15		
(1) GROSS (computed amount) 5732			WATER PUMPING			
(2) CREDITED (pay place)			TOTAL NON-EFFECTIVE WORKING TIME 6 45			
AMOUNT DREDGED TO DATE:				TOTAL EFFECTIVE AND NON-EFFECTIVE TIME (chargeable to cost of work) 12 00		
(1) GROSS (computed amount) 6015						
(2) CREDITED (pay place)						
ATTENDANT PLANT			LOST TIME (chargeable to cost of work)			
ITEM	NAME OR NUMBER		HOURS		MAJOR REPAIRS AND ALTERATIONS:	
TUG	HUSKY		12			
MATERIAL BARGE	UMPERA		12			
MATERIAL BARGE	CHETCO		1			
CREW / SURVEY	Pinky		12		CESSATION:	
TUG	DEAN		12		MISCELLANEOUS: Secure Turbidity Boom 30	
Has anything developed which might lead to a change order or claim: 30 minutes 2 MEN SECURE Turbidity Boom					TOTAL LOST TIME:	
					TOTAL TIME IN PERIOD: 30	

ALL WORK PERFORMED DURING THIS PERIOD COMPIES WITH THE CONTRACT SPECIFICATIONS AND DRAWINGS:

TITLE:	SIGNATURE:
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HICKEY MARINE ENTERPRISES

6801 NW Old Lower River Road
Vancouver, WA 98660
(360) 695-4553 (503) 284-1140

M T W T H F S

Job Name Terminal 4 Action Removal Date 8/24/08

Job No. 2428 Weather CLEAR

Equipment: Sea Hawk Sea Vulture Sea Lion Viking 966 Loader Chetco

Barge 174 Barge 34 BK5 Nova Barge 47 Barge Harvey A

Manlift Other SEA HORSE, Umpqua, Husky, LASH BARGE

Equipment Safety Checks Performed? Yes / No

Personal Protective Equipment Safety Checks Performed? Yes / No

Work performed today

06:00 - 06:15	WARM UP - SAFETY MEETING
06:15 - 06:45	SWAP BARGES - SHIP LOADED CHETCO - SPOT MT UMPQUA
06:45 - 08:00	SURVEY, CLOSE BOOM, RIG TO DIGGING BUCKET AND PAINT NEW MARKS
08:00 - 08:30	SPOT TO DREDGE CELL #4
08:30 - 08:45	SET UP TO DREDGE
08:45 - 12:00	LOAD UMPQUA #5 FINISH CELL 4
12:00 - 12:15	MOVE DREDGE TO DIG ALONG PILE LINE
12:15 - 16:30	RESUME DREDGING END STATION (30) PILE LINE
16:30 - 18:00	PUMP - SERVICE - FUEL GRABSE FINISH SECURE

Extra work or delays (authorized by)

Sign



T-4/ The Dalles Offload Site

Daily Inspection Checklist

Date 8/24/08

1) Safety Meeting:

Agenda: NEW PERFORMANCE STANDARDS with HO Bucket,
Inventory for supplies and PPE, LADDER SAFETY

Attendees:

[Signature]
[Signature]
[Signature]

[Signature]
[Signature]
[Signature]

Derrick SEAHORSE

Derrick Sea Vulture

2) Crane Inspection:

"Attach Operator Log/Inspection Log"

3) Plant Inspection

Deficiencies:

Date	Date Corrected
<u>8/21</u>	_____
<u>8/23</u>	_____
<u>8/24</u>	<u>8/24</u>
<u>8/24</u>	<u>8/24</u>
<u>8/24</u>	<u>8/24</u>

<u>Burnt Ballasts in Basement</u>	<u>8/21</u>	_____
<u>MOVE DECK BLOCKS</u>	<u>8/23</u>	_____
<u>NO DRINKING WATER</u>	<u>8/24</u>	<u>8/24</u>
<u>CLEAN DECK, BREAKROOM</u>	<u>8/24</u>	<u>8/24</u>
<u>DISPOSE OF ALL TRASH</u>	<u>8/24</u>	<u>8/24</u>

4) Staff Gage Check

Time	Tideboard	Tide Track
<u>06:30</u>	<u>2.7</u>	<u>2.72</u>
<u>08:00</u>	<u>2.48</u>	<u>2.50</u>
<u>15:15</u>	<u>2.8</u>	<u>2.82</u>

5) Main Fuel Tank Levels

Port	Starboard
Height <u>59"</u>	<u>NA</u>
Gallons <u>5900</u>	_____
Consumption per day <u>150</u>	_____

6) Survey Boat



Hull Depth

.7

Position Verification

Boat

Fuel



Sound Velocity

2004889

X 7620401.06

Y 713422.51

Port

Full

Starboard

Full

Control Point

#20

X 7620400.37

Y 713422.93

7) Dredge Material Weight



108

pounds per cubic foot

8) Dredge Boom Tip Verification

X 7620399.15

Y 713422.19

#20

Control Point

X 7620400.37

Y 713422.93

9) Containment and Truck Load Area

Clean



Dust Suppression



Fabric



Spill Plates



10) Lash Barge:

Keep within 2 ft of trim

Draft

PB 8.1

SB 8.6

Gallons Pumped Today 60 Tons = 15,638

PS 7.9

SS 8.9

Tank Sounding

#1 25"

#3 20"

Total Gallons

141,916

#2 26"

#4 25"

11) Baker Tank Level

#1 _____

#2 _____

12) De con Stations

Clean



Inventory



RESTOCKED

13) Dust Suppression

Location NA

Time _____

Reading _____

Background

Location _____

Time _____

Reading _____

NA

Location _____

Time _____

Reading _____

Location _____

Time _____

Reading _____

Location _____

Time _____

Reading _____

14) Material Barge

UMPRQA

Draft

PB 3.5

SB 3.7

MT Tons 921

Total Tons

MT

PS 3.5

SS 3.7

411

Total Yards

Draft

PB 5.2

SB 5.3

LD Tons 1332

283

LD

PS 4.6

SS 5.1



DAILY QUALITY CONTROL REPORT

Daily Report No. 10

Date: 8/24/08

Contract No. _____

Project Title: TERMINAL 4 Removal Action

Location: BERTH 411

Weather: CLOUDY, LT. RAIN

Temperature: 65 Min. 70 Max

1. Contractor/Subcontractors and Area of Responsibility:

NUMBER	TRADE	HOURS	EMPLOYER	LOCATION/DESCRIPTION OF WORK
<u>6</u>	<u>DREDGE</u>	<u>12</u>	<u>HME</u>	<u>BERTH 411 / DREDGE</u>
<u>1</u>	<u>SURVEY</u>	<u>8</u>	<u>ETAC</u>	<u>BERTH 411 / SURVEY</u>

2. Operating Plant or Equipment. (Not Hand Tools)

Plant/Equipment	Date of Arrival/Departure	Date of Safety Check	Hours Used	Hours Idle	Hours Repair
<u>SEA HORSE</u>	<u>8/18</u>	<u>8/24</u>	<u>5¹⁵</u>	<u>5¹⁵</u>	<u>1³⁰</u>
<u>CHETCO</u>	<u>8/21</u> <u>8/24</u>	<u>8/24</u>	<u>1</u>		
<u>UMPQUA</u>	<u>8/24</u>	<u>8/24</u>	<u>11</u>		
<u>HUSKY</u>	<u>8/18</u>	<u>8/24</u>	<u>2</u>	<u>10</u>	
<u>PIGGY</u>	<u>8/18</u>	<u>8/24</u>	<u>12</u>		
<u>LASH BARGE</u>	<u>8/18</u>	<u>8/24</u>	<u>12</u>		

1. Work performed today: (Indicate location and description of work performed by prime and/or subcontractors by letter in table above).

SHIPPED LOADED CHETCO (1,735 cu yds) BEGAN LOADING UMPQUA.
CHANGED TO ATLAS 10yo HD CRANESHELL AND DREDGED CELL #4 TO GRADE

ALONG WITH CELLS 2 AND 3. PUMPED 15,638 GALLONS OF WATER TODAY.
AVERAGING 22-23 GALLONS PER YD, MAY NOT NEED TO PUMP WATER INTO THE
CITY STORM DRAINS DURING FIRST SHUT DOWN.

2. Results of control activities: (Indicate whether P – Preparatory, I – Initial, or F – Follow-up phase. When a P or I meeting is conducted, complete attachment I-A or I-B, respectively. When network analysis system is used, identify work by use of I-J numbers.

1. CHANGED TO DIGGING BUCKET AND RE-MARKED MAINLINE, EXPLAINED TO PHILLIP BALES OUR PAINT MARKS AND METHODS WHEN UTILIZING THE HD CLAMSHELL BUCKET
2. PERFORMED PROGRESS SURVEY, TARGETED AREAS NOT AT GRADE FOR OPERATION TO LOCATE.

3. Offsite surveillance activities, including action taken:

1. LAYED OUT TARGET PLAN TO DOWNLOAD TO DREDGE COMPUTER TO DIG HIGH SPOTS.

4. Job Safety: (Report violations; corrective instructions given; corrective actions taken).

1. TRANSPORTED ALL GARBAGE GENERATED ON DREDGE TO HME TO BE DISPOSED.
2. INSPECTED ALL RUNNING LINES AND DECK GEAR ON DREDGE
3. INSPECT ALL LADDERS (REPAIR OR DISPOSE IF NEED BE)
4. COMMUNICATE WITH OPERATOR IF IN ROTATION PATH.

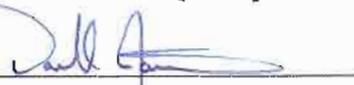
5. Remarks: (Instructions received or given. Conflict(s) in plans and/or specifications).

1. WQ TEST. REPORTS WERE PASSING WITHOUT NEEDING TO MOVE TO THE COMPLIANCE POINTS.
2. SHOULD COMPLETE ALL AND CLEAN-UP THAT WE HAVE UNCOVERED.

Contractor's Verification: On behalf of the Contractor, I certify this report is complete and correct, and all materials and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as noted above.

Authorized CQC Rep at Site

Date



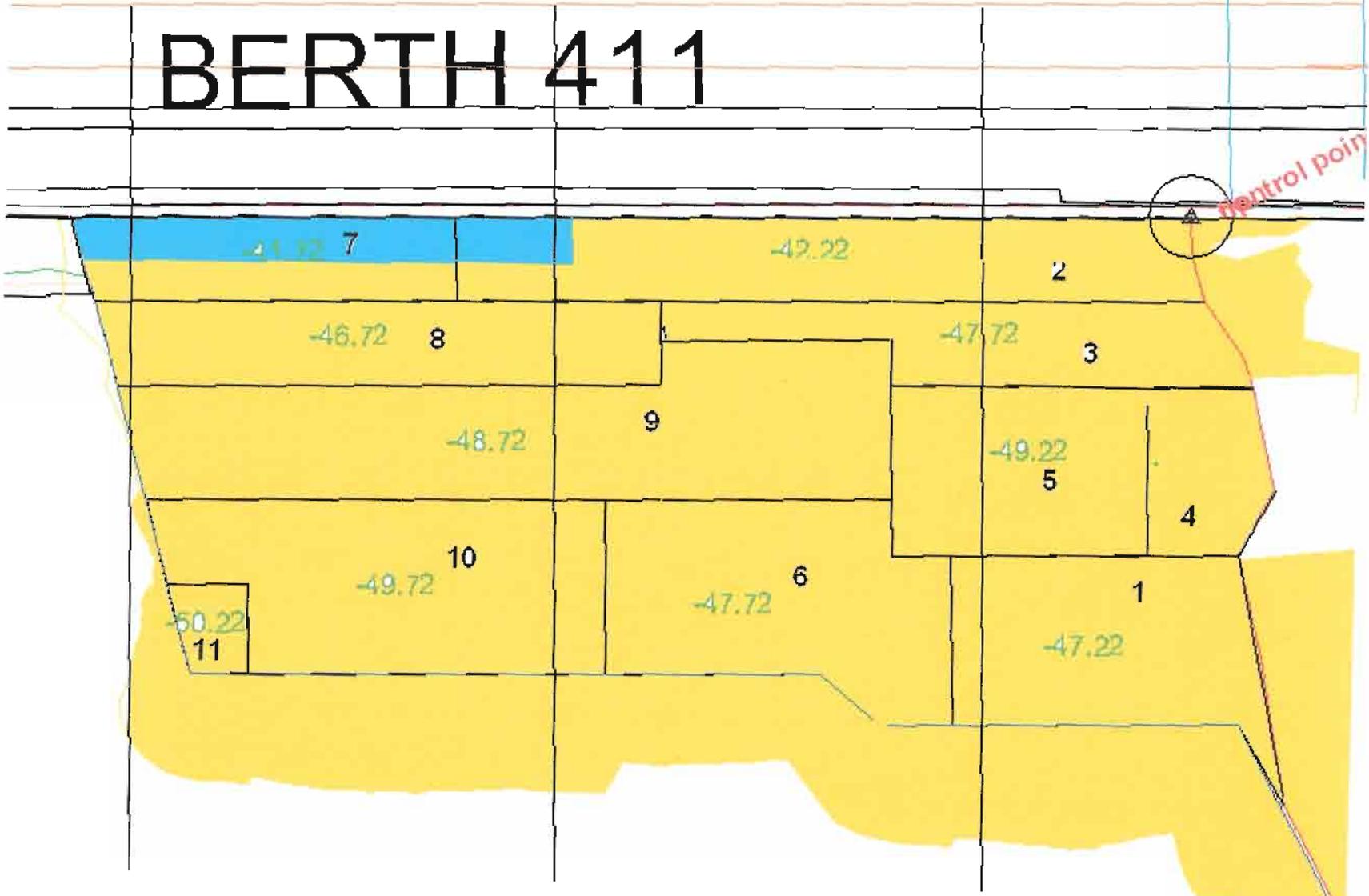
8/25/08

Dredge Progress as of 8/24/08

yellow = grade

lt. blue = dredged but not at grade(hard bottom)

BERTH 411



Dredge T

7620393.79	713345.41	0.00	108.54	6.50	17.00	39074
7620395.28	713347.31	0.00	107.76	6.50	17.00	38793
7620398.44	713349.76	0.00	106.34	6.50	17.00	38510
7620399.78	713354.54	0.00	104.69	6.50	17.00	38236
7620402.29	713357.12	0.00	103.18	6.50	17.00	37810
7620403.53	713360.89	0.00	101.91	6.50	17.00	37511
7620404.04	713364.73	0.00	100.54	6.50	17.00	37234
7620402.54	713369.56	0.00	98.48	6.50	17.00	36971
7620402.58	713380.10	0.00	94.52	6.50	17.00	36772
7620403.12	713374.43	0.00	96.56	6.50	17.00	36579
7620403.10	713379.05	0.00	94.36	6.50	17.00	36357
7620407.84	713342.19	0.00	107.18	6.50	17.00	33679
7620412.08	713345.48	0.00	105.97	6.50	17.00	33357
7620414.83	713350.42	0.00	104.12	6.50	17.00	32948
7620418.21	713355.41	0.00	102.26	6.50	17.00	32664
7620417.58	713360.12	0.00	101.11	6.50	17.00	32344
7620416.59	713366.75	0.00	98.85	6.50	17.00	32114
7620416.59	713372.30	0.00	97.08	6.50	17.00	31967
7620416.76	713377.17	0.00	95.49	6.50	17.00	31621
7620389.73	713382.22	0.00	93.11	6.50	17.00	41095
7620389.57	713377.76	0.00	93.75	6.50	17.00	41343
7620389.17	713373.35	0.00	95.42	6.50	17.00	41559
7620388.90	713369.79	0.00	96.79	6.50	17.00	41801
7620387.96	713364.62	0.00	98.22	6.50	17.00	42042
7620387.37	713360.93	0.00	99.41	6.50	17.00	42268
7620386.81	713356.85	0.00	101.00	6.50	17.00	42490
7620386.25	713352.83	0.00	102.81	6.50	17.00	42713
7620385.44	713348.58	0.00	103.60	6.50	17.00	42944
7620385.30	713346.02	0.00	104.40	6.50	17.00	43404
7620388.50	713401.95	0.00	93.45	6.50	17.00	45003
7620372.91	713405.04	0.00	92.79	6.50	17.00	45360
7620372.72	713401.60	0.00	94.14	6.50	17.00	45510
7620393.89	713418.95	0.00	88.02	6.50	17.00	45880
7620392.22	713413.56	0.00	90.11	6.50	17.00	46232
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7620313.67	713413.50	0.00	92.24	6.50	17.00	49864
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7620309.30	713431.50	0.00	84.48	6.50	17.00	53292
7620310.46	713426.91	0.00	87.09	6.50	17.00	53522

Dredge T

7620393.79	713345.41	0.00	108.54	6.50	17.00	39074
7620395.28	713347.31	0.00	107.76	6.50	17.00	38793
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7620403.53	713360.89	0.00	101.91	6.50	17.00	37511
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7620417.58	713360.12	0.00	101.11	6.50	17.00	32344
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7620385.44	713348.58	0.00	103.60	6.50	17.00	42944
7620385.30	713346.02	0.00	104.40	6.50	17.00	43404
7620388.50	713401.95	0.00	93.45	6.50	17.00	45003
7620372.91	713405.04	0.00	92.79	6.50	17.00	45360
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7620393.59	713413.64	0.00	90.32	6.50	17.00	46261
7620377.01	713420.07	0.00	87.94	6.50	17.00	46669
7620376.71	713415.03	0.00	89.95	6.50	17.00	47017
7620359.90	713422.98	0.00	86.50	6.50	17.00	47096
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7620329.70	713411.21	0.00	92.91	6.50	17.00	49015
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7620327.89	713424.33	0.00	88.20	6.50	17.00	52491
7620309.30	713431.50	0.00	84.48	6.50	17.00	53292
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713498

7620147

7620247

7620347

7620447

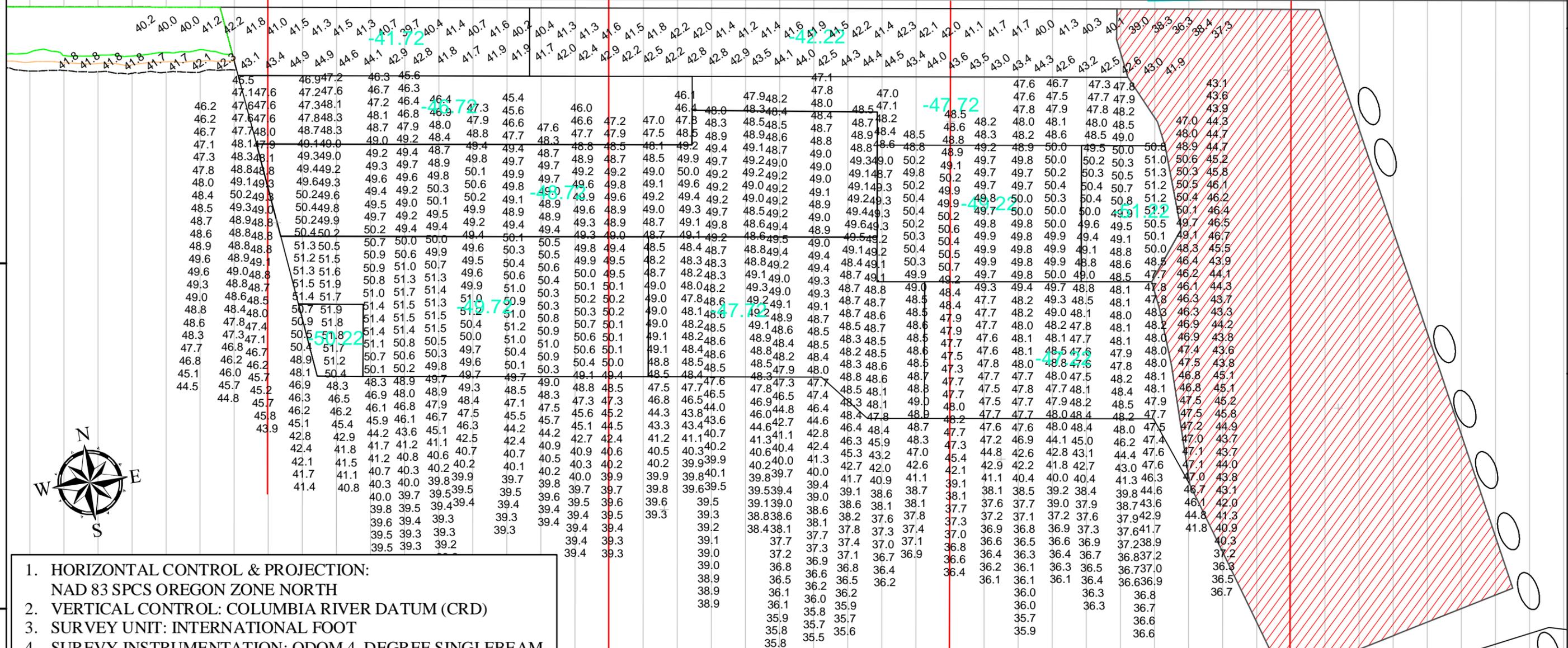
TERMINAL 4

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30 BERTH 411

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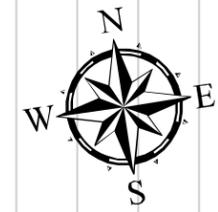


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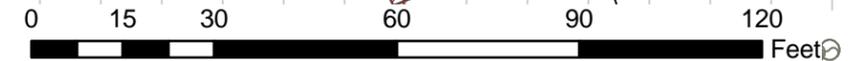
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1. HORIZONTAL CONTROL & PROJECTION:
NAD 83 SPCS OREGON ZONE NORTH
2. VERTICAL CONTROL: COLUMBIA RIVER DATUM (CRD)
3. SURVEY UNIT: INTERNATIONAL FOOT
4. SUREVY INSTRUMENTATION: ODOM 4 -DEGREE SINGLEBEAM
TRANSDUCER & HYDROTRAC ECHOSOUNDER
5. HORIZONTAL CONTROL METHOD: DGPS
6. PRIMARY POSITIONING SYSTEM: CSI R110

1 inch = 30 feet

NOTE: SOUNDINGS ARE IN FEET RELATIVE TO CRD




**eTrac
Engineering, LLC**
www.etracengineering.com
705 Fawn Ave
San Anselmo, CA 94960



**HICKEY MARINE
ENTERPRISES, INC**
6801 NW Old Lower River Rd
Vancouver, WA 98660



PORT OF PORTLAND
121 NW EVERETT STREET
PORTLAND, OREGON 97209

TERMINAL 4 - SLIP 3

REMOVAL ACTION - PHASE 1 - DREDGING & CAPPING
DAILY HYDROGRAPHIC SURVEY DATA

SURVEY DATE: 08/24/2008 SURVEYOR: JDM

ATTACHMENT B
DAILY CONSTRUCTION MONITORING REPORTS FOR WHEELER BAY



Ash Creek Associates, Inc.

Environmental and Geotechnical Consultants

9615 SW Allen Boulevard, Suite 106
 Portland, Oregon 97005-4814
 www.washcreekassociates.com
 Portland (503) 924-4704
 Vancouver (360) 567-3977
 Fax (503) 924-4707

PROJECT NUMBER 1066-04
 FIELD REPORT NUMBER 10
 PAGE 1 OF 2
 DATE 8/18/2008

PROJECT	Wheeler Bay Stabilization	ARRIVAL TIME	655
LOCATION	Terminal 4	DEPARTURE TIME	1730
CLIENT	Port of Portland	WEATHER	rain, t-storms 70F; Winds: west 10mph
PURPOSE OF OBSERVATIONS	Field Oversight		
ASH CREEK REPRESENTATIVE	D. Urquhart	ASH CREEK PROJECT MANAGER	H. Clough
SUBCONTRACTOR	Envirocon	SUBCONTRACTOR REP.	George Lotze

Our firm's professionals are represented on site solely to observe operations of the subcontractor identified, to form opinions about the adequacy of those operations, and to report those opinions to our client. The presence and activities of our field representative do not relieve any subcontractor from its obligation to meet contractual requirements. The subcontractor retains sole responsibility for site safety and the methods, operations, and sequence of construction. Unless signed by the Ash Creek Associates Project Manager, this report is preliminary. A preliminary report is provided solely as evidence that field observation was performed. Observations and/or conclusions and/or recommendations conveyed in the final report may vary from and shall take precedence over those included in preliminary report.

DAILY INSPECTION LOG:

Construction Element	MEETS INSPECTION CRITERIA			SEE ENVIROCON REPORT	SEE BELOW
	YES	NO	NA		
Site Preparation					
Erosion Control Installation			X		
Clearing and Grubbing	X			X	X
Load Out Excess Cut			X		
Debris Clear of Excess Soil			X		
Shoreline Stabilization					
Sub-grade Cut and Fill	X			X	
Demarcation Layer			X		
Select Fill			X		
Armor Type 3			X		
Material					
Physical/Chemical Testing of Import Material			X		
Visual Inspection			X		
In-place Moisture Density Testing			X		
Compaction Testing			X		
Grading Inspection					
Final Grade 3H:1V in North Portion of Slope			X		
Final Grade 2H:1V in Southern Portion of Slope			X		
Compaction Testing			X		
Vegetation and Groundcover					
Topsoil			X		
Coir Fabric			X		
Shrubs and Plantings			X		
Mulch			X		
Hydroseeding			X		
Habitat Cover			X		
Jute Matting			X		
Habitat Logs and LWD			X		
COMMENTS:					
Demolished fireboat pier and stockpiled. See attached narrative.					



Ash Creek Associates, Inc.
Environmental and Geotechnical Consultants

9615 SW Allen Boulevard, Suite 106
Portland, Oregon 97005-4814
www.washcreekassociates.com
Portland (503) 924-4704
Vancouver (360) 567-3977
Fax (503) 924-4707

PROJECT NUMBER 1066-04
FIELD REPORT NUMBER 10
PAGE 2 OF 2
DATE 8/18/2008

DAILY INSPECTION LOG CONT'D:					
Construction Element	MEETS INSPECTION CRITERIA			SEE ENVIROCON REPORT	SEE BELOW
	YES	NO	NA		
Temporary Erosion and Sediment Control (TESC)					
TESC Measures	X				
SW Runoff		X			
Surface Water Quality (Tier I: visible sheen and/or turbidity)		X		X	X
Other TESC Measures: _____			X		
Site Conditions					
Equipment	X				
Signage	X				
Restricted Area Fence	X				
Stockpile	X				
Other Site Conditions: _____			X		
Environmental Protection Measures					
Noise Prevention	X				
Dust Prevention	X				X
Diesel Exhaust	X				
Prevention of Off-site Tracking of Sediment	X				
Fuel Storage and Fuel Transfers			X		
Fertilizer Application			X		
Other Environmental Protection Measures: _____			X		
Health and Safety					
	YES	NO	SEE ENVIROCON REPORT	SEE BELOW	
Safety Tailgate Meeting	X				
Accidents		X			
Illnesses		X			
Near-miss Incidents	X		X	X	
Corrective Action		X			
Other Safety and Health Issues: _____		X			
COMMENTS:					
Rainfall in the morning, ground surface wet and no dust problems. Rainfall did not produce runoff.					
Near miss occurred when a lightning strike hit about 150' off of job site over water. All workers "felt" the strike. Move to vehicles and follow H&S protocol for lightning.					

BY

REVIEWED BY

D. Urquhart
ASH CREEK ASSOCIATES REPRESENTATIVE

H. Clough
ASH CREEK ASSOCIATES PROJECT MANAGER

DAILY CONSTRUCTION & CQC REPORT

T4 Wheeler Bay Stabilization - PROJECT #1473800



Weather:			Report Information:		
Max Temp: <u> 75 </u>	Site Conditions: <u> molst </u>		Date: <u> 8/18/2008 </u>		
Min Temp: <u> 60 </u>	Winds: <u> </u>		Week Day: <u> Monday </u>		
	Precipitation: <u> light </u>		Shift: <u> 7-5:30 </u>		

Report Prepared By:										
Personnel	WBS Task	Hours	Start	Finish	Equip	No.	Run	Stdby	WBS Task Code	Comments
KEVIN GEORGE	302,803	5,5			PC300 EXC.	Modern	5,5		302,803	Cu/Fill, Remove bridge
WES JENSEN	801,803	6,4			HM300 ARTIC	Modern	0			
GEORGE LOTZE	2201	12			BOMAG ROLLER	United	0			
RICK MARTIN	302,803	5,5			JD650 DOZER	United	5		302	Cu/Fill
MIKE MCCOY	302,803	5,5			PC200 EXC.	3366	5		803	Remove bridge
MATTHEW PATCHING	801,803	6,4			WATER TRUCK	United	3		302	Dust control
SKIP SIMPSON					JD310 BACKHOE	1196	6		801	Relocate utilities, trenching
SUZANNE STARKEY										

DESCRIPTION OF WORK (detail below):
 Remove bridge, Cut and fill work, Excavate trenches for utility relocate,
 Remove and replace silt fence to allow machine access for bridge removal. In the process of removing the ramp section, two of the support pilings broke off out in the water, causing a minor sheen to appear. We installed an oil boom and used diapers to clean up the sheen.

DOWNTIME OR DELAYS:
 Shut down for an hour or so due to lightning striking in our work zone. Everyone got into the pick-ups to let the storm pass.

MATERIAL PLACED:								
MATERIAL	STA (START)		STA (STOP)		QTY.	QTY. TO DATE	APPROVED SOURCE	TECHNICAL SPECIFICATION NO.
	STA	OFFSET	STA	OFFSET				
Damarcation Layer								Addendum No. 1 312000-4
Select Fill								312000-3 (2.3)
Armor Type 3								312000-3 (2.5)
Habitat Cover								312000-3 (2.6)
Topsoil								329119-2 (2.5)
Coir Fabric								329119-2 (2.2)
Jute Matting								329119-2 (2.1)
Mulch								329300-4 (2.2)
Habitat Logs								353200-3 (3.3)
Shrubs & Plantings								329300
Hydroseeding								329219

COMMENTS (Material Delivered-Removed/Qty.):

DAILY INSPECTION LOG:				
TYPE	TECHNICAL SPECIFICATION NO.	LOCATION / NATURE OF DEFECT	CORRECTIVE ACTION TAKEN OR PROPOSED	COMMENTS
TESC				
Signage				
Restricted Area Fence				

SAFETY STATUS:	
Accidents (if any):	
Illnesses (if any):	
Near-miss Incidents (if any):	Lightning hit the ground in a close proxmity to several workers. Job was shut down until the danger had passed.
Corrective Action (if any):	
Other:	

Signature Verifying Above:

**Narrative: Removal of Fireboat Pier
August 18 and 19, 2008
Ash Creek Associates**

The Fire Boat Pier at Wheeler Bay consisted of a five-span, walkway structure extending from the top of bank out into Wheeler Bay (about 150 feet from top of bank). The first four spans were each about 20 feet. The walkway was constructed of concrete with a wooden railing. The final span (the "ramp") was about 70 feet and consisted of a wooden walkway pinned at the shore end to allow the walkway to pivot, rising and falling with changes in the river level. The dock had been long removed, so the river end of the ramp was simply supported by resting on a loop of cable. The walkway was supported at the top of bank and by five wooden pile bents with two piling per bent (numbered 1 through 5 from the shore outward). Bents 1 and 2 were located above elevation 10 feet. Bent 3 was near elevation 8 feet, and Bent 4 was near elevation 5 feet. Bent 5 was located in the water below elevation 0 feet. All piling and wood structures appeared to be pressure treated.

Span 1 (from the shore outward) had partially collapsed prior to beginning construction. It was removed during the week of August 11, 2008.

The remainder of the structure was removed on August 18, 2008 between 0745 and 1130. At the time of the work, the water was near elevation 2 to 4 feet.

Spans 2 through 4 and Bents 1 and 2 were demolished and removed using the large excavator. The piling for each bent were pulled using the large excavator.

To remove Span 5 (the ramp), Envirocon used both excavators reaching from the shore. No equipment entered the water. During setup, Envirocon determined that it could not remove the ramp without destabilizing Bents 3 and 4. The piling for these bents were removed.

After removal of Bent 4, the land side of Span 5 was resting on the ground (the water end continued to rest on the cable loop). Envirocon positioned the two excavators on either side of the ramp and attempted to remove it intact. They were able to pull the ramp back off of the support cable about 6 feet. However, as they pulled the ramp, it broke apart, fell, and caught the support cable in its descent. The force of this fall broke the two piling of Bent 5. The ramp fell at the water line, shoreward of a row of piling near elevation 0 feet, and the broken pilings from Bent 5 landed in the water several feet from the water line. The ramp and broken piling were immediately removed to the shore. After removal of the broken piling, a slight sheen and turbidity were visible in the water at the point of the ramp's fall. No sheen was observed at the location of Bent 5. An absorbent boom and absorbent pads were laid to contain the sheen.

The Port was immediately notified of the activities. Anchor was on-site shortly thereafter and took turbidity measurements.

On the afternoon of August 18, 2008, at low tide, absorbent pads were used to soak up observed pockets of sheen on the sand. No turbidity was observed.

At 0700 on August 19, 2008, no sheen or turbidity were observed at the location of the former Fireboat Pier.



PROJECT T4 RA PH-1: Wheeler Bay Stabilization CONTRACT NO. 820027/2008D001
 CONTRACTOR Ash Creek Associates, Inc./Envirocon SUPERINTENDENT George Lotze
 DAY OF WEEK & DATE: Mon., Aug 18, 2008 REPORT NO. 10
 WEATHER Morning Rain, partial clouds TEMPERATURE 63L 89H

<u>NUMBER/CLASS OF CONTRACTOR'S PERSONNEL:</u>	<u>MAJOR EQUIPMENT ON JOB (Size/capacity and hours):</u>
<u>Envirocon:</u> Rick Martin: Foreman/Surveyor Matt Patching: Operator Wes Jensen: Operator Kevin George: Operator	Kamatsu HM 30 (Off Road Dump Truck) Kamatsu PC 300 (Trac-hoe) International Water Truck (4000gal) Case 580L (Backhoe-Rental) Bomag BW177 DH-3 (Single Steel Roller- Rental) John Deere 650J (Small Dozer-Rental) Kamatsu PC 200 (Trac-hoe)

CHRONOLOGICAL ACCOUNT OF DAY'S WORK:

(07:00-17:30) Today's contractor's working hours at Wheeler Bay

(07:00) Contractor's on site safety meeting

(08:00) Contractor while working on cutting slope/bank at sta. 0+50, had lightning hit in close proximity of crew. Therefore, all crews idled for about an hour (ref. HASP) allowing the storm to pass before resuming work. Nobody was injured.

RFI 7: Contractor using both PC 200 & 300, removed existing fire pier's superstructure, including all bents supporting it. The contractor was instructed per RFI to only remove bents in work area and those that remained out of water. Unfortunately, the superstructure was bolted to the last bent and was also removed. Do to pilings being treated, woody debris fell into water and created a sheen. Port inspector (PGB) informed Ashcreek's on site inspector (Doug) to get oil water boom in the water immediately to contain sheen. Anchor was also informed and had their water quality control crew in a boat take chemical sample in vicinity of where the pilings were removed. Contractor had placed oil water boom around sheen and was able to remove it from the water. All fire pier woody debris that fell in the water was removed and stockpiled with the pilings. All woody debris will be hauled to Wasco county landfill. The concrete superstructure will be recycled at a local landfill.

Port locator on site marking existing utilities from sta. 0+00 to 2+50, so the contractor can relocate them.

Contractor using Case 580L with operator and laborer, excavated about 60' of new electrical trench when Port inspector (PGB) informed them that the drawings used identifying where the existing utilities are to be relocated was not the new revised drawing. Port inspector (PGB) gave them a copy of the revised drawing. Contractor backfill 60' of trench and after marking trench with revised drawing, spent remainder of the day excavating new trench. PC300 supporting trench crew at times when existing soil was to hard for Case 580L to penetrate ground. Crew potholed and located existing 4" electrical conduit next to R/R crossing. Electrical subcontractor scheduled to begin installing conduit and pull conductors sometime this week.

PC 300 continues to cut slope/bank from sta 0+00 to 2+50. JD 650 continues to process common x material from top of bank to elevation 12 between sta. 3+50 to 5+00, building 3:1 slope.

HM 30, BW 177DH on standby/idle most of the day.

Dust abatement, by applying water , is applied all day long by water truck, during PC300 excavation activities including all



PROJECT T4 RA PH-1: Wheeler Bay Stabilization CONTRACT NO. 820027/2008D001

CONTRACTOR Ash Creek Associates, Inc./Envirocon SUPERINTENDENT George Lotze

DAY OF WEEK & DATE: Mon., Aug 18, 2008 REPORT NO. 10

WEATHER Morning Rain, partial clouds TEMPERATURE 63L 89H

on-site dirt roadways. Port supplied a water meter for Envirocon when filling up water truck using Port owned fire hydrant.

TESTING LABORATORY ON SITE: _____ HRS: _____

TESTS PERFORMED: _____

PHONE LOG:

SITE PHOTOS/VIDEOS TAKEN:

FORCE ACCOUNT WORK/ CHANGES ENCOUNTERED:

INSPECTOR Philipp G. Bales HRS _____ DATE 8-18-8
(signature on hardcopy)



Ash Creek Associates, Inc.

Environmental and Geotechnical Consultants

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 Fax (503) 924-4707

PROJECT NUMBER 1066-04
 FIELD REPORT NUMBER 11
 PAGE 1 OF 2
 DATE 8/19/2008

PROJECT	Wheeler Bay Stabilization	ARRIVAL TIME	655
LOCATION	Terminal 4	DEPARTURE TIME	1735
CLIENT	Port of Portland	WEATHER	rain 70F; Winds: southwest 10 mph
PURPOSE OF OBSERVATIONS	Field Oversight		
ASH CREEK REPRESENTATIVE	D. Urquhart	ASH CREEK PROJECT MANAGER	H. Clough
SUBCONTRACTOR	Envirocon	SUBCONTRACTOR REP.	George Lotze

Our firm's professionals are represented on site solely to observe operations of the subcontractor identified, to form opinions about the adequacy of those operations, and to report those opinions to our client. The presence and activities of our field representative do not relieve any subcontractor from its obligation to meet contractual requirements. The subcontractor retains sole responsibility for site safety and the methods, operations, and sequence of construction. Unless signed by the Ash Creek Associates Project Manager, this report is preliminary. A preliminary report is provided solely as evidence that field observation was performed. Observations and/or conclusions and/or recommendations conveyed in the final report may vary from and shall take precedence over those included in preliminary report.

DAILY INSPECTION LOG:					
Construction Element	MEETS INSPECTION CRITERIA			SEE ENVIROCON REPORT	SEE BELOW
	YES	NO	NA		
Site Preparation					
Erosion Control Installation			X		
Clearing and Grubbing	X			X	X
Load Out Excess Cut	X			X	X
Debris Clear of Excess Soil			X		
Shoreline Stabilization					
Sub-grade Cut and Fill	X			X	X
Demarcation Layer			X		
Select Fill			X		
Armor Type 3			X		
Material					
Physical/Chemical Testing of Import Material			X		
Visual Inspection	X			X	X
In-place Moisture Density Testing			X		
Compaction Testing			X		
Grading Inspection					
Final Grade 3H:1V in North Portion of Slope			X		
Final Grade 2H:1V in Southern Portion of Slope			X		
Compaction Testing			X		
Vegetation and Groundcover					
Topsoil			X		
Coir Fabric			X		
Shrubs and Plantings			X		
Mulch			X		
Hydroseeding			X		
Habitat Cover			X		
Jute Matting			X		
Habitat Logs and LWD			X		
COMMENTS:					
Cleared small area at 0+00 to 0-10 top of bank.					
Cut at 0+00 to 0+70 from 15 to 30 NGVD and begin cut of toe between 0+00 to 1+50. Fill between 3+00 to 4+50.					
Off-loaded 2 loads of debris from pier demolition;					
12 anchor blocks delivered of good quality.					



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PROJECT NUMBER 1066-04
FIELD REPORT NUMBER 11
PAGE 2 OF 2
DATE 8/19/2008

DAILY INSPECTION LOG CONT'D:					
Construction Element	MEETS INSPECTION CRITERIA			SEE ENVIROCON REPORT	SEE BELOW
	YES	NO	NA		
Temporary Erosion and Sediment Control (TESC)					
TESC Measures	X				
SW Runoff			X		
Surface Water Quality (Tier I: visible sheen and/or turbidity)			X		
Other TESC Measures: _____			X		
Site Conditions					
Equipment	X				
Signage	X				
Restricted Area Fence	X				
Stockpile	X				
Other Site Conditions: _____			X		
Environmental Protection Measures					
Noise Prevention	X				
Dust Prevention	X				
Diesel Exhaust	X				
Prevention of Off-site Tracking of Sediment	X				
Fuel Storage and Fuel Transfers			X		
Fertilizer Application			X		
Other Environmental Protection Measures: _____			X		
Health and Safety					
	YES	NO	SEE ENVIROCON REPORT	SEE BELOW	
Safety Tailgate Meeting	X				
Accidents		X			
Illnesses		X			
Near-miss Incidents		X			
Corrective Action		X			
Other Safety and Health Issues: _____		X			
COMMENTS:					
Rainfall in the morning, ground surface wet and no dust problems. Rainfall did not produce runoff.					
Day's Activities:					
Cut and fill (see page 1), set slope stakes at 0+00 and 0+50, off-load debris (see page 1), clear and grub (see page 1), and dig trench for utility relocate.					

BY

REVIEWED BY

D. Urquhart
ASH CREEK ASSOCIATES REPRESENTATIVE

H. Clough
ASH CREEK ASSOCIATES PROJECT MANAGER

DAILY CONSTRUCTION & CQC REPORT

T4 Wheeler Bay Stabilization - PROJECT #1473800



Weather:			Report Information:		
Max Temp: <u> 80 </u>	Site Conditions: <u> moist </u>		Date: <u> 8/19/2008 </u>		
Min Temp: <u> 60 </u>	Winds: <u> </u>		Week Day: <u> Tues </u>		
	Precipitation: <u> light </u>		Shift: <u> 7-5:30 </u>		

Report Prepared By:

Personnel	WBS Task	Hours	Start	Finish	Equip	No.	Run	Stdby	WBS Task Code	Comments
KEVIN GEORGE	302	10	7:00	5:30	PC300 EXC.	Modern	10		302	Excavate for cut/fill
WES JENSEN	8001	10	7:00	5:30	HM300 ARTIC	Modern	5		302	Transport for cut/fill
GEORGE LOTZE	2201	12	7:00	7:30	BOMAG ROLLER	United	0			
RICK MARTIN	302	10	7:00	5:30	JD650 DOZER	United	5		302	Slope cut/fill
MIKE MCCOY	302	10	7:00	5:30	PC200 EXC.	3366	0			
MATTHEW PATCHING	8001	10	7:00	5:30	WATER TRUCK	United	2		301	Dust control
SKIP SIMPSON					JD310 BACKHOE	1196	10		8001	Trench for utility relocate
SUZANNE STARKEY										

DESCRIPTION OF WORK (detail below):

Excavate, load, transport, place and compact material for cut/fill process. Dust control as needed. Imported 12 ecology blocks for habitat tree anchors.
 Excavate trenches for utility relocate. Transport 2 loads of debris from the removal of the walk bridge taken down yesterday.
 Paul with Empire onsite for walk through for utility relocate.

DOWNTIME OR DELAYS:

MATERIAL PLACED:

MATERIAL	STA (START)		STA (STOP)		QTY.	QTY. TO DATE	APPROVED SOURCE	TECHNICAL SPECIFICATION NO.
	STA	OFFSET	STA	OFFSET				
Demarcation Layer								Addendum No. 1 312000-4
Select Fill								312000-3 (2.3)
Armor Type 3								312000-3 (2.5)
Habitat Cover								312000-3 (2.6)
Topsoll								329119-2 (2.5)
Coir Fabric								329119-2 (2.2)
Jute Matting								329119-2 (2.1)
Mulch								329300-4 (2.2)
Habitat Logs								353200-3 (3.3)
Shrubs & Plantings								329300
Hydroseeding								329219

COMMENTS (Material Delivered-Removed/Qty.):

Received 12 ecology blocks. Removed 2 loads of debris to Wasco county landfill from demo of walk bridge.

DAILY INSPECTION LOG:

TYPE	TECHNICAL SPECIFICATION NO.	LOCATION / NATURE OF DEFECT	CORRECTIVE ACTION TAKEN OR PROPOSED	COMMENTS
TESC				
Signage				
Restricted Area Fence				

SAFETY STATUS:

Accidents (if any):	
Illnesses (if any):	
Near-miss Incidents (if any):	
Corrective Action (if any):	
Other:	

Signature Verifying Above:



PROJECT T4 RA PH-1: Wheeler Bay Stabilization CONTRACT NO. 820027/2008D001
 CONTRACTOR Ash Creek Associates, Inc./Envirocon SUPERINTENDENT George Lotze
 DAY OF WEEK & DATE: Tues., Aug 19, 2008 REPORT NO. 11
 WEATHER Morning Rain, partial clouds TEMPERATURE 60L 79H

<p>NUMBER/CLASS OF CONTRACTOR'S PERSONNEL:</p> <p>Envirocon: Rick Martin: Foreman/Surveyor Matt Patching: Operator Wes Jensen: Operator Kevin George: Operator</p>	<p>MAJOR EQUIPMENT ON JOB (Size/capacity and hours):</p> <p>Kamatsu HM 30 (Off Road Dump Truck) Kamatsu PC 300 (Trac-hoe) International Water Truck (4000gal) John Deere 410 (Backhoe) Bomag BW177 DH-3 (Single Steel Roller- Rental) John Deere 650J (Small Dozer-Rental) Kamatsu PC 200 (Trac-hoe)</p>
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CHRONOLOGICAL ACCOUNT OF DAY'S WORK:

(07:00-17:30) Contractor's working hours at Wheeler Bay

(07:00) Contractor's on site safety meeting

NOTE: Contractor has approx. 120 tons of select fill (ballast) stockpiled on site. An RFI has been generated for approval to use the out of spec. rock.

Port inspector (PGB) rec'd permission from MFM (RW) to install R/R blue flag at Wheeler Bay during Kinder Morgan's scheduled shutdown.

JD 410 with laborer continue excavating trench for re-locating existing electrical conduit in both areas, sta. 0+50 to second R/R crossing and at approx. sta. 6+00 to 7+00. All existing utilities crossing new trench were potholed and not damaged.

PC 300 spent most of morning loading trucks with woody debris from demo of fire pier. Contractor had 3 trucks with pups today hauling woody debris to Wasco landfill. All woody debris from fire pier has been hauled off site. In between loading trucks, PC300 also excavating top of bank from sta. 0+00 to 2+50 and loading HM30 with clean common excavated material and hauled to top of bank sta. 3+50 to sta. 4+50. JD 650 processing material creating 3:1 slope.

Contractor's surveyor laying out control for toe of bank elevation 10-12, (see detail 3/C-3) from 0+00 to 6+50.

(15:30-17:30) PC300 with HM30 began excavating at toe of bank elevation 10-12, from 0+00 to 1+50. All clean common excavated material is loaded into HM30 and hauled to approx. sta. 4+50 and processed by JD650 to create 3:1 slope.

Dust abatement, by applying water, is applied all day long by water truck, during PC300 excavation activities including all on-site dirt roadways. Port supplied a water meter for Envirocon when filling up water truck using Port owned fire hydrant.

TESTING LABORATORY ON SITE: _____ HRS: _____

TESTS PERFORMED: _____

PHONE LOG:



DAILY DIARY

PROJECT T4 RA PH-1: Wheeler Bay Stabilization CONTRACT NO. 820027/2008D001

CONTRACTOR Ash Creek Associates, Inc./Envirocon SUPERINTENDENT George Lotze

DAY OF WEEK & DATE: Tues., Aug 19, 2008 REPORT NO. 11

WEATHER Morning Rain, partial clouds TEMPERATURE 60L 79H

<u>SITE PHOTOS/VIDEOS TAKEN:</u>	<u>FORCE ACCOUNT WORK/ CHANGES ENCOUNTERED:</u>

INSPECTOR Philipp G. Bales HRS _____ DATE 8-19-8
(signature on hardcopy)



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PROJECT NUMBER 1066-04
 FIELD REPORT NUMBER 12
 PAGE 1 OF 2
 DATE 8/20/2008

PROJECT	Wheeler Bay Stabilization	ARRIVAL TIME	655
LOCATION	Terminal 4	DEPARTURE TIME	1725
CLIENT	Port of Portland	WEATHER	rain 70F; Winds: southwest 10 mph
PURPOSE OF OBSERVATIONS	Field Oversight		
ASH CREEK REPRESENTATIVE	D. Urquhart	ASH CREEK PROJECT MANAGER	H. Clough
SUBCONTRACTOR	Envirocon	SUBCONTRACTOR REP.	George Lotze

Our firm's professionals are represented on site solely to observe operations of the subcontractor identified, to form opinions about the adequacy of those operations, and to report those opinions to our client. The presence and activities of our field representative do not relieve any subcontractor from its obligation to meet contractual requirements. The subcontractor retains sole responsibility for site safety and the methods, operations, and sequence of construction. Unless signed by the Ash Creek Associates Project Manager, this report is preliminary. A preliminary report is provided solely as evidence that field observation was performed. Observations and/or conclusions and/or recommendations conveyed in the final report may vary from and shall take precedence over those included in preliminary report.

DAILY INSPECTION LOG:

Construction Element	MEETS INSPECTION CRITERIA			SEE ENVIROCON REPORT	SEE BELOW
	YES	NO	NA		
Site Preparation					
Erosion Control Installation			X		
Clearing and Grubbing			X		
Load Out Excess Cut	X			X	X
Debris Clear of Excess Soil			X		
Shoreline Stabilization					
Sub-grade Cut and Fill	X			X	X
Demarcation Layer			X		
Select Fill			X		
Armor Type 3			X		
Material					
Physical/Chemical Testing of Import Material			X		
Visual Inspection			X		
In-place Moisture Density Testing			X		
Compaction Testing			X		
Grading Inspection					
Final Grade 3H:1V in North Portion of Slope			X		
Final Grade 2H:1V in Southern Portion of Slope			X		
Compaction Testing			X		
Vegetation and Groundcover					
Topsoil			X		
Coir Fabric			X		
Shrubs and Plantings			X		
Mulch			X		
Hydroseeding			X		
Habitat Cover			X		
Jute Matting			X		
Habitat Logs and LWD			X		
COMMENTS:					
Off-load 1 truck with debris.					
Prepare subgrade from 0+00 to 0+70 and 0+70 to 1+00.					



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PROJECT NUMBER 1066-04
FIELD REPORT NUMBER 12
PAGE 2 OF 2
DATE 8/20/2008

DAILY INSPECTION LOG CONT'D:					
Construction Element	MEETS INSPECTION CRITERIA			SEE ENVIROCON REPORT	SEE BELOW
	YES	NO	NA		
Temporary Erosion and Sediment Control (TESC)					
TESC Measures	X				
SW Runoff	X				X
Surface Water Quality (Tier I: visible sheen and/or turbidity)	X				X
Other TESC Measures: _____			X		
Site Conditions					
Equipment	X				
Signage	X				
Restricted Area Fence	X				
Stockpile	X				
Other Site Conditions: _____			X		
Environmental Protection Measures					
Noise Prevention	X				
Dust Prevention	X				
Diesel Exhaust	X				
Prevention of Off-site Tracking of Sediment	X				
Fuel Storage and Fuel Transfers			X		
Fertilizer Application			X		
Other Environmental Protection Measures: _____			X		
Health and Safety					
	YES	NO	SEE ENVIROCON REPORT	SEE BELOW	
Safety Tailgate Meeting	X				
Accidents		X			
Illnesses		X			
Near-miss Incidents		X			
Corrective Action		X			
Other Safety and Health Issues: _____		X			
COMMENTS:					
Rainfall entire day, ground surface wet and no dust problems. Rainfall did not produce runoff.					
Day's Activities:					
Cut and fill (see page 1), off-load debris (see page 1), and finish digging trench for utility relocate at E bank.					

BY

REVIEWED BY

D. Urquhart
ASH CREEK ASSOCIATES REPRESENTATIVE

H. Clough
ASH CREEK ASSOCIATES PROJECT MANAGER

DAILY CONSTRUCTION & CQC REPORT

T4 Wheeler Bay Stabilization - PROJECT #1473800



Weather:		Report Information.:	
Max Temp: <u> 75 </u>	Site Conditions: <u> wet </u>	Date: <u> 8/20/2008 </u>	
Min Temp: <u> 55 </u>	Winds: <u> light </u>	Week Day: <u> Wed </u>	
	Precipitation: <u> medium </u>	Shift: <u> 7-6:30 </u>	

Report Prepared By:										
Personnel	WBS Task	Hours	Start	Finish	Equip	No.	Run	Stdby	WBS Task Code	Comments
KEVIN GEORGE	302	10	7:00	5:30	PC300 EXC.	Modern	10		302	Cu/Fill
WES JENSEN	8001	10	7:00	5:30	HM300 ARTIC	Modern	0			
GEORGE LOTZE	2201	12	7:00	5:30	BOMAG ROLLER	United	0			
RICK MARTIN	302	10	7:00	5:30	JD650 DOZER	United	5		302	Cu/Fill
MIKE MCCOY	302	10	7:00	5:30	PC200 EXC.	3366	5		302	Cu/Fill
MATTHEW PATCHING	8001	10	7:00	5:30	WATER TRUCK	United	1		302	Wash asphalt road
SKIP SIMPSON					JD310 BACKHOE	1196	10		8001	Trench for utility relocate
SUZANNE STARKEY										

DESCRIPTION OF WORK (detail below):
 Cu/Fill continued at 0+00 to 1+00. Loaded out 1 load of debris from Pler removal to Wasco county landfill.
 Rained hard in the morning. Not so much in the afternoon.
 Empire electric mobed one truck onto site this afternoon.

DOWNTIME OR DELAYS:

MATERIAL PLACED:								
MATERIAL	STA (START)		STA (STOP)		QTY.	QTY. TO DATE	APPROVED SOURCE	TECHNICAL SPECIFICATION NO.
	STA	OFFSET	STA	OFFSET				
Demarcation Layer								Addendum No. 1 312000-4
Select Fill								312000-3 (2.3)
Armor Type 3								312000-3 (2.5)
Habitat Cover								312000-3 (2.6)
Topsoil								329119-2 (2.5)
Coir Fabric								329119-2 (2.2)
Jute Matting								329119-2 (2.1)
Mulch								329300-4 (2.2)
Habitat Logs								353200-3 (3.3)
Shrubs & Plantings								329300
Hydroseeding								329219

COMMENTS (Material Delivered/Removed/Qty.):

DAILY INSPECTION LOG:				
TYPE	TECHNICAL SPECIFICATION NO.	LOCATION / NATURE OF DEFECT	CORRECTIVE ACTION TAKEN OR PROPOSED	COMMENTS
TESC				
Signage				
Restricted Area Fence				

SAFETY STATUS:

Accidents (if any):	
Illnesses (if any):	
Near-miss Incidents (if any):	
Corrective Action (if any):	
Other:	

Signature Verifying Above:



PROJECT T4 RA PH-1: Wheeler Bay Stabilization CONTRACT NO. 820027/2008D001
 CONTRACTOR Ash Creek Associates, Inc./Envirocon SUPERINTENDENT George Lotze
 DAY OF WEEK & DATE: Wed., Aug 20, 2008 REPORT NO. 12
 WEATHER Morning Rain, partial clouds TEMPERATURE 59L 78H

NUMBER/CLASS OF CONTRACTOR'S PERSONNEL:	MAJOR EQUIPMENT ON JOB (Size/capacity and hours):
<u>Envirocon:</u> Rick Martin: Foreman/Surveyor Matt Patching: Operator Wes Jensen: Operator Kevin George: Operator	Kamatsu HM 30 (Off Road Dump Truck) Kamatsu PC 300 (Trac-hoe) International Water Truck (4000gal) John Deere 410 (Backhoe) Bomag BW177 DH-3 (Single Steel Roller- Rental) John Deere 650J (Small Dozer-Rental) Kamatsu PC 200 (Trac-hoe)

CHRONOLOGICAL ACCOUNT OF DAY'S WORK:

(07:00-17:30) Contractor's working hours at Wheeler Bay

(07:00) Contractor's on site safety meeting

(10:00) Project weekly meeting held at T4 admin building. Contractor has informed Port that do to change order relocating existing utilities, this additional scope of work has pushed out project completion date by approx. 12 working days.

JD 410 with laborer spent all day excavating trench for re-locating existing electrical conduit in both areas, sta. 0+50 to second R/R crossing and at approx. sta. 6+00 to 7+40. All existing utilities crossing new trench were potholed, exposed and not damaged. Existing utilities elevation, transverse to trench, do not appear to be in conflict with new conduit.

PC 300 loaded 2 trucks with pups of woody debris from fire pier and hauled it to Wasco landfill.
 PC300 excavating common excavation, toe of slope at elevation 10-12, from sta 0+00 to 2+50. All clean common excavated material is loaded into HM30 and hauled between sta. 3+50 to 5+50. JD 650 processing material creating 3:1 slope.

Contractor's surveyor continues laying out control for toe of bank elevation 10-12, (see detail 3/C-3) from 0+00 to 6+50.

Dust abatement, by applying water , is applied all day long by water truck, during PC300 excavation activities including all on-site dirt roadways. Port supplied a water meter for Envirocon when filling up water truck using Port owned fire hydrant.

TESTING LABORATORY ON SITE: _____ **HRS:** _____

TESTS PERFORMED: _____

PHONE LOG:

SITE PHOTOS/VIDEOS TAKEN:	FORCE ACCOUNT WORK/ CHANGES ENCOUNTERED:
----------------------------------	-------------------------------------------------



DAILY DIARY

PROJECT T4 RA PH-1: Wheeler Bay Stabilization CONTRACT NO. 820027/2008D001
CONTRACTOR Ash Creek Associates, Inc./Envirocon SUPERINTENDENT George Lotze
DAY OF WEEK & DATE: Wed., Aug 20, 2008 REPORT NO. 12
WEATHER Morning Rain, partial clouds TEMPERATURE 59L 78H

INSPECTOR Philipp G. Bales HRS _____ DATE 8-20-8
(signature on hardcopy)



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PROJECT NUMBER 1066-04
FIELD REPORT NUMBER 13
PAGE 1 OF 2
DATE 8/21/2008

PROJECT	<u>Wheeler Bay Stabilization</u>	ARRIVAL TIME	<u>655</u>
LOCATION	<u>Terminal 4</u>	DEPARTURE TIME	<u>1530</u>
CLIENT	<u>Port of Portland</u>	WEATHER	<u>AM showers, PM sun 70F; Winds: west 7 mph</u>
PURPOSE OF OBSERVATIONS	<u>Field Oversight</u>		
ASH CREEK REPRESENTATIVE	<u>D. Urquhart</u>	ASH CREEK PROJECT MANAGER	<u>H. Clough</u>
SUBCONTRACTOR	<u>Envirocon</u>	SUBCONTRACTOR REP.	<u>George Lotze</u>

Our firm's professionals are represented on site solely to observe operations of the subcontractor identified, to form opinions about the adequacy of those operations, and to report those opinions to our client. The presence and activities of our field representative do not relieve any subcontractor from its obligation to meet contractual requirements. The subcontractor retains sole responsibility for site safety and the methods, operations, and sequence of construction. Unless signed by the Ash Creek Associates Project Manager, this report is preliminary. A preliminary report is provided solely as evidence that field observation was performed. Observations and/or conclusions and/or recommendations conveyed in the final report may vary from and shall take precedence over those included in preliminary report.

DAILY INSPECTION LOG:					
Construction Element	MEETS INSPECTION CRITERIA			SEE ENVIROCON REPORT	SEE BELOW
	YES	NO	NA		
Site Preparation					
Erosion Control Installation			X		
Clearing and Grubbing			X		
Load Out Excess Cut			X		
Debris Clear of Excess Soil			X		
Shoreline Stabilization					
Sub-grade Cut and Fill	X			X	X
Demarcation Layer			X		
Select Fill			X		
Armor Type 3			X		
Material					
Physical/Chemical Testing of Import Material			X		
Visual Inspection	X			X	X
In-place Moisture Density Testing			X		
Compaction Testing			X		
Grading Inspection					
Final Grade 3H:1V in North Portion of Slope			X		
Final Grade 2H:1V in Southern Portion of Slope			X		
Compaction Testing			X		
Vegetation and Groundcover					
Topsoil			X		
Coir Fabric			X		
Shrubs and Plantings			X		
Mulch			X		
Hydroseeding			X		
Habitat Cover			X		
Jute Matting			X		
Habitat Logs and LWD			X		
COMMENTS:					
Sub-grade cut at 0+70 in former location of electrical box;					
One load of armor rock delivered. Visually inspection 25% >125 lbs, 60% 100 lbs +/- 25 lbs, and 15% < 75 lbs.					



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PROJECT NUMBER 1066-04
FIELD REPORT NUMBER 13
PAGE 2 OF 2
DATE 8/21/2008

DAILY INSPECTION LOG CONT'D:					
Construction Element	MEETS INSPECTION CRITERIA			SEE ENVIROCON REPORT	SEE BELOW
	YES	NO	NA		
Temporary Erosion and Sediment Control (TESC)					
TESC Measures	X				
SW Runoff	X				X
Surface Water Quality (Tier I: visible sheen and/or turbidity)	X				X
Other TESC Measures: _____			X		
Site Conditions					
Equipment	X				
Signage	X				
Restricted Area Fence	X				
Stockpile	X				
Other Site Conditions: _____			X		
Environmental Protection Measures					
Noise Prevention	X				
Dust Prevention	X				
Diesel Exhaust	X				
Prevention of Off-site Tracking of Sediment	X				
Fuel Storage and Fuel Transfers			X		
Fertilizer Application			X		
Other Environmental Protection Measures: _____			X		
Health and Safety					
	YES	NO	SEE ENVIROCON REPORT	SEE BELOW	
Safety Tailgate Meeting	X				
Accidents		X			
Illnesses		X			
Near-miss Incidents		X			
Corrective Action		X			
Other Safety and Health Issues: _____		X			
COMMENTS:					
Rainfall in morning and previous night, ground surface wet and no dust problems. Rainfall did not produce runoff. No turbidity nor sheen observed.					
Day's Activities:					
Cut and fill (see page 1), set slope stakes at 3+00 to 5+50 (see pictures), and Empire Electrical begins relocating utilities at west site boundaries.					

BY

REVIEWED BY

D. Urquhart
ASH CREEK ASSOCIATES REPRESENTATIVE

H. Clough
ASH CREEK ASSOCIATES PROJECT MANAGER

DAILY CONSTRUCTION & CQC REPORT

T4 Wheeler Bay Stabilization - PROJECT #1473800



Weather:		Site Conditions:		Report Information:	
Max Temp: 75 _____	Site Conditions: <u>wet</u>	Date: <u>8/21/2008</u>			
Min Temp: 55 _____	Winds: <u>light</u>	Week Day: <u>Thurs</u>			
	Precipitation: <u>light</u>	Shift: <u>7-3:30</u>			

Report Prepared By:										
Personnel	WBS Task	Hours	Start	Finish	Equip	No.	Run	Stdby	WBS Task Code	Comments
KEVIN GEORGE	302	8	7:00	3:30	PC300 EXC.	Modern	8		302	Cuufill slopes
WES JENSEN	302,801	4,3	7:00	2:30	HM300 ARTIC	Modern	0			
GEORGE LOTZE	2201	10	7:00	6:30	BOMAG ROLLER	United	0			
RICK MARTIN	302	10	7:00	5:30	JD650 DOZER	United	0			
MIKE MCCOY	302	8	7:00	3:30	PC200 EXC.	3366	0			
MATTHEW PATCHING	302,801	4,3	7:00	3:30	WATER TRUCK	United	2		302	Decon 650 dozer
SKIP SIMPSON					JD310 BACKHOE	1196	6		302	Rebuild RR crossing
SUZANNE STARKEY										

DESCRIPTION OF WORK (detail below):
 Cuufill slopes with PC300, place to grade. Assist Empire electric with relocating irrigation control box. Decon JD650 dozer with water truck to prepare to trade for a JD450 LGP dozer. Survey slopes and place cul stakes to accommodate a 3 to 1 slope sub grade. Import 3 rolls of fabric for placement underneath the select fill. Empire electric onsite placed conduit in trench and reset irrigation control box.

DOWNTIME OR DELAYS:

MATERIAL PLACED:								
MATERIAL	STA (START)		STA (STOP)		QTY.	QTY. TO DATE	APPROVED SOURCE	TECHNICAL SPECIFICATION NO.
	STA	OFFSET	STA	OFFSET				
Demarcation Layer								Addendum No. 1 312000-4
Select Fill								312000-3 (2.3)
Armor Type 3								312000-3 (2.5)
Habitat Cover								312000-3 (2.6)
Topsoil								329119-2 (2.5)
Coir Fabric								329119-2 (2.2)
Jute Matting								329119-2 (2.1)
Mulch								329300-4 (2.2)
Habitat Logs								353200-3 (3.3)
Shrubs & Plantings								329300
Hydroseeding								329219

COMMENTS (Material Delivered-Removed/Qty.):
 Import 3 rolls 12 feet by 360 feet of Geotextile fabric. Import 13.86 tons of Armor rock for visual inspection.

DAILY INSPECTION LOG:				
TYPE	TECHNICAL SPECIFICATION NO.	LOCATION / NATURE OF DEFECT	CORRECTIVE ACTION TAKEN OR PROPOSED	COMMENTS
TESC				
Signage				
Restricted Area Fence				

SAFETY STATUS:	
Accidents (if any):	
Illnesses (if any):	
Near-miss incidents (if any):	
Corrective Action (if any):	
Other:	

Signature Verifying Above: _____



PROJECT T4 RA PH-1: Wheeler Bay Stabilization CONTRACT NO. 820027/2008D001
 CONTRACTOR Ash Creek Associates, Inc./Envirocon SUPERINTENDENT George Lotze
 DAY OF WEEK & DATE: Thurs., Aug 21, 2008 REPORT NO. 13
 WEATHER Morning Rain, partial clouds afternoon TEMPERATURE 58L 76H

NUMBER/CLASS OF CONTRACTOR'S PERSONNEL:	MAJOR EQUIPMENT ON JOB (Size/capacity and hours):
<p><u>Envirocon:</u> Rick Martin: Foreman/Surveyor Matt Patching: Operator Wes Jensen: Operator Kevin George: Operator</p> <p><u>Subcontractor:</u> McCoy/Empire Electric: Paul Starr (Journeyman)</p>	<p>Kamatsu HM 30 (Off Road Dump Truck) Kamatsu PC 300 (Trac-hoe) International Water Truck (4000gal) John Deere 410 (Backhoe) Bomag BW177 DH-3 (Single Steel Roller- Rental) John Deere 650J (Small Dozer-Rental) Kamatsu PC 200 (Trac-hoe)</p>

CHRONOLOGICAL ACCOUNT OF DAY'S WORK:

(07:00-17:30) Contractor's working hours at Wheeler Bay

(07:00) Contractor's on site safety meeting

NOTE: BW177, HM30, PC200 on standby all day

McCoy/Empire electrician on site with Port electrical inspector (KR) accessing T4 warehouse 4, electrical tunnel under berth 410 and electrical panel at sta. 0+50, reviewing existing conditions and what is required to relocate existing electrical lines per CC 1.1

Dozen concrete Eco-blocks delivered to site and staged next to connex.

After discussing scope of work with Port electrical inspector (KR), McCoy/Empire electrician concentrated rest of the day de-energizing electrical panel at sta. 0+50, and with support from PC300, relocated panel box, installed conduit. Port electrical inspector (KR) monitoring all work.

PC 300 at elevation 10-12, excavating toe of slope from 0+00 to 1+50 (see dwg detail 3/C-3).
 RFI 12: Informs contractor that the out of spec select fill rock can be used provided they place geo-tech fabric below the demarcation layer. 3 rolls (360linft ea roll) geotech fabric was delivered to project site at 13:30 today.

After contractor's surveyor laid out slope stakes for 3:1 slope, it was determined in areas from sta. 3+75 to approx. sta 5+00, that the toe of the slope was moved away (from elevation 10) nearly 15'. Port inspector (PGB) with Anchor on site inspector (Doug) after talking to Environcon superintendent (GL) was informed that they were under the impression that they were not importing any additional fill material and in order to maintain the 3:1 slope to the existing top of bank elevation, the toe needed to be moved in, away from elev 10. Port inspector (PGB) requested that Ashcreek/Environcon generate an RFI ASAP with survey data describing moving toe of slope 15' from design grade (at certain locations) and if it's approved by engineer. All other areas excavated with contractor's slope stakes appear to be built per design.

(14:00) Port inspector's (PGB, KR) discussing with Kinder/Morgan manager (Bruce) about scope of work relocating existing electrical and com/data lines and that it should have min. effect on Kinder/Morgan's operations. Bruce was okay de-energizing the yellow strobe lights at tail end of tracks. These lights will be re-energized before 8-24.



PROJECT T4 RA PH-1: Wheeler Bay Stabilization CONTRACT NO. 820027/2008D001

CONTRACTOR Ash Creek Associates, Inc./Envirocon SUPERINTENDENT George Lotze

DAY OF WEEK & DATE: Thurs., Aug 21, 2008 REPORT NO. 13

WEATHER Morning Rain, partial clouds afternoon TEMPERATURE 58L 76H

Dust abatement, by applying water , is applied all day long by water truck, during PC300 excavation activities including all on-site dirt roadways. Port supplied a water meter for Envirocon when filling up water truck using Port owned fire hydrant.

TESTING LABORATORY ON SITE: _____ HRS: _____

TESTS PERFORMED: _____

PHONE LOG:

SITE PHOTOS/VIDEOS TAKEN:

FORCE ACCOUNT WORK/ CHANGES ENCOUNTERED:

INSPECTOR Philipp G. Bales HRS _____ DATE 8-21-8
(signature on hardcopy)



PROJECT T4 RA PH-1: Wheeler Bay Stabilization CONTRACT NO. 820027/2008D001
 CONTRACTOR Ash Creek Associates, Inc./Envirocon SUPERINTENDENT George Lotze
 DAY OF WEEK & DATE: Fri., Aug 22, 2008 REPORT NO. 14
 WEATHER partial clouds TEMPERATURE 57L 77H

<u>NUMBER/CLASS OF CONTRACTOR'S PERSONNEL:</u>	<u>MAJOR EQUIPMENT ON JOB (Size/capacity and hours):</u>
<u>Envirocon:</u> Rick Martin: Foreman/Surveyor Matt Patching: Operator Wes Jensen: Operator Kevin George: Operator <u>Subcontractor:</u> McCoy/Empire Electric: Crew 2 1-Paul Starr (Journeyman) 1-apprentice	Kamatsu HM 30 (Off Road Dump Truck) Kamatsu PC 300 (Trac-hoe with thumb) International Water Truck (4000gal) John Deere 410 (Backhoe) Bomag BW177 DH-3 (Single Steel Roller- Rental) John Deere 650J (Small Dozer-Rental) Kamatsu PC 200 (Trac-hoe)

CHRONOLOGICAL ACCOUNT OF DAY'S WORK:

(07:00-17:30) Contractor's working hours at Wheeler Bay

(07:00) Contractor had only Environcon's superintendent (GL) and electrical sub McCoy with crew of 2 working on site all day. Environcon superintendent (GL) laid out McCoy's scope of work with crew and eventually left site about 12:30. Only McCoy crews remained on site till approx.16:00.

NOTE: After further review with slope stakes between sta. 3+50 to sta. 5+00, ref. dwg sheet C-1, it was determined that the toe of slope is designed to be offset from elev 10 in these areas and control is laid out accordingly. At no time was contractor directed by Port inspector (PGB) to stop work in this area.

NOTE: Contractor has areas that could still be worked today by Environcon crews even though they are claiming that they need to wait for the electrical work to be completed before they can continue. Environcon activities could continue today such as PC 300 at elevation 10-12, excavating toe of slope from 0+00 to 2+50 (see dwg detail 3/C-3). They have geotech fabric, coir fabric, load of armor type 3 riprap, select fill, on site to continue this work.

(10:30) City of Portland electrical inspector (Ron) on site inspected and approved rough-in electrical work by McCoy at sta 0+50, including conduit and electrical panel termination. McCoy re-energized panel at 0+50, including strobe lights at tail end of tracks.

(14:30-16:00) McCoy crews began rough-in electrical work at top of bank from sta. 5+50 to sta. 8+20, installing new electrical conduit. Port surveyors scheduled Monday morning, 8-25-8, as-built all new electrical installations before trenches are backfilled.

Dust abatement, by applying water, is applied all day long by water truck, during PC300 excavation activities including all on-site dirt roadways. Port supplied a water meter for Envirocon when filling up water truck using Port owned fire hydrant.

TESTING LABORATORY ON SITE: _____ HRS: _____



PROJECT T4 RA PH-1: Wheeler Bay Stabilization CONTRACT NO. 820027/2008D001

CONTRACTOR Ash Creek Associates, Inc./Envirocon SUPERINTENDENT George Lotze

DAY OF WEEK & DATE: Fri., Aug 22, 2008 REPORT NO. 14

WEATHER partial clouds TEMPERATURE 57L 77H

TESTS PERFORMED: _____	
PHONE LOG:	
SITE PHOTOS/VIDEOS TAKEN:	FORCE ACCOUNT WORK/ CHANGES ENCOUNTERED:

INSPECTOR Philipp G. Bales HRS _____ DATE 8-22-8
(signature on hardcopy)



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PROJECT NUMBER 1066-04
 FIELD REPORT NUMBER 14
 PAGE 1 OF 2
 DATE 8/22/2008

PROJECT	Wheeler Bay Stabilization	ARRIVAL TIME	655
LOCATION	Terminal 4	DEPARTURE TIME	1000
CLIENT	Port of Portland	WEATHER	clear 75F; Winds: west 4 mph
PURPOSE OF OBSERVATIONS	Field Oversight		
ASH CREEK REPRESENTATIVE	D. Urquhart	ASH CREEK PROJECT MANAGER	H. Clough
SUBCONTRACTOR	Envirocon	SUBCONTRACTOR REP.	George Lotze

Our firm's professionals are represented on site solely to observe operations of the subcontractor identified, to form opinions about the adequacy of those operations, and to report those opinions to our client. The presence and activities of our field representative do not relieve any subcontractor from its obligation to meet contractual requirements. The subcontractor retains sole responsibility for site safety and the methods, operations, and sequence of construction. Unless signed by the Ash Creek Associates Project Manager, this report is preliminary. A preliminary report is provided solely as evidence that field observation was performed. Observations and/or conclusions and/or recommendations conveyed in the final report may vary from and shall take precedence over those included in preliminary report.

DAILY INSPECTION LOG:					
Construction Element	MEETS INSPECTION CRITERIA			SEE ENVIROCON REPORT	SEE BELOW
	YES	NO	NA		
Site Preparation					
Erosion Control Installation			X		
Clearing and Grubbing			X		
Load Out Excess Cut			X		
Debris Clear of Excess Soil			X		
Shoreline Stabilization					
Sub-grade Cut and Fill			X		
Demarcation Layer			X		
Select Fill			X		
Armor Type 3			X		
Material					
Physical/Chemical Testing of Import Material			X		
Visual Inspection	X				X
In-place Moisture Density Testing			X		
Compaction Testing			X		
Grading Inspection					
Final Grade 3H:1V in North Portion of Slope			X		
Final Grade 2H:1V in Southern Portion of Slope			X		
Compaction Testing			X		
Vegetation and Groundcover					
Topsoil			X		
Coir Fabric			X		
Shrubs and Plantings			X		
Mulch			X		
Hydroseeding			X		
Habitat Cover			X		
Jute Matting			X		
Habitat Logs and LWD			X		
COMMENTS:					
Filter fabric on site, visual inspection looks good.					



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PROJECT NUMBER 1066-04
FIELD REPORT NUMBER 14
PAGE 2 OF 2
DATE 8/22/2008

DAILY INSPECTION LOG CONT'D:					
Construction Element	MEETS INSPECTION CRITERIA			SEE ENVIROCON REPORT	SEE BELOW
	YES	NO	NA		
Temporary Erosion and Sediment Control (TESC)					
TESC Measures	X				
SW Runoff			X		
Surface Water Quality (Tier I: visible sheen and/or turbidity)			X		
Other TESC Measures: _____			X		
Site Conditions					
Equipment	X				
Signage	X				
Restricted Area Fence	X				
Stockpile	X				
Other Site Conditions: _____			X		
Environmental Protection Measures					
Noise Prevention	X				
Dust Prevention	X				
Diesel Exhaust	X				
Prevention of Off-site Tracking of Sediment			X		
Fuel Storage and Fuel Transfers			X		
Fertilizer Application			X		
Other Environmental Protection Measures: _____			X		
Health and Safety					
	YES	NO	SEE ENVIROCON REPORT	SEE BELOW	
Safety Tailgate Meeting	X				
Accidents		X			
Illnesses		X			
Near-miss Incidents		X			
Corrective Action		X			
Other Safety and Health Issues: _____		X			
COMMENTS:					
Day's Activities:					
Envirocon's electrical contractor on-site to conduct W utility relocate.					

BY

REVIEWED BY

D. Urquhart
ASH CREEK ASSOCIATES REPRESENTATIVE

H. Clough
ASH CREEK ASSOCIATES PROJECT MANAGER

DAILY CONSTRUCTION & CQC REPORT

T4 Wheeler Bay Stabilization - PROJECT #1473800



Weather:		Site Conditions:		Report Information:	
Max Temp: <u> 75 </u>	Site Conditions: <u> dry </u>	Date: <u> 8/22/2008 </u>			
Min Temp: <u> 55 </u>	Winds: <u> light </u>	Week Day: <u> Friday </u>			
	Precipitation: <u> none </u>	Shift: <u> 7:noon </u>			

Report Prepared By:

Personnel	WBS Task	Hours	Start	Finish	Equip	No.	Run	Stdby	WBS Task Code	Comments
KEVIN GEORGE		0			PC300 EXC.	Modern	0			
WES JENSEN		0			HM300 ARTIC	Modern	0			
GEORGE LOTZE	2201	8	7:00	3:30	BOMAG ROLLER	United	0			
RICK MARTIN	302	5	7:00	12:00	JD450 DOZER	United	0			
MIKE MCCOY		0			PC200 EXC.	3366	0			
MATTHEW PATCHING		0			WATER TRUCK	United	0			
SKIP SIMPSON					JD310 BACKHOE	1196	0			
SUZANNE STARKEY										

DESCRIPTION OF WORK (detail below):

Oversight of Empire Electric. Asbuilt drawings. Import 61.74 tons of 3/4" minus for bedding material for electric.

Traded JD650 dozer for JD450 LGP dozer. Picked up plate compactor for use on Monday compacting trenches.

DOWNTIME OR DELAYS:

MATERIAL PLACED:

MATERIAL	STA (START)		STA (STOP)		QTY.	QTY. TO DATE	APPROVED SOURCE	TECHNICAL SPECIFICATION NO.
	STA	OFFSET	STA	OFFSET				
Demarcation Layer								Addendum No. 1 312000-4
Select Fill								312000-3 (2.3)
Armor Type 3								312000-3 (2.5)
Habitat Cover								312000-3 (2.6)
Topsoil								329119-2 (2.5)
Coir Fabric								329119-2 (2.2)
Jute Matting								329119-2 (2.1)
Mulch								329300-4 (2.2)
Habitat Logs								353200-3 (3.3)
Shrubs & Plantings								329300
Hydroseeding								329219

COMMENTS (Material Delivered-Removed/Qty.):

Import 61.74 tons of 3/4" minus.

DAILY INSPECTION LOG:

TYPE	TECHNICAL SPECIFICATION NO.	LOCATION / NATURE OF DEFECT	CORRECTIVE ACTION TAKEN OR PROPOSED	COMMENTS
TESC				
Signage				
Restricted Area Fence				

SAFETY STATUS:

Accidents (if any):	
Illnesses (if any):	
Near-miss Incidents (if any):	
Corrective Action (if any):	
Other:	

Signature Verifying Above:

ATTACHMENT C
DAILY CONSTRUCTION MONITORING REPORTS FOR THE
TRANSLOADING FACILITY

- 7:00 Arrive at site. Review field setup. Barges in place per TDP. Drying agent delivered previously (2 or 3 truckloads per Dean Large). Take photos and set up for soil sampling.
- 8:00 (78°F) Safety meeting (Dave Godel and Doug Larsen, HME, and Gary Rossing, AMEC)
- 8:40 Light rain, lightning north of river and well south of site on hills. Harder rain and some hail midmorning.
- 9:15 Began moving drying agent from pad to small barge next to crane barge. This stockpile of drying agent is for mixing with sediment on barge prior to offloading. Additional drying agent delivered (see later notes) for mixing in box.
- 9:10 Soil sampling through 9:40. Completing Chain of Custody and packaging.
- 10:20 Adam Romey (Parametrix) on-site
- 10:40 Call from Senvoy. Will send next available driver.
- 10:45 1st truck on loadout pad.
- 11:00 1st truck loaded and covered. Completely clean (photos)
- 11:15 Receive truck/pup of drying agent.
- 11:39 Loading truck. Some spill while loading pup. HME picked up material, swept, and covered affected area with two pieces of geotextile.
- 12:10 Load covered, sides and wheels clean; left site. Truck on loadout pad. Adding sediment and drying agent to box and mixing (video).
- 12:28 (68°F) Finish loading truck/pup. Move to cover station.
- 12:46 Senvoy arrive to pick up soil samples.
- 13:00 Received 2nd load (truck and pup) of drying agent. (sun came out—still mostly overcast to north, south, and west)
- 13:05 Truck on loadout pad.
- 13:30 Truck covered, leaving site.
- 13:37 Truck on pad.
- 13:45 Truck covered and out.
- 14:05 Truck on loadout pad.
- 14:25 (74°F) Truck covered and out. No other trucks on-site.
- 14:40 Truck on loadout pad.
- 14:47 Truck covered and out.
- 14:53 Truck (Celorie Bros) on loadout pad. Receive 3rd load of drying agent. Filling box and mixing drying agent.
- 15:15 Loading truck (previous 20 minutes spent mixing sediment and drying agent)
- 15:43 Truck out. Truck (8508) on loadout pad
- 15:58 Truck out. Adam Romney left site
- 16:00 HME shut down for the day. Resume at 5:45 tomorrow. Pack up; leave site at 16:20.

Message from Adam Romey: observed water dripping from truck on way to landfill. Need to follow up on truck lining and sediment amendment with drying agent. Also, sent photographs of soil sampling locations to Adam Romey per his request.

Rick Schwarz/Amada Shellenberger

Resident Engineer

Rick Schwarz

Project Engineer



DAILY QUALITY CONTROL REPORT

Daily Report No. 1

Date: 8/18/08

Contract No. _____

Project Title: T4 off load

Location: The Dalles

Weather: overcast - showers

Temperature: 70° Min. 76° Max

1. Contractor/Subcontractors and Area of Responsibility:

NUMBER	TRADE	HOURS	EMPLOYER	LOCATION/DESCRIPTION OF WORK
<u>6</u>	<u>Trk Drivers</u>		<u>D&R Dietrich</u>	<u>Dump Trucks</u>
<u>1</u>	<u>equip. op.</u>		<u>NUTTER</u>	<u>excavator</u>
<u>4</u>	<u>equip. op</u>	<u>10</u>	<u>HME</u>	<u>Derrick sea vulture</u>
<u>1</u>	<u>Laborer</u>	<u>9 1/2</u>	<u>west coast marine</u>	<u>- clean up</u>

2. Operating Plant or Equipment. (Not Hand Tools)

Plant/Equipment	Date of		Date of	Hours	Hours	Hours
	Arrival	Departure				
<u>SEA Vulture</u>	<u>8/18/08</u>	<u>8/18/08</u>	<u>8/18/08</u>	<u>7</u>	<u>3</u>	
<u>EXCAVATOR</u>				<u>5 1/2</u>		



T-4/ The Dalles Offload Site Daily Inspection Checklist

Date 8/13/08 - Monday

1) Safety Meeting: Agenda: off load check

Attendees:

- | | |
|---------------------------------|--------------------------|
| <u>6 Dietrich Truck Drivers</u> | <u>Darrel Jule - HME</u> |
| <u>5 Anchor Personnel</u> | <u>Doug Larsen - HME</u> |
| <u>DAVID EVANS - WEST COAST</u> | <u>DAVE GODEL - HME</u> |
| <u>BRETT GIANELLA - HME</u> | |
| <u>Dennis Forsberg - HME</u> | |

Derrick SEAHORSE

Derrick Sea Vulture

2) Crane Inspection: "Attach Operator Log/Inspection Log"

3) Plant Inspection	Deficiencies:	Date	Date Corrected
<input checked="" type="checkbox"/>	<u>Block off access under existing</u>	<u>8/13/08</u>	<u>8/13/08</u>
	<u>to lower walkway</u>		

4) Staff Gage Check	Time	Tideboard	Tide Track
<input type="checkbox"/>			

5) Main Fuel Tank Levels	Port	Starboard
Height		
Gallons	<u>30 gal</u>	
Consumption per day	<u>30 gal</u>	

6) Survey Boat
Fuel
Port _____
Starboard _____

Hull Depth _____
Sound Velocity _____
Latency _____

Position Verification
Boat
X _____
Y _____
Control Point
X _____
Y _____

7) Dredge Material Weight _____ pounds per cubic foot

8) Dredge Boom Tip Verification
X _____
Y _____
Control Point
X _____
Y _____

9) Containment and Truck Load Area
Clean Dust Suppression
Fabric Spill Plates

10) Lash Barge: Draft PB _____ SB _____
Keep within 2 ft of trim PS _____ SS _____
Tank Sounding #1 _____ #3 _____
#2 _____ #4 _____

11) ~~1~~ Tank Level - 1" = 300gal #1 ~~300gal~~ 3750 #2 _____

12) De con Stations
Clean
Inventory

1. Work performed today: (Indicate location and description of work performed by prime and/or subcontractors by letter in table above).

0800 - safety meeting for all personnel on Job site - 1030 loading began - off loading of chertco barge #1 into ecology box - Hutter excavator loading Dump Trucks which are hauling material to Landfill - west coast personnel assisting excavator in clean up & spotting of trucks

2. Results of control activities: (Indicate whether P - Preparatory, I - Initial, or F - Follow-up phase. When a P or I meeting is conducted, complete attachment 1-A or 1-B, respectively. When network analysis system is used, identify work by use of I-J numbers.

None

3. Test performed as required by plans and/or specifications:

By others

4. Material received:

None

5. Submittals Reviewed:

(a) Submittal No. (b) Spec/Plan Reference (c) By Whom (d) Action

(a) Submittal No.	(b) Spec/Plan Reference	(c) By Whom	(d) Action
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

6. Offsite surveillance activities, including action taken:

None

7. Job Safety: (Report violations; corrective instructions given; corrective actions taken).

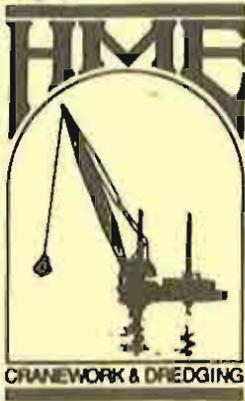
Barrier tape lower Access To Down stream end of Dock To prevent personnel from pinch point with excavator AT top of landing

8. Remarks: (Instructions received or given. Conflict(s) in plans and/or specifications).

Contractor's Verification: On behalf of the Contractor, I certify this report is complete and correct, and all materials and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as noted above.


Authorized QOC Rep at Site

8/18/08
Date



HICKEY MARINE ENTERPRISES

6801 NW Old Lower River Road
Vancouver, WA 98660
(360) 695-4553 (503) 284-1140

M T W T H F S S

Job Name T-4 OFFLOAD Date 8-18-08

Job No. _____ Weather _____

- Equipment: Sea Hawk Sea Vulture Sea Lion Viking 966 Loader Chetco
- Barge 174 Barge 34 BK5 Nova Barge 47 Barge Harvey A
- Manlift Other IT-28 Bobcat

Equipment Safety Checks Performed? Yes / No _____

Personal Protective Equipment Safety Checks Performed ? Yes / No _____

Work performed today

07:00 - 07:15 File-up

07:15 - 08:00 unload ~~material~~ of chetco bin Set-up

08:00 - 08:30 Safety meeting

08:30 - 10:30 Finish set-up

10:30 - 10:45 mix Drying ~~out~~ w/road

10:45 - 16:00 Load trucks

16:00 - 16:45 Service Bobcat, set up for tires, mooring, Fuel

16:45 - 17:00 Secure

Brett 10 hrs
 Doug
 J.K.
 Dennis

Extra work or delays (authorized by) _____

Sign _____

Project: T-4 Offload

Date: 8-18-08

Gallons of diesel used 30

Barge #1

Barge Displacements
CheTeo

Start of shift (water tank 0 inches) Time: 1030

Load # (Barge Name)	Drafts		Tonnage
	10.2'	9.4"	
	10.7'	9.7"	

End of shift (water tank 30 inches) Time: 1610

Load # (Barge Name)	Drafts		Tonnage
	10.4	5.3	
	10.5	5.4	

of gallons
water pumped

3750 gal

Total Tons
Offloaded

4 loads Drying Agent

Diary (continued)

Date: 08/18/08

Report Number: 1

5:45 Arrive at site. Review field setup. Safety meeting (Doug Larsen, HME, West Coast Marine Cleaning) HME brought an extra crew member from West Coast Marine Cleaning to help line the trucks. Doug Larsen talked about making sure to tuck the corners of the truck liner and make sure there is plenty of extra liner so it doesn't rip when loaded

5:55 62 degrees, clear skies, scattered clouds, sun is not over mountains yet

6:00 1st truck on loading pad, installing lining. (Truck 51)

6:20 1st load of drying agent arrives, pup unloaded. Same drying agent but from different source. Darker in color and finer. Steam evaporating from drying agent and strong odor. Doug Larsen thinks this drying agent will absorb more liquid.

6:30 Begin loading 1st truck

6:43 1st truck loaded and covered

6:47 1st load of drying agent done with delivery

6:48 Start loading 2nd truck (Truck 41)

6:58 2nd truck loaded, covered, and leaving site

6:59 Start loading 3rd truck (Truck 20)

7:08 Finish loading 3rd truck...covered and leaving site

7:09 Start loading 4th truck. (Truck 10)

7:21 4th truck loaded, covered, and leaving site. Start loading 5th truck (Truck 19)

7:30 Sunny, increasing dark clouds (70 degrees F)

7:35 5th truck loaded, covered, leaving site

7:36 6th truck loading (Truck 46)

7:40 Doug Larsen says lots of liquid accumulated on top of sediment in barge overnight. Over 300 gallons of liquid pumped off this morning so far. They are doing most of the mixing on the barge now, and adding some extra drying agent in the box if needed.

7:48 6th truck loaded, covered, leaving site

8:05 7th truck (Truck 51) on load pad (2nd trip of day)

8:12 Rick Schwarz took jar sample of "new" drying agent. Very fine sediment. Very little amount of dust when drying agent is moved.

8:27 7th truck covered and leaving site.

8:30 8th truck on loading pad (Truck 41). Spoke to Doug about making sure sediment doesn't splatter out on far side of truck. Adding more drying agent to mixing bucket. Drying agent is getting dustier as day goes on.

8:53 8th truck loaded, covered, and leaving site 9th truck on load pad. (Truck 20)

9:05 9th truck covered and leaving site. Rick Schwarz is following the truck to the landfill in a separate car to observe transport.

9:10 10th truck on loading pad. (Truck 10) New filter fabric laid down on load pad. Old filter fabric discarded. Two trucks onsite lined and waiting to be loaded.

9:40 10th truck covered and leaving site. 11th truck loading (Truck 19). Spoke to water quality crew and velocity meter appears to be working now.

9:55 Called WQ to tell them about new "one sample per 4 hour" schedule. They will finish their 3rd round of sampling since they are almost done and then head to the marina.

9:57 11th truck covered and leaving site.

10:01 12th truck loading (Truck 51). HME has put more filter fabric down and added more rubber pads to help hold the filter fabric in place. Some sediment spilled on edge of truck and was cleaned off by HME.

10:10 Sunny with scattered clouds. Temperature 74 degrees F.

10:15 12th truck covered and leaving site.

10:25 13th truck on load pad. (Truck 41). Last 10 minutes spent mixing sediment with drying agent.

10:44 13th truck covered and leaving site. 14th truck (Truck 46) on loading pad.
10:58 14th truck covered and leaving site. 15th truck (Truck 20) on loading pad.
11:12 15th truck covered and leaving site. 16th truck (Truck 10) on loading pad.
11:29 16th truck covered and leaving site. 17th truck (Truck 19) on loading pad. As truck was being loaded (both truck and pup), the liners became partially detached and fell into truck bed. (See picture) Anchor talked to Doug Larsen about this issue and they are going to try to secure the liners with wire and/or leave extra plastic allowance and see if it works better. The truck loader explained he tries to get the sediment into the front and back of the truck bed first so that they sediment holds the bottom of the liner in place. While the liners are sometimes falling into the beds, they are generally not doing it until a significant amount of sediment has been loaded. HME believes that the liners may be functional even if they fall in near the end of loading and they are concerned that if the liners don't have any give at the top, they could rip at the bottom, which would be worse if it happened. They agreed to make the change in spite of these two notations.

11:45 17th truck covered and leaving site. No further trucks lined up. Crane shut down for lunch break.

12:05 During inspection of the filter fabric aprons, Anchor observed three locations on the stationary barge (BK#5) and dock where sediment had fallen from the clamshell outside of the area protected by the lined apron. HME stated that they would increase the width of the spill apron so the bucket path is always over a protective surface and to reduce the possibility of dripping into the water.

12:09 2nd load of drying agent arrives on site and is off-loaded into drying agent holding bin. Some dust is visible during unloading.

12:15 Fuel truck arrived on site. Two trucks waiting for loading.

12:32 18th truck (Truck 41) on loading pad.

12:40 Sunny with increasing wind. 76 degrees F

12:49 18th truck covered and leaving site. 19th truck (Truck 20) on loading pad. 3rd load of drying agent arrives.

1:03 19th truck covered and leaving site.

1:07 HME has widened the filter fabric aprons between the barges and shoreline on both sides to ensure bucket path is always over a protective surface (See picture)

1:09 20th truck (Truck 10) on loading pad.

1:28 20th truck covered and leaving site. 21st truck (Truck 51) on loading pad.

1:41 21st truck covered and out.

1:43 22nd truck (Truck 19) on loading pad.

1:56 22nd truck covered and out.

1:58 23rd truck (Truck 46) on loading pad.

2:11 23rd truck covered and out

2:16 24th truck on loading pad. (Truck 41)

2:31 24th truck covered and out.

2:37 25th truck (Truck 20) on loading pad.

2:55 25th truck covered and out.

2:56 26th truck (Truck 10) on loading pad.

3:13 26th truck covered and out.

3:14 27th truck on loading pad (Truck 51). Doug Larsen thinks one more truck after this one because the landfill will not take anymore after 5pm. He said he's trying to have them stay open later.

3:28 27th truck loaded and out. 28th truck on loading pad (Truck 19).

3:42 28th truck loaded and out. 4th load of drying agent delivered. While unloading this load, a dust cloud was visible both while the truck was being unloaded and also while the

clam shell was transferring drying agent from land to the barge. The water quality crew was sampling while this was taking place, and no exceedances were noted.

3:45 HME done for the day. Sunny with high clouds, 84 degrees F. Start time tomorrow 5:45am again. Doug Larsen expects to be done midday with offloading the first barge in time for the arrival of the next barge. Pack up and leave site at 4:05pm.

Rick Schwarz/Amada Shellenberger

Resident Engineer

Rick Schwarz

Project Engineer

]



DAILY QUALITY CONTROL REPORT

Daily Report No. 2

Date: 8/19/08 Tue

Contract No. _____

Project Title: T4 off load

Location: The Dalles

Weather: Broken clouds

Temperature: _____ Min. _____ Max

1. Contractor/Subcontractors and Area of Responsibility:

NUMBER	TRADE	HOURS	EMPLOYER	LOCATION/DESCRIPTION OF WORK
<u>6</u>	<u>TRK Drivers</u>		<u>D&R Dietrich</u>	<u>The Dalles to land fill</u>
<u>4</u>	<u>operators</u>	<u>10</u>	<u>HME</u>	<u>Derrick crew</u>
<u>2</u>	<u>laborers</u>	<u>10</u>	<u>West coast marine</u>	<u>ground crew</u>

2. Operating Plant or Equipment. (Not Hand Tools)

Plant/Equipment	Date of Arrival/Departure	Date of Safety Check	Hours Used	Hours Idle	Hours Repair
<u>SEA Vulture</u>	<u>0600</u>	<u>8/19/08</u>	<u>10</u>		
<u>EXCAVATOR</u>	<u>0600</u>	<u>8/19/08</u>	<u>10</u>		
<u>6ea Dump Trucks</u>	<u>0600</u>	<u>8/19/08</u>	<u>10</u>		

1. Work performed today: (Indicate location and description of work performed by prime and/or subcontractors by letter in table above).

Resumed off loading Barge #1 (shotco) AT the Berghart Dock in the Dallas, Oregon. Material is being hauled to waste connection's landfill.

2. Results of control activities: (Indicate whether P – Preparatory, I – Initial, or F – Follow-up phase. When a P or I meeting is conducted, complete attachment I-A or I-B, respectively. When network analysis system is used, identify work by use of I-J numbers.

~~_____~~

3. Test performed as required by plans and/or specifications:

By others

4. Material received:

~~_____~~

5. Submittals Reviewed:

(a) Submittal No.	(b) Spec/Plan Reference	(c) By Whom	(d) Action
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

6. Offsite surveillance activities, including action taken:

7. Job Safety: (Report violations; corrective instructions given; corrective actions taken).

safety meeting held in A.M. w/copy attached

8. Remarks: (Instructions received or given. Conflict(s) in plans and/or specifications).

Contractor's Verification: On behalf of the Contractor, I certify this report is complete and correct, and all materials and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as noted above.



Authorized CQC Rep at Site

8/19/09

Date



T-4/ The Dalles Offload Site Daily Inspection Checklist

Date 8/19/08 Tue

1) Safety Meeting:

Agenda: _____

Attendees:

see Attached Tool
Roll meeting report

Derrick SEAHORSE

Derrick Sea Vulture

2) Crane Inspection:

"Attach Operator Log/Inspection Log"

3) Plant Inspection

Deficiencies:

Date

Date
Corrected

Deficiencies:	Date	Date Corrected
<u>Air can on Deck winch</u>	<u>8/19/08</u>	<u>8/19/08</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

4) Staff Gage Check

Time

Tideboard

Tide Track

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

5) Main Fuel Tank Levels

Port

Starboard

Height	_____	_____
Gallons	_____	_____
Consumption per day	<u>82.3</u>	_____

Position Verification

Boat

X _____

Y _____

Control Point

X _____

Y _____

6) Survey Boat



Fuel



Port _____

Starboard _____

Hull Depth _____

Sound Velocity _____

Latency _____

7) Dredge Material Weight



_____ pounds per cubic foot

8) Dredge Boom Tip Verification

X _____

Y _____

Control Point

X _____

Y _____

9) Containment and Truck Load Area

Clean



Dust Suppression



Fabric



Spill Plates



10) Lash Barge:

Keep within 2 ft of trim

Draft

PB _____

SB _____

PS _____

SS _____

Tank Sounding

#1 _____

#3 _____

#2 _____

#4 _____

11) Baker Tank Level

#1 41" TOTAL

#2 _____

11" = 1375 gal TODAY

3750

5125 gal. TOTAL

Clean



12) De con Stations

Inventory



**HICKEY MARINE ENTERPRISE
TOOL BOX SAFETY MEETING REPORT**

PROJECT: T4 off load PIN: _____
 MEETING DATE: 8/19/03 NO. IN CREW: _____
 CRAFT: Heavy Const NO. ATTENDING: _____
 FOREMAN: Doug Larsen BADGE: _____

SUBJECTS DISCUSSED:

LIST BADGE #
OR NAME OF
EACH ATTENDEE

Truck spotter & TAIPER to make
contact w/Driver before walking up
to truck -
Crane op & EXCAVATOR operator
coordinating their activities
DAVID R. EVANS WEST COAST MARINE
BRECK CHARK Went

Paul Hill
125
B-2
110
110

SUGGESTIONS OFFERED:

RICK SCHWARTZ Anchor
Amanda Shellenberger Anchor
Todd Embury Dietrich
Tom Moon Dietrich

110
AS
110

ACTION TO BE TAKEN:

John Barrett Dietrich
John Wilson elder
Best Taper WATER CORP.
Bill Tapp

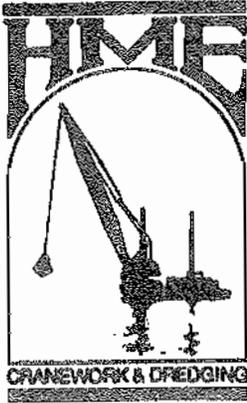
110
110

INJURIES/ACCIDENTS REVIEWED:

Mike Adams letter

FOREMAN'S SIGNATURE: Doug Larsen

SUPERVISOR'S REMARKS:	
SIGNATURE:	DATE:



HICKEY MARINE ENTERPRISES

6801 NW Old Lower River Road
Vancouver, WA 98660
(360) 695-4553 (503) 284-1140

M W TH F S S

Job Name T-4 offload Dallas Date 8-19-08

Job No. _____ Weather _____

Equipment: Sea Hawk Sea Vulture Sea Lion Viking 966 Loader Chetco
 Barge 174 Barge 34 BK5 Nova Barge 47 Barge Harvey A
 Manlift Other IT-28 Kobalt

Equipment Safety Checks Performed? Yes / No

Personal Protective Equipment Safety Checks Performed? Yes / No

Work performed today

06:00 - 06:10 Safety meeting
6:10 - 06:40 Fine-up mit material
06:40 - 15:40 load Trucks
15:40 - 16:00 Fuel - service

Extra work or delays (authorized by)

Sign _____

Project: T-4 Offload

Date: 8-19-08

Gallons of Diesel used 82.3

Barge Displacements

Start of shift (water Tank 30") Time: 0640

Load # (Barge Name)	Drafts		Tonnage
Load # 1	10.5	9.4	
Chetco	10.4	9.3	

End of shift (water Tank 41") Time: 1545

Load # (Barge Name)	Drafts		Tonnage
Load # 1	8.3	2.6	
Chetco	8.1	2.4	

of Gallons of
water pumped

1375 gallons

Total Tons
Offloaded

Diary (continued)

Date: 08/18/08

Report Number: 1

5:45 Arrive at site. Review field setup. Safety meeting (Doug Larsen, HME, West Coast Marine Cleaning) HME is expecting a new barge (Umpqua) this morning and hope to offload the first barge (Chetco) by noon.

5:55 66 degrees, rain and clouds

6:00 1st truck on loading pad, installing lining. (Truck 51)

6:05 Inspect BMPs. Filter fabric for loading pad is intact and clean. Filter fabric aprons on barges intact and clean.

6:08 Doug Larsen looked at first truck lining and made sure that the guy lining the truck is tucking the lining into the corners of the truck with plenty of extra plastic.

6:15 Begin loading first truck

6:28 1st truck covered and off. 2nd truck (46) on loading pad.

6:45 2nd truck covered and off. 3rd truck (41) on loading pad.

6:58 3rd truck covered and off. 4th truck (20) on loading pad.

7:15 4th truck covered and off. 5th truck (10) on loading pad.

7:31 5th truck covered and off. No trucks standing by.

7:38 One truck (51) back on site and installing liner.

7:50 6th truck (51) on loading pad.

8:05 6th truck covered and out. No trucks standing by.

8:06 The next barge is close and needs to tie up where the water quality crew is taking samples. They are done with 2/3 samples so they are going to move their boat to get out of the way of the barge coming in. The 2nd barge (Umpqua) will tie up to the downstream end of the Chetco barge so they can begin pumping off water.

8:10 Umpqua arrived. Lots of water on surface of sediment. Still no trucks onsite.

8:22 Two trucks back on-site and waiting for liners. (41 and 20)

8:30 1st load of drying agent arrives...steaming as it is unloaded. (46)

8:36 7th truck (41) on loading pad.

8:48 7th truck covered and out. 8th truck (20) on loading pad.

9:00 8th truck covered and out.

9:04 9th truck (10) on loading pad. Clam shell is down for maintenance welding. (See photo) HME has started pumping off excess water from the 2nd barge (Umpqua)

9:17 9th truck covered and out. Clam shell is working again.

9:20 10th truck (46) on loading pad.

9:37 10th covered and out. See pictures of liner, staying in place better today. No trucks on site. Doug Larsen thinks that Chetco will be unloaded by 10:30 or 11 then they will move the Umpqua in. Raining hard but no visible sheet flow on site. Most runoff drains toward drying agent stockpile, no ponding is visible.

9:45 No further offloading until trucks are back on-site. Water Quality crew is going to wait to take the next sample until offloading begins again.

9:48 2nd load of drying agent arrives on site (51)

10:06 Another truck is back on-site. Drivers report big lineup of trucks at landfill.

10:12 11th truck on loading pad. (41)

10:15 Offloading begins again.

10:22 11th truck covered and out. 12th truck on loading pad (51)

10:30 12th truck covered and out. 13th truck on loading pad (20)

10:31 Some rain showers, mostly cloudy, blue sky showing through. 71 degrees F.

10:49 13th truck covered and out. 14th truck on loading pad (10)

11:00 Confirmed with Doug Larsen that if any ponding of stormwater occurs, it will be pumped into holding tank. Chetco barge is expected to move by 12 noon, so water quality crew is going to sample as soon as Umpqua barge has been moved in and it is safe to get back into position.

11:06 14th truck covered and out. No further trucks on-site.
11:10 3rd load of drying agent arrives on site. (46) Doug Larsen says there are only 5 trucks looping right now because they sent one truck to Vancouver for "fluff".
11:20 Drying agent unloaded from pup and they are lining it while they unloaded the drying agent from the main truck. Truck 46 is the only truck onsite.
11:31 15th truck (46) on loading pad.
11:42 15th truck covered and out. 16th truck on loading pad (51)
11:56 16th truck covered and out. 17th truck (41) on loading pad.
12:08 17th truck covered and out. 18th truck on loading pad. (20)
12:16 18th truck covered and out. 19th truck on loading pad (19) First load of day for 19
12:25 19th truck covered and out. 20th truck installing liners (10)
12:33 20th truck on loading pad.
12:40 Wasco County tank truck arrives to empty holding tank and backs into position on east corner of site near river.
12:43 20th truck covered and out. No trucks waiting.
12:50 Last clam shell load from Chetco barge. Clam shell in place on deck of Chetco barge, ready to move barge. Loading bin is full ready to load into trucks.
12:55 Transfer of liquid from holding tank to truck is finished.
1:09 Chetco barge moved out from shore and Umpqua in place.
1:11 First clam shell of drying agent transferred to Umpqua. Slight dust cloud while placing material. Truck 51 back on site.
1:15 21st truck on loading pad (51)
1:19 4th load of drying agent arrives. (46)
1:25 Chetco barge headed back down river.
1:26 21st truck covered and out.
1:33 Fuel truck arrives.
1:36 Fuel truck leaves.
1:39 22nd truck on loading pad (41)
1:59 22nd truck covered and out. 23rd truck (20) on loading pad. First clam shell load from Umpqua offloaded into loading bin. Still some Chetco sediment in loading bin.
2:08 23rd truck covered and out. Wasco County tank truck arrives on site. 24th truck (46) on loading pad.
2:15 Wasco County tank truck backs into position. Overcast and 80 degrees F
2:26 24th truck covered and out. 25th truck (19) on loading pad.
2:32 Wasco County tank truck leaves site.
2:34 Delivery of additional truck bed liners.
2:42 25th truck covered and out.
2:44 26th truck (10) on loading pad.
2:54 26th truck covered and out. 27th truck on loading pad (51)
3:03 4th load of drying agent arrives on site (Truck 13). This came straight from Camas and HME says this stuff works better. This is the lighter color drying agent and it doesn't create as much dust and has no noticeable odor. 27th truck covered and out. No trucks waiting.
3:13 Truck 41 back on-site and installing liners.
3:22 28th truck (41) on loading pad. Wasco County tank truck in position for third time.
3:38 28th truck covered and out. 29th truck (20) on loading pad.
3:47 29th truck covered and out. No trucks waiting. Wasco County tank truck full and leaving. Received verbal clearance from John Verduin to stage truck arrivals tomorrow morning and conduct separate safety meetings as drivers arrive so trucks aren't sitting idle on-site waiting for first load. Dean Large from Waste Connections on-site to talk to Doug Larsen about schedule. The trucks are going late today. HME planning to finish

offloading the Umpqua barge on Friday evening. Saturday should be an early day 2:30 or 3pm if all goes as planned. Dean asked if Anchor was taking water quality samples and since the crew was out there when he was there, he put on a PFD and went out on the barge to take pictures of the water quality monitoring effort.

- 4:00 5th load of drying agent arrives. This is the dark, fine material again. (46)
- 4:09 30th truck on loading pad (19)
- 4:17 30th truck covered and out.
- 4:23 31st truck on loading pad. (51)
- 4:30 Light rain 76 degrees F grey skies
- 4:35 31st truck covered and out. 32nd truck (46) on loading pad.
- 4:50 32nd truck covered and out.
- 4:57 33rd truck on loading pad. (41)
- 5:10 33rd truck covered and out.
- 5:15 Offloading done for the day. Pack up and leave the site. Safety meeting tomorrow morning at 5:45am.

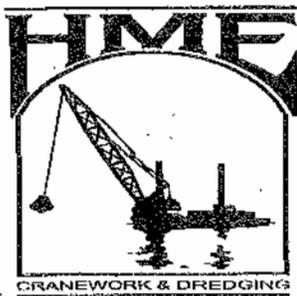
Rick Schwarz/Amada Shellenberger

Resident Engineer

Rick Schwarz

Project Engineer

]



DAILY QUALITY CONTROL REPORT

Daily Report No. 3

Date: 8/20/08 wed

Contract No. _____

Project Title: P.O.P. T4 off load

Location: The Dalles

Weather: overcast - showers

Temperature: 75° Min. _____ Max

1. Contractor/Subcontractors and Area of Responsibility:

NUMBER	TRADE	HOURS	EMPLOYER	LOCATION/DESCRIPTION OF WORK
<u>4</u>	<u>operators</u>		<u>HME</u>	<u>Derrick crew -</u>
<u>6</u>	<u>T/R Drivers</u>		<u>D/R Dietrich</u>	<u>Dump Truck from The Dalles to land fill</u>
<u>2</u>	<u>west coast marine</u>		<u>ground crew</u>	<u>Line Dump Trucks - clean up</u>

2. Operating Plant or Equipment. (Not Hand Tools)

Plant/Equipment	Date of Arrival/Departure	Date of Safety Check	Hours Used	Hours Idle	Hours Repair
<u>SEA VULTURE</u>	<u>0600 -</u>	<u>8/20/08</u>	<u>10 1/2</u>	<u>1/2</u>	<u>1/2</u>
<u>EXCAVATOR</u>	<u>0600 -</u>	<u>8/20/08</u>	<u>11 1/2</u>		

1. Work performed today: (Indicate location and description of work performed by prime and/or subcontractors by letter in table above).

Resume unloading Chetco - switch barges at 1330 - began unloading Barge Unpqua - Pump water on bow end - 3 loads of water hauled to landfill via waste collection truck

2. Results of control activities: (Indicate whether P - Preparatory, I - Initial, or F - Follow-up phase. When a P or I meeting is conducted, complete attachment 1-A or 1-B, respectively. When network analysis system is used, identify work by use of I-J numbers.

[Handwritten mark]

3. Test performed as required by plans and/or specifications:

By others - (water quality)

4. Material received:

2 pallets of visqueen for Truck lining

5. Submittals Reviewed:

(a) Submittal No.	(b) Spec/Plan Reference	(c) By Whom	(d) Action
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

6. Offsite surveillance activities, including action taken:

7. Job Safety: (Report violations; corrective instructions given; corrective actions taken).

safety meeting held in A.M.

8. Remarks: (Instructions received or given. Conflict(s) in plans and/or specifications).

Contractor's Verification: On behalf of the Contractor, I certify this report is complete and correct, and all materials and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as noted above.

Dong Lee
Authorized CQC Rep at Site

8/20/08
Date



T-4/ The Dalles Offload Site Daily Inspection Checklist

Date 8/20/08

1) Safety Meeting:

Agenda: Lining of Trucks - Tripping & slippery conditions on Trucks & Barges.

Attendees:

[Signature]
Brett Gianella
Barbara Forberg
DAVID R EVAUS
Amanda Shellenberger
Bret Tucker

GREG CLARK
John Wilson
Rachel J. [Signature]
Todd Embury
Aaron Webb
John Moody
Darrel Ivie

Derrick SEAHORSE

Derrick Sea Vulture

2) Crane Inspection:

"Attach Operator Log/Inspection Log" every FRIDAY A weekly rpt

3) Plant Inspection

Deficiencies:	Date	Date Corrected
<u>clam bucket chain pin broke - repaired</u>	<u>8/20/08</u>	<u>8/20/08</u>

4) Staff Gage Check

Time	Tideboard	Tide Track

5) Main Fuel Tank Levels

Port Starboard

Height _____
Gallons _____
Consumption per day 49

6) Survey Dual
Fuel MM
Port _____
Starboard _____

Hull Depth _____
Sound Velocity _____
Latency _____

Dual
X _____
Y _____

Control Point
X _____
Y _____

7) Dredge Material Weight _____ pounds per cubic foot

8) Dredge Boom Tip Verification
X _____
Y _____
Control Point
X _____
Y _____

9) Containment and Truck Load Area
Clean Dust Suppression
Fabric Spill Plates

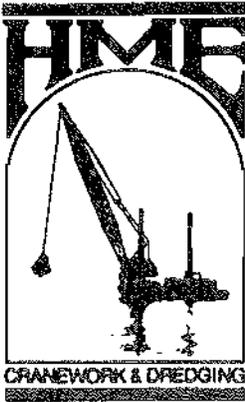
10) Lash Barge: Draft PB _____ SB _____
Keep within 2 ft of trim PS _____ SS _____

Tank Sounding #1 _____ #3 _____
#2 _____ #4 _____

11) Baker Tank Level #1 6 125 gal #2 _____
Pumped off computer

*23.95' tons water transported
to S.D.S.!!*

12) De con Stations
Clean
Inventory



HICKEY MARINE ENTERPRISES

6801 NW Old Lower River Road
 Vancouver, WA 98660
 (360) 695-4553 (503) 284-1140

M	T	W	TH	F	S	S
---	---	---	----	---	---	---

Job Name 14 Westport Docks Date 7/20/06

Job No. _____ Weather _____

Equipment: Sea Hawk Sea Vulture Sea Lion Viking 966 Loader Chetco
 Barge 174 Barge 34 BK5 Nova Barge 47 Barge Harvey A
 Manlift Other 27 26 24 28

Equipment Safety Checks Performed? Yes / No

Personal Protective Equipment Safety Checks Performed? Yes / No

Work performed today

08:00 - 08:15 check out truck, dump
 08:15 - 08:30 set out on site, locate
 08:30 - 08:45 move B frame, reposition
 08:45 - 09:00 load truck
 09:00 - 09:15 fix chain on bucket
 09:15 - 09:30 load truck
 10:00 - 10:15 switch knives, check low suspension
 10:15 - 10:30 set out on site, reposition
 10:30 - 10:45 finish

Extra work or delays (authorized by) _____

Sign _____

Project: T-4 Offload

Date: 5-20-08

Gallons of Diesel used 49 gal

Barge Displacements

Start of shift (water Tank 41") Time: 1130

Load # (Barge Name)	Drafts		Tonnage
Load #2	9.7	9.7	
Umpqua	9.9	9.9	

End of shift (water Tank 40") Time: 1210
(Shipped 3 truck loads for 50" total)

Load # (Barge Name)	Drafts		Tonnage
Load #2	10.5	9.9	
Umpqua	7.2	6.7	

of Gallons of
water pumped

6125 gallons
(Umpqua)

Total Tons
Offloaded

Project: T-4 Offload

Date: 8-20-08

Gallons of Diesel used 49 gals.

Barge Displacements

Start of shift (water Tank 41") Time: 0640

Load # (Barge Name)	Drafts		Tonnage
Load # 1	10.5	9.4	
Chetco	10.4	9.3	

End of shift (water Tank 41") Time: 1230

Load # (Barge Name)	Drafts		Tonnage
Load # 1	3.3	3.4	
Chetco (Empty)	4.1	4.2	

Time: 1245

of Gallons of
water pumped

Total

Diary (continued)

Date: 08/18/08

Report Number: 1

-
- 5:45 Arrive at site. Review field setup. Safety meeting (Doug Larsen, HME, West Coast Marine Cleaning) Safety meeting topics were hydration in the heat and coordination between excavator and crane. Three loads of drying agent are expected this morning about 9am.
- 5:55 66 degrees, partly cloudy. HME installing new filter fabric on site especially in front of drying agent loading area.
- 6:04 1st truck on loading pad. (46)
- 6:13 1st truck covered and out. 2nd truck on loading pad (51)
- 6:25 2nd truck covered and out. 3rd truck just arriving on site (41) and installing liners.
- 6:33 3rd truck (41) on loading pad.
- 6:40 3rd truck covered and out. 4th truck (19) on loading pad.
- 6:46 4th truck covered and out. 5th truck (20) on loading pad.
- 7:05 5th truck covered and out. 6th truck (10) on loading pad. Spoke to Doug Larsen about a small dropping of sediment from the clam shell dredge missing the fabric apron on the way back to the Umpqua. He said he would talk to the crane operator about being more careful with his path and may also add additional filter fabric to widen the apron.
- 7:17 6th truck covered and out. No trucks waiting.
- 7:24 7th truck back onsite and installing liners. (46)
- 7:31 7th truck on loading pad.
- 7:40 7th truck covered and out. 8th truck (51) on loading pad.
- 7:50 8th truck covered and out. No trucks waiting.
- 7:57 9th truck back on-site and installing liners (41)
- 8:03 9th truck on loading pad (41)
- 8:14 9th truck covered and out. 10th truck on loading pad. (19)
- 8:24 10th truck covered and out. 1st load of drying agent (white stuff from Camas) arrives on site. HME is putting new filter fabric down on the loading pad while no trucks are here.
- 8:40 2nd load of drying agent arrives (also white stuff).
- 8:43 11th truck on loading pad (10)
- 8:58 11th truck covered and out.
- 9:10 12th truck on loading pad. (46) Walked up to entrance of site with Doug Larsen because the most recent truck of drying agent tracked dust onto site. The road near the entrance has some loose dirt on it but it appears to have been tracked from the Dalles Rodeo site across the street, most likely when the Circus left town in the early morning hours yesterday during heavy rain (they were gone by 6am). Truck tracks show that the trucks leaving the Rodeo site made wide right hand turns coming up onto the sidewalk adjacent to the transloading site. The rodeo site is unpaved. The trucks leaving the site do not appear to be tracking any dirt offsite. While Doug and I were standing there, a truck and pup from a different project drove by with a dirt load and the dust cloud was visible and got into our eyes.
- 9:14 Dean Large from Waste Connections stopped by to check on progress.
- 9:28 12th truck covered and out. 13th truck on loading pad. (51) Spoke to Doug Larsen about better estimate for gallons per inch of water in the holding tank. They had previously estimated about 125 gallons per inch, but they sent 50 inches to the landfill yesterday with a total weight of 23.95 tons. Assuming 8.34 pounds per gallon, this works out to 5,743 gallons in 50 inches, which is approximately 115 gallons per inch of water in the tank. The daily summaries from this day forward will use this estimate to calculate amount of water pumped.
- 9:36 13th truck covered and out.
- 9:42 14th truck on loading pad (22)
- 9:51 14th truck covered and out. 15th truck on loading pad (20)
-

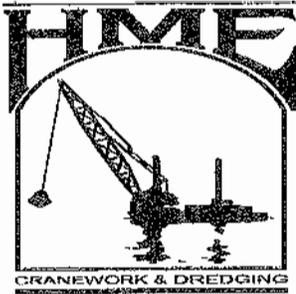
10:00 15th truck covered and out. 16th truck on loading pad. (41)
10:09 16th truck covered and out.
10:24 17th truck on loading pad (19)
10:33 17th truck covered and out. 18th truck on loading pad (10)
10:44 18th truck covered and out. 19th truck on loading pad. (46)
10:53 19th truck covered and out. Sunny and 70 degrees
10:56 20th truck (51) on loading pad.
11:97 20th truck covered and out. Truck 20 just arrived and getting liners installed.
11:15 21st truck (20) on loading pad. Tug Boat arrived and tied off on the back of the Umpqua. Water Quality crew was out doing monitoring and had to stop and get out of the way. Tug Boat crew states they are getting gas and taking off garbage and will be there for a few hours. Water Quality crew will sample behind them. (Still in the correct location, just with a tug boat in the way between them and the Umpqua.)
11:24 21st truck covered and out. 22nd truck on loading pad (22).
11:37 22nd truck covered and out.
11:44 23rd truck on loading pad. (41)
11:53 23rd truck covered and out. 24th truck on loading pad (19)
11:59 24th truck covered and out. No further trucks on site. Nathan Soccorsy arrives on site.
12:11 25th truck on loading pad. (10)
12:26 25th truck covered and out. 26th truck on loading pad (51)
12:31 3rd and 4th loads of drying agent arrive on site. One truck (45) has the white Camas drying agent and the other (46) has the finer brown drying agent.
12:40 26th truck covered and out.
12:57 HME is modifying the apron the covers the gap between the loading bin and the trucks in order to be more protective and sturdy. HME also put more filter fabric down and replaced dirty filter fabric in front of drying agent storage area.
1:02 27th truck (20) on loading pad.
1:16 27th truck covered and out.
1:30 28th truck (46) on loading pad.
1:40 28th truck covered and out. Fuel truck onsite.
1:46 Fuel truck leaves site. 29th truck on loading pad. (22)
2:05 29th truck covered and out. More filter fabric laid down just east of loading pad. 30th truck on loading pad. (41)
2:10 30th truck pulled up off loading pad so that HME could further repair and reinforce the apron that covers the gap between the loading bin and the trucks.
2:25 Repairs complete and 30th truck covered and out.
2:30 31st truck (19) on loading pad.
2:38 31st truck covered and out.
2:41 32nd truck (51) on loading pad.
2:53 32nd truck covered and out.
2:55 33rd truck on loading pad (10)
3:02 33rd truck covered and out. Doug Larson noticed that sometimes when the trucks pull up off the loading pad and stop to cover their load, the tarps sometimes have dust/dirt on them which is getting on the ground. He changed the protocol so that trucks have to cover their load while they are the loading pad to avoid this in the future. Also, sweeper is coming tomorrow morning and when the sweeper/vacuum is done, he will dump his load on site near the drying agent stock pile (on filter fabric) so that it can be loaded into the next truck and taken to the landfill.
3:10 Dave Godel from HME came out and took air quality readings at 2:15 and 3pm all over the site, including during the time when they are moving drying agent. The highest reading was 0.081 and the action level is 1.5 so the air quality is well within limits.

3:13 34th truck (20) on loading pad.
3:25 34th truck covered and out. 35th truck (46) on loading pad
3:40 35th truck covered and out.
3:45 36th truck (22) on loading pad. This will be the last truck of the day because the barge is almost empty and they want to keep it continuous tomorrow morning. They are trying to speed the barge up the river so they can get the water pumped off quickly and get it ready to offload by about 8 or 9am.
4:03 36th truck covered and out.
4:05 Start time tomorrow 5:45. Clean up and leave site.

Amanda Shellenberger/Nathan Soccorsy
Resident Engineer

Rick Schwarz
Project Engineer

]



DAILY QUALITY CONTROL REPORT

Daily Report No. 4

Date: 8/21/08 THURS

Contract No. _____

Project Title: T4 off load

Location: The Dalles

Weather: OVERCAST

Temperature: _____ Min. _____ Max

1. Contractor/Subcontractors and Area of Responsibility:

NUMBER	TRADE	HOURS	EMPLOYER	LOCATION/DESCRIPTION OF WORK
<u>4</u>	<u>operators</u>		<u>HME</u>	<u>Perrick crew - off loading</u>
<u>6</u>	<u>Truck Drivers</u>		<u>Dietrich</u>	<u>hauling spoils to LANDFILL</u>
<u>2</u>	<u>Laborers</u>		<u>WEST COAST MACHINE</u>	<u>Beach clean up - lining Trucks</u>

2. Operating Plant or Equipment. (Not Hand Tools)

Plant/Equipment	Date of Arrival/Departure	Date of Safety Check	Hours Used	Hours Idle	Hours Repair
<u>Sea Vulture</u>	<u>0600</u>	<u>8/21/08</u>			
<u>230 excavator</u>	<u>0600</u>	<u>8/21/08</u>			
<u>6 Dump Trucks</u>	<u>0600</u>	<u>8/21/08</u>			

1. Work performed today: (Indicate location and description of work performed by prime and/or subcontractors by letter in table above).

Resume unloading Barge Umpgum -
Replaced fabric on truck path - resecure fabric on truck shield
No water was transported today

2. Results of control activities: (Indicate whether P – Preparatory, I – Initial, or F – Follow-up phase. When a P or I meeting is conducted, complete attachment 1-A or 1-B, respectively. When network analysis system is used, identify work by use of I-J numbers.

It was observed that some tracking was appearing on city road out of gate - I believe wind erosion, tracking from neighbor across the road (circus) & foreign dump trucks hauling dirt to be part of problem - is trucks pick up their dirt bringing it into our facility

3. Test performed as required by plans and/or specifications:

Water Quality By Others

4. Material received:

5. Submittals Reviewed:

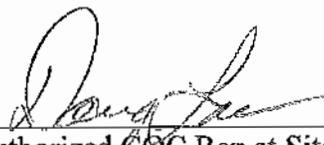
(a) Submittal No.	(b) Spec/Plan Reference	(c) By Whom	(d) Action
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

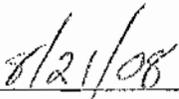
6. Offsite surveillance activities, including action taken:

7. Job Safety: (Report violations; corrective instructions given; corrective actions taken).

8. Remarks: (Instructions received or given. Conflict(s) in plans and/or specifications).

Contractor's Verification: On behalf of the Contractor, I certify this report is complete and correct, and all materials and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as noted above.


Authorized CQC Rep at Site


Date



Daily Inspection Checklist

Date 8/21/08 Thurs

1) Safety Meeting:

Agenda: Hy Drate - HAZMAT suit Dehydration

Attendees:

[Signature]
[Signature]
[Signature]
[Signature]
[Signature]

[Signature]
[Signature]
GREG CLARK
[Signature]
[Signature]
[Signature]

Derrick SEAHORSE

Derrick Sea Vulture

2) Crane Inspection:

"Attach Operator Log/Inspection Log"

3) Plant Inspection

Deficiencies:	Date	Date Corrected
<u>ATTENDEES</u>		
<u>[Signature]</u>		
<u>[Signature]</u>		

4) Staff Gage Check

 N/A

Time	Tideboard	Tide Track

5) Main Fuel Tank Levels

Port Starboard

Height _____
Gallons _____
Consumption per day 64

6) Survey Boat Hull Depth _____ Boat _____
 Fuel Sound Velocity _____ X _____
 Latency _____ Y _____
 Port _____
 Starboard _____ Control Point
 X _____
 Y _____

7) Dredge Material Weight _____ pounds per cubic foot

8) Dredge Boom Tip Verification X _____
 Y _____
 Control Point X _____
 Y _____

9) Containment and Truck Load Area Clean Dust Suppression
 Fabric Spill Plates

10) Lash Barge: Draft PB _____ SB _____
 Keep within 2 ft of trim PS _____ SS _____
 Tank Sounding #1 _____ #3 _____
 #2 _____ #4 _____

11) Baker Tank Level #1 4/6" in tank @ 115 gpm per inch #2 _____
 805 gpm pumps in place - non transported

12) De con Stations Clean
 Inventory

Project: T-4 Offload

Date: 8-19-08

Gallons of Diesel used 82.3

Barge Displacements

Start of shift (water Tank 30") Time: 0640

Load # (Barge Name)	Drafts		Tonnage
Load # 1	10.5	9.4	
Chetco	10.4	9.3	

End of shift (water Tank 41") Time: 1545

Load # (Barge Name)	Drafts		Tonnage
Load # 1	8.3	2.6	
Chetco	8.1	2.4	

of Gallons of
water pumped

1375 gallons

Total Tons
Offloaded

1168.14

Project: T-4 Offload

Date: 8-21-08

Gallons of Diesel used 64

Barge Displacements

Start of shift (Water Tank 39") Time: 06:00

Load # (Barge Name)	Drafts		Tonnage
Load #2	10.5	9.9	
Umpqua	7.2	6.7	

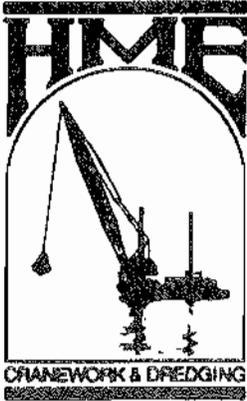
End of shift (Water Tank 46") Time: 16:30

Load # (Barge Name)	Drafts		Tonnage
Umpqua	5.2	6.3	
	4.5	4.5	

of Gallons of
water pumped

805

Total Tons
Offloaded



HICKEY MARINE ENTERPRISES

6801 NW Old Lower River Road
Vancouver, WA 98660
(360) 695-4553 (503) 284-1140

M T W T H F S S

Job Name T. H. ... Dredging Date 11/1/08

Job No. _____ Weather _____

- Equipment: Sea Hawk Sea Vulture Sea Lion Viking 966 Loader Chetco
- Barge 174 Barge 34 BK5 Nova Barge 47 Barge Harvey A
- Manlift Other 11' x 9' Barge

Equipment Safety Checks Performed? Yes / No _____

Personal Protective Equipment Safety Checks Performed? Yes / No _____

Work performed today _____

10:00 AM 11:00 AM 12:00 PM 1:00 PM 2:00 PM 3:00 PM

4:00 PM 5:00 PM 6:00 PM 7:00 PM 8:00 PM 9:00 PM

10:00 PM 11:00 PM 12:00 AM 1:00 AM 2:00 AM 3:00 AM

4:00 AM 5:00 AM 6:00 AM 7:00 AM 8:00 AM 9:00 AM

Extra work or delays (authorized by) _____

Sign _____

HICKEY MARINE ENTERPRISES, INC.

PORT OF PORTLAND T-4

DATE 08/21/08

DATE	TICKET #	MATERIAL	WEIGHT
8/21/2008	12607	SPEC-OTH	33.15
8/21/2008	12611	SPEC-OTH	34.88
8/21/2008	12614	SPEC-OTH	34.15
8/21/2008	12615	SPEC-OTH	31.75
8/21/2008	12620	SPEC-OTH	34.03
8/21/2008	12621	SPEC-OTH	31.38
8/21/2008	12623	SPEC-OTH	33.04
8/21/2008	12624	SPEC-OTH	34.82
8/21/2008	12627	SPEC-OTH	33.16
8/21/2008	12629	SPEC-OTH	31.85
8/21/2008	12635	SPEC-OTH	26.87
8/21/2008	12637	SPEC-OTH	33.31
8/21/2008	12639	SPEC-OTH	33.46
8/21/2008	12644	SPEC-OTH	33.41
8/21/2008	12643	SPEC-OTH	35.34
8/21/2008	12646	SPEC-OTH	34.80
8/21/2008	12648	SPEC-OTH	33.50
8/21/2008	12651	SPEC-OTH	32.77
8/21/2008	12654	SPEC-OTH	32.91
8/21/2008	12659	SPEC-OTH	33.17
8/21/2008	12664	SPEC-OTH	34.30
8/21/2008	12670	SPEC-OTH	32.96
8/21/2008	12671	SPEC-OTH	32.40
8/21/2008	12674	SPEC-OTH	24.97

8/21/2008	12676	SPEC-OTH	33.99
8/21/2008	12681	SPEC-OTH	34.12
8/21/2008	12683	SPEC-OTH	32.66
8/21/2008	12685	SPEC-OTH	33.64
8/21/2008	12688	SPEC-OTH	32.93
8/21/2008	12689	SPEC-OTH	33.26
8/21/2008	12692	SPEC-OTH	33.40
8/21/2008	12693	SPEC-OTH	33.60
8/21/2008	12695	SPEC-OTH	32.05
8/21/2008	12697	SPEC-OTH	33.60
8/21/2008	12703	SPEC-OTH	34.71
8/21/2008	12700	SPEC-OTH	33.90
TOTAL TONS			1188.24

Diary (continued)

Date: 08/22/08

Report Number: 1

5:45 Arrive at site. Review field setup. Safety meeting (Doug Larsen, HME, West Coast Marine Cleaning) Contractor coordination discussed such as the tarping strategy. Several loads of drying agent are expected this morning.

5:55 56 degrees, calm and clear. Operations start up.

6:05 1st truck on loading pad. (46)

6:15 1st truck covered and out.

6:16 Maintenance is performed on the loading transition tarp

6:21 2nd truck on loading pad (51)

6:29 3rd truck (41) on loading pad.

6:31 2nd truck covered and out.

6:42 3rd truck covered and out.

6:52 4th truck (22) on loading pad.

7:05 4th truck covered and out. 5th truck (20) on loading pad.

7:12 5th truck covered and out. 6th truck (10) on loading pad.

7:22 6th truck covered and out. No trucks waiting.

7:23 Repair is required on the main crane bucket

7:47 Repair is completed

7:48 Truck 46 arrives with a load of the fine drying agent

8:00 The barge Reedsport arrives onsite and begins dewatering

8:04 7th (51) truck on loading pad.

8:10 7th truck covered and out. 8th truck (46) on loading pad.

8:18 8th truck covered and out.

8:23 9th truck on loading pad (41)

8:26 T45 arrives with a load of drying agent (course material.)

8:47 9th truck covered and out.

8:55 10th truck on loading pad. (20)

8:58 69 degrees clear and calm

9:02 10th truck covered and out.

9:03 T19 arrives with a load of drying agent (course material.)

9:14 Wasco County Landfill (WCL) water truck onsite

9:17 11th truck on loading pad (26)

9:26 11th truck covered and out. 12th truck on loading pad. (10)

9:31 WCL truck leaves site

9:35 12th truck covered and out.

9:37 T13 arrives with a load of drying agent (course material.)

9:40 13th truck on loading pad. (51)

9:49 13th truck covered and out. 14th truck on loading pad (46)

9:56 14th truck covered and out.

10:15 15th truck on loading pad (41)

10:24 15th truck covered and out. 16th truck on loading pad. (20)

10:33 WCL truck arrives onsite

10:35 16th truck covered and out.

10:24 17th truck on loading pad (22)

10:56 WCL truck leaves site

11:04 17th truck covered and out. 18th truck on loading pad (51)

11:06 The barge Umpqua is replaced in the loading position with the barge Reedsport

11:15 18th truck covered and out.

11:23 The Umpqua departs downriver

11:40 75 degrees and clear

11:48 19th truck on loading pad. (46)

11:55 19th truck covered and out. 20th truck (41) on loading pad. WCL truck arrives onsite.
12:04 Re-fueling truck arrives onsite
12:06 20th truck covered and out.
12:08 Re-fuel front loader
12:13 Re-fuel truck leaves site
12:14 Maintenance welding performed on loading transition tarp
12:17 WCL water truck leaves site
12:21 21st truck (21) on loading pad.
12:28 21st truck covered and out. 22nd truck on loading pad (22).
12:40 22nd truck covered and out. Discussed clean up of truck loading area with Doug Larson. Doug indicated that the sweeper truck would arrive later in the day and we should review the area after the sweeper went through.
12:43 23rd truck on loading pad. (51)
12:55 23rd truck covered and out. 24th truck on loading pad (21)
12:58 Received a call from water quality group indicating that all sample stations were compliant
1:05 24th truck covered and out.
1:10 25th truck on loading pad. (46)
1:20 25th truck covered and out.
1:37 Sweeper arrives
1:39 26th truck on loading pad (26)
1:45 26th truck covered and out.
2:15 Sweeper clean up complete. I discussed the result of the clean up with Doug Larson and we agreed that it was satisfactory.
2:19 27th truck (22) on loading pad.
2:30 27th truck covered and out. 28th truck (51) on loading pad.
2:37 28th truck covered and out. 29th truck on loading pad. (41)
2:49 29th truck covered and out.
3:03 30th truck on loading pad. (21)
3:06 T46 arrives with drying agent (fine material)
3:15 30th truck covered and out
3:36 31st truck (46) on loading pad. 80 degrees and clear
3:44 31st truck covered and out. 32nd truck (51) on loading pad.
3:53 32nd truck covered and out. 33rd truck on loading pad (22)
4:05 33rd truck covered and out.
4:08 34th truck (41) on loading pad.
4:22 34th truck covered and out.
~5:00 T46 delivers drying agent

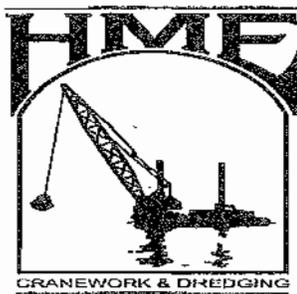
Nathan Soccorso

Resident Engineer

Rick Schwarz

Project Engineer

]



DAILY QUALITY CONTROL REPORT

Daily Report No. 5

Date: 8/22/08 Fri

Contract No. _____

Project Title: Ty P.O.P. OFF LOAD

Location: The Dalles

Weather: _____

Temperature: _____ Min. _____ Max

1. Contractor/Subcontractors and Area of Responsibility:

NUMBER	TRADE	HOURS	EMPLOYER	LOCATION/DESCRIPTION OF WORK
<u>4</u>	<u>operators</u>	_____	<u>HME</u>	<u>Derrick crew - off load barges</u>
<u>6</u>	<u>Truck Drivers</u>	_____	<u>Over Pictch</u>	<u>transport spoils to waste dump</u>
<u>2</u>	<u>balancers</u>	_____	<u>unidentified</u>	<u>load trucks (over area)</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

2. Operating Plant or Equipment. (Not Hand Tools)

Plant/Equipment	Date of Arrival/Departure	Date of Safety Check	Hours Used	Hours Idle	Hours Repair
<u>535 derrick</u>	<u>8/20</u>	<u>8/22/08</u>	<u>10</u>	_____	<u>1/2</u>
<u>280 excavator</u>	<u>8/20</u>	<u>8/22/08</u>	<u>10</u>	_____	_____
<u>6 wheel trucks</u>	<u>8/20</u>	<u>8/22/08</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

1. Work performed today: (Indicate location and description of work performed by prime contractor or subcontractors by letter in table above).

Resume unloading Barge Doffgen - will finish in 2007. - Felt need's at excavator swept (hours) in A.M. - Parking lot is to be swept w/ commercial sweeper this morning - sweepings to be dumped in existing gravel area. Sweeper arrive at 1400 - 1430 DSE - Loading Area completely swept & new cloth. Loads of water were hauled to landfill via WASCO'S WATER TRUCK.

2. Results of control activities: (Indicate whether P - Preparatory, I - Initial, or F - Follow-up phase. When a P or I meeting is conducted, complete attachment 1-A or 1-B, respectively. When network analysis system is used, identify work by use of I-J numbers.

3. Test performed as required by plans and/or specifications:

Water Quality by others

4. Material received:

5. Submittals Reviewed:

(a) Submittal No.	(b) Spec/Plan Reference	(c) By Whom	(d) Action
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

6. Offsite surveillance activities, including action taken:

7. Job Safety: (Report violations; corrective instructions given; corrective actions taken).

*Operator was reminded that a safety harness is required
while working out beam to prevent fall incidents.*

8. Remarks: (Instructions received or given. Conflict(s) in plans and/or specifications).

Contractor's Verification: On behalf of the Contractor, I certify this report is complete and correct, and all materials and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as noted above.


Authorized CQC Rep at Site

8/22/08
Date



Daily Inspection Checklist

Date 8/22/08 Fri

1) Safety Meeting:

Agenda: Lining - Truck Tarping - 2 Trucks to Tarp at excavator
Notify Drivers about Sweeping Area w/sweeper

Attendees:

Dennis Forsberg
DAVID R EVANS
Nathan Jacobson
GREG CLARK
Todd Embury

Bret Tucker
Wendy
Paul
Doug
TOM MOODY
Aaron Webb
Tim Heas
John

Derrick SEAHORSE

Derrick Sea Vulture

2) Crane Inspection:

"Attach Operator Log/Inspection Log"

3) Plant Inspection

Deficiencies:

Date

Date Corrected

Richard & Greg

4) Staff Gage Check

Time

Tideboard

Tide Track

5) Main Fuel Tank Levels

Port

Starboard

Height _____

Gallons _____

Consumption per day 45 _____

6) Survey Boat



Fuel



Port

Starboard

Null Depth

Sound Velocity

Latency

Boat

X _____

Y _____

Control Point

X _____

Y _____

7) Dredge Material Weight



_____ pounds per cubic foot

8) Dredge Boom Tip Verification

X _____

Y _____

Control Point

X _____

Y _____

9) Containment and Truck Load Area

Clean



Dust Suppression



Fabric



Spill Plates



10) Lash Barge:

Keep within 2 ft of trim

Draft

PB _____

SB _____

PS _____

SS _____

Tank Sounding

#1 _____

#3 _____

#2 _____

#4 _____

11) Baker Tank Level

#1 _____

#2 _____

*gallons pumped into
on 09/21/2015*

3 loads of water loaded 26 = 26,02 Tons

12) De con Stations

Clean



Inventory



Wasco County Landfill
WASCO COUNTY LANDFILL
The Dalles, OR 97058

000245 Site 40
HICKEY MARINE ENTERPRISES Ticket 012737
PORT OF PORTLAND-LIQ Date In 08/22/08
6801 OLD LOWER RD Time In 09:59
VANCOUVER WA 98660 Date Out 08/22/08
Time Out 09:59

Weighmaster Linda Ref. WATER
Origin WASH ST Grid

DESCRIPTION

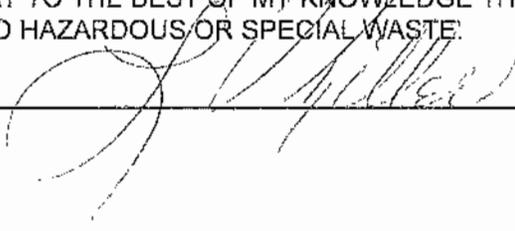
Scale 1 Gross Wt. 34720 LB Vehicle TRAIL.
Manual Tare Wt. 17360 LB Roll-Off
Net Wt. 17360 LB TON 8.68

LIQUIDS/SEMI-SOLIDS per TON

PO #
NOTE
DRIVER

BY SIGNING THIS, I CERTIFY THAT THIS DISPOSAL MATERIAL
ORIGINATED IN THE COUNTY/STATE AS STATED ABOVE. I ALSO
CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THIS LOAD
CONTAINS NO HAZARDOUS OR SPECIAL WASTE.

Signature _____



Wasco County Landfill
WASCO COUNTY LANDFILL
The Dalles, OR 97058

000245 Site 40
HICKEY MARINE ENTERPRISES Ticket 012752
PORT OF PORTLAND-LIQ Date In 08/22/08
6801 OLD LOWER RD Time In 11:18
VANCOUVER WA 98660 Date Out 08/22/08
Time Out 11:18

Weighmaster Linda Ref. WATER
Origin WASH ST Grid

DESCRIPTION

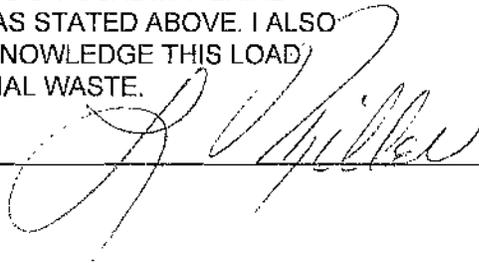
Scale 1 Gross Wt. 34300 LB Vehicle TRAIL
Manual Tare Wt. 17360 LB Roll-Off
Net Wt. 16940 LB TON 8.47

LIQUIDS/SEMI-SOLIDS per TON

PO #
NOTE
DRIVER

BY SIGNING THIS, I CERTIFY THAT THIS DIPOSAL MATERIAL
ORIGINATED IN THE COUNTY/STATE AS STATED ABOVE. I ALSO
CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THIS LOAD
CONTAINS NO HAZARDOUS OR SPECIAL WASTE.

Signature _____



Wasco County Landfill
WASCO COUNTY LANDFILL
The Dalles, OR 97058

000245 Site 40
HICKEY MARINE ENTERPRISES Ticket 012771
PORT OF PORTLAND-LIQ Date In 08/22/08
6801 OLD LOWER RD Time In 12:39
VANCOUVER WA 98660 Date Out 08/22/08
Time Out 12:39

Weighmaster Linda Ref. WATER
Origin WASH ST Grid

DESCRIPTION

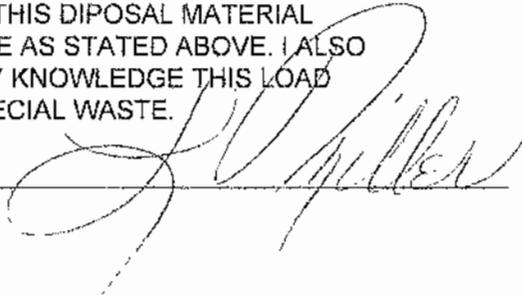
Scale 1 Gross Wt. 35100 LB Vehicle TRAIL.
Manual Tare Wt. 17360 LB Roll-Off
Net Wt. 17740 LB TON 8.87

LIQUIDS/SEMI-SOLIDS per TON

PO #
NOTE
DRIVER

BY SIGNING THIS, I CERTIFY THAT THIS DIPOSAL MATERIAL
ORIGINATED IN THE COUNTY/STATE AS STATED ABOVE. I ALSO
CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THIS LOAD
CONTAINS NO HAZARDOUS OR SPECIAL WASTE.

Signature _____



HICKEY MARINE ENTERPRISES, INC.**PORT OF PORTLAND T-4**

DATE 08/22/08

DATE	TICKET #	MATERIAL	WEIGHT
8/22/2008	12704	SPEC-OTH	32.66
8/22/2008	12708	SPEC-OTH	31.32
8/22/2008	12712	SPEC-OTH	33.08
8/22/2008	12715	SPEC-OTH	34.59
8/22/2008	12718	SPEC-OTH	32.91
8/22/2008	12719	SPEC-OTH	27.30
8/22/2008	12723	SPEC-OTH	32.89
8/22/2008	12725	SPEC-OTH	33.33
8/22/2008	12732	SPEC-OTH	33.75
8/22/2008	12734	SPEC-OTH	32.85
8/22/2008	12736	SPEC-OTH	33.61
8/22/2008	12739	SPEC-OTH	32.33
8/22/2008	12741	SPEC-OTH	34.25
8/22/2008	12743	SPEC-OTH	33.58
8/22/2008	12748	SPEC-OTH	34.02
8/22/2008	12749	SPEC-OTH	33.16
8/22/2008	12755	SPEC-OTH	35.41
8/22/2008	12757	SPEC-OTH	33.95
8/22/2008	12765	SPEC-OTH	32.97
8/22/2008	12770	SPEC-OTH	32.52
8/22/2008	12773	SPEC-OTH	33.06
8/22/2008	12780	SPEC-OTH	35.54
8/22/2008	12785	SPEC-OTH	35.10
8/22/2008	12786	SPEC-OTH	32.47
8/22/2008	12789	SPEC-OTH	32.44
8/22/2008	12793	SPEC-OTH	32.67
8/22/2008	12804	SPEC-OTH	37.11
8/22/2008	12805	SPEC-OTH	33.31
8/22/2008	12808	SPEC-OTH	33.08
8/22/2008	12822	SPEC-OTH	32.80
8/22/2008	12829	SPEC-OTH	32.16
8/22/2008	12830	SPEC-OTH	33.77
8/22/2008	12831	SPEC-OTH	36.32
8/22/2008	12832	SPEC-OTH	31.96
TOTAL TONS			1132.27

Project: T-4 Offload

Date: 8-22-01

Gallons of Diesel used 45 gal

Barge Displacements

Start of shift (water Tank 46") Time: 0910

Load # (Barge Name)	Drafts		Tonnage
Load #3 Reedspout	9.5	9.4	
	10.2	10.1	

End of shift (water Tank 21") Time: 17:00

Load # (Barge Name)	Drafts		Tonnage

of Gallons of
water pumped

3220

Total Tons
offloaded

Project: T-4 Offload

Date: 8-22-0

Gallons of Diesel used _____

Barge Displacements

Start of shift (water Tank 46") Time: 0700

Load # (Barge Name)	Drafts		Tonnage
Load #2	5.7	6.3	
Umpqua	4.5	4.5	

End of shift (water Tank 46") Time: 1115

Load # (Barge Name)	Drafts		Tonnage
Load #2	3.3	3.5	
Umpqua (Empty Ready to Ship)	3.5	3.7	

of Gallons of
water pumped

0

Total Tons
Offloaded for the DN 1132.37

Hickey Marine Enterprises
Daily Preventative Maintenance Checklist

MANITOWOC CRANE 4600

VISUAL CHECKS:

WEEK OF: 8-17-08

NO	ITEM TO BE CHECKED	INITIAL EACH ITEM AS CHECKED						
		DATE	8/18	8/19	8/20	8/21	8/22	8/23
1	Broken or cracked glass. Clean if needed.		G	G	G	G	G	G
2	Damaged or missing sheet metal, guards, gear, or chain case covers.		G	G	G	G	G	G
3	Drive chains & sprockets for cracked or broken pieces.		G	G	G	G	G	G
4	Oil or coolant leaking below rotating bed or car body.		G	G	G	G	G	G
5	Roller path, house rollers, hook rollers for chips or cracks.		G	G	G	G	G	G
6	Boom hoist, whip line & hoist wire rope - pendants - load blocks - sheaves.		G	G	G	G	G	G
7	Fuel tank(s) - fuel gauges - hoses & connections.		G	G	G	G	G	G
8	Limit devices - boom/mast stops - drum pawls.		G	G	G	G	G	G
9	Control valves - lever & linkage - instrument panel(s)		G	G	G	G	G	G
10	Fire extinguisher available in working order.		G	G	G	G	G	G
11	Drain air tank of water.		G	G	G	G	G	G
12	Inspect boom and gantry.		G	G	G	G	G	G
13	Check all brakes.		G	G	G	G	G	G

PREVENTATIVE MAINTENANCE CHECKLIST

NO	ITEM TO BE CHECKED	PROCEDURE	INITIAL EACH ITEM AS CHECKED						
			DATE	8/18	8/19	8/20	8/21	8/22	8/23
1	Radiator coolant	Check level, add when necessary		G	G	G	G	G	G
2	Controlled converter fluid	Check reservoir, add oil when necessary		G	G	G	G	G	G
3	Hydraulic system(s) level			G	G	G	G	G	G
4	Gear case lube	Check level, add when necessary		G	G	G	G	G	G
5	"Cuna" oil filter(s)	Turn handle TWICE DAILY		G	G	G	G	G	G
6	Engine oil	Check level, add oil when necessary		G	G	G	G	G	G
7	Transmission and/or chain case or reservoir			G	G	G	G	G	G
8	Rotating bed sump (drain off water daily)			G	G	G	G	G	G
9	Converter input and/or output housing(s)			G	G	G	G	G	G
10	Air compressor (air leaks, etc.)			G	G	G	G	G	G
11	Observe all gauges (working order)		N/A	N/A	N/A	N/A	N/A	N/A	N/A
12	Mancage inspection & test			G	G	G	G	G	G
13	Check for missing pins and/or bolts			G	G	G	G	G	G

DATE	ITEM OR DISCREPANCY	DATE CORRECTED	INITIAL
8/18/08	T-4 offload The Drilles - chetco		
8/20/08	13:00 unload manpoum		
8/22/08	11:30 unload Reedspont		
8/22/08	INSPECT BOOM + GANTRY		

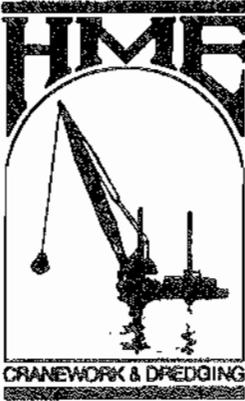
DATE 8-22 20 05 M T W T H F S S

OR X WA _____

PHASE	JOB #	Description Of Work	EMPLOYEE WORK HOURS														TOTAL MAN HOURS			
			ST	OT	ST	OT	ST	OT	ST	OT	ST	OT	ST	OT	ST	OT				
		7-4 OFF																		

EMPLOYEE NAME	ST	OT	COMBINED																	
																				DAILY TOTALS
Gene Carson																				
David Gonzalez																				
Daniel Evans																				
James Erickson																				

TYPE OF EQUIPMENT	NAME	MILEAGE OWED		TO/FROM		NAME	PER DIEM OWED		# OF DAYS
		ST	OT	ST	OT		ST	OT	
Sea Hawk									
Sea Vulture									
Sea Lion									
Viking									
Nova									
Materials Barge:									
Other:									
TOTALS									



HICKEY MARINE ENTERPRISES

6801 NW Old Lower River Road
 Vancouver, WA 98660
 (360) 695-4553 (503) 284-1140

M	T	W	TH	F	S	S
---	---	---	----	---	---	---

Job Name 171 m... .. Date 8-27-01

Job No. _____ Weather _____

- Equipment: Sea Hawk Sea Vulture Sea Lion Viking 966 Loader Chetco
 Barge 174 Barge 34 BK5 Nova Barge 47 Barge Harvey A
 Manlift Other 17 m... ..

Equipment Safety Checks Performed? Yes / No _____

Personal Protective Equipment Safety Checks Performed? Yes / No _____

Work performed today

0800 - 0900 171 m... ..

0900 - 1000 171 m... ..

1000 - 1100 171 m... ..

1100 - 1200 171 m... ..

1200 - 1300 171 m... ..

1300 - 1400 171 m... ..

1400 - 1500 171 m... ..

1500 - 1600 171 m... ..

1600 - 1700 171 m... ..

1700 - 1800 171 m... ..

1800 - 1900 171 m... ..

1900 - 2000 171 m... ..

2000 - 2100 171 m... ..

2100 - 2200 171 m... ..

2200 - 2300 171 m... ..

2300 - 2400 171 m... ..

Extra work or delays (authorized by) _____

Sign 171 m... ..

Diary (continued)

Date: 08/23/08

Report Number: 1

5:45 Arrive at site. Review field setup. Safety meeting (Doug Larsen, HME, West Coast Marine Cleaning) The discussion was about making sure that the trucks can see you especially when they are in reverse.

5:55 54 degrees, calm and clear. Operations start up.

6:01 1st truck on loading pad. (46)

6:10 1st truck covered and out. 2nd truck on loading pad (51)

6:21 2nd truck covered and out.

6:31 3rd truck (41) on loading pad.

6:43 3rd truck covered and out. 4th truck (22) on loading pad.

6:57 4th truck covered and out.

7:26 5th truck (20) on loading pad.

7:34 5th truck covered and out. 6th truck (51) on loading pad.

7:46 6th truck covered and out.

7:50 7th (41) truck on loading pad.

8:13 7th truck covered and out.

8:50 8th truck (51) on loading pad.

8:55 Discussed with Doug Larson the amount of debris is in the sediment. Doug indicated they made need to use a different bucket.

9:05 8th truck covered and out.

9:18 9th truck on loading pad (46)

9:30 9th truck covered and out.

9:45 10th truck on loading pad. (41)

9:57 10th truck covered and out. 11th truck on loading pad (51)

10:19 11th truck covered and out. 12th truck on loading pad. (22)

10:30 12th truck covered and out.

10:35 13th truck on loading pad. (46)

10:47 13th truck covered and out.

11:03 The barge that has been attached to the Sea Vulture is removed from site

11:12 14th truck on loading pad (41)

11:27 14th truck covered and out.

11:36 15th truck on loading pad (51)

11:48 15th truck covered and out. 16th truck on loading pad. (22)

12:04 16th truck covered and out. 17th truck on loading pad (46)

12:12 17th truck covered and out.

12:40 18th truck on loading pad (41)

12:57 18th truck covered and out

2:00 T46 delivers a load of drying agent

Nathan Soccorsy

Resident Engineer

Rick Schwarz

Project Engineer

]

Offloading Facility Tracking Log Terminal 4 Phase I Removal Action

Recorded at Transfer Station				Recorded at Landfill			Daily Total	Barge Total
Load	Date	Time Out	Truck No.	Barge	TICKET #	Tons	(tons)	(tons)
1.	8/18	11:00	N/A	Chetco	12349	33.17		
2.	8/18	N/A	N/A	Chetco	12353	33.07		
3.	8/18	N/A	N/A	Chetco	12357	23.12		
4.	8/18	12:10	N/A	Chetco	12359	32.50		
5.	8/18	N/A	N/A	Chetco	12362	32.00		
6.	8/18	12:28	N/A	Chetco	12364	32.72		
7.	8/18	N/A	N/A	Chetco	12366	33.03		
8.	8/18	13:30	N/A	Chetco	12371	26.14		
9.	8/18	13:45	N/A	Chetco	12374	33.65		
10.	8/18	N/A	N/A	Chetco	12379	31.68		
11.	8/18	14:25	N/A	Chetco	12384	32.99		
12.	8/18	14:47	N/A	Chetco	12389	32.45		
13.	8/18	15:43	N/A	Chetco	12391	30.29		
14.	8/18	15:58	8508	Chetco	12392	34.00	440.81	
<hr/>								
1.	8/19	6:43	51	Chetco	12400	31.53		
2.	8/19	6:58	41	Chetco	12402	34.07		
3.	8/19	7:08	20	Chetco	12403	32.39		
4.	8/19	7:21	10	Chetco	12407	34.22		
5.	8/19	7:35	19	Chetco	12408	36.22		
6.	8/19	7:48	46	Chetco	12409	33.55		
7.	8/19	8:27	51	Chetco	12413	32.32		
8.	8/19	8:53	41	Chetco	12420	33.26		
9.	8/19	9:05	20	Chetco	12421	32.70		
10.	8/19	9:40	10	Chetco	12425	37.34		
11.	8/19	9:57	19	Chetco	12430	32.56		
12.	8/19	10:15	51	Chetco	12432	34.10		
13.	8/19	10:44	41	Chetco	12436	32.61		
14.	8/19	10:58	46	Chetco	12439	32.58		
15.	8/19	11:12	20	Chetco	12441	32.80		
16.	8/19	11:29	10	Chetco	12444	27.86		
17.	8/19	11:45	19	Chetco	12448	33.18		
18.	8/19	12:49	41	Chetco	12461	34.89		
19.	8/19	13:03	20	Chetco	12463	32.24		
20.	8/19	13:28	10	Chetco	12465	29.46		
21.	8/19	13:41	51	Chetco	12466	32.83		
22.	8/19	13:56	19	Chetco	12469	32.60		
23.	8/19	14:11	46	Chetco	12470	33.20		
24.	8/19	14:31	41	Chetco	12475	31.42		
25.	8/19	14:55	20	Chetco	12479	32.27		
26.	8/19	15:13	10	Chetco	12483	33.33		
27.	8/19	15:28	51	Chetco	12485	35.32		
28.	8/19	15:42	19	Chetco	12488	33.15	924.00	
<hr/>								
1.	8/20	6:28	51	Chetco	12494	33.23		
2.	8/20	6:45	46	Chetco	12497	32.13		
3.	8/20	6:58	41	Chetco	12498	32.87		
4.	8/20	7:15	20	Chetco	12504	32.31		
5.	8/20	7:31	10	Chetco	12506	22.86		
6.	8/20	8:05	51	Chetco	12509	33.03		
7.	8/20	8:48	41	Chetco	12517	32.48		

Offloading Facility Tracking Log Terminal 4 Phase I Removal Action

Recorded at Transfer Station				Recorded at Landfill			Daily Total	Barge Total
Load	Date	Time Out	Truck No.	Barge	TICKET #	Tons	(tons)	(tons)
8.	8/20	9:00	20	Chetco	12522	32.97		
9.	8/20	9:17	10	Chetco	12541	32.70		
10.	8/20	9:37	46	Chetco	12540	32.31		
11.	8/20	10:22	41	Chetco	12545	32.64		
12.	8/20	10:30	51	Chetco	12550	27.52		
13.	8/20	10:49	20	Chetco	12555	34.05		
14.	8/20	11:06	10	Chetco	12554	32.58		
15.	8/20	11:42	46	Chetco	12559	32.85		
16.	8/20	11:58	51	Chetco	12560	33.70		
17.	8/20	12:08	41	Chetco	12562	32.83		
18.	8/20	12:16	20	Chetco	12565	32.97		
19.	8/20	12:25	19	Chetco	12572	33.66		
20.	8/20	12:43	10	Chetco	12578	33.46		
21.	8/20	1:26	51	Chetco	12579	32.62		
22.	8/20	1:59	41	Chetco	12591	32.21		
23.	8/20	2:08	20	Chetco/Umpqua	12587	33.05		2,105.84
24.	8/20	2:26	46	Umpqua	12588	27.90		
25.	8/20	2:42	19	Umpqua	12590	34.56		
26.	8/20	2:54	10	Umpqua	12595	35.35		
27.	8/20	3:03	51	Umpqua	12597	33.63		
28.	8/20	3:38	41	Umpqua	12599	32.81		
29.	8/20	3:47	20	Umpqua	12602	34.86		
30.	8/20	4:17	19	Umpqua	12604	32.26		
31.	8/20	4:35	51	Umpqua	12603	31.35		
32.	8/20	4:50	46	Umpqua	12606	24.78		
33.	8/20	5:10	41	Umpqua	12605	32.82	1,061.35	
1.	8/21	6:13	46	Umpqua	12607	33.15		
2.	8/21	6:25	51	Umpqua	12611	34.88		
3.	8/21	6:40	41	Umpqua	12614	34.15		
4.	8/21	6:46	19	Umpqua	12615	31.75		
5.	8/21	7:05	20	Umpqua	12620	34.03		
6.	8/21	7:17	10	Umpqua	12621	31.38		
7.	8/21	7:40	46	Umpqua	12623	33.04		
8.	8/21	7:50	51	Umpqua	12624	34.82		
9.	8/21	8:14	41	Umpqua	12627	33.16		
10.	8/21	8:24	19	Umpqua	12629	31.85		
11.	8/21	8:58	10	Umpqua	12635	26.87		
12.	8/21	9:28	46	Umpqua	12637	33.31		
13.	8/21	9:36	51	Umpqua	12639	33.46		
14.	8/21	9:51	22	Umpqua	12644	33.41		
15.	8/21	10:00	20	Umpqua	12643	35.34		
16.	8/21	10:09	41	Umpqua	12646	34.80		
17.	8/21	10:33	19	Umpqua	12648	33.50		
18.	8/21	10:44	10	Umpqua	12651	32.77		
19.	8/21	10:53	46	Umpqua	12654	32.91		
20.	8/21	11:07	51	Umpqua	12659	33.17		
21.	8/21	11:24	20	Umpqua	12664	34.30		
22.	8/21	11:37	22	Umpqua	12670	32.96		
23.	8/21	11:53	41	Umpqua	12671	32.40		

Offloading Facility Tracking Log Terminal 4 Phase I Removal Action

Recorded at Transfer Station				Recorded at Landfill			Daily Total (tons)	Barge Total (tons)
Load	Date	Time Out	Truck No.	Barge	TICKET #	Tons		
24.	8/21	11:59	19	Umpqua	12674	24.97		
25.	8/21	12:26	10	Umpqua	12676	33.99		
26.	8/21	12:40	51	Umpqua	12681	34.12		
27.	8/21	1:16	20	Umpqua	12683	32.66		
28.	8/21	1:40	46	Umpqua	12685	33.64		
29.	8/21	2:05	22	Umpqua	12688	32.93		
30.	8/21	2:25	41	Umpqua	12689	33.26		
31.	8/21	2:38	19	Umpqua	12692	33.40		
32.	8/21	2:53	51	Umpqua	12693	33.60		
33.	8/21	3:02	10	Umpqua	12695	32.05		
34.	8/21	3:25	20	Umpqua	12697	33.60		
35.	8/21	3:40	46	Umpqua	12703	34.71		
36.	8/21	4:03	22	Umpqua	12700	33.90	1,188.24	
1	8/22	6:15	46	Umpqua	12704	32.66		
2	8/22	6:31	51	Umpqua	12708	31.32		
3	8/22	6:42	41	Umpqua	12712	33.08		
4	8/22	7:05	22	Umpqua	12715	34.59		
5	8/22	7:12	20	Umpqua	12718	32.91		
6	8/22	7:22	10	Umpqua	12719	27.30		
7	8/22	8:10	51	Umpqua	12723	32.89		
8	8/22	8:18	46	Umpqua	12725	33.33		
9	8/22	8:47	41	Umpqua	12732	33.75		
10	8/22	9:02	20	Umpqua	12734	32.85		
11	8/22	9:26	26	Umpqua	12736	33.61		
12	8/22	9:35	10	Umpqua	12739	32.33		
13	8/22	9:49	51	Umpqua	12741	34.25		
14	8/22	9:56	46	Umpqua	12743	33.58		
15	8/22	10:24	41	Umpqua	12748	34.02		
16	8/22	10:35	20	Umpqua/Reedsport	12749	33.16		2,034.19
17	8/22	11:04	22	Reedsport	12755	35.41		
18	8/22	11:15	51	Reedsport	12757	33.95		
19	8/22	11:55	46	Reedsport	12765	32.97		
20	8/22	12:06	41	Reedsport	12770	32.52		
21	8/22	12:28	21	Reedsport	12773	33.06		
22	8/22	12:40	22	Reedsport	12780	35.54		
23	8/22	12:55	51	Reedsport	12785	35.10		
24	8/22	1:05	21	Reedsport	12786	32.47		
25	8/22	1:20	46	Reedsport	12789	32.44		
26	8/22	1:45	26	Reedsport	12793	32.67		
27	8/22	2:30	22	Reedsport	12804	37.11		
28	8/22	2:37	51	Reedsport	12805	33.31		
29	8/22	2:49	41	Reedsport	12808	33.08		
30	8/22	3:15	21	Reedsport	12822	32.80		
31	8/22	3:44	46	Reedsport	12829	32.16		
32	8/22	3:53	51	Reedsport	12830	33.77		
33	8/22	4:05	22	Reedsport	12831	36.32		
34.	8/22	4:22	41	Reedsport	12832	31.96	1,132.27	
1	8/23	6:10	46	Reedsport	12842	32.62		
2	8/23	6:21	51	Reedsport	12843	34.09		

Offloading Facility Tracking Log Terminal 4 Phase I Removal Action

Recorded at Transfer Station				Recorded at Landfill			Daily Total	Barge Total
Load	Date	Time Out	Truck No.	Barge	TICKET #	Tons	(tons)	(tons)
3	8/23	6:43	41	Reedsport	12845	32.35		
4	8/23	6:57	22	Reedsport	12846	36.00		
5	8/23	7:34	46	Reedsport	12850	32.04		
6	8/23	7:46	51	Reedsport	12852	34.56		
7	8/23	8:13	41	Reedsport	12854	33.36		
8	8/23	9:05	51	Reedsport	12859	32.65		
9	8/23	9:30	46	Reedsport	12863	33.00		
10	8/23	9:57	41	Reedsport	12866	33.31		
11	8/23	10:19	51	Reedsport	12868	34.51		
12	8/23	10:30	22	Reedsport	12870	32.64		
13	8/23	10:47	46	Reedsport	12871	32.67		
14	8/23	11:27	41	Reedsport	12872	32.13		
15	8/23	11:48	51	Reedsport	12874	34.87		
16	8/23	12:04	22	Reedsport	12875	32.49		
17	8/23	12:12	46	Reedsport	12876	33.21		
18	8/23	12:57	41	Reedsport	12881	33.43	599.93	



DAILY QUALITY CONTROL REPORT

Daily Report No. 6

Date: 8/23/08 SAT

Contract No. _____

Project Title: T4 P.O.P. off load

Location: The Dalks

Weather: _____

Temperature: _____ Min. _____ Max

1. Contractor/Subcontractors and Area of Responsibility:

NUMBER	TRADE	HOURS	EMPLOYER	LOCATION/DESCRIPTION OF WORK
<u>4</u>	<u>operators</u>	_____	<u>HME</u>	<u>Derrick crew - off loading spoils</u>
<u>2</u>	<u>Laborers</u>	_____	<u>WEST CONSTRUCTION</u>	<u>Line trucks & clean up</u>
<u>4</u>	<u>Truck Drivers</u>	_____	<u>DRR Dietrich</u>	<u>haul spoils to Landfill</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

2. Operating Plant or Equipment. (Not Hand Tools)

Plant/Equipment	Date of Arrival/Departure	Date of Safety Check	Hours Used	Hours Idle	Hours Repair
<u>SEA Vulture</u>	<u>0600</u>	<u>8/23/08</u>	<u>8</u>	_____	_____
<u>Excavator</u>	<u>0600</u>	<u>8/23/08</u>	<u>7</u>	_____	_____
<u>Dump Trucks</u>	<u>0600</u>	<u>8/23/08</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

1. Work performed today: (Indicate location and description of work performed by prime and/or subcontractors by letter in table above).

Resume off loading Barge RECSPOCT - pump water to holding tank. (402.5 gal)
Beach Decon station visqueen floor was replaced to avoid tracking
1 load of drying agent hauled in

2. Results of control activities: (Indicate whether P - Preparatory, I - Initial, or F - Follow-up phase. When a P or I meeting is conducted, complete attachment 1-A or 1-B, respectively. When network analysis system is used, identify work by use of I-J numbers.

3. Test performed as required by plans and/or specifications:

I made a trip to land fill w/ Todd in dump truck -
checked both rail gates, open arrival & found no leaks.

4. Material received:

5. Submittals Reviewed:

(a) Submittal No.	(b) Spec/Plan Reference	(c) By Whom	(d) Action
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

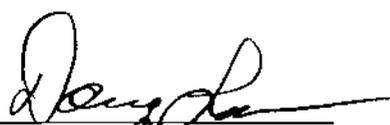
6. Offsite surveillance activities, including action taken:

7. Job Safety: (Report violations; corrective instructions given; corrective actions taken).

8. Remarks: (Instructions received or given. Conflict(s) in plans and/or specifications).

Noticing MORE Debris - IRON & ROCK (ROCK WAS 3' in Dia)

Contractor's Verification: On behalf of the Contractor, I certify this report is complete and correct, and all materials and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as noted above.



Authorized CQC Rep at Site

8/23/08

Date



T-4/ The Dalles Offload Site Daily Inspection Checklist

Date 8/23/08 SAT

1) Safety Meeting: Agenda: Truck Awareness - Backing in -
(if you can't see the driver he can't see you!)

Attendees:

[Signature]
[Signature]
[Signature]
[Signature]
DAVID R SWAIN

GREG CLARK
Todd [Signature]
[Signature]
[Signature]
JOHN MOODY
Arion webb
Tim Harris

Derrick SEAHORSE

Derrick Sea Vulture

2) Crane Inspection: "Attach Operator Log/Inspection Log"

3) Plant Inspection

Deficiencies:	Date	Date Corrected

4) Staff Gage Check

N/A

Time	Tideboard	Tide Track

5) Main Fuel Tank Levels

Port Starboard

Height _____
Gallons _____
Consumption per day 62 gal

Position Verification

Boat

X _____

Y _____

Control Point:

X _____

Y _____

6) Survey Boat

Fuel

Port _____

Starboard _____

Hull Depth _____

Sound Velocity _____

Latency _____

7) Dredge Material Weight _____ pounds per cubic foot

8) Dredge Boom Tip Verification X _____

Y _____

Control Point X _____

Y _____

9) Containment and Truck Load Area

Clean

Dust Suppression

Fabric

Spill Plates

10) Lash Barge: Draft PB _____ SB _____

Keep within 2 ft of trim PS _____ SS _____

Tank Sounding #1 _____ #3 _____

#2 _____ #4 _____

11) Baker Tank Level #1 _____ #2 _____

402.5 gal pumped into holding TANK TODAY

12) De con Stations Clean

Inventory



P.O. Box 61944, Vancouver, WA 98666-1944
 3501 Thompson Avenue, Vancouver, WA 98660
 (503) 285-2485 • (360) 696-3362 • Fax (360) 696-3385

DAILY WORK SHEET

Our Job # WAT 18344

Job Complete Yes ___ No ___

P.O. # _____ R# _____

Vehicle # 106

Customer HICKEY MARINE

Trailer # _____

Job Location The DALLAS

Mileage Meter - Out _____

Job Description Labor

Mileage Meter - In _____

Customer Rep BOUR JAYSEN

Total Miles _____

Company Rep BERNARD BARGE LINES

Operator DAVID R EVANS

DATE	EMPLOYEE	START JOB	LUNCH	FINISH JOB	JOB TIME	EMPL. S/S No.
8-23-08	DAVID R EVANS	06:00	NO	15:00	9-0025	

MATERIALS USED _____

OFFICE USE ONLY: T&M _____ CONTRACT _____

MATERIALS PURCHASED _____

SUPERVISION _____

SAFETY EQUIPMENT _____

PER DIEM _____ STAND BY _____

FUEL SURCHARGE _____ OTHER _____

TIME	WORK DESCRIPTION	TIME
2400	<i>[Signature]</i>	1200
0030		1230
0100		1300
0130		1330
0200		1400
0230		1430
0300		1500
0330		1530
0400		1600
0430		1630
0500		1700
0530		1730
0600	Labor	1800
0630		1830
0700		1900
0730		1930
0800	Jurdon	2000
0830		2030
0900		2100
0930		2130
1000		2200
1030		2230
1100		2300
1130		2330

ATTACHMENT D
DAILY RESULTS FROM WATER QUALITY MONITORING ACTIVITY AT
TERMINAL 4

Port of Portland Terminal 4 Phase I Removal Action Daily Reporting Form for Field Parameters

Date: 8/18/2008					
Construction Activity: Berth 411 Dredging					
Construction Activity Times: Dredging occurred from					
Monitoring Times: Background Parameters taken at 11:53 and 19:10; Compliance Parameters taken 15:15 to 20:55					
Rounds of Sampling for Day: 3					
Triggers:					
Water Velocity (fps)	1.0 fps or higher				
DO (mg/L)	< 6.5 modify operations; < 6.0 cease operations				
Turbidity (NTU)	> 5 NTU over background (where background < 50 NTU) or 10% over background (where background > 50 NTU); > 50 NTU over background, cease operations				
pH (Standard Units)	< 6.5 or > 8.5				
ROUND 1					
* 90th Percentile Turbidity for 8/18/08 = 6.0 NTU					
* Background Station 1 = 5.5NTU					
* 90th percentile background value of 6.0 NTU used to calculate trigger for sampling in Rounds 1 and 2 since it is higher than background value.					
6.0 NTU + 5.0 NTU = 11.0 NTU Turbidity Trigger					
Water Velocity (fps)	0.3 ft/s @ 11 ft				
Station ID: BG-01 Background Station Field Parameters taken at: 11:53					
Water Depth (ft)		Parameters			
Depth to Bottom	46.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.16	22.47	4.4	6.98
Depth 2	23.0	8.07	22.50	5.1	7.14
Depth 3	43.0	7.99	22.47	5.5	7.15
Station ID: S3A-E Early Warning Station for All Field Parameters Except Turbidity taken at: 15:05					
Water Depth (ft)		Parameters			
Depth to Bottom	50.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.17	22.42	2.6	7.01
Depth 2	25.0	7.82	22.42	5.1	7.10
Depth 3	47.0	7.70	22.42	43.2	7.12
Station ID: S3A-N Compliance for All Field Parameters Except Turbidity taken at: 15:15					
Water Depth (ft)		Parameters			
Depth to Bottom	48.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3 ft	8.04	22.42	3.2	6.99
Depth 2	24.0	7.88	22.41	4.0	7.15
Depth 3	45.0	7.73	22.41	7.3	7.11
Station ID: S3A-M Compliance for All Field Parameters Except Turbidity taken at: 15:25					
Water Depth (ft)		Parameters			
Depth to Bottom	50.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.21	22.44	5.3	7.01
Depth 2	25.0	7.89	22.43	9.8	7.10
Depth 3	47.0	7.68	22.42	27.50	7.10
Station ID: S3A-S Compliance for All Field Parameters Except Turbidity taken at: 15:35					
Water Depth (ft)		Parameters			
Depth to Bottom	39.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.22	22.44	5.0	7.01
Depth 2	19.5	7.97	22.42	6.0	7.08
Depth 3	36.0	7.77	22.42	8.0	7.09
Station ID: S3M-E Early Warning for Turbidity taken at: 15:45					
Water Depth (ft)		Parameters			
Depth to Bottom	59.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.20	22.48	5.4	7.01
Depth 2	29.5	8.05	22.48	6.1	7.16
Depth 3	56.0	7.85	22.41	7.30	7.15
Station ID: S3M-M Compliance Location for Turbidity taken at: 15:50					
Water Depth (ft)		Parameters			
Depth to Bottom	56.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.23	22.49	6.0	7.04
Depth 2	28.0	8.09	22.49	6.1	7.11
Depth 3	53.0	7.92	22.45	7.10	7.16
Station ID: S3M-S Compliance Location for Turbidity taken at: 16:00					
Water Depth (ft)		Parameters			
Depth to Bottom	54.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.30	22.50	5.8	7.05
Depth 2	27.0	8.14	22.49	6.2	7.12
Depth 3	51.0	7.97	22.49	7.60	7.16
Station ID: S3M-N Compliance Location for Turbidity taken at: 16:05					
Water Depth (ft)		Parameters			
Depth to Bottom	32.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.27	22.50	5.5	7.03
Depth 2	16.0	8.18	22.49	6.0	7.14
Depth 3	29.0	8.05	22.49	6.40	7.17
Round 2					
Station ID: S3A-E Early Warning Station for All Field Parameters Except Turbidity taken at: 16:50					
Water Depth (ft)		Parameters			
Depth to Bottom	50.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.13	22.44	4.0	7.03
Depth 2	25.0	7.94	22.42	3.7	7.16
Depth 3	47.0	7.77	22.43	23.5	7.13
Station ID: S3A-M Compliance for All Field Parameters Except Turbidity taken at: 16:58					
Water Depth (ft)		Parameters			
Depth to Bottom	48.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.29	22.48	4.9	7.06
Depth 2	24.0	7.98	22.42	4.8	7.17
Depth 3	45.0	7.66	22.43	35.50	7.40
Station ID: S3A-N Compliance for All Field Parameters Except Turbidity taken at: 17:10					
Water Depth (ft)		Parameters			
Depth to Bottom	43.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.19	22.40	4.5	7.11

Depth 2	24.0	7.88	22.44	4.7	7.16
Depth 3	40.0	7.67	22.41	17.0	7.12
Station ID: S3A-S Compliance for All Field Parameters Except Turbidity taken at: 17:15					
Water Depth (ft)		Parameters			
Depth to Bottom	38.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.20	22.47	5.8	7.06
Depth 2	19.0	8.07	22.44	5.9	7.16
Depth 3	35.0	7.81	22.43	13.9	7.50
Station ID: S3M-E Early Warning for Turbidity taken at: 18:30					
Water Depth (ft)		Parameters			
Depth to Bottom	62.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.14	22.44	4.0	7.05
Depth 2	31.0	8.04	22.45	4.9	7.20
Depth 3	59.0	7.89	22.46	9.60	7.18
Station ID: S3M-M Compliance Location for Turbidity taken at: 18:40					
Water Depth (ft)		Parameters			
Depth to Bottom	59.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.12	22.44	4.8	7.03
Depth 2	29.5	8.01	22.45	7.4	7.13
Depth 3	56.0	7.86	22.45	9.90	7.10
Station ID: S3M-N Compliance Location for Turbidity taken at: 18:50					
Water Depth (ft)		Parameters			
Depth to Bottom	34.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.15	22.44	6.9	7.05
Depth 2	17.0	8.10	22.45	6.7	7.17
Depth 3	31.0	8.03	22.45	7.10	7.21
Station ID: S3M-S Compliance Location for Turbidity taken at: 19:00					
Water Depth (ft)		Parameters			
Depth to Bottom	59.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.11	22.43	5.4	7.04
Depth 2	29.5	7.97	22.44	7.7	7.17
Depth 3	56.0	7.78	22.43	9.20	7.15
Round 3					
* 90th Percentile Turbidity for 8/18/08 = 6.0 NTU					
* Background Station Sample 2 = 10.1NTU					
* Background Station Sample 2 value of 10.1 NTU used to calculate trigger for sampling in Round 3 since it is higher than 90th Percentile value.					
10.1 NTU + 5.0 NTU = 16.1 NTU Turbidity Trigger					
Station ID: BG-01 Background Station Field Parameters taken at: 19:10					
Water Depth (ft)		Parameters			
Depth to Bottom	42.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	0.00	0.00	6.3	0.00
Depth 2	22.0	0.00	0.00	6.0	0.00
Depth 3	39.0	0.00	0.00	10.1	0.00
Station ID: S3A-E Early Warning Station for All Field Parameters Except Turbidity taken at: 19:35					
Water Depth (ft)		Parameters			
Depth to Bottom	44.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.09	22.41	4.5	7.06
Depth 2	22.0	8.03	22.42	4.5	7.20
Depth 3	41.0	7.91	22.44	12.6	7.19
Station ID: S3A-M Compliance for All Field Parameters Except Turbidity taken at: 19:45					
Water Depth (ft)		Parameters			
Depth to Bottom	45.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.07	22.40	8.4	7.05
Depth 2	22.5	8.01	22.43	6.4	7.19
Depth 3	42.0	7.88	22.44	9.00	7.18
Station ID: S3A-N Compliance for All Field Parameters Except Turbidity taken at: 19:55					
Water Depth (ft)		Parameters			
Depth to Bottom	46.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3 ft	8.12	22.42	4.6	7.05
Depth 2	23.0	8.00	22.43	4.8	7.18
Depth 3	43.0	7.80	22.42	9.6	7.17
Station ID: S3A-S Compliance for All Field Parameters Except Turbidity taken at: 20:10					
Water Depth (ft)		Parameters			
Depth to Bottom	44.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.05	22.42	5.2	7.07
Depth 2	22.0	7.97	22.40	7.2	7.18
Depth 3	41.0	7.74	22.44	27.2	7.16
Station ID: S3M-E Early Warning for Turbidity Parameters taken at: 20:25					
Water Depth (ft)		Parameters			
Depth to Bottom	59.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.06	22.40	7.8	7.09
Depth 2	29.5	7.93	22.40	7.3	7.20
Depth 3	56.0	7.81	22.41	8.90	7.20
Station ID: S3M-M Compliance Location for Turbidity taken at: 20:35					
Water Depth (ft)		Parameters			
Depth to Bottom	59.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.06	22.39	7.2	7.04
Depth 2	29.5	7.95	22.42	7.5	7.20
Depth 3	56.0	7.80	22.42	9.50	7.10
Station ID: S3M-N Compliance Location for Turbidity taken at: 20:50					
Water Depth (ft)		Parameters			
Depth to Bottom	34.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.06	22.41	6.4	7.04
Depth 2	17.0	7.97	22.42	6.7	7.21
Depth 3	31.0	7.87	22.42	11.20	7.20
Station ID: S3M-S Compliance Location for Turbidity taken at: 20:55					
Water Depth (ft)		Parameters			
Depth to Bottom	60.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.06	22.41	7.2	7.03
Depth 2	30.0	7.95	22.44	7.8	7.20
Depth 3	57.0	7.81	22.43	9.00	7.20

**Port of Portland Phase I Removal Action
Daily Reporting Template for Laboratory Parameters**

Date: 8/21/2008											
Time: 8/21/08 1830											
On-Time Result or Update: Update to On-time Result											
Construction Activity: Berth 411 Dredging											
Round of Sampling for Day (eg., 1st of 3 events): Round 2 of 3 Monitoring Events											
Additional Comments: Samples collected on 8/18/08		Sample I.D.:									
No criteria were exceeded				T4 BG 01 C 080818 (Time collected: 12:05)		T4_S3A M A 080818 (Time collected: 17:20)		T4_S3A M B 080818 (Time collected: 17:30)		T4_S3A M C 080818 (Time collected: 17:40)	
Parameter	Units	Acute Criterion	Chronic Criterion	Highest Background*	Background Location			Construction Location			
					Top	Middle	Bottom	Top	Middle	Bottom	
Conventional Parameters											
Total Suspended Solids (TSS)	mg/L	--	--	TBD			9.0	9.0	7.0	25	
Metals^[6]											
Cadmium	µg/L	0.5	0.09	TBD			ND	ND	ND	ND	
Lead	µg/L	14	0.54	TBD			ND	ND	ND	ND	
Zinc	µg/L	36	36	TBD			8.8	9.06	10.7	8.52	
Polycyclic Aromatic Hydrocarbons (PAHs)											
Naphthalene	µg/L	807	194	TBD			ND	ND	ND	ND	
Acenaphthylene	µg/L	1277	307	TBD			ND	ND	ND	ND	
Acenaphthene	µg/L	233	56	TBD			ND	ND	ND	ND	
Fluorene	µg/L	162	39	TBD			ND	ND	ND	ND	
Phenanthrene	µg/L	79	19	TBD			ND	ND	ND	0.0495	
Anthracene	µg/L	87	21	TBD			ND	ND	ND	ND	
Fluoranthene	µg/L	30	7.1	TBD			ND	ND	ND	0.107	
Pyrene	µg/L	42	10	TBD			ND	ND	ND	0.103	
Benzo(a)anthracene	µg/L	9.2	2.2	TBD			ND	ND	ND	0.0611	
Chrysene	µg/L	8.3	2.0	TBD			ND	ND	ND	0.0636	
Benzo(b)fluoranthene	µg/L	2.8	0.68	TBD			ND	ND	ND	0.118*	
Benzo(k)fluoranthene	µg/L	2.7	0.64	TBD			ND	ND	ND		
Benzo(a)pyrene	µg/L	4.0	0.96	TBD			ND	ND	ND	0.0699	
Indeno(1,2,3-cd)pyrene	µg/L	1.2	0.28	TBD			ND	ND	ND	0.0659	
Dibenzo(a,h)anthracene	µg/L	1.2	0.28	TBD			ND	ND	ND	ND	
Benzo(g,h,i)perylene	µg/L	1.8	0.44	TBD			ND	ND	ND	0.0562	

Notes: * Benzo(b+k)Fluoranthene(s) reported due to insufficient peak separation between Benzo(b) and Benzo(k)Fluoranthene.

N/AV - Result not yet available

ND - Non Detect

J - Not within quality control limits, estimated data

 Above chronic criterion and background (and data not yet qualified)

 Above acute criterion and background (and data not yet qualified)

* Value is the 90th percentile background value calculated during pre-construction, or the value of the highest background sample taken on the same day (whichever is higher).

Port of Portland Terminal 4 Phase I Removal Action Daily Reporting Form for Field Parameters

Date: 8/19/2008					
Construction Activity: Berth 411 Dredging					
Construction Activity Times: Dredging occurred from					
Monitoring Times: Background Parameters taken at 07:10; Compliance Parameters taken 09:25 to 20:30					
Rounds of Sampling for Day: 5					
Triggers:					
Water Velocity (fps)	1.0 fps or higher				
DO (mg/L)	< 6.5 modify operations; < 6.0 cease operations				
Turbidity (NTU)	> 5 NTU over background (where background < 50 NTU) or 10% over background (where background > 50 NTU); > 50 NTU over background, cease operations				
pH (Standard Units)	< 6.5 or > 8.5				
ROUND 1					
* 90th Percentile Turbidity for 8/19/08 = 6.0 NTU					
* Background Station 1 = 4.9 NTU					
* 90th percentile background value of 6.0 NTU used to calculate trigger for sampling in Rounds 1- since it is higher than background value.					
6.0 NTU + 5.0 NTU = 11.0 NTU Turbidity Trigger					
Water Velocity (fps)	0.0 ft/s @ 15 ft				
Station ID: BG-01 Background Station Field Parameters taken at: 07:10					
Water Depth (ft)		Parameters			
Depth to Bottom	43.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.08	22.34	3.1	7.09
Depth 2	22.0	7.98	22.36	3.8	7.24
Depth 3	40.0	7.90	22.37	4.9	7.27
Station ID: S3A-E Early Warning Station for All Field Parameters Except Turbidity taken at: 09:25					
Water Depth (ft)		Parameters			
Depth to Bottom	42.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.88	22.27	4.5	7.10
Depth 2	21.0	7.67	22.31	6.2	7.33
Depth 3	39.0	7.40	22.29	18.3	7.21
Station ID: S3A-N Compliance for All Field Parameters Except Turbidity taken at: 09:30					
Water Depth (ft)		Parameters			
Depth to Bottom	52.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.92	22.31	6.0	7.07
Depth 2	26.0	7.90	22.33	4.8	7.30
Depth 3	49.0	7.35	22.32	39.5	7.21
Station ID: S3A-M Compliance for All Field Parameters Except Turbidity taken at: 09:40					
Water Depth (ft)		Parameters			
Depth to Bottom	44.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.97	22.27	5.8	7.10
Depth 2	22.0	7.85	22.33	5.6	7.30
Depth 3	41.0	7.77	22.32	6.10	7.25
Station ID: S3A-S Compliance for All Field Parameters Except Turbidity taken at: 09:51					
Water Depth (ft)		Parameters			
Depth to Bottom	42.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.93	22.30	6.8	7.10
Depth 2	21.0	7.82	22.32	6.3	7.35
Depth 3	39.0	7.70	22.32	7.3	7.27
Station ID: S3M-E Early Warning for Turbidity taken at: 10:00					
Water Depth (ft)		Parameters			
Depth to Bottom	58.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.13	22.36	3.6	7.12
Depth 2	29.0	7.98	22.37	4.2	7.32
Depth 3	55.0	7.85	22.36	5.00	7.29
Station ID: S3M-N Compliance Location for Turbidity taken at: 10:08					
Water Depth (ft)		Parameters			
Depth to Bottom	34.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.20	22.36	4.9	7.13
Depth 2	17.0	8.04	22.37	5.0	7.34
Depth 3	31.0	7.96	22.37	5.60	7.39
Station ID: S3M-S Compliance Location for Turbidity taken at: 10:15					
Water Depth (ft)		Parameters			
Depth to Bottom	58.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.07	22.37	6.1	7.10
Depth 2	29.0	7.95	22.36	6.2	7.31
Depth 3	55.0	7.87	22.36	8.30	7.28
Station ID: S3M-M Compliance Location for Turbidity taken at: 10:20					
Water Depth (ft)		Parameters			
Depth to Bottom	59.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.12	22.38	5.7	7.11
Depth 2	29.0	7.95	22.38	5.8	7.29
Depth 3	56.0	7.85	22.36	8.70	7.28
Round 2					
Station ID: S3A-E Early Warning Station for All Field Parameters Except Turbidity taken at: 10:39					
Water Depth (ft)		Parameters			
Depth to Bottom	42.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.03	22.28	4.5	7.11
Depth 2	21.0	7.76	22.32	5.8	7.31
Depth 3	39.0	7.51	22.30	18.0	7.24
Station ID: S3A-N Compliance for All Field Parameters Except Turbidity taken at: 10:45					
Water Depth (ft)		Parameters			
Depth to Bottom	50.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.90	22.32	5.4	7.07
Depth 2	25.0	7.66	22.32	8.7	7.27
Depth 3	47.0	7.28	22.31	50.40	7.18
Station ID: S3A-M Compliance for All Field Parameters Except Turbidity taken at: 10:54					
Water Depth (ft)		Parameters			

Depth to Bottom	44.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.95	22.37	6.5	7.06
Depth 2	22.0	7.74	22.33	7.8	7.35
Depth 3	41.0	7.45	22.32	25.0	7.34
Station ID: S3A-S Compliance for All Field Parameters Except Turbidity taken at: 11:04					
Water Depth (ft)		Parameters			
Depth to Bottom	43.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.20	22.42	4.5	7.15
Depth 2	21.5	7.87	22.33	4.6	7.42
Depth 3	40.0	7.52	22.32	19.1	7.28
Station ID: S3M-E Early Warning for Turbidity taken at: 11:09					
Water Depth (ft)		Parameters			
Depth to Bottom	61.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.21	22.44	5.3	7.15
Depth 2	30.5	7.95	22.37	6.3	7.41
Depth 3	58.0	7.85	22.35	7.50	7.35
Station ID: S3M-S Compliance Location for Turbidity taken at: 11:17					
Water Depth (ft)		Parameters			
Depth to Bottom	57.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.23	22.47	5.6	7.14
Depth 2	28.5	8.00	22.38	6.9	7.42
Depth 3	54.0	7.89	22.37	7.20	7.30
Station ID: S3M-M Compliance Location for Turbidity taken at: 11:30					
Water Depth (ft)		Parameters			
Depth to Bottom	58.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.22	22.47	6.3	7.14
Depth 2	29.0	7.96	22.37	6.6	7.48
Depth 3	55.0	7.88	22.37	8.00	7.39
Station ID: S3M-N Compliance Location for Turbidity taken at: 11:39					
Water Depth (ft)		Parameters			
Depth to Bottom	34.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.35	22.49	5.4	7.20
Depth 2	17.0	8.17	22.38	5.7	7.37
Depth 3	31.0	7.88	22.34	7.30	7.40
Round 3					
Station ID: S3A-E Early Warning Station for All Field Parameters Except Turbidity taken at: 12:40					
Water Depth (ft)		Parameters			
Depth to Bottom	43.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.21	22.52	3.4	7.10
Depth 2	21.5	7.81	22.34	5.3	7.30
Depth 3	40.0	7.55	22.33	21.5	7.30
Station ID: S3A-N Compliance for All Field Parameters Except Turbidity taken at: 12:47					
Water Depth (ft)		Parameters			
Depth to Bottom	50.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.01	22.43	4.7	7.10
Depth 2	25.0	7.68	22.33	5.9	7.45
Depth 3	47.0	7.19	22.34	80.00	7.25
Station ID: S3A-M Compliance for All Field Parameters Except Turbidity taken at: 12:58					
Water Depth (ft)		Parameters			
Depth to Bottom	49.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3 ft	8.57	22.65	3.4	7.22
Depth 2	24.5	8.05	22.36	4.5	7.44
Depth 3	46.0	7.58	22.33	20.2	7.43
Station ID: S3A-S Compliance for All Field Parameters Except Turbidity taken at: 13:30					
Water Depth (ft)		Parameters			
Depth to Bottom	40.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.07	22.43	5.4	7.07
Depth 2	20.0	7.95	22.37	7.0	7.43
Depth 3	37.0	7.68	22.35	16.6	7.51
Station ID: S3A-N Compliance for All Field Parameters Except Turbidity taken at: 13:40					
Water Depth (ft)		Parameters			
Depth to Bottom	42.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.62	22.67	3.0	7.23
Depth 2	21.0	7.70	22.33	8.6	7.33
Depth 3	39.0	7.31	22.33	36.10	7.25
Station ID: S3M-E Compliance Location for Turbidity taken at: 15:00					
Water Depth (ft)		Parameters			
Depth to Bottom	58.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.48	22.56	4.0	7.23
Depth 2	29.5	8.07	22.44	4.4	7.30
Depth 3	55.0	7.63	22.36	10.30	7.26
Station ID: S3M-M Compliance Location for Turbidity taken at: 15:10					
Water Depth (ft)		Parameters			
Depth to Bottom	57.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.28	22.46	5.3	7.18
Depth 2	28.5	8.05	22.44	5.8	7.30
Depth 3	54.0	7.50	22.35	7.20	7.26
Station ID: S3M-N Compliance Location for Turbidity taken at: 15:20					
Water Depth (ft)		Parameters			
Depth to Bottom	32.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.50	22.58	5.4	7.22
Depth 2	16.0	8.24	22.50	5.0	7.33
Depth 3	29.0	8.15	22.48	6.10	7.33
Station ID: S3M-S Compliance Location for Turbidity taken at: 15:35					
Water Depth (ft)		Parameters			
Depth to Bottom	54.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.38	22.51	6.0	7.15
Depth 2	27.0	8.05	22.44	6.5	7.33
Depth 3	51.0	7.86	22.40	8.90	7.32
ROUND 4					
Station ID: S3A-E Early Warning Station for All Field Parameters Except Turbidity taken at: 17:30					
Water Depth (ft)		Parameters			

Depth to Bottom	48.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.47	22.53	2.9	7.23
Depth 2	24.0	7.97	22.46	7.0	7.35
Depth 3	45.0	7.69	22.41	22.5	7.66
Station ID: S3A-M Compliance for All Field Parameters Except Turbidity taken at: 17:20					
Water Depth (ft)		Parameters			
Depth to Bottom	49.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.60	22.60	3.3	7.25
Depth 2	24.5	7.94	22.43	5.7	7.38
Depth 3	46.0	7.59	22.39	27.20	7.34
Station ID: S3A-N Compliance for All Field Parameters Except Turbidity taken at: 17:30					
Water Depth (ft)		Parameters			
Depth to Bottom	40.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3 ft	8.48	22.60	4.7	7.30
Depth 2	20.0	7.97	22.45	6.6	7.38
Depth 3	37.0	7.61	22.37	10.2	7.35
Station ID: S3A-S Compliance for All Field Parameters Except Turbidity taken at: 17:37					
Water Depth (ft)		Parameters			
Depth to Bottom	52.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.43	22.48	6.3	7.32
Depth 2	26.0	7.89	22.41	7.2	7.35
Depth 3	49.0	7.53	22.38	18.5	7.26
Station ID: S3M-E Compliance Location for Turbidity taken at: 17:50					
Water Depth (ft)		Parameters			
Depth to Bottom	59.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.35	22.45	5.8	7.23
Depth 2	29.5	8.17	22.46	5.0	7.35
Depth 3	56.0	8.06	22.47	6.60	7.36
Station ID: S3M-M Compliance Location for Turbidity taken at: 18:00					
Water Depth (ft)		Parameters			
Depth to Bottom	57.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.28	22.45	6.0	7.20
Depth 2	28.5	8.14	22.45	6.5	7.35
Depth 3	54.0	7.75	22.38	7.10	7.36
Station ID: S3M-N Compliance Location for Turbidity taken at: 18:05					
Water Depth (ft)		Parameters			
Depth to Bottom	33.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.35	22.47	5.1	7.29
Depth 2	16.5	8.06	22.45	5.9	7.38
Depth 3	30.0	8.02	22.45	7.20	7.33
Station ID: S3M-S Compliance Location for Turbidity taken at: 18:15					
Water Depth (ft)		Parameters			
Depth to Bottom	57.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.26	22.44	4.6	7.19
Depth 2	28.5	8.16	22.45	4.7	7.37
Depth 3	54.0	7.75	22.39	6.60	7.33
ROUND 5					
Station ID: S3A-E Early Warning Station for All Field Parameters Except Turbidity taken at: 19:30					
Water Depth (ft)		Parameters			
Depth to Bottom	51.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.00	22.40	8.2	7.20
Depth 2	25.5	7.91	22.42	9.0	7.35
Depth 3	48.0	7.47	22.42	115.2	7.27
Station ID: S3A-M Compliance for All Field Parameters Except Turbidity taken at: 19:40					
Water Depth (ft)		Parameters			
Depth to Bottom	48.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.20	22.41	6.8	7.21
Depth 2	24.0	7.99	22.43	7.6	7.35
Depth 3	45.0	7.62	22.43	32.50	7.28
Station ID: S3A-N Compliance for All Field Parameters Except Turbidity taken at: 19:50					
Water Depth (ft)		Parameters			
Depth to Bottom	46.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3 ft	8.09	22.42	7.9	7.22
Depth 2	23.0	7.83	22.42	10.5	7.41
Depth 3	43.0	7.59	22.42	58.8	7.30
Station ID: S3A-S Compliance for All Field Parameters Except Turbidity taken at: 20:00					
Water Depth (ft)		Parameters			
Depth to Bottom	42.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.04	22.43	9.3	7.22
Depth 2	21.0	7.86	22.41	9.8	7.35
Depth 3	39.0	7.57	22.42	34.0	7.31
Station ID: S3M-E Compliance Location for Turbidity taken at: 20:10					
Water Depth (ft)		Parameters			
Depth to Bottom	62.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.08	22.39	11.1	7.20
Depth 2	31.0	7.88	22.40	12.0	7.35
Depth 3	59.0	7.77	22.33	11.10	7.39
Station ID: S3M-M Compliance Location for Turbidity taken at: 20:15					
Water Depth (ft)		Parameters			
Depth to Bottom	60.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.15	22.38	7.3	7.21
Depth 2	30.0	8.08	22.42	6.2	7.35
Depth 3	57.0	8.16	22.10	9.00	7.51
Station ID: S3M-N Compliance Location for Turbidity taken at: 20:25					
Water Depth (ft)		Parameters			
Depth to Bottom	39.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.08	22.42	9.7	7.18
Depth 2	19.5	7.99	22.42	9.1	7.34
Depth 3	36.0	7.90	22.42	9.20	7.33
Station ID: S3M-S Compliance Location for Turbidity taken at: 20:30					
Water Depth (ft)		Parameters			
Depth to Bottom	58.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH

Depth 1	3.0	8.25	22.41	5.8	7.23
Depth 2	29.0	7.93	22.39	6.6	7.36
Depth 3	55.0	8.06	22.16	10.10	7.42

**Port of Portland Phase I Removal Action
Daily Reporting Template for Laboratory Parameters**

Date:	8/22/2008									
Time:	8/22/08 1420									
On-Time Result or Update:	On-time Result									
Construction Activity:	Berth 411 Dredging									
Round of Sampling for Day (eg., 1st of 3 events):	Round 3 of 5 Monitoring Events									
Additional Comments:	Samples collected on 8/19/08					Sample I.D.:				
No criteria were exceeded							BG S3A 01 (Time collected: 7:10)	T4_S3A N02 A (Time collected: 13:45)	T4_S3A N03 B (Time collected: 13:45)	T4_S3A N04 C (Time collected: 14:05)
Parameter	Units	Acute Criterion	Chronic Criterion	Highest Background*	Background Location			Construction Location		
					Top	Middle	Bottom	Top	Middle	Bottom
Conventional Parameters										
Total Suspended Solids (TSS)	mg/L	--	--	TBD			6.00	5.20	8.80	25.80
Metals^[6]										
Cadmium	µg/L	0.5	0.09	TBD			ND	ND	ND	ND
Lead	µg/L	14	0.54	TBD			ND	ND	ND	ND
Zinc	µg/L	36	36	TBD			12.2	9.49	7.96	8.13
Polycyclic Aromatic Hydrocarbons (PAHs)										
Naphthalene	µg/L	807	194	TBD			ND	ND	ND	ND
Acenaphthylene	µg/L	1277	307	TBD			ND	ND	ND	ND
Acenaphthene	µg/L	233	56	TBD			ND	ND	ND	ND
Fluorene	µg/L	162	39	TBD			ND	ND	ND	ND
Phenanthrene	µg/L	79	19	TBD			ND	ND	ND	ND
Anthracene	µg/L	87	21	TBD			ND	ND	ND	ND
Fluoranthene	µg/L	30	7.1	TBD			ND	ND	ND	0.0689
Pyrene	µg/L	42	10	TBD			ND	ND	ND	0.0683
Benzo(a)anthracene	µg/L	9.2	2.2	TBD			ND	ND	ND	ND
Chrysene	µg/L	8.3	2.0	TBD			ND	ND	ND	0.039
Benzo(b)fluoranthene	µg/L	2.8	0.68	TBD			ND	ND	ND	ND
Benzo(k)fluoranthene	µg/L	2.7	0.64	TBD			ND	ND	ND	
Benzo(a)pyrene	µg/L	4.0	0.96	TBD			ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	µg/L	1.2	0.28	TBD			ND	ND	ND	0.0411
Dibenzo(a,h)anthracene	µg/L	1.2	0.28	TBD			ND	ND	ND	ND
Benzo(g,h,i)perylene	µg/L	1.8	0.44	TBD			ND	ND	ND	ND

Notes: * Benzo(b+k)Fluoranthene(s) reported due to insufficient peak separation between Benzo(b) and Benzo(k)Fluoranthene.

N/AV - Result not yet available

ND - Non Detect

J - Not within quality control limits, estimated data

 Above chronic criterion and background (and data not yet qualified)

 Above acute criterion and background (and data not yet qualified)

* Value is the 90th percentile background value calculated during pre-construction, or the value of the highest background sample taken on the same day (whichever is higher).

Port of Portland Terminal 4 Phase I Removal Action Daily Reporting Form for Field Parameters

Date: 8/20/2008					
Construction Activity: Berth 411 Dredging					
Construction Activity Times: Dredging occurred from					
Monitoring Times: Background Parameters taken at 09:20, 17:05, 20:00; Compliance Parameters taken 10:01 to 21:15					
Rounds of Sampling for Day: 5					
Triggers:					
Water Velocity (fps)	1.0 fps or higher				
DO (mg/L)	< 6.5 modify operations; < 6.0 cease operations				
Turbidity (NTU)	> 5 NTU over background (where background < 50 NTU) or 10% over background (where background > 50 NTU); > 50 NTU over background, cease operations				
pH (Standard Units)	< 6.5 or > 8.5				
ROUND 1					
* 90th Percentile Turbidity for 8/20/08 = 6.0 NTU					
* Background Station 1 = 4.5NTU					
* 90th percentile background value of 6.0 NTU used to calculate trigger for sampling in Rounds 1 and 2 since it is higher than background value.					
6.0 NTU + 5.0 NTU = 11.0 NTU Turbidity Trigger					
Water Velocity (fps)	0.5 ft/s @ 15 ft				
Station ID: BG-01 Background Station Field Parameters taken at: 09:20					
Water Depth (ft)		Parameters			
Depth to Bottom	46.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.72	22.21	4.2	7.03
Depth 2	23.0	7.63	22.21	4.9	7.69
Depth 3	43.0	7.57	22.14	4.5	8.10
Station ID: S3A-E Early Warning Station for All Field Parameters Except Turbidity taken at: 10:01					
Water Depth (ft)		Parameters			
Depth to Bottom	50.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.49	22.24	7.5	7.22
Depth 2	25.0	7.39	22.24	9.3	7.71
Depth 3	47.0	7.13	22.23	29.4	7.96
Station ID: S3A-S Compliance for All Field Parameters Except Turbidity taken at: 10:10					
Water Depth (ft)		Parameters			
Depth to Bottom	47.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3 ft	7.56	22.25	5.4	7.00
Depth 2	23.5	7.47	22.23	7.2	7.50
Depth 3	44.0	7.42	22.23	8.4	7.80
Station ID: S3A-M Compliance for All Field Parameters Except Turbidity taken at: 10:20					
Water Depth (ft)		Parameters			
Depth to Bottom	47.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.58	22.21	7.2	7.14
Depth 2	23.5	7.53	22.22	7.6	7.34
Depth 3	44.0	7.54	22.21	6.90	7.89
Station ID: S3A-N Compliance for All Field Parameters Except Turbidity taken at: 10:30					
Water Depth (ft)		Parameters			
Depth to Bottom	44.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.59	22.24	7.4	7.21
Depth 2	22.0	7.34	22.22	9.2	7.49
Depth 3	41.0	7.19	22.25	19.4	7.83
Station ID: S3M-E Early Warning for Turbidity taken at: 11:25					
Water Depth (ft)		Parameters			
Depth to Bottom	62.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.76	22.21	3.1	7.03
Depth 2	31.0	7.55	22.20	5.3	7.69
Depth 3	59.0	7.46	22.21	7.40	8.14
Station ID: S3M-S Compliance Location for Turbidity taken at: 11:30					
Water Depth (ft)		Parameters			
Depth to Bottom	56.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.74	22.20	5.9	7.14
Depth 2	28.0	7.57	22.20	7.1	7.67
Depth 3	53.0	7.47	22.20	8.60	8.02
Station ID: S3M-M Compliance Location for Turbidity taken at: 11:40					
Water Depth (ft)		Parameters			
Depth to Bottom	58.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.75	22.19	6.6	7.28
Depth 2	29.0	7.58	22.20	7.0	7.33
Depth 3	55.0	7.47	22.20	9.70	7.99
Station ID: S3M-N Compliance Location for Turbidity taken at: 11:45					
Water Depth (ft)		Parameters			
Depth to Bottom	33.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.72	22.22	6.9	7.25
Depth 2	16.5	7.65	22.22	7.2	7.05
Depth 3	30.0	7.57	22.22	7.50	7.61
Round 2					
Station ID: S3A-E Early Warning Station for All Field Parameters Except Turbidity taken at: 12:20					
Water Depth (ft)		Parameters			
Depth to Bottom	46.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.49	22.20	6.9	7.19
Depth 2	23.0	7.44	22.22	5.4	7.40
Depth 3	43.0	7.21	22.23	22.7	7.81
Station ID: S3A-S Compliance for All Field Parameters Except Turbidity taken at: 12:30					
Water Depth (ft)		Parameters			
Depth to Bottom	46.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.59	22.25	7.5	7.19
Depth 2	23.0	7.48	22.22	8.7	7.59
Depth 3	43.0	7.33	22.21	9.30	7.74
Station ID: S3A-M Compliance for All Field Parameters Except Turbidity taken at: 12:40					
Water Depth (ft)		Parameters			

Depth to Bottom	44.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.65	22.21	8.4	7.26
Depth 2	22.0	7.44	22.23	10.1	7.56
Depth 3	41.0	7.28	22.22	14.6	7.75
Station ID: S3A-N Compliance for All Field Parameters Except Turbidity taken at: 12:45					
Water Depth (ft)		Parameters			
Depth to Bottom	43.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.59	22.25	9.2	7.30
Depth 2	22.0	7.41	22.22	8.4	7.57
Depth 3	40.0	7.10	22.22	15.3	7.72
Station ID: S3M-E Early Warning for Turbidity taken at: 13:00					
Water Depth (ft)		Parameters			
Depth to Bottom	60.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.85	22.20	5.8	7.10
Depth 2	30.0	7.61	22.20	6.2	7.58
Depth 3	57.0	7.51	22.20	7.00	7.96
Station ID: S3M-S Compliance Location for Turbidity taken at: 13:10					
Water Depth (ft)		Parameters			
Depth to Bottom	56.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.77	22.20	6.2	7.09
Depth 2	28.0	7.58	22.20	7.2	7.55
Depth 3	53.0	7.47	22.18	9.70	7.90
Station ID: S3M-M Compliance Location for Turbidity taken at: 13:20					
Water Depth (ft)		Parameters			
Depth to Bottom	58.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.77	22.20	7.0	7.26
Depth 2	29.0	7.60	22.19	7.8	7.64
Depth 3	55.0	7.50	22.19	9.10	7.81
Station ID: S3M-N Compliance Location for Turbidity taken at: 13:25					
Water Depth (ft)		Parameters			
Depth to Bottom	34.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.82	22.20	6.9	7.28
Depth 2	17.0	7.68	22.21	6.9	7.50
Depth 3	31.0	7.59	22.21	8.00	7.66
Round 3					
Station ID: S3A-E Early Warning Station for All Field Parameters Except Turbidity taken at: 15:55					
Water Depth (ft)		Parameters			
Depth to Bottom	48.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.76	22.34	5.7	7.12
Depth 2	24.0	7.32	22.23	9.8	6.98
Depth 3	45.0	7.17	22.24	38.3	7.24
Station ID: S3A-M Compliance for All Field Parameters Except Turbidity taken at: 16:15					
Water Depth (ft)		Parameters			
Depth to Bottom	51.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.78	22.32	8.0	6.79
Depth 2	25.5	7.34	22.23	11.9	7.03
Depth 3	48.0	7.13	22.23	26.60	7.17
Station ID: S3A-N Compliance for All Field Parameters Except Turbidity taken at: 16:20					
Water Depth (ft)		Parameters			
Depth to Bottom	43.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3 ft	7.79	22.34	7.5	6.81
Depth 2	21.5	7.27	22.23	9.4	6.97
Depth 3	40.0	7.09	22.23	18.6	7.09
Station ID: S3A-S Compliance for All Field Parameters Except Turbidity taken at: 16:20					
Water Depth (ft)		Parameters			
Depth to Bottom	38.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.73	22.32	7.5	6.82
Depth 2	19.0	7.42	22.24	7.8	6.98
Depth 3	35.0	7.20	22.22	10.6	7.11
Station ID: S3M-E Early Warning for Turbidity Parameters taken at: 16:35					
Water Depth (ft)		Parameters			
Depth to Bottom	58.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.85	22.27	6.5	6.83
Depth 2	29.0	7.48	22.15	7.8	7.10
Depth 3	55.0	7.25	22.15	11.60	7.27
Station ID: S3M-M Compliance Location for Turbidity taken at: 16:40					
Water Depth (ft)		Parameters			
Depth to Bottom	56.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.80	22.22	6.8	6.83
Depth 2	26.5	7.52	22.16	7.1	7.06
Depth 3	53.0	7.37	22.14	9.20	7.26
Station ID: S3M-N Compliance Location for Turbidity taken at: 16:45					
Water Depth (ft)		Parameters			
Depth to Bottom	32.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.80	22.22	7.2	6.82
Depth 2	16.0	7.54	22.17	7.5	6.94
Depth 3	29.0	7.44	22.16	8.40	7.07
Station ID: S3M-S Compliance Location for Turbidity taken at: 16:50					
Water Depth (ft)		Parameters			
Depth to Bottom	55.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.74	22.24	5.7	6.82
Depth 2	22.5	7.53	22.16	5.9	7.07
Depth 3	52.0	7.38	22.13	6.90	7.28
ROUND 4					
* 90th Percentile Turbidity for 8/20/08 = 6.0 NTU					
* Background Station Sample 2 = 6.7 NTU					
* Background Station sample 2 value of 6.7 NTU used to calculate trigger for sampling in Round 4 since it is higher than 90th Percentile value.					
6.7 NTU + 5.0 NTU = 11.7 NTU Turbidity Trigger					
Station ID: BG-01 Background Station Field Parameters taken at: 17:05					
Water Depth (ft)		Parameters			
Depth to Bottom	45.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.75	22.18	5.0	6.85

Depth 2	22.5	7.52	22.15	5.3	7.04
Depth 3	42.0	7.37	22.12	6.7	7.16
Station ID: S3A-E Early Warning Station for All Field Parameters Except Turbidity taken at: 18:55					
Water Depth (ft)		Parameters			
Depth to Bottom	50.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.96	22.31	4.8	6.85
Depth 2	25.0	7.32	22.23	7.7	6.85
Depth 3	47.0	7.14	22.24	45.5	6.93
Station ID: S3A-M Compliance for All Field Parameters Except Turbidity taken at: 19:15					
Water Depth (ft)		Parameters			
Depth to Bottom	48.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.96	22.27	5.6	6.80
Depth 2	24.0	7.51	22.19	6.3	7.00
Depth 3	45.0	7.29	22.21	8.80	7.16
Station ID: S3A-N Compliance for All Field Parameters Except Turbidity taken at: 19:10					
Water Depth (ft)		Parameters			
Depth to Bottom	46.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3 ft	7.81	22.30	5.3	6.75
Depth 2	23.0	7.18	22.23	11.7	6.91
Depth 3	43.0	6.97	22.22	13.1	7.00
Station ID: S3A-S Compliance for All Field Parameters Except Turbidity taken at: 19:20					
Water Depth (ft)		Parameters			
Depth to Bottom	42.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.97	22.26	6.1	6.83
Depth 2	21.0	7.61	22.21	6.1	6.96
Depth 3	39.0	7.12	22.21	18.5	7.09
Station ID: S3M-E Early Warning for Turbidity Parameters taken at: 19:30					
Water Depth (ft)		Parameters			
Depth to Bottom	62.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.73	22.23	8.2	6.81
Depth 2	31.0	7.55	22.22	9.8	7.12
Depth 3	59.0	7.40	22.20	13.70	7.34
Station ID: S3M-M Compliance Location for Turbidity taken at: 19:35					
Water Depth (ft)		Parameters			
Depth to Bottom	60.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.69	22.22	9.1	6.80
Depth 2	30.0	7.56	22.21	10.3	7.08
Depth 3	57.0	7.40	22.19	11.40	7.24
Station ID: S3M-N Compliance Location for Turbidity taken at: 19:45					
Water Depth (ft)		Parameters			
Depth to Bottom	34.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.71	22.21	8.3	6.85
Depth 2	17.0	7.66	22.22	8.0	7.02
Depth 3	31.0	7.51	22.20	8.90	7.14
Station ID: S3M-S Compliance Location for Turbidity taken at: 19:45					
Water Depth (ft)		Parameters			
Depth to Bottom	59.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.68	22.21	9.4	6.89
Depth 2	29.5	7.54	22.21	10.5	7.16
Depth 3	56.0	7.41	22.20	13.20	7.21
ROUND 5					
* 90th Percentile Turbidity for 8/20/08 = 6.0 NTU					
* Background Station Sample 3 = 7.9 NTU					
* Background Station #3 value of 7.9 NTU used to calculate trigger for sampling in Round 5 since it is higher than 90th Percentile value.					
Station ID: BG-01 Background Station Field Parameters taken at: 20:00					
Water Depth (ft)		Parameters			
Depth to Bottom	46.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.74	22.19	7.1	6.88
Depth 2	23.0	7.59	22.19	7.4	7.12
Depth 3	43.0	7.54	22.19	7.9	7.29
Station ID: S3A-E Early Warning Station for All Field Parameters Except Turbidity taken at:					
Water Depth (ft)		Parameters			
Depth to Bottom	0.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	0.0	0.00	0.00	0.0	0.00
Depth 2	0.0	0.00	0.00	0.0	0.00
Depth 3	0.0	0.00	0.00	0.0	0.00
Station ID: S3A-M Compliance for All Field Parameters Except Turbidity taken at:					
Water Depth (ft)		Parameters			
Depth to Bottom	0.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	0.0	0.00	0.00	0.0	0.00
Depth 2	0.0	0.00	0.00	0.0	0.00
Depth 3	0.0	0.00	0.00	0.00	0.00
Station ID: S3A-N Compliance for All Field Parameters Except Turbidity taken at:					
Water Depth (ft)		Parameters			
Depth to Bottom	0.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	0.0	0.00	0.00	0.0	0.00
Depth 2	0.0	0.00	0.00	0.0	0.00
Depth 3	0.0	0.00	0.00	0.0	0.00
Station ID: S3A-S Compliance for All Field Parameters Except Turbidity taken at:					
Water Depth (ft)		Parameters			
Depth to Bottom	0.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	0.0	0.00	0.00	0.0	0.00
Depth 2	0.0	0.00	0.00	0.0	0.00
Depth 3	0.0	0.00	0.00	0.0	0.00
Station ID: S3M-S Early Warning for Turbidity Parameters taken at: 20:15					
Water Depth (ft)		Parameters			
Depth to Bottom	59.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.83	22.14	6.9	6.97
Depth 2	29.5	7.59	22.21	7.7	7.22
Depth 3	56.0	7.47	22.11	14.40	7.39
Station ID: S3M-N Compliance Location for Turbidity taken at: 20:50					

Water Depth (ft)		Parameters			
Depth to Bottom	36.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.58	22.16	8.8	6.96
Depth 2	18.0	7.53	22.19	8.5	6.65
Depth 3	33.0	7.43	22.19	15.50	6.64
Station ID: S3M-M Compliance Location for Turbidity taken at: 21:00					
Water Depth (ft)		Parameters			
Depth to Bottom	60.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.72	22.18	7.7	6.79
Depth 2	30.0	7.58	22.18	8.5	6.63
Depth 3	57.0	7.58	22.06	10.50	7.33
Station ID: S3M-S Compliance Location for Turbidity taken at: 21:05					
Water Depth (ft)		Parameters			
Depth to Bottom	58.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.78	22.10	6.9	6.78
Depth 2	29.0	7.52	22.20	8.3	7.11
Depth 3	55.0	7.47	22.18	10.30	7.39
Station ID: S3M-N Compliance Location for Turbidity taken at: 21:15					
Water Depth (ft)		Parameters			
Depth to Bottom	40.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.66	22.16	7.9	6.80
Depth 2	20.0	7.57	22.19	8.1	6.91
Depth 3	37.0	7.49	22.17	9.80	7.20

Daily Reporting Template for Laboratory Parameters

Date: 08/22/08											
Time: 02:30:00 PM											
On-Time Result or Update: On Time											
Construction Activity: Berth 411 Dredging											
Round of Sampling for Day (eg., 1st of 3 events): 1 of 5 Sampling Events											
Additional Comments: Samples collected on 8/20/08		Sample I.D.:									
No exceedances reported				BG 01 B WS (Time collected: 9:20)		T4 S3A NA WS (Time collected: 10:37)		T4 S3A NB WS (Time collected: 10:45)		T4 S3A NC WS (Time collected: 10:55)	
Parameter	Units	Acute Criterion	Chronic Criterion	Highest Background*	Background Location			Construction Location			
					Top	Middle	Bottom	Top	Middle	Bottom	
Conventional Parameters											
Total Suspended Solids (TSS)	mg/L	--	--	TBD			10.4	7.60	12.4	21.6	
Metals^[6]											
Cadmium	µg/L	0.5	0.09	TBD			ND	ND	ND	ND	
Lead	µg/L	14	0.54	TBD			ND	ND	ND	ND	
Zinc	µg/L	36	36	TBD			12.3	10.3	11.7	8.22	
Polycyclic Aromatic Hydrocarbons (PAHs)											
Naphthalene	µg/L	807	194	TBD			ND	ND	ND	ND	
Acenaphthylene	µg/L	1277	307	TBD			ND	ND	ND	ND	
Acenaphthene	µg/L	233	56	TBD			ND	ND	ND	ND	
Fluorene	µg/L	162	39	TBD			ND	ND	ND	ND	
Phenanthrene	µg/L	79	19	TBD			ND	ND	ND	0.0436	
Anthracene	µg/L	87	21	TBD			ND	ND	ND	ND	
Fluoranthene	µg/L	30	7.1	TBD			ND	ND	0.0472	0.0913	
Pyrene	µg/L	42	10	TBD			ND	ND	0.0447	0.086	
Benzo(a)anthracene	µg/L	9.2	2.2	TBD			ND	ND	ND	0.0488	
Chrysene	µg/L	8.3	2.0	TBD			ND	ND	ND	0.0511	
Benzo(b)fluoranthene	µg/L	2.8	0.68	TBD			ND	ND	ND	ND	
Benzo(k)fluoranthene	µg/L	2.7	0.64	TBD			ND	ND	ND	ND	
Benzo(b+k)fluoranthenes*	µg/L	2.7	0.64	TBD						0.0922*	
Benzo(a)pyrene	µg/L	4.0	0.96	TBD			ND	ND	ND	0.0531	
Indeno(1,2,3-cd)pyrene	µg/L	1.2	0.28	TBD			ND	ND	ND	0.0529	
Dibenzo(a,h)anthracene	µg/L	1.2	0.28	TBD			ND	ND	ND	ND	
Benzo(g,h,i)perylene	µg/L	1.8	0.44	TBD			ND	ND	ND	0.0423	

Notes: * Benzo(b+k)Fluoranthene(s) reported due to insufficient peak separation between Benzo(b) and Benzo(k)Fluoranthene.

N/AV - Result not yet available

ND - Non Detect

J - Not within quality control limits, estimated data

 Above chronic criterion and background (and data not yet qualified)

 Above acute criterion and background (and data not yet qualified)

* Value is the 90th percentile background value calculated during pre-construction, or the value of the highest background sample taken on the same day (whichever is higher).

Port of Portland Terminal 4 Phase I Removal Action Daily Reporting Form for Field Parameters

Date: 8/21/2008					
Construction Activity: Berth 411 Dredging					
Construction Activity Times: Dredging occurred from					
Monitoring Times: Background Parameters taken at 07:20 and 15:00; Compliance Parameters taken 08:00 to 19:50					
Rounds of Sampling for Day:					
Triggers:					
Water Velocity (fps)	1.0 fps or higher				
DO (mg/L)	< 6.5 modify operations; < 6.0 cease operations				
Turbidity (NTU)	> 5 NTU over background (where background < 50 NTU) or 10% over background (where background > 50 NTU); > 50 NTU over background, cease operations				
pH (Standard Units)	< 6.5 or > 8.5				
Water Velocity (fps)	0.0 ft/s @ 15 ft				
ROUND 1					
* 90th Percentile Turbidity for 8/21/08 = 6.0 NTU					
* Background Station 1 = 4.8NTU					
* 90th percentile background value of 6.0 NTU used to calculate trigger for sampling in Round 1 since it is higher than background value.					
6.0 NTU + 5.0 NTU = 11.0 NTU Turbidity Trigger					
Station ID: BG-01 Background Station Field Parameters taken at: 07:20					
Water Depth (ft)		Parameters			
Depth to Bottom	43.1	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.45	21.94	4.8	7.11
Depth 2	22.0	7.36	21.94	5.5	7.58
Depth 3	40.0	7.30	21.95	4.8	7.85
Station ID: S3A-E Early Warning Station for All Field Parameters Except Turbidity taken at: 08:00					
Water Depth (ft)		Parameters			
Depth to Bottom	51.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.21	21.99	6.6	7.13
Depth 2	25.0	7.11	22.03	6.8	7.60
Depth 3	48.0	6.97	21.98	12.0	7.86
Station ID: S3A-M Compliance for All Field Parameters Except Turbidity taken at: 08:37					
Water Depth (ft)		Parameters			
Depth to Bottom	52.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.28	21.98	8.8	7.40
Depth 2	26.0	7.24	21.95	7.2	7.79
Depth 3	49.0	7.14	21.94	10.50	7.89
Station ID: S3A-N Compliance for All Field Parameters Except Turbidity taken at: 08:52					
Water Depth (ft)		Parameters			
Depth to Bottom	44.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3 ft	7.20	21.94	7.8	7.46
Depth 2	22.0	7.02	22.01	21.2	7.73
Depth 3	41.0	6.90	22.02	25.4	7.79
Station ID: S3A-S Compliance for All Field Parameters Except Turbidity taken at: 08:27					
Water Depth (ft)		Parameters			
Depth to Bottom	42.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.25	21.97	7.6	7.42
Depth 2	21.0	7.21	21.99	6.4	7.70
Depth 3	39.0	7.20	21.95	7.2	7.83
Station ID: S3M-E Early Warning for Turbidity Parameters taken at: 10:15					
Water Depth (ft)		Parameters			
Depth to Bottom	61.5	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.43	21.94	4.9	7.07
Depth 2	30.0	7.30	21.95	5.1	7.14
Depth 3	58.0	7.19	21.94	7.70	7.79
Station ID: S3M-S Compliance Location for Turbidity taken at: 10:25					
Water Depth (ft)		Parameters			
Depth to Bottom	58.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.40	21.92	7.0	7.27
Depth 2	29.0	7.28	21.95	6.9	7.81
Depth 3	55.0	7.21	21.94	11.00	8.07
Station ID: S3M-M Compliance Location for Turbidity taken at: 10:40					
Water Depth (ft)		Parameters			
Depth to Bottom	59.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.49	21.98	7.9	7.44
Depth 2	29.0	7.29	21.96	7.9	7.87
Depth 3	56.0	7.20	21.95	10.50	8.10
Station ID: S3M-N Compliance Location for Turbidity taken at: 10:50					
Water Depth (ft)		Parameters			
Depth to Bottom	36.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.50	21.95	6.6	7.48
Depth 2	18.0	7.31	21.97	7.3	7.72
Depth 3	33.0	7.28	21.97	7.60	7.83
ROUND 2					
* 90th Percentile Turbidity for 8/21/08 = 6.0 NTU					
* Background Station 4 = 11.1NTU					
* Background Station value of 11.1 NTU used to calculate trigger for sampling in Rounds 2 and 3 since it is higher than 90th Percentile value.					
11.1 NTU + 5.0 NTU = 16.1 NTU Turbidity Trigger					
Station ID: BG-04 Background Station Field Parameters taken at: 15:00					
Water Depth (ft)		Parameters			
Depth to Bottom	68.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.75	22.39	4.9	7.20
Depth 2	34.0	7.30	21.98	6.6	7.09
Depth 3	65.0	7.11	21.96	11.1	8.04
Station ID: S3A-E Early Warning Station for All Field Parameters Except Turbidity taken at: 16:10					
Water Depth (ft)		Parameters			
Depth to Bottom	50.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.28	22.58	4.8	7.28
Depth 2	25.0	6.55	22.04	11.9	7.16
Depth 3	47.0	6.50	22.11	34.4	7.16
Station ID: S3A-M Compliance for All Field Parameters Except Turbidity taken at: 16:20					

Water Depth (ft)		Parameters			
Depth to Bottom	47.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.16	22.48	6.4	7.27
Depth 2	23.0	6.54	22.03	12.6	7.18
Depth 3	44.0	6.39	22.06	22.40	7.16
Station ID: S3A-N Compliance for All Field Parameters Except Turbidity taken at: 16:25					
Water Depth (ft)		Parameters			
Depth to Bottom	46.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3 ft	7.23	22.55	5.8	7.30
Depth 2	23.0	6.59	22.03	8.3	7.20
Depth 3	43.0	6.47	22.07	24.0	7.17
Station ID: S3A-S Compliance for All Field Parameters Except Turbidity taken at: 16:35					
Water Depth (ft)		Parameters			
Depth to Bottom	40.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.29	22.62	5.5	7.31
Depth 2	20.0	6.71	22.06	8.6	7.21
Depth 3	37.0	6.44	22.01	11.6	7.17
Station ID: S3M-E Early Warning for Turbidity taken at: 16:45					
Water Depth (ft)		Parameters			
Depth to Bottom	59.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.26	22.39	5.8	7.31
Depth 2	30.0	6.74	21.98	7.3	7.21
Depth 3	56.0	6.42	21.94	14.80	7.18
Station ID: S3M-M Compliance Location for Turbidity taken at: 16:50					
Water Depth (ft)		Parameters			
Depth to Bottom	57.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	6.97	22.12	5.7	7.25
Depth 2	28.0	6.76	21.97	5.9	7.21
Depth 3	54.0	6.64	21.95	8.20	7.20
Station ID: S3M-N Compliance Location for Turbidity taken at: 16:55					
Water Depth (ft)		Parameters			
Depth to Bottom	32.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.32	22.49	5.9	7.33
Depth 2	16.0	6.88	22.03	6.3	7.23
Depth 3	29.0	6.69	21.98	8.00	7.21
Station ID: S3M-S Compliance Location for Turbidity taken at: 17:00					
Water Depth (ft)		Parameters			
Depth to Bottom	55.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.27	22.32	6.3	7.32
Depth 2	27.0	6.81	21.98	6.9	7.22
Depth 3	52.0	6.65	21.95	9.20	7.21
ROUND 3					
Station ID: S3A-E Early Warning Station for All Field Parameters Except Turbidity taken at: 18:50 (inside boom)					
Water Depth (ft)		Parameters			
Depth to Bottom	51.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.30	22.37	3.2	7.33
Depth 2	25.0	6.52	22.08	20.1	7.22
Depth 3	48.0	6.50	22.09	29.5	7.21
Station ID: S3A-M Compliance for All Field Parameters Except Turbidity taken at: 19:00					
Water Depth (ft)		Parameters			
Depth to Bottom	46.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.26	22.41	5.1	7.32
Depth 2	23.0	6.57	22.04	16.2	7.21
Depth 3	43.0	6.45	22.02	12.90	7.19
Station ID: S3A-N Compliance for All Field Parameters Except Turbidity taken at: 19:05					
Water Depth (ft)		Parameters			
Depth to Bottom	47.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.05	22.37	5.8	7.29
Depth 2	23.0	6.44	22.09	25.3	7.20
Depth 3	44.0	6.34	22.02	18.3	7.18
Station ID: S3A-S Compliance for All Field Parameters Except Turbidity taken at: 19:15					
Water Depth (ft)		Parameters			
Depth to Bottom	42.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.52	22.44	5.1	7.37
Depth 2	21.0	6.72	22.04	10.3	7.22
Depth 3	39.0	6.49	22.00	12.9	7.20
Station ID: S3M-E Early Warning for Turbidity taken at: 19:25					
Water Depth (ft)		Parameters			
Depth to Bottom	60.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.29	22.08	4.4	7.31
Depth 2	30.0	6.71	21.97	5.3	7.23
Depth 3	57.0	6.57	21.94	8.70	7.21
Station ID: S3M-M Compliance Location for Turbidity taken at: 19:30					
Water Depth (ft)		Parameters			
Depth to Bottom	65.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.10	22.15	7.6	7.28
Depth 2	32.0	6.76	21.97	8.1	7.22
Depth 3	62.0	6.55	21.95	10.30	7.21
Station ID: S3M-S Compliance Location for Turbidity taken at: 19:40					
Water Depth (ft)		Parameters			
Depth to Bottom	57.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.12	22.15	5.0	7.30
Depth 2	26.0	6.87	21.97	5.6	7.24
Depth 3	54.0	6.61	21.95	7.30	7.21
Station ID: S3M-N Compliance Location for Turbidity taken at: 19:50					
Water Depth (ft)		Parameters			
Depth to Bottom	36.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	6.93	22.04	5.9	7.31
Depth 2	18.0	6.77	21.99	7.2	7.22
Depth 3	33.0	6.68	21.98	7.70	7.22

Daily Reporting Template for Laboratory Parameters

Date: 08/24/08											
Time: 11:30:00 AM											
On-Time Result or Update:		On Time-Update: TSS Added									
Construction Activity:		Berth 411 Dredging									
Round of Sampling for Day (eg., 1st of 3 events):		1 of Sampling Events									
Additional Comments:		Samples collected on 8/21									
No exceedances detected											
		Sample I.D.:									
				BG 01 B WS 080821 <small>(Time collected: 7:20)</small>		T4 S3A NA WS 080821 <small>(Time collected: 9:00)</small>		T4 S3A NB WS 080821 <small>(Time collected: 9:25)</small>		T4 S3A NC WS 080821 <small>(Time collected: 9:35)</small>	
Parameter	Units	Acute Criterion	Chronic Criterion	Highest Background*	Background Location			Construction Location			
					Top	Middle	Bottom	Top	Middle	Bottom	
Conventional Parameters											
Total Suspended Solids (TSS)	mg/L	--	--	TBD			6.8	10.6	20.4	25.8	
Metals^[6]											
Cadmium	µg/L	0.5	0.09	TBD			ND	ND	ND	ND	
Lead	µg/L	14	0.54	TBD			ND	ND	ND	ND	
Zinc	µg/L	36	36	TBD			11.8	10.5	8.71	7.93	
Polycyclic Aromatic Hydrocarbons (PAHs)											
Naphthalene	µg/L	807	194	TBD			ND	ND	ND	ND	
Acenaphthylene	µg/L	1277	307	TBD			ND	ND	ND	ND	
Acenaphthene	µg/L	233	56	TBD			ND	ND	ND	ND	
Fluorene	µg/L	162	39	TBD			ND	ND	ND	ND	
Phenanthrene	µg/L	79	19	TBD			ND	ND	0.0431	0.0836	
Anthracene	µg/L	87	21	TBD			ND	ND	ND	ND	
Fluoranthene	µg/L	30	7.1	TBD			ND	0.0476	0.0977	0.194	
Pyrene	µg/L	42	10	TBD			ND	0.0469	0.0944	0.180	
Benzo(a)anthracene	µg/L	9.2	2.2	TBD			ND	ND	0.0563	0.114	
Chrysene	µg/L	8.3	2.0	TBD			ND	ND	0.0578	0.122	
Benzo(b)fluoranthene	µg/L	2.8	0.68	TBD			ND	ND			
Benzo(k)fluoranthene	µg/L	2.7	0.64	TBD			ND	ND			
Benzo(b+k)fluoranthenes*	µg/L	2.7	0.64	TBD					0.111*	0.250*	
Benzo(a)pyrene	µg/L	4.0	0.96	TBD			ND	ND	0.0649	0.152	
Indeno(1,2,3-cd)pyrene	µg/L	1.2	0.28	TBD			ND	ND	0.0618	0.123	
Dibenzo(a,h)anthracene	µg/L	1.2	0.28	TBD			ND	ND	ND	ND	
Benzo(g,h,i)perylene	µg/L	1.8	0.44	TBD			ND	ND	0.0520	0.117	

Notes: * Benzo(b+k)Fluoranthene(s) reported due to insufficient peak separation between Benzo(b) and Benzo(k)Fluoranthene.

N/AV - Result not yet available

ND - Non Detect

J - Not within quality control limits, estimated data

Above chronic criterion and background (and data not yet qualified)

Above acute criterion and background (and data not yet qualified)

* Value is the 90th percentile background value calculated during pre-construction, or the value of the highest background sample taken on the same day (whichever is higher).

Port of Portland Terminal 4 Phase I Removal Action Daily Reporting Form for Field Parameters

Date: 8/22/2008					
Construction Activity: Berth 411 Dredging					
Construction Activity Times: Dredging occurred from					
Monitoring Times: Background Parameters taken at 08:20 ; Compliance Parameters taken 08:42 to 21:05					
Rounds of Sampling for Day: 4					
Triggers:					
Water Velocity (fps)	1.0 fps or higher				
DO (mg/L)	< 6.5 modify operations; < 6.0 cease operations				
Turbidity (NTU)	> 5 NTU over background (where background < 50 NTU) or 10% over background (where background > 50 NTU); > 50 NTU over background, cease operations				
pH (Standard Units)	< 6.5 or > 8.5				
Water Velocity (fps)	0.0 ft/s @ 00 ft	(not taken - meter not working)			
* 90th Percentile Turbidity for 8/22/08 = 6.79 NTU * Background Station 1 = 9.6NTU * Background Station 1 used since it is higher than 90th Percentile value. 9.6 NTU + 5.0 NTU = 14.5 NTU Turbidity Trigger					
ROUND 1					
Station ID: BG-01 Background Station Field Parameters taken at: 08:20					
Water Depth (ft)		Parameters			
Depth to Bottom	72.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	9.04	21.80	8.5	7.41
Depth 2	36.0	8.57	21.92	8.8	7.34
Depth 3	69.0	8.42	21.89	9.6	7.33
Station ID: S3A-E Early Warning Station for All Field Parameters Except Turbidity taken at: 08:42 (inside boom)					
Water Depth (ft)		Parameters			
Depth to Bottom	51.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.81	21.73	7.6	7.42
Depth 2	26.0	8.41	21.84	10.7	7.33
Depth 3	48.0	8.22	21.87	17.1	7.31
Station ID: S3A-S Compliance for All Field Parameters Except Turbidity taken at: 09:03					
Water Depth (ft)		Parameters			
Depth to Bottom	42.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.77	21.87	6.8	7.39
Depth 2	21.0	8.47	21.88	7.1	7.32
Depth 3	39.0	8.26	21.87	7.0	7.29
Station ID: S3A-M Compliance for All Field Parameters Except Turbidity taken at: 09:10					
Water Depth (ft)		Parameters			
Depth to Bottom	48.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.70	21.89	8.6	7.38
Depth 2	24.0	8.37	21.89	7.5	7.29
Depth 3	45.0	8.17	21.87	7.10	7.27
Station ID: S3A-N Compliance for All Field Parameters Except Turbidity taken at: 09:17 (inside boom)					
Water Depth (ft)		Parameters			
Depth to Bottom	42.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.49	21.89	8.9	7.32
Depth 2	21.0	8.21	21.87	8.7	7.27
Depth 3	39.0	8.12	21.87	9.5	7.26
Round 2					
Station ID: S3A-E Early Warning Station for All Field Parameters Except Turbidity taken at: 11:57					
Water Depth (ft)		Parameters			
Depth to Bottom	48.6	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	9.11	22.48	3.7	7.30
Depth 2	24.0	8.62	21.98	5.6	7.19
Depth 3	45.0	8.27	22.00	16.1	7.16
Station ID: S3A-S Compliance for All Field Parameters Except Turbidity taken at: 12:18					
Water Depth (ft)		Parameters			
Depth to Bottom	41.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	9.05	22.47	4.6	7.19
Depth 2	20.0	8.52	21.98	7.9	7.16
Depth 3	38.0	8.10	21.91	16.8	7.14
Station ID: S3A-M Compliance for All Field Parameters Except Turbidity taken at: 12:25					
Water Depth (ft)		Parameters			
Depth to Bottom	50.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.95	22.40	5.8	7.27
Depth 2	25.0	8.40	21.96	11.6	7.18
Depth 3	47.0	8.24	21.94	17.30	7.17
Station ID: S3A-N Compliance for All Field Parameters Except Turbidity taken at: 12:30					
Water Depth (ft)		Parameters			
Depth to Bottom	41.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.94	22.19	6.6	7.27
Depth 2	20.0	8.48	21.96	7.7	7.19
Depth 3	38.0	8.25	21.91	11.4	7.18
Station ID: S3M-E Early Warning for Turbidity taken at: 12:45					
Water Depth (ft)		Parameters			
Depth to Bottom	60.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.87	22.15	8.2	7.25
Depth 2	30.0	8.50	21.94	9.3	7.20
Depth 3	57.0	8.34	21.93	12.60	7.19
Station ID: S3M-S Compliance Location for Turbidity taken at: 12:50					
Water Depth (ft)		Parameters			
Depth to Bottom	60.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.95	22.27	6.9	7.26
Depth 2	30.0	8.61	21.97	7.7	7.21
Depth 3	57.0	8.40	21.93	11.30	7.20
Station ID: S3M-M Compliance Location for Turbidity taken at: 12:55					
Water Depth (ft)		Parameters			
Depth to Bottom	58.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH

Depth 1	3.0	8.87	22.07	8.0	7.27
Depth 2	29.0	8.57	21.94	8.5	7.21
Depth 3	55.0	8.35	21.93	12.80	7.20
Station ID: S3M-N Compliance Location for Turbidity taken at: 13:05					
Water Depth (ft)		Parameters			
Depth to Bottom	34.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.94	22.39	7.2	7.28
Depth 2	17.0	8.55	21.98	10.3	7.22
Depth 3	31.0	8.47	21.93	12.20	7.20
Round 3					
Station ID: S3A-E Early Warning Station for All Field Parameters Except Turbidity taken at: 15:00 (inside boom)					
Water Depth (ft)		Parameters			
Depth to Bottom	49.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.79	22.61	6.6	7.13
Depth 2	25.0	8.04	22.03	15.8	7.02
Depth 3	46.0	7.79	21.98	18.8	7.02
Station ID: S3A-N Compliance for All Field Parameters Except Turbidity taken at: 16:15					
Water Depth (ft)		Parameters			
Depth to Bottom	44.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3 ft	9.10	23.06	4.7	7.14
Depth 2	22.0	8.40	22.07	4.9	7.04
Depth 3	41.0	7.90	21.96	13.3	6.99
Station ID: S3A-M Compliance for All Field Parameters Except Turbidity taken at: 16:25					
Water Depth (ft)		Parameters			
Depth to Bottom	43.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	9.11	22.96	5.7	7.16
Depth 2	22.0	8.13	22.05	11.4	7.03
Depth 3	40.0	7.96	21.96	13.20	7.01
Station ID: S3A-S Compliance for All Field Parameters Except Turbidity taken at: 16:30					
Water Depth (ft)		Parameters			
Depth to Bottom	40.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	9.03	23.02	5.5	7.17
Depth 2	20.0	8.27	22.07	6.1	7.04
Depth 3	37.0	7.99	21.96	10.9	7.02
Station ID: S3M-E Early Warning for Turbidity Parameters taken at: 16:40					
Water Depth (ft)		Parameters			
Depth to Bottom	59.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.92	22.46	5.5	7.13
Depth 2	30.0	8.51	22.05	6.1	7.08
Depth 3	56.0	7.80	21.95	9.70	7.00
Station ID: S3M-M Compliance Location for Turbidity taken at: 16:50					
Water Depth (ft)		Parameters			
Depth to Bottom	58.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.84	22.36	5.5	7.12
Depth 2	29.0	8.42	22.03	6.1	7.07
Depth 3	55.0	8.25	21.94	9.40	7.06
Station ID: S3M-S Compliance Location for Turbidity taken at: 17:00					
Water Depth (ft)		Parameters			
Depth to Bottom	55.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.73	22.31	9.1	7.12
Depth 2	27.0	8.40	22.06	10.4	7.08
Depth 3	52.0	8.27	22.03	16.40	7.06
Station ID: S3M-N Compliance Location for Turbidity taken at: 17:10					
Water Depth (ft)		Parameters			
Depth to Bottom	32.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	9.10	22.62	4.5	7.20
Depth 2	16.0	8.75	22.26	4.8	7.13
Depth 3	29.0	8.51	22.11	5.70	7.10
Station ID: BG-02 Background Station Field Parameters taken at: 17:45					
Water Depth (ft)		Parameters			
Depth to Bottom	63.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	9.05	22.46	4.4	7.12
Depth 2	32.0	8.49	22.03	5.9	7.06
Depth 3	60.0	8.34	21.95	10.2	7.06
Station ID: S3M-S Compliance Location for Turbidity taken at: 17:55 (back-up sample)					
Water Depth (ft)		Parameters			
Depth to Bottom	56.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	9.09	22.41	5.5	7.18
Depth 2	28.0	8.58	22.08	6.6	7.10
Depth 3	53.0	8.37	21.97	9.30	7.08
Round 4					
Station ID: S3A-E Early Warning Station for All Field Parameters Except Turbidity taken at: 20:00 (inside of boom)					
Water Depth (ft)		Parameters			
Depth to Bottom	50.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	9.00	22.57	4.5	7.23
Depth 2	25.0	8.26	22.13	16.8	7.12
Depth 3	47.0	8.00	22.09	22.0	7.11
Station ID: S3A-N Compliance for All Field Parameters Except Turbidity taken at: 20:05 (inside boom)					
Water Depth (ft)		Parameters			
Depth to Bottom	42.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3 ft	9.11	22.80	5.5	7.25
Depth 2	21.0	8.49	22.26	5.5	7.16
Depth 3	39.0	7.99	22.09	24.6	7.10
Station ID: S3A-M Compliance for All Field Parameters Except Turbidity taken at: 20:15					
Water Depth (ft)		Parameters			
Depth to Bottom	46.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	9.01	22.36	7.7	7.23
Depth 2	23.0	8.57	22.22	6.8	7.17
Depth 3	43.0	7.98	22.07	11.90	7.10
Station ID: S3A-S Compliance for All Field Parameters Except Turbidity taken at: 20:20					
Water Depth (ft)		Parameters			
Depth to Bottom	44.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH

Depth 1	3.0	9.07	22.74	5.4	7.24
Depth 2	22.0	8.45	22.19	6.2	7.15
Depth 3	41.0	8.12	22.08	12.4	7.11
Station ID: S3M-E Early Warning for Turbidity Parameters taken at: 20:40					
Water Depth (ft)		Parameters			
Depth to Bottom	62.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.61	22.19	6.2	7.19
Depth 2	31.0	8.29	22.03	7.4	7.13
Depth 3	59.0	8.01	21.95	9.20	7.13
Station ID: S3M-M Compliance Location for Turbidity taken at: 20:50					
Water Depth (ft)		Parameters			
Depth to Bottom	59.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.57	22.15	7.6	7.18
Depth 2	30.0	8.26	21.99	9.5	7.13
Depth 3	56.0	8.01	21.94	11.70	7.13
Station ID: S3M-S Compliance Location for Turbidity taken at: 20:55					
Water Depth (ft)		Parameters			
Depth to Bottom	57.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.77	22.19	6.8	7.22
Depth 2	28.0	8.15	21.95	8.7	7.13
Depth 3	54.0	8.03	21.94	10.50	7.12
Station ID: S3M-N Compliance Location for Turbidity taken at: 21:05					
Water Depth (ft)		Parameters			
Depth to Bottom	36.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.68	22.25	7.2	7.21
Depth 2	18.0	8.37	22.11	8.1	7.15
Depth 3	33.0	8.13	21.98	10.10	7.13

Daily Reporting Template for Laboratory Parameters

Date:		08/25/08								
Time:		03:10:00 PM								
On-Time Result or Update:		On Time								
Construction Activity:		Berth 411 Dredging								
Round of Sampling for Day (eg., 1st of 3 events):		1st of 4 Sampling Events								
Additional:		Collected on 08/22/08; no exceedances detected								
					Sample I.D.:					
							BG 01R C WS 080822 (Time collected: 9:30)	T4 S3A NA WS 080822 (Time collected: 9:45)	T4 S3A NB WS 080822 (Time collected: 9:55)	T4 S3A NC WS 080822 (Time collected: 10:00)
Parameter	Units	Acute Criterion	Chronic Criterion	Highest Background*	Background Location			Construction Location		
					Top	Middle	Bottom	Top	Middle	Bottom
Conventional Parameters										
Total Suspended Solids (TSS)	mg/L	--	--	TBD			10.8	7.80	8.00	23.2
Metals^[6]										
Cadmium	µg/L	0.5	0.09	TBD			ND	ND	ND	ND
Lead	µg/L	14	0.54	TBD			ND	ND	ND	ND
Zinc	µg/L	36	36	TBD			8.26	10.7	9.30	6.72
Polycyclic Aromatic Hydrocarbons (PAHs)										
Naphthalene	µg/L	807	194	TBD			ND	ND	ND	ND
Acenaphthylene	µg/L	1277	307	TBD			ND	ND	ND	ND
Acenaphthene	µg/L	233	56	TBD			ND	ND	ND	ND
Fluorene	µg/L	162	39	TBD			ND	ND	ND	ND
Phenanthrene	µg/L	79	19	TBD			ND	ND	ND	ND
Anthracene	µg/L	87	21	TBD			ND	ND	ND	ND
Fluoranthene	µg/L	30	7.1	TBD			ND	ND	ND	0.0431
Pyrene	µg/L	42	10	TBD			ND	ND	ND	0.0416
Benzo(a)anthracene	µg/L	9.2	2.2	TBD			ND	ND	ND	ND
Chrysene	µg/L	8.3	2.0	TBD			ND	ND	ND	ND
Benzo(b)fluoranthene	µg/L	2.8	0.68	TBD			ND	ND	ND	ND
Benzo(k)fluoranthene	µg/L	2.7	0.64	TBD			ND	ND	ND	ND
Benzo(a)pyrene	µg/L	4.0	0.96	TBD			ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	µg/L	1.2	0.28	TBD			ND	ND	ND	ND
Dibenzo(a,h)anthracene	µg/L	1.2	0.28	TBD			ND	ND	ND	ND
Benzo(g,h,i)perylene	µg/L	1.8	0.44	TBD			ND	ND	ND	ND

Notes:

N/AV - Result not yet available

ND - Non Detect

J - Not within quality control limits, estimated data

Above chronic criterion and background (and data not yet qualified)

Above acute criterion and background (and data not yet qualified)

* Value is the 90th percentile background value calculated during pre-construction, or the value of the highest background sample taken on the same day (whichever is higher).

Port of Portland Terminal 4 Phase I Removal Action Daily Reporting Form for Field Parameters

Date: 8/23/2008					
Construction Activity: Berth 411 Dredging					
Construction Activity Times: Dredging occurred from					
Monitoring Times: Background Parameters taken at 09:30, 12:50, and 15:20; Compliance Parameters taken 9:55 to 19:30					
Rounds of Sampling for Day: 4					
Triggers:					
Water Velocity (fps)	1.0 fps or higher				
DO (mg/L)	< 6.5 modify operations; < 6.0 cease operations				
Turbidity (NTU)	> 5 NTU over background (where background < 50 NTU) or 10% over background (where background > 50 NTU); > 50 NTU over background, cease operations				
pH (Standard Units)	< 6.5 or > 8.5				
ROUND 1					
* 90th Percentile Turbidity for 8/23/08 = 7.60 NTU					
* Background Station 1 = 8.90 NTU					
* Background Station 1 used since it is higher than 90th Percentile value.					
8.9 NTU + 5.0 NTU = 13.9 NTU Turbidity Trigger					
Water Velocity (fps)	0.0 ft/s @ 00 ft	(not taken - meter not working)			
Station ID: BG-01 Background Station Field Parameters taken at: 09:30					
Water Depth (ft)		Parameters			
Depth to Bottom	73.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.53	21.89	5.9	7.31
Depth 2	36.0	7.45	21.94	7.9	7.28
Depth 3	70.0	7.32	21.94	8.9	7.25
Station ID: S3A-E Early Warning Station for All Field Parameters Except Turbidity taken at: 09:55					
Water Depth (ft)		Parameters			
Depth to Bottom	46.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.17	21.97	12.3	7.25
Depth 2	23.0	7.11	22.04	12.5	7.22
Depth 3	43.0	6.82	22.00	18.7	7.19
Station ID: S3A-S Compliance for All Field Parameters Except Turbidity taken at: 10:15					
Water Depth (ft)		Parameters			
Depth to Bottom	40.7	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.39	22.08	8.4	7.24
Depth 2	20.0	7.18	22.03	8.3	7.20
Depth 3	37.0	7.13	22.01	10.6	7.19
Station ID: S3A-M Compliance for All Field Parameters Except Turbidity taken at: 10:35					
Water Depth (ft)		Parameters			
Depth to Bottom	48.2	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.32	22.13	12.5	7.28
Depth 2	24.0	7.11	22.04	12.8	7.19
Depth 3	45.0	6.90	22.02	35.00	7.14
Station ID: S3A-N Compliance for All Field Parameters Except Turbidity taken at: 10:40					
Water Depth (ft)		Parameters			
Depth to Bottom	42.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.21	22.15	11.4	7.21
Depth 2	21.0	6.87	22.07	11.0	7.14
Depth 3	39.0	6.92	22.03	16.1	7.15
Station ID: S3M-E Compliance Location for Turbidity taken at: 11:40					
Water Depth (ft)		Parameters			
Depth to Bottom	56.6	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.62	22.20	6.7	7.23
Depth 2	28.0	7.39	22.00	7.9	7.20
Depth 3	53.0	7.32	21.96	9.10	7.18
Station ID: S3M-M Compliance Location for Turbidity taken at: 11:50					
Water Depth (ft)		Parameters			
Depth to Bottom	58.3	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.70	22.23	7.5	7.29
Depth 2	29.0	7.44	21.98	8.9	7.20
Depth 3	55.0	7.27	21.95	13.20	7.18
Station ID: S3M-S Compliance Location for Turbidity taken at: 12:00					
Water Depth (ft)		Parameters			
Depth to Bottom	56.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.77	22.47	7.8	7.28
Depth 2	28.0	7.45	21.97	9.7	7.19
Depth 3	53.0	7.29	21.96	10.90	7.17
Station ID: S3M-N Compliance Location for Turbidity taken at: 12:15					
Water Depth (ft)		Parameters			
Depth to Bottom	32.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.56	22.20	9.1	7.21
Depth 2	16.0	7.45	21.97	9.9	7.18
Depth 3	29.0	7.35	21.95	13.60	7.17
Round 2					
* 90th Percentile Turbidity for 8/23/08 = 7.60 NTU					
* Background Station 2 = 19.2 NTU					
* Background Station 2 used since it is higher than 90th Percentile value.					
19.2 NTU + 5.0 NTU = 24.2 NTU Turbidity Trigger					
Station ID: BG-01 Background Station Field Parameters taken at: 12:50					
Water Depth (ft)		Parameters			
Depth to Bottom	69.2	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.79	22.47	7.7	7.18
Depth 2	34.0	7.40	21.97	9.8	7.15
Depth 3	66.0	7.28	21.96	19.2	7.13
Station ID: S3A-S Compliance for All Field Parameters Except Turbidity taken at: 13:10					
Water Depth (ft)		Parameters			
Depth to Bottom	40.5	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.57	22.35	8.6	7.18

Depth 2	20.0	7.07	22.05	12.1	7.09
Depth 3	37.0	6.95	22.02	14.0	7.08
Station ID: S3A-M Compliance for All Field Parameters Except Turbidity taken at: 13:15					
Water Depth (ft)		Parameters			
Depth to Bottom	48.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.66	22.43	9.5	7.18
Depth 2	24.0	7.23	22.03	10.9	7.12
Depth 3	45.0	6.73	22.00	35.50	7.05
Station ID: S3A-N Compliance for All Field Parameters Except Turbidity taken at: 13:25					
Water Depth (ft)		Parameters			
Depth to Bottom	43.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3 ft	7.67	23.12	8.5	7.22
Depth 2	21.0	7.07	22.05	13.5	7.10
Depth 3	40.0	6.84	22.06	34.5	7.06
Station ID: S3M-N Compliance Location for Turbidity taken at: 13:35					
Water Depth (ft)		Parameters			
Depth to Bottom	54.4	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.65	22.30	9.8	7.16
Depth 2	27.0	7.46	22.07	9.2	7.15
Depth 3	51.0	7.32	21.97	11.60	7.13
Station ID: S3M-N Compliance Location for Turbidity taken at: 14:50					
Water Depth (ft)		Parameters			
Depth to Bottom	32.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.84	22.71	5.8	7.11
Depth 2	16.0	7.55	22.13	7.1	7.06
Depth 3	29.0	7.33	22.05	10.20	7.02
Station ID: S3M-M Compliance Location for Turbidity taken at: 15:00					
Water Depth (ft)		Parameters			
Depth to Bottom	58.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.09	22.60	6.2	7.19
Depth 2	29.0	7.45	22.05	8.5	7.05
Depth 3	55.0	7.27	21.99	11.60	7.04
Station ID: S3M-S Compliance Location for Turbidity taken at: 15:05					
Water Depth (ft)		Parameters			
Depth to Bottom	55.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.87	22.77	6.4	7.07
Depth 2	27.0	7.48	22.03	8.4	7.06
Depth 3	52.0	7.26	21.98	11.20	7.04
Station ID: BG-01 Background Station Field Parameters taken at: 15:20					
Water Depth (ft)		Parameters			
Depth to Bottom	65.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.93	22.33	5.6	7.12
Depth 2	32.0	7.55	22.01	6.2	7.07
Depth 3	62.0	7.31	21.96	11.9	7.04
ROUND 3					
Station ID: S3A-E Early Warning Station for All Field Parameters Except Turbidity taken at: 17:50					
Water Depth (ft)		Parameters			
Depth to Bottom	50.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.37	22.66	5.8	7.15
Depth 2	25.0	6.72	22.14	13.7	7.07
Depth 3	47.0	6.53	22.12	24.1	7.05
Station ID: S3A-N Compliance for All Field Parameters Except Turbidity taken at: 18:00					
Water Depth (ft)		Parameters			
Depth to Bottom	40.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.39	22.71	5.9	7.19
Depth 2	20.0	6.83	22.16	6.0	7.10
Depth 3	37.0	6.48	22.08	21.8	7.07
Station ID: S3A-M Compliance for All Field Parameters Except Turbidity taken at: 18:15					
Water Depth (ft)		Parameters			
Depth to Bottom	44.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.46	22.69	4.8	7.20
Depth 2	22.0	7.28	22.26	5.0	7.14
Depth 3	41.0	6.78	22.06	7.80	7.10
Station ID: S3A-S Compliance for All Field Parameters Except Turbidity taken at: 18:20					
Water Depth (ft)		Parameters			
Depth to Bottom	39.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.01	23.75	5.5	7.38
Depth 2	20.0	6.81	22.17	5.2	7.11
Depth 3	36.0	6.68	22.03	10.4	7.10
Station ID: S3M-E Early Warning for Turbidity Parameters taken at: 18:25					
Water Depth (ft)		Parameters			
Depth to Bottom	59.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.02	22.97	4.0	7.30
Depth 2	30.0	7.25	22.11	4.8	7.16
Depth 3	56.0	6.71	22.01	14.10	7.12
Station ID: S3M-M Compliance Location for Turbidity taken at: 18:30					
Water Depth (ft)		Parameters			
Depth to Bottom	57.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.86	22.83	4.0	7.25
Depth 2	28.0	7.36	22.02	4.7	7.17
Depth 3	54.0	6.96	21.99	8.90	7.15
Station ID: S3M-N Compliance Location for Turbidity taken at: 18:40					
Water Depth (ft)		Parameters			
Depth to Bottom	31.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.86	22.86	4.5	7.31
Depth 2	15.0	7.51	22.39	4.7	7.21
Depth 3	28.0	7.21	22.18	5.70	7.18
Station ID: S3M-S Compliance Location for Turbidity taken at: 18:45					
Water Depth (ft)		Parameters			
Depth to Bottom	54.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.07	22.79	5.3	7.40
Depth 2	27.0	7.03	22.07	7.9	7.17

Depth 3	51.0	6.92	22.02	8.10	7.15
ROUND 4					
Station ID: S3A-E Early Warning Station for All Field Parameters Except Turbidity taken at: 19:05					
Water Depth (ft)		Parameters			
Depth to Bottom	50.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.12	23.34	2.7	7.34
Depth 2	25.0	6.85	22.17	16.2	7.12
Depth 3	47.0	6.59	22.07	17.5	7.11
Station ID: S3A-N Compliance for All Field Parameters Except Turbidity taken at: 19:20					
Water Depth (ft)		Parameters			
Depth to Bottom	41.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3 ft	8.22	23.58	2.8	7.43
Depth 2	20.5	7.18	22.23	5.1	7.15
Depth 3	38.0	6.60	22.10	12.9	7.09
Station ID: S3A-M Compliance for All Field Parameters Except Turbidity taken at: 19:25					
Water Depth (ft)		Parameters			
Depth to Bottom	43.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.94	23.24	3.8	7.33
Depth 2	21.0	7.03	22.16	7.4	7.15
Depth 3	40.0	6.61	22.02	14.30	7.11
Station ID: S3A-S Compliance for All Field Parameters Except Turbidity taken at: 19:30					
Water Depth (ft)		Parameters			
Depth to Bottom	40.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	8.02	22.92	3.9	7.31
Depth 2	20.0	6.95	22.10	6.2	7.16
Depth 3	37.0	6.70	22.04	8.6	7.13

Port of Portland Terminal 4 Phase I Removal Action Daily Reporting Form for Field Parameters

Date: 8/24/2008					
Construction Activity: Berth 411 Dredging					
Construction Activity Times: Dredging occurred from					
Monitoring Times: Background Parameters taken at 08:00 and 14:10 ; Compliance Parameters taken 09:15 to 16:07					
Rounds of Sampling for Day: 4					
Triggers:					
Water Velocity (fps)	1.0 fps or higher				
DO (mg/L)	< 6.5 modify operations; < 6.0 cease operations				
Turbidity (NTU)	> 5 NTU over background (where background < 50 NTU) or 10% over background (where background > 50 NTU); > 50 NTU over background, cease operations				
pH (Standard Units)	< 6.5 or > 8.5				
ROUND 1					
* 90th Percentile Turbidity for 8/24/08 = 8.38 NTU					
* Background Station 1 = 12.8 NTU					
* Background Station value of 12.8NTU used to calculate trigger for sampling in Round 1 since it is higher than 90th Percentile value.					
12.8 NTU + 5.0 NTU = 17.8 NTU Turbidity Trigger					
Water Velocity (fps)	0.0 ft/s @ 15 ft				
Water Depth (ft)		Parameters			
Depth to Bottom	62.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.19	22.06	6.4	7.10
Depth 2	31.0	7.02	22.05	6.1	7.13
Depth 3	59.0	6.79	22.04	12.8	7.11
Station ID: S3A-E Early Warning Station for All Field Parameters Except Turbidity taken at: 09:15					
Water Depth (ft)		Parameters			
Depth to Bottom	63.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	6.75	22.27	5.2	7.08
Depth 2	31.0	6.63	22.11	8.4	7.06
Depth 3	60.0	6.48	22.05	11.4	7.05
Station ID: S3A-N Compliance for All Field Parameters Except Turbidity taken at: 09:35					
Water Depth (ft)		Parameters			
Depth to Bottom	50.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3 ft	6.82	22.22	4.6	7.12
Depth 2	25.0	6.65	22.15	6.1	7.05
Depth 3	47.0	6.53	22.06	8.7	7.05
Station ID: S3A-M Compliance for All Field Parameters Except Turbidity taken at: 09:45					
Water Depth (ft)		Parameters			
Depth to Bottom	41.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	6.88	22.32	5.9	7.09
Depth 2	20.0	6.74	22.15	6.4	7.06
Depth 3	38.0	6.63	22.11	7.60	7.06
Station ID: S3A-S Compliance for All Field Parameters Except Turbidity taken at: 09:55					
Water Depth (ft)		Parameters			
Depth to Bottom	40.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	6.88	22.35	5.3	7.09
Depth 2	20.0	6.69	22.15	6.6	7.06
Depth 3	37.0	6.59	22.11	8.2	7.05
ROUND 2					
Station ID: S3A-E Early Warning Station for All Field Parameters Except Turbidity taken at: 10:06					
Water Depth (ft)		Parameters			
Depth to Bottom	51.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	6.70	22.23	5.5	7.06
Depth 2	25.0	6.61	22.16	7.8	7.06
Depth 3	48.0	6.43	22.02	14.7	7.05
Station ID: S3A-N Compliance for All Field Parameters Except Turbidity taken at: 10:19					
Water Depth (ft)		Parameters			
Depth to Bottom	50.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3 ft	6.87	22.38	4.4	7.08
Depth 2	25.0	6.79	22.13	6.1	7.07
Depth 3	47.0	6.46	22.02	9.5	7.03
Station ID: S3A-M Compliance for All Field Parameters Except Turbidity taken at: 11:15					
Water Depth (ft)		Parameters			
Depth to Bottom	42.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	6.55	22.31	7.4	6.99
Depth 2	21.0	6.46	22.15	7.7	6.99
Depth 3	39.0	6.26	22.09	10.80	6.98
Station ID: S3A-S Compliance for All Field Parameters Except Turbidity taken at: 11:22					
Water Depth (ft)		Parameters			
Depth to Bottom	40.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	6.70	22.52	6.9	7.02
Depth 2	20.0	6.37	22.14	8.2	6.98
Depth 3	37.0	6.15	22.09	9.6	6.95
ROUND 3					
Station ID: S3A-E Early Warning Station for All Field Parameters Except Turbidity taken at: 11:55					
Water Depth (ft)		Parameters			
Depth to Bottom	52.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	6.36	22.36	6.7	6.96

Depth 2	26.0	6.34	22.13	7.6	6.94
Depth 3	49.0	6.04	22.07	20.4	6.91
Station ID: S3A-N Compliance for All Field Parameters Except Turbidity taken at: 12:06					
Water Depth (ft)		Parameters			
Depth to Bottom	46.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	50.0	6.84	22.64	6.0	7.10
Depth 2	25.0	6.39	22.13	8.7	6.96
Depth 3	47.0	6.06	22.09	16.4	6.94
Station ID: S3A-M Compliance for All Field Parameters Except Turbidity taken at: 12:11					
Water Depth (ft)		Parameters			
Depth to Bottom	42.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	6.67	22.54	6.0	7.04
Depth 2	21.0	6.39	22.13	7.2	6.97
Depth 3	39.0	6.32	22.09	10.80	6.97
Station ID: S3A-S Compliance for All Field Parameters Except Turbidity taken at: 12:17					
Water Depth (ft)		Parameters			
Depth to Bottom	40.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	6.71	22.47	7.6	7.07
Depth 2	20.0	6.34	22.13	8.0	6.97
Depth 3	37.0	6.37	22.10	9.7	6.99
ROUND 4					
* 90th Percentile Turbidity for 8/24/08 = 8.38 NTU					
* Background Station 15.9 = NTU					
* Background station value of 15.9 NTU used to calculate trigger for sampling in Round 4 since it is higher than background value.					
15.9 NTU + 5.0 NTU = 20.9 NTU Turbidity Trigger					
Station ID: BG-01 Background Station Field Parameters taken at: 14:10					
Water Depth (ft)		Parameters			
Depth to Bottom	63.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.27	22.57	4.7	7.08
Depth 2	31.0	6.59	22.03	6.2	6.98
Depth 3	60.0	6.28	22.01	15.9	6.95
Station ID: S3A-E Early Warning Station for All Field Parameters Except Turbidity taken at: 15:21					
Water Depth (ft)		Parameters			
Depth to Bottom	50.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	6.72	22.51	5.0	7.01
Depth 2	25.0	6.32	22.14	6.2	6.93
Depth 3	47.0	6.11	22.14	38.8	6.92
Station ID: S3A-N Compliance for All Field Parameters Except Turbidity taken at: 15:27					
Water Depth (ft)		Parameters			
Depth to Bottom	50.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	6.88	22.64	4.7	7.08
Depth 2	23.0	6.37	22.13	10.2	6.95
Depth 3	47.0	6.10	22.08	33.4	6.93
Station ID: S3A-M Compliance for All Field Parameters Except Turbidity taken at: 15:37					
Water Depth (ft)		Parameters			
Depth to Bottom	44.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	6.95	22.52	3.9	7.04
Depth 2	22.0	6.49	22.13	4.5	6.97
Depth 3	41.0	6.29	22.05	8.50	6.95
Station ID: S3A-S Compliance for All Field Parameters Except Turbidity taken at: 15:42					
Water Depth (ft)		Parameters			
Depth to Bottom	40.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	6.86	22.49	5.8	7.04
Depth 2	20.0	6.36	22.16	5.9	6.95
Depth 3	39.0	6.35	22.07	8.4	6.96
Station ID: S3M-E Early Warning for Turbidity taken at: 15:57					
Water Depth (ft)		Parameters			
Depth to Bottom	60.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.44	22.53	3.2	7.16
Depth 2	30.0	6.52	22.02	5.7	6.99
Depth 3	57.0	6.38	21.99	8.60	6.98
Station ID: S3M-N Compliance Location for Turbidity taken at: 16:07					
Water Depth (ft)		Parameters			
Depth to Bottom	36.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.42	22.51	4.4	7.18
Depth 2	18.0	6.71	22.09	4.5	7.01
Depth 3	33.0	6.51	22.00	6.70	6.98
Station ID: S3M-M Compliance Location for Turbidity taken at: 16:15					
Water Depth (ft)		Parameters			
Depth to Bottom	58.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.26	22.47	4.3	7.13
Depth 2	29.0	6.60	22.02	5.4	7.01
Depth 3	55.0	6.32	21.97	9.80	7.00
Station ID: S3M-S Compliance Location for Turbidity taken at: 16:20					
Water Depth (ft)		Parameters			
Depth to Bottom	57.0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3.0	7.12	22.15	5.0	7.30
Depth 2	26.0	6.87	21.97	5.6	7.24
Depth 3	54.0	6.61	21.95	7.30	7.21

ATTACHMENT E
DAILY RESULTS FROM WATER QUALITY MONITORING ACTIVITY AT
THE TRANSLOADING FACILITY

Port of Portland Terminal 4 Phase I Removal Action Daily Reporting Form for Field Parameters

Date: 8/18/2008					
Construction Activity: Transloading					
Construction Activity Times: Transloading occurred from 11:02 - 17:00					
Monitoring Times: Background Parameters taken at 11:02; Compliance Parameters taken 12:00 to 15:54					
Rounds of Sampling for Day: 2+					
Turbidity Trigger: 7.95 NTU based on 2.95 NTU Background Value + 5 NTU					
Triggers:					
DO (mg/L)	< 6.5 modify operations; < 6.0 cease operations				
Turbidity (NTU)	> 5 NTU over background (where background < 50 NTU) or 10% over background (where background > 50 NTU); > 50 NTU over background, cease operations				
pH (Standard Units)	< 6.5 or > 8.5				
Round 1					
Water Velocity (fps)	--				
Station ID: Background Station Field Parameters taken at: 11:02					
Water Depth (ft)		Parameters			
Depth to Bottom	80	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.95	21.78	2.76	7.69
Depth 2	40	8.86	21.79	2.95	7.72
Depth 3	65	8.80	21.79	2.14	7.75
Station ID: Early Warning Station Field Parameters taken at: 12:00					
Water Depth (ft)		Parameters			
Depth to Bottom	80	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.64	21.72	2.49	7.71
Depth 2	40	8.42	21.71	2.36	7.74
Depth 3	77	8.78	21.62	2.50	7.73
Station ID: South Station Parameters taken at: 12:35					
Water Depth (ft)		Parameters			
Depth to Bottom	22	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.70	21.75	2.21	7.70
Depth 2	11	8.69	21.75	2.56	7.70
Depth 3	19	8.67	21.76	2.18	7.71
Station ID: Middle Station Parameters taken at: 12:57					
Water Depth (ft)		Parameters			
Depth to Bottom	79	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.71	21.91	2.31	7.73
Depth 2	40	8.91	21.87	2.12	7.72
Depth 3	75	8.74	21.80	2.42	7.70
Station ID: North Station Parameters taken at: 13:15					
Water Depth (ft)		Parameters			
Depth to Bottom	90	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.79	21.84	2.39	7.72
Depth 2	45	8.75	21.82	2.57	7.72
Depth 3	85	8.62	21.87	2.27	7.73
Round 2					
Station ID: Early Warning Station Parameters taken at: 14:22					
Water Depth (ft)		Parameters			
Depth to Bottom	70	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.70	21.92	2.34	7.72
Depth 2	35	8.72	21.93	2.46	7.72
Depth 3	62	9.17	21.95	2.95	7.73

Station ID: South Station Parameters taken at: 14:45					
Water Depth (ft)		Parameters			
Depth to Bottom		DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.71	21.91	2.31	7.73
Depth 2	12	8.86	21.84	2.40	7.72
Depth 3	23	8.62	21.89	2.56	7.72
Station ID: Middle Station Parameters taken at: 14:56					
Water Depth (ft)		Parameters			
Depth to Bottom		DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.69	21.89	2.03	7.73
Depth 2	40	8.88	21.89	2.36	7.73
Depth 3	75	8.79	21.90	2.13	7.73
Station ID: North Station Parameters taken at: 15:11					
Water Depth (ft)		Parameters			
Depth to Bottom		DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.72	21.87	2.98	7.75
Depth 2	42	8.72	21.94	2.21	7.74
Depth 3	84	8.75	21.92	2.61	7.72
Round 3					
Station ID: Early Warning Station Parameters taken at: 15:54					
Water Depth (ft)		Parameters			
Depth to Bottom		DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.67	21.90	2.19	7.74
Depth 2	31	8.82	21.92	2.32	7.74
Depth 3	59	8.82	21.92	2.39	7.74

Port of Portland Terminal 4 Phase I Removal Action Daily Reporting Form for Field Parameters

Date: 8/19/2008
Construction Activity: Transloading
Construction Activity Times: Transloading occurred from 06:00 - 16:00
Monitoring Times: Background Parameters taken at 0646; Compliance Parameters taken 0740 to 1621
Rounds of Sampling for Day: 4
Updated Turbidity Trigger: 7.35 NTU based on 2.35 NTU Background Value

Triggers:
DO (mg/L) < 6.5 modify operations; < 6.0 cease operations
Turbidity (NTU) > 5 NTU over background (where background < 50 NTU) or 10% over background (where background > 50 NTU); > 50 NTU over background, cease operations
pH (Standard Units) < 6.5 or > 8.5

Round 1

Water Velocity (fps) varied from .16-4.5 ft/sec @ 8ft

Station ID: Background Station Field Parameters taken at: 0646

Water Depth (ft)		Parameters			
Depth to Bottom	78	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.30	21.22	2.28	7.75
Depth 2	39	8.38	21.51	2.49	7.74
Depth 3	75	8.55	21.58	2.28	7.73

Station ID: Early Warning Station Field Parameters Not Required

Water Depth (ft)		Parameters			
Depth to Bottom	0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	0	0.00	0.00	0.00	0.00
Depth 2	0	0.00	0.00	0.00	0.00
Depth 3	0	0.00	0.00	0.00	0.00

Station ID: South Station Parameters taken at: 0740

Water Depth (ft)		Parameters			
Depth to Bottom	64	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.55	21.43	2.27	7.72
Depth 2	32	8.78	21.54	2.48	7.72
Depth 3	61	8.45	21.47	2.34	7.72

Station ID: Middle Station Parameters taken at: 0810

Water Depth (ft)		Parameters			
Depth to Bottom	78	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.55	21.40	2.06	7.71
Depth 2	39	8.38	21.48	2.07	7.71
Depth 3	75	8.50	21.49	2.16	7.72

Station ID: North Station Parameters taken at: 0840

Water Depth (ft)		Parameters			
Depth to Bottom	104	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.51	21.46	2.13	7.71
Depth 2	52	8.39	21.53	1.87	7.72
Depth 3	101	8.73	21.48	2.64	7.72

Round 2

Station ID: Background Station Field Parameters taken at: 0646

Water Depth (ft)		Parameters			
Depth to Bottom	78	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.30	21.22	2.28	7.75
Depth 2	39	8.38	21.51	2.49	7.74

Depth 3	75	8.55	21.58	2.28	7.73
Station ID: Early Warning Station Field Parameters Not Required					
Water Depth (ft)		Parameters			
Depth to Bottom	0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	0	0.00	0.00	0.00	0.00
Depth 2	0	0.00	0.00	0.00	0.00
Depth 3	0	0.00	0.00	0.00	0.00
Station ID: South Station Parameters taken at: 0905					
Water Depth (ft)		Parameters			
Depth to Bottom	62	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.56	21.53	1.83	7.72
Depth 2	31	8.56	21.50	2.11	7.72
Depth 3	59	8.84	21.46	2.22	7.72
Station ID: Middle Station Parameters taken at: 0919					
Water Depth (ft)		Parameters			
Depth to Bottom	76	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.66	21.54	2.28	7.73
Depth 2	38	8.49	21.54	2.83	7.73
Depth 3	73	8.52	21.63	2,48	7.74
Station ID: North Station Parameters taken at: 0946					
Water Depth (ft)		Parameters			
Depth to Bottom	103	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.55	21.49	2.41	7.73
Depth 2	51	8.70	21.56	2.12	7.72
Depth 3	100	8.71	21.47	1.99	7.72
Round 3					
Station ID: Background Station Field Parameters taken at: 0646					
Water Depth (ft)		Parameters			
Depth to Bottom	78	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.30	21.22	2.28	7.75
Depth 2	39	8.38	21.51	2.49	7.74
Depth 3	75	8.55	21.58	2.28	7.73
Station ID: Early Warning Station Field Parameters Not Required					
Water Depth (ft)		Parameters			
Depth to Bottom	0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	0	0.00	0.00	0.00	0.00
Depth 2	0	0.00	0.00	0.00	0.00
Depth 3	0	0.00	0.00	0.00	0.00
Station ID: Middle Station Parameters taken at: 1254					
Water Depth (ft)		Parameters			
Depth to Bottom	65	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.91	21.51	2.47	7.71
Depth 2	33	9.09	21.34	2.53	7.70
Depth 3	62	8.86	21.34	2.33	7.71
Station ID: North Station Parameters taken at: 1309					
Water Depth (ft)		Parameters			
Depth to Bottom	78	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.94	21.41	2.48	7.72
Depth 2	39	8.86	21.41	2.59	7.72
Depth 3	75	9.00	21.38	2.24	7.72
Station ID: South Station Parameters taken at: 1327					
Water Depth (ft)		Parameters			
Depth to Bottom	104	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.99	21.41	2.14	7.73

Depth 2	52	8.93	21.34	2.21	7.72
Depth 3	100	8.88	21.43	2.09	7.72
Round 4					
Station ID: Background Station Field Parameters taken at: 0646					
Water Depth (ft)		Parameters			
Depth to Bottom	78	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.30	21.22	2.28	7.75
Depth 2	39	8.38	21.51	2.49	7.74
Depth 3	75	8.55	21.58	2.28	7.73
Station ID: Early Warning Station Field Parameters Not Required					
Water Depth (ft)		Parameters			
Depth to Bottom	0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	0	0.00	0.00	0.00	0.00
Depth 2	0	0.00	0.00	0.00	0.00
Depth 3	0	0.00	0.00	0.00	0.00
Station ID: South Station Parameters taken at: 1558					
Water Depth (ft)		Parameters			
Depth to Bottom	64	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	9.61	21.96	2.19	7.71
Depth 2	32	9.29	21.37	2.11	7.71
Depth 3	61	9.24	21.41	2.07	7.70
Station ID: Middle Station Parameters taken at: 1612					
Water Depth (ft)		Parameters			
Depth to Bottom	78	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	9.17	21.34	1.98	7.71
Depth 2	39	9.04	21.34	1.94	7.71
Depth 3	75	9.06	21.36	2.65	7.71
Station ID: North Station Parameters taken at: 1621					
Water Depth (ft)		Parameters			
Depth to Bottom	100	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.97	21.40	2.38	7.69
Depth 2	50	9.02	21.36	2.83	7.72
Depth 3	97	9.05	21.36	2.05	7.72

Port of Portland Terminal 4 Phase I Removal Action Daily Reporting Form for Field Parameters

Date: 8/20/2008
Construction Activity: Transloading
Construction Activity Times: Transloading occurred from 06:00 - 16:30
Monitoring Times: Background Parameters taken at 0715; Compliance Parameters taken 0740 to 1615
Rounds of Sampling for Day: 3
Updated Turbidity Trigger: 7.21 NTU based on 2.21 NTU Background Value

Triggers:
DO (mg/L) < 6.5 modify operations; < 6.0 cease operations
Turbidity (NTU) > 5 NTU over background (where background < 50 NTU) or 10% over background (where background > 50 NTU); > 50 NTU over background, cease operations
pH (Standard Units) < 6.5 or > 8.5

Round 1

Water Velocity (fps) N/A

Station ID: Background Station Field Parameters taken at: 0715

Water Depth (ft)		Parameters			
Depth to Bottom	73	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.68	20.95	2.25	7.68
Depth 2	36	8.63	21.39	2.39	7.67
Depth 3	70	8.50	21.10	2.10	7.67

Station ID: Early Warning Station Field Parameters Not Required

Water Depth (ft)		Parameters			
Depth to Bottom	0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	0	0.00	0.00	0.00	0.00
Depth 2	0	0.00	0.00	0.00	0.00
Depth 3	0	0.00	0.00	0.00	0.00

Station ID: South Station Parameters taken at: 0740

Water Depth (ft)		Parameters			
Depth to Bottom	65	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.58	21.15	2.30	7.68
Depth 2	32	8.54	21.17	2.42	7.67
Depth 3	62	8.81	21.12	2.04	7.67

Station ID: Middle Station Parameters taken at: 0754

Water Depth (ft)		Parameters			
Depth to Bottom	78	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.55	21.14	1.87	7.68
Depth 2	39	8.64	21.18	2.04	7.67
Depth 3	75	8.59	21.12	2.07	7.68

Station ID: North Station Parameters not taken due to new barge arrival at 0810

Water Depth (ft)		Parameters			
Depth to Bottom		DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1					
Depth 2					
Depth 3					

Round 2

Station ID: Background Station Field Parameters taken at: 0715

Water Depth (ft)		Parameters			
Depth to Bottom	73	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.68	20.95	2.25	7.68
Depth 2	36	8.63	21.39	2.39	7.67

Depth 3	70	8.50	21.10	2.10	7.67
Station ID: Early Warning Station Field Parameters Not Required					
Water Depth (ft)		Parameters			
Depth to Bottom	0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	0	0.00	0.00	0.00	0.00
Depth 2	0	0.00	0.00	0.00	0.00
Depth 3	0	0.00	0.00	0.00	0.00
Station ID: South Station Parameters taken at: 1335					
Water Depth (ft)		Parameters			
Depth to Bottom	27	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	9.70	21.30	2.60	7.70
Depth 2	14	9.13	21.27	2.15	7.69
Depth 3	24	8.93	21.34	2.34	7.69
Station ID: Middle Station Parameters taken at: 1349					
Water Depth (ft)		Parameters			
Depth to Bottom	76	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.48	21.40	2.58	7.70
Depth 2	38	8.84	21.40	2.49	7.70
Depth 3	73	8.79	21.41	2.28	7.69
Station ID: North Station Parameters taken at: 1400					
Water Depth (ft)		Parameters			
Depth to Bottom	103	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.78	21.40	2.16	7.69
Depth 2	51	8.67	21.41	2.54	7.70
Depth 3	100	8.72	21.36	2.71	7.70
Round 3					
Station ID: Background Station Field Parameters taken at: 0715					
Water Depth (ft)		Parameters			
Depth to Bottom	73	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.68	20.95	2.25	7.68
Depth 2	36	8.63	21.39	2.39	7.67
Depth 3	70	8.50	21.10	2.10	7.67
Station ID: Early Warning Station Field Parameters Not Required					
Water Depth (ft)		Parameters			
Depth to Bottom	0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	0	0.00	0.00	0.00	0.00
Depth 2	0	0.00	0.00	0.00	0.00
Depth 3	0	0.00	0.00	0.00	0.00
Station ID: South Station Parameters taken at: 1551					
Water Depth (ft)		Parameters			
Depth to Bottom	28	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	9.18	21.38	2.16	7.70
Depth 2	14	9.16	21.34	2.01	7.70
Depth 3	26	8.95	21.39	2.19	7.70
Station ID: Middle Station Parameters taken at: 1605					
Water Depth (ft)		Parameters			
Depth to Bottom	74	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.57	21.39	2.25	7.70
Depth 2	37	8.89	21.40	2.09	7.70
Depth 3	71	8.88	21.39	2.20	7.70
Station ID: North Station Parameters taken at: 1615					
Water Depth (ft)		Parameters			
Depth to Bottom	104	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.70	21.40	2.47	7.70

Depth 2	50	8.74	21.36	2.44	7.69
Depth 3	97	8.75	21.38	2.02	7.71

Port of Portland Terminal 4 Phase I Removal Action Daily Reporting Form for Field Parameters

Date: 8/21/2008					
Construction Activity: Transloading					
Construction Activity Times: Transloading occurred from 06:00 - 16:30					
Monitoring Times: Background Parameters taken at 1022; Compliance Parameters taken from 1104 to 1655					
Rounds of Sampling for Day: 2					
Updated Turbidity Trigger: 7.68 NTU based on 2.68 NTU Background Value					
Triggers:					
DO (mg/L)	< 6.5 modify operations; < 6.0 cease operations				
Turbidity (NTU)	> 5 NTU over background (where background < 50 NTU) or 10% over background (where background > 50 NTU); > 50 NTU over background, cease operations				
pH (Standard Units)	< 6.5 or > 8.5				
Round 1					
Water Velocity (fps)	N/A				
Station ID: Background Station Field Parameters taken at: 1022					
Water Depth (ft)		Parameters			
Depth to Bottom	76	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	9.19	21.51	2.45	7.56
Depth 2	38	9.43	21.52	2.73	7.50
Depth 3	73	9.49	21.52	2.88	7.43
Station ID: Early Warning Station Field Parameters Not Required					
Water Depth (ft)		Parameters			
Depth to Bottom	0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	0	0.00	0.00	0.00	0.00
Depth 2	0	0.00	0.00	0.00	0.00
Depth 3	0	0.00	0.00	0.00	0.00
Station ID: South Station Parameters taken at: 1104					
Water Depth (ft)		Parameters			
Depth to Bottom	58	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	9.27	21.47	2.35	7.66
Depth 2	29	9.42	21.52	2.44	7.66
Depth 3	55	9.30	21.81	2.23	7.64
Station ID: Middle Station Parameters taken at: 1130					
Water Depth (ft)		Parameters			
Depth to Bottom	74	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	9.07	21.52	2.58	7.67
Depth 2	37	9.32	21.51	2.68	7.66
Depth 3					
Station ID: North Station Parameters not taken due to loss of Van Dorn					
Water Depth (ft)		Parameters			
Depth to Bottom		DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1					
Depth 2					
Depth 3					
Round 2					
Station ID: Background Station Field Parameters taken at: 1022					
Water Depth (ft)		Parameters			
Depth to Bottom	76	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	9.19	21.51	2.45	7.56
Depth 2	38	9.43	21.52	2.73	7.50

Depth 3	73	9.49	21.52	2.88	7.43
Station ID: Early Warning Station Field Parameters Not Required					
Water Depth (ft)		Parameters			
Depth to Bottom	0	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	0	0.00	0.00	0.00	0.00
Depth 2	0	0.00	0.00	0.00	0.00
Depth 3	0	0.00	0.00	0.00	0.00
Station ID: South Station Parameters taken at: 1625					
Water Depth (ft)		Parameters			
Depth to Bottom	64	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	9.61	21.67	2.59	7.61
Depth 2	32	9.61	21.60	2.61	7.65
Depth 3	61	9.53	21.50	2.49	7.64
Station ID: Middle Station Parameters taken at: 1655					
Water Depth (ft)		Parameters			
Depth to Bottom	75	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	9.57	21.33	2.57	7.65
Depth 2	37	9.65	21.37	2.43	7.65
Depth 3	72	9.41	21.41	2.28	7.65
Station ID: North Station Parameters taken at: 1641					
Water Depth (ft)		Parameters			
Depth to Bottom	100	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	9.67	21.42	2.76	7.65
Depth 2	50	9.62	21.44	2.37	7.65
Depth 3	85	9.40	21.43	2.51	7.65

Port of Portland Terminal 4 Phase I Removal Action Daily Reporting Form for Field Parameters

Date: 8/22/2008					
Construction Activity: Offloading at The Dalles					
Construction Activity Times:					
Rounds of Sampling for Day: 1					
Triggers:					
Water Velocity (fps)	1.0 fps or higher				
DO (mg/L)	< 6.5 modify operations; < 6.0 cease operations				
Turbidity (NTU)	> 5 NTU over background (where background < 50 NTU) or 10% over background (where background > 50 NTU); > 50 NTU over background, cease operations				
pH (Standard Units)	< 6.5 or > 8.5				
ROUND 1					
* 90th Percentile Turbidity for 8/20/08 = 6.0 NTU					
* Background Station 1 = 4.5NTU					
* 90th percentile background value of 6.0 NTU used to calculate trigger for sampling in Rounds 1 and 2 since it is higher than background value. 6.0 NTU + 5.0 NTU = 11.0 NTU Turbidity Trigger					
Water Velocity (fps)	ft/s @ 15 ft				
Station ID: DAL-BG Background Station Field Parameters taken at: 11:35					
Water Depth (ft)		Parameters			
Depth to Bottom	80	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.40	21.40	2.60	7.63
Depth 2	40	8.27	21.21	2.37	7.69
Depth 3	77	8.26	21.16	2.05	7.67
Station ID: DAL-E Early Warning Station for All Field Parameters taken at: None					
Water Depth (ft)		Parameters			
Depth to Bottom		DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1					
Depth 2					
Depth 3					
Station ID: DAL-S Compliance for All Field Parameters taken at: 12:03					
Water Depth (ft)		Parameters			
Depth to Bottom	28	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.20	21.19	2.11	7.69
Depth 2	14	8.38	21.16	2.17	7.69
Depth 3	25	8.26	21.08	2.65	7.69
Station ID: DAL-M Compliance for All Field Parameters taken at: 12:15					
Water Depth (ft)		Parameters			
Depth to Bottom	74	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.17	21.15	2.35	7.69
Depth 2	37	8.15	21.20	2.30	7.69
Depth 3	71	8.31	21.18	2.13	7.69
Station ID: DAL-N Compliance for All Field Parameters taken at: 12:28					
Water Depth (ft)		Parameters			
Depth to Bottom	96	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.16	21.15	2.42	7.70
Depth 2	48	8.16	21.21	2.39	7.70
Depth 3	93	8.18	21.22	2.62	7.70

Port of Portland Terminal 4 Phase I Removal Action Daily Reporting Form for Field Parameters

Date: 8/23/08					
Construction Activity: Offloading at The Dalles					
Construction Activity Times: Offloading the barge and loading trucks					
Rounds of Sampling for Day: 1					
Triggers:					
Water Velocity (fps)	1.0 fps or higher				
DO (mg/L)	< 6.5 modify operations; < 6.0 cease operations				
Turbidity (NTU)	> 5 NTU over background (where background < 50 NTU) or 10% over background (where background > 50 NTU); > 50 NTU over background, cease operations				
pH (Standard Units)	< 6.5 or > 8.5				
ROUND 1					
* 90th Percentile Turbidity for 8/20/08 = 6.0 NTU					
* Background Station 1 = 4.5NTU					
* 90th percentile background value of 6.0 NTU used to calculate trigger for sampling in Rounds 1 and 2 since it is higher than background value. 6.0 NTU + 5.0 NTU = 11.0 NTU Turbidity Trigger					
Water Velocity (fps)	ft/s @ ft				
Station ID: DAL-BG Background Station Field Parameters taken at: 10:37					
Water Depth (ft)		Parameters			
Depth to Bottom	70	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	8.36	21.93	2.79	7.64
Depth 2	35	7.93	21.43	2.55	7.66
Depth 3	67	7.85	21.37	2.71	7.66
Station ID: DAL-E Early Warning Station for All Field Parameters taken at: None					
Water Depth (ft)		Parameters			
Depth to Bottom		DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1					
Depth 2					
Depth 3					
Station ID: DAL-S Compliance for All Field Parameters taken at: 11:06					
Water Depth (ft)		Parameters			
Depth to Bottom	64	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	7.69	21.39	3.03	7.67
Depth 2	32	7.72	21.39	2.47	7.67
Depth 3	61	7.73	21.30	3.41	7.67
Station ID: DAL-M Compliance for All Field Parameters taken at: 11:20					
Water Depth (ft)		Parameters			
Depth to Bottom	80	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	7.74	21.31	2.22	7.68
Depth 2	40	7.71	21.37	2.44	7.68
Depth 3	77	7.71	21.33	2.86	7.68
Station ID: DAL-N Compliance for All Field Parameters taken at: 11:36					
Water Depth (ft)		Parameters			
Depth to Bottom	104	DO (mg/L)	Temp (°C)	Turb. (NTU)	pH
Depth 1	3	7.84	21.37	2.29	7.68
Depth 2	52	7.69	21.42	2.38	7.68
Depth 3	101	7.64	21.20	3.18	7.69