

Project Name/Location:

Contract Number: W9127N-05-C-0012

Columbia River Channel Improvement - RM 20+10 to 21+20

Date: 11/10/2005

Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
Load Number 1223	DR-1	20.8	7:28:23	7389404.46	953577.19	3.1	
Tidal Stage Flood	DR-2	18.9	7:32:48	7389910.82	953678.72	7.5	12.0
Dredge State: Overflow through skimmers only	DR-2R1	17.4	7:32:52	7389919.25	953678.38	7.0	12.0
Weather: Clear	DR-4	20.7	7:34:21	7390536.64	954024.93	17.0	
Wind: 5-10 kts	DR-4R1	20.4	7:34:25	7390536.64	954024.93	13.4	
Seas: 0-1'	DR-3	20.3	7:36:29	7389078.29	953760.50	3.1	
Disposal location Columbia River RM 17.5 & 18.8							
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 taken out of plume on starboard side.							
				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						

Project Name/Location:

Contract Number: W9127N-05-C-0012

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

Date: 11/11/2005

Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
Load Number 1236	DR-1	21.0	7:07:43	7377927.56	948257.72	4.0	
Tidal Stage Flood	DR-2	20.5	7:09:12	7378598.82	948255.00	27.3	12.0
Dredge State: Overflow through skimmers only	DR-2R1	20.6	7:09:15	7378598.82	948255.00	28.5	12.0
Weather: Light Rain	DR-4	21.4	7:10:58	7379334.43	948486.95	16.3	
Wind: 5-10 kts	DR-4R1	21.2	7:11:04	7379342.86	948486.61	15.3	
Seas: 0-1'	DR-3	21.0	7:13:31	7378104.83	947836.90	3.9	
Disposal location Columbia River RM 17.5 & 18.8							

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 taken out of plume on port side.	
	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		
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		

Project Name/Location:

Contract Number: W9127N-05-C-0012

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

Date: 11/11/2005

	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
Disposal	DSP-1	20.7	8:08:12	7379961.63	947914.20	3.8	
Load Number	DSP-2	20.0	8:13:59	7377382.68	946789.93	19.7	12.3
1236	DSP-2R1	20.2	8:14:03	7377382.68	946789.93	16.4	12.3
Tidal Stage	DSP-3	20.6	8:16:00	7376709.54	946536.62	3.2	
Flood	DSP-4	20.7	8:18:24	7377427.04	946945.65	16.2	
Dredge State:	DSP-4R1	20.6	8:18:27	7377487.77	946985.79	13.3	
Split Hull							
Weather:							
Clear							
Wind:							
10-15 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 taken out of plume on port side.	
	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		

Project Name/Location:

Contract Number: W9127N-05-C-0012

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

Date: 11/11/2005

Dredging <u>Load Number</u> 1237 <u>Tidal Stage</u> Flood <u>Dredge State:</u> Overflow through skimmers only <u>Weather:</u> Rain <u>Wind:</u> 10-15 kts <u>Seas:</u> 0-1' <u>Disposal location</u> Columbia River RM 17.5 & 18.8	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
	DR-1	20.7	8:53:43	7388138.40	952842.84	3.8	
	DR-2	19.4	8:55:09	7388961.02	953041.25	25.7	12.3
	DR-2R1	19.3	8:55:12	7388961.02	953041.25	26.1	12.2
	DR-4	20.2	8:56:35	7389592.88	953326.36	7.6	
	DR-4R1	20.2	8:56:38	7389601.56	953332.10	7.5	
	DR-3	19.9	8:58:05	7388402.41	953112.16	25.3	
	DR-3R1	19.9	8:58:09	7388402.65	953118.23	19.1	
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 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						

Project Name/Location:

Contract Number: W9127N-05-C-0012

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

Date: 11/11/2005

Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
Load Number 1238	DR-1	21.0	10:36:26	7388197.79	952956.06	4.2	
Tidal Stage Flood	DR-2	21.4	10:38:15	7388958.49	953083.94	26.5	12.3
Dredge State: Overflow through skimmers only	DR-2R1	21.2	10:38:19	7388962.95	953089.84	26.4	12.3
Weather: Cloudy	DR-4	20.8	10:40:20	7389373.14	953426.35	18.5	
Wind: 10-15 kts	DR-4R1	20.7	10:40:24	7389373.14	953426.35	15.3	
Seas: 0-1'	DR-3	20.4	10:41:57	7388239.45	952942.24	19.2	
Disposal location Columbia River RM 17.5 & 18.8	DR-3R1	20.4	10:42:01	7388239.45	952942.24	16.3	
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 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						

Project Name/Location:

Contract Number: W9127N-05-C-0012

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

Date: 11/11/2005

	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
Disposal	DSP-1	21.8	11:28:18	7379520.14	947646.05	3.2	
Load Number	DSP-2	21.4	11:39:50	7375405.66	946352.06	23.5	12.3
1238	DSP-2R1	21.4	11:39:54	7375401.20	946346.16	17.1	12.4
Tidal Stage	DSP-3	20.7	11:40:57	7374875.82	945990.25	4.5	
Ebb	DSP-3R1	20.6	11:41:01	7374871.60	945990.42	4.1	
Dredge State:	DSP-4	20.1	11:42:29	7375157.28	946057.94	6.4	
Split Hull	DSP-4R1	19.9	11:42:34	7375144.87	946064.53	6.4	
Weather:							
Rain							
Wind:							
10-15 kts							
Seas:							
1-3'							
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 taken out of the plume on port side.	
	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		

Project Name/Location:

Contract Number: W9127N-05-C-0012

Columbia River Channel Improvement - RM 19+00 to 20+10.

Date: 11/11/2005

Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
Load Number 1239	DR-1	19.4	12:26:51	7388209.08	952815.70	3.8	
Tidal Stage Ebb	DR-2	18.8	12:30:08	7387645.87	952771.22	20.5	12.3
Dredge State:	DR-2R1	18.6	12:30:12	7387645.87	952771.22	16.3	12.4
Overflow through skimmers only	DR-4	20.2	12:31:45	7387148.48	952578.14	6.0	
Weather: Cloudy	DR-4R1	20.2	12:31:48	7387144.27	952578.31	5.9	
Wind: 10-15 kts	DR-3	18.0	12:33:27	7388186.74	953102.50	4.0	
Seas: 1-3'							
Disposal location Columbia River RM 17.5 & 18.8							
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 taken out of plume on port side.							
				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					

Project Name/Location:

Contract Number: W9127N-05-C-0012

Columbia River Channel Improvement - RM 19+00 to 20+10.

Date: 11/11/2005

Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
Load Number	DR-1	1.5	14:16:33	7387773.12	953210.23	5.3	
1240	DR-3	21.3	14:19:13	7386732.01	952825.92	8.6	
Tidal Stage	DR-3R1	21.4	14:19:17	7386727.55	952820.02	7.4	
Ebb	DR-2	18.7	14:20:51	7386991.76	952353.23	22.6	12.2
Dredge State:	DR-2R1	18.7	14:20:57	7386991.76	952353.23	17.6	12.2
Overflow through skimmers only	DR-4	20.2	14:22:50	7386255.22	951774.29	10.5	
	DR-4R1	20.4	14:22:55	7386251.00	951774.46	9.9	
Weather:							
Overcast							
Wind:							
10-15 kts							
Seas:							
1-3'							
Disposal location							
Columbia River RM 17.5 & 18.8							
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						
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						

Project Name/Location:

Contract Number: W9127N-05-C-0012

Columbia River Channel Improvement - RM 20+10 to 21+20.

Date: 11/11/2005

Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
Load Number 1241	DR-1	20.1	15:59:53	7388179.31	953340.04	5.1	
Tidal Stage Slack	DR-3	21.0	16:02:36	7387287.76	952895.00	4.9	
Dredge State:	DR-2	16.6	16:03:54	7387388.48	952562.49	18.1	12.1
Overflow through skimmers only	DR-2R1	15.6	16:03:58	7387388.48	952562.49	24.6	12.2
Weather: Overcast	DR-4	20.4	16:05:55	7386589.70	952010.36	7.0	
Wind: 10-15 kts	DR-4R1	20.6	16:05:58	7386580.79	951998.54	7.0	
Seas: 1-3'							
Disposal location Columbia River RM 17.5 & 18.8							
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 taken out of plume on port side.							
				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						