

Project Name/Location:

Contract Number: W9127N-05-C-0012

Columbia River Channel Improvement - RM 17+30 to 19+00

Date: 11/06/2005

Disposal Load Number	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
1172	DSP-1	20.1	6:58:29	7374342.94	945762.40	6.9	
Tidal Stage Ebb	DSP-2	21.5	6:59:36	7373836.40	945351.00	14.5	11.5
Dredge State: Split Hull	DSP-2R1	21.3	6:59:41	7373823.50	945345.44	13.6	11.5
Weather: Partly Cloudy, Raining	DSP-3	19.5	7:00:53	7374215.44	945846.65	8.0	
Wind: 5-10 kts	DSP-3R1	20.3	7:00:56	7374211.22	945846.82	7.9	
Seas: 0-1'	DSP-4	21.2	7:02:12	7373740.16	945373.16	8.3	
Disposal location Columbia River RM 17.5 & 18.8	DSP-4R1	21.1	7:02:15	7373740.16	945373.16	8.3	

Remarks:	Action Taken:
DSP-2 exceeded 10% over background, taken in the plume.	Re-test DSP-2R1 was taken.
DSP-4 exceeded 10% over background, taken in the plume.	Re-test DSP-4R1 was taken.
DSP-3 exceeded 10% over background, taken out of the plume, on port side.	Re-test DSP-3R1 was taken.
	The disposal ended and the dredge moved away from the area.

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DSP-1	Background - 100' Up Current, Within 600-Foot of Channel		
DSP-2	100' Down Current	OR	OR, WA
DSP-3	150' Radially from point of dredge (Port or Starboard)	WA	Not Required
DSP-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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Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
Load Number 1173	DR-1	20.6	7:22:25	7379785.37	948255.88	7.5	
Tidal Stage Ebb	DR-2	19.7	7:24:24	7379113.86	948252.50	42.7	11.2
Dredge State: Overflow through skimmers only	DR-2R1	19.7	7:24:27	7379113.86	948252.50	42.8	11.2
Weather: Partly Cloudy	DR-4	20.6	7:32:55	7378958.24	948058.01	24.2	
Wind: 0-5 kts	DR-4R1	20.5	7:32:58	7378949.57	948052.28	23.8	
Seas: 0-1'	DR-3	20.1	7:35:20	7380276.57	948710.62	20.1	
Disposal location Columbia River RM 17.5 & 18.8	DR-3R1	20.5	7:35:23	7380276.57	948710.62	19.7	
Remarks:				Action Taken:			
DR-2 exceeded 10% over background, taken in the plume.				Re-test DR-2R1 was taken.			
DR-4 exceeded 10% over background, taken in the plume.				Re-test DR-4R1 was taken.			
DR-3 exceeded 10% over background, taken out of plume, on port side.				Re-test DR-3R1 was taken.			
				The dredge moved away from the area while continuing dredging to avoid further increasing the turbidity at the location where the exceedence was measured. The dredge coordinates were marked on the GPS screen to insure no further dredging occurred at the location where the exceedence was measured.			
Sample Point Key	All Tests Conducted With YSI 6600					Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel					OR WA WA	OR, WA Not Required Not Required
DR-2	100' Down Current						
DR-3	300' Radially from point of dredge (Port or Starboard)						
DR-4	900' Down Current from point of dredging						
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point						

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Dredging Load Number 1175 Tidal Stage Ebb Dredge State: Overflow through skimmers only Weather: Partly Cloudy Wind: 5-10 kts Seas: 0-1' Disposal location Columbia River RM 17.5 & 18.8	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
	DR-1	20.5	9:42:04	7379011.16	948323.55	9.6	
	DR-2	21.3	9:44:19	7378495.07	947985.42	12.1	11.1
	DR-2R1	21.2	9:44:23	7378486.64	947985.76	11.7	11.0
	DR-4	20.9	9:48:16	7378020.57	947736.88	11.8	
	DR-4R1	20.9	9:48:19	7378016.35	947737.05	12.2	
	DR-3	20.9	9:50:53	7379387.81	947925.13	20.4	
	DR-3R1	20.9	9:50:56	7379383.60	947925.30	18.3	
Remarks:				Action Taken:			
DR-2 exceeded 10% over background, taken in the plume.				Re-test DR-2R1 was taken.			
DR-4 exceeded 10% over background, taken in the plume.				Re-test DR-4R1 was taken.			
DR-3 exceeded 10% over background, taken out of plume, on port side.				Re-test DR-3R1 was taken.			
				The dredge moved away from the area while continuing dredging to avoid further increasing the turbidity at the location where the exceedence was measured. The dredge coordinates were marked on the GPS screen to insure no further dredging occurred at the location where the exceedence was measured.			
Sample Point Key	All Tests Conducted With YSI 6600					Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel					OR WA WA	OR, WA Not Required Not Required
DR-2	100' Down Current						
DR-3	300' Radially from point of dredge (Port or Starboard)						
DR-4	900' Down Current from point of dredging						
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Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
Load Number 1176	DR-1	20.3	11:36:32	7378661.22	948441.06	6.4	
Tidal Stage Flood	DR-2	20.8	11:37:57	7379186.15	948474.67	17.1	11.5
Dredge State: Overflow through skimmers only	DR-2R1	20.6	11:38:00	7379186.15	948474.67	18.7	11.4
Weather: Partly Cloudy	DR-4	20.5	11:39:16	7379947.03	948705.63	7.9	
Wind: 0-5 kts	DR-4R1	20.5	11:39:18	7379947.03	948705.63	7.8	
Seas: 0-1'	DR-3	19.2	11:41:42	7378578.70	947860.39	8.3	
Disposal location Columbia River RM 17.5 & 18.8	DR-3R1	18.9	11:41:47	7378578.70	947860.39	8.1	
Remarks:				Action Taken:			
DR-2 exceeded 10% over background, taken in the plume.				Re-test DR-2R1 was taken.			
DR-4 exceeded 10% over background, taken in the plume.				Re-test DR-4R1 was taken.			
DR-3 exceeded 10% over background, taken out of plume, on port side.				Re-test DR-3R1 was taken.			
				The dredge moved away from the area while continuing dredging to avoid further increasing the turbidity at the location where the exceedence was measured. The dredge coordinates were marked on the GPS screen to insure no further dredging occurred at the location where the exceedence was measured.			
Sample Point Key	All Tests Conducted With YSI 6600					Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel					OR WA WA	OR, WA Not Required Not Required
DR-2	100' Down Current						
DR-3	300' Radially from point of dredge (Port or Starboard)						
DR-4	900' Down Current from point of dredging						
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point						

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	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
Disposal	DSP-1	19.5	13:04:58	7376626.58	946260.13	6.5	
Load Number	DSP-3	20.2	13:11:27	7376911.42	946516.30	17.0	
1177	DSP-3R1	20.2	13:11:31	7376911.42	946516.30	14.6	
Tidal Stage	DSP-2	20.2	13:12:37	7377069.47	946874.92	8.2	11.5
Flood	DSP-2R1	20.3	13:12:41	7377069.47	946874.92	8.2	11.5
Dredge State:	DSP-4	21.2	13:15:52	7377865.33	947238.22	19.0	
Split Hull	DSP-4R1	21.1	13:15:56	7377869.55	947238.06	15.6	
Weather:							
Overcast							
Wind:							
5-10 kts							
Seas:							
0-1'							
Disposal location							
Columbia River RM 17.5 & 18.8							

Remarks:	Action Taken:
DSP-2 exceeded 10% over background, taken in the plume.	Re-test DSP-2R1 was taken.
DSP-4 exceeded 10% over background, taken in the plume.	Re-test DSP-4R1 was taken.
DSP-3 exceeded 10% over background, taken out of the plume, on port side.	Re-test DSP-3R1 was taken.
	The disposal ended and the dredge moved away from the area.

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DSP-1	Background - 100' Up Current, Within 600-Foot of Channel		
DSP-2	100' Down Current	OR	OR, WA
DSP-3	150' Radially from point of dredge (Port or Starboard)	WA	Not Required
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Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
Load Number 1178	DR-1	20.4	13:36:24	7380211.32	948768.00	6.6	
Tidal Stage Flood	DR-2	21.0	13:40:11	7380410.12	948881.67	24.9	11.5
Dredge State: Overflow through skimmers only	DR-2R1	20.8	13:40:13	7380414.33	948881.50	24.2	11.5
Weather: Overcast, Light Rain	DR-4	19.6	13:42:29	7381356.62	949214.72	7.8	
Wind: 0-5 kts	DR-4R1	19.5	13:42:31	7381356.62	949214.72	7.7	
Seas: 0-1'	DR-3	20.8	13:44:57	7379694.28	948405.55	7.4	
Disposal location Columbia River RM 17.5 & 18.8	DR-3R1	20.9	13:44:59	7379702.71	948405.21	7.5	
Remarks:				Action Taken:			
DR-2 exceeded 10% over background, taken in the plume.				Re-test DR-2R1 was taken.			
DR-4 exceeded 10% over background, taken in the plume.				Re-test DR-4R1 was taken.			
DR-3 exceeded 10% over background, taken out of plume, on port side.				Re-test DR-3R1 was taken.			
				The dredge moved away from the area while continuing dredging to avoid further increasing the turbidity at the location where the exceedence was measured. The dredge coordinates were marked on the GPS screen to insure no further dredging occurred at the location where the exceedence was measured.			
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DR-1	Background - 100' Up Current, Within 600-Foot of Channel					OR WA WA	OR, WA Not Required Not Required
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Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
Load Number 1179	DR-1	20.3	15:28:07	7381046.55	948643.17	6.6	
Tidal Stage Flood	DR-2	18.7	15:32:00	7380644.18	948507.26	18.8	11.5
Dredge State: Overflow through skimmers only	DR-2R1	19.1	15:32:03	7380644.18	948507.26	14.8	11.5
Weather: Partly Cloudy	DR-4	20.5	15:33:22	7380080.52	948140.59	10.2	
Wind: 0-5 kts	DR-4R1	20.5	15:33:25	7380076.06	948134.68	9.9	
Seas: 0-1'	DR-3	20.3	15:35:33	7380394.29	949222.98	14.9	
Disposal location Columbia River RM 17.5 & 18.8	DR-3R1	20.9	15:35:36	7380394.29	949222.98	14.6	
Remarks:				Action Taken:			
DR-2 exceeded 10% over background, taken in the plume.				Re-test DR-2R1 was taken.			
DR-4 exceeded 10% over background, taken in the plume.				Re-test DR-4R1 was taken.			
DR-3 exceeded 10% over background, taken out of plume, on starboard side.				Re-test DR-3R1 was taken.			
				The dredge moved away from the area while continuing dredging to avoid further increasing the turbidity at the location where the exceedence was measured. The dredge coordinates were marked on the GPS screen to insure no further dredging occurred at the location where the exceedence was measured.			
Sample Point Key	All Tests Conducted With YSI 6600					Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel					OR WA WA	OR, WA Not Required Not Required
DR-2	100' Down Current						
DR-3	300' Radially from point of dredge (Port or Starboard)						
DR-4	900' Down Current from point of dredging						
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point						