

Project Name/Location:

Contract Number: W9127N-05-C-0012

**Columbia River Channel Improvement - RM 11+10 to 12+40, Flavel**

Date: 08/05/2005

Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
<b>Load Number</b>	DR-1	17.5	6:18:37	7346730.11	938266.66	3.6	
617	DR-2	17.5	6:19:41	7346041.97	938380.64	35.9	9.6
<b>Tidal Stage</b>	DR-2R1	18.0	6:19:45	7346033.54	938380.99	32.7	9.5
Ebb	DR-4	18.1	6:21:43	7345065.04	938257.31	10.9	
<b>Dredge State:</b>	DR-4R1	18.1	6:21:45	7345043.95	938258.19	11.0	
No overflow	DR-3	18.8	6:24:08	7346500.88	938038.99	4.0	
<b>Weather:</b>							
Foggy							
<b>Wind:</b>							
0-5 kts							
<b>Seas:</b>							
1'-2'							
<b>Disposal location</b>							
Columbia River DWS							

Remarks:	Action Taken:
DR-2 exceeded 10% over background, taken in the plume.	Re-test DR-2R1 was taken.
DR-4 exceeded 5 NTU over background, taken in the plume.	Re-test DR-4R1 was taken.
DR-3 taken out of the plume, on starboard side.	
	The dredge moved away from the area while continuing dredging.

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel		
DR-2	100' Down Current	OR	OR, WA
DR-3	300' Radially from point of dredge (Port or Starboard)	WA	Not Required
DR-4	900' Down Current from point of dredging	WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		

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\*\*Dredge delayed in middle of completing load - samples taken during both halves of the load.

Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
<b>Load Number</b>	DR-1	19.0	10:46:52	7337861.20	938657.89	3.3	
618	DR-2	19.9	10:48:31	7337681.46	939103.52	16.9	8.7
<b>Tidal Stage</b>	DR-2R1	21.1	10:48:35	7337681.46	939103.52	14.8	8.5
Ebb	DR-4	20.1	10:50:02	7337359.68	939287.48	10.9	
<b>Dredge State:</b>	DR-4R1	21.0	10:50:07	7337359.68	939287.48	8.6	
No overflow	DR-3	22.0	10:52:06	7338387.17	939006.77	16.4	
	DR-3R1	18.2	10:52:14	7338395.61	939006.42	10.2	
<b>Weather:</b>							
Overcast							
<b>Wind:</b>							
0-5 kts							
<b>Seas:</b>							
1'-2'							
<b>Disposal location</b>							
Columbia River DWS							

Remarks:	Action Taken:
DR-2 exceeded 10% over background, taken in the plume.	Re-test DR-2R1 was taken.
DR-4 exceeded 5 NTU over background, taken in the plume.	Re-test DR-4R1 was taken.
DR-3 exceeded 5 NTU over background, taken out of the plume, on port side.	Re-test DR-3R1 was taken.
	The dredge moved away from the area while continuing dredging.

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel		
DR-2	100' Down Current	OR	OR, WA
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Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
<b>Load Number</b> 618	DR-1	18.5	15:44:50	7337590.98	939162.10	2.8	
<b>Tidal Stage</b> Flood	DR-2	19.7	15:46:58	7338061.11	938789.37	38.1	7.3
<b>Dredge State:</b> No Overflow	DR-2R1	19.8	15:47:03	7338056.63	938783.47	26.8	6.9
<b>Weather:</b> Overcast	DR-4	20.1	15:48:18	7338282.44	938627.92	5.0	
<b>Wind:</b> 5-10 kts	DR-3	19.4	15:51:18	7336701.71	939114.55	18.2	
<b>Seas:</b> 2'-4'	DR-3R1	18.4	15:51:22	7336701.71	939114.55	13.8	
<b>Disposal location</b> Columbia River DWS							

Remarks:	Action Taken:
DR-2 exceeded 10% over background, taken in the plume.	Re-test DR-2R1 was taken.
DR-4 taken out of the plume.	
DR-3 exceeded 5 NTU over background, taken out of the plume, on port side.	Re-test DR-3R1 was taken.
	The dredge moved away from the area while continuing dredging.

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