

Project Name/Location: Columbia River Channel Improvement, RM 101+10 to 100+40		Contract Number: W9127N-06-C-CRCI						
Date: 11/29/2005								
Dredge OREGON	Sample Point	Depth (ft)	Time	X-Coordinate	Y-Coordinate	Turbidity (NTU)	DO (Mg/L)	
	DRP-1 (21)	19.9	7:24:11	0.0	0.0	3.8	NA	
	DRP-2 (22)	19.6	7:32:22	0.0	0.0	4.1	11.4	
	Tidal Stage	DRP-3 (23)	20.0	7:36:26	0.0	0.0	3.7	NA
	Ebb	DRP-4 (24)	19.7	7:41:25	0.0	0.0	4.1	NA
Weather: Overcast	Retest @ point of exceedance							
Wind: 5-10 kts								
Seas: 1'-2'								
Disposal location Gateway (upland)	All coordinates are Oregon State Plane North 3601; Datum: NAD 83							
Remarks:			Action Taken:					
No exceedances. The GPS data was not recorded during monitoring, due to operator error. All positions were determined with a rangefinder.			No actions required at dredge. GPS check prior sampling.					
Numbers in parenthesis refers to YSI raw data reference								
Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance					
DRP-1	Background - 100' Up Current, Within 600-Foot of Channel	N/A	Not Required					
DRP-2	100' Down Current of the Cutter head	OR	OR, WA					
DRP-3	300' Down Current of the Cutter head	WA	Not Required					
DRP-4	150' lateral of the cutter head (Port or Starboard)	WA	Not Required					
DRPT	Indicates additional testing at the point of exceedance							
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point							

Columbia River Channel Improvements - Disposal

SAMPLE FORM

Project Name/Location: Columbia River Channel Improvement, RM 101+10 to 100+40		Contract Number: W9127N-06-C-CRCI					
Date: 11/29/2005							
<u>Dredge</u> Oregon <u>Tidal Stage</u> Ebb <u>Weather:</u> Overcast <u>Wind:</u> 5-10 kts <u>Seas:</u> 1'-2' <u>Disposal location</u> Gateway (Upland)	Sample Point	Depth (ft)	Time	X-Coordinate	Y-Coordinate	Turbidity (NTU)	DO (Mg/L)
	DSPP-1 (11)	20.1	10:33:19	7624032.666	735336.139	4.2	NA
	DSPP-2 (12)	20.1	10:40:19	7623822.229	735737.194	NA	11.7
	DSPP-3 (13)	21.1	10:45:30	7623502.929	736208.175	4.3	NA
	DSPP-3R1(13)	19.8	10:47:11	7623498.333	736044.159	4.4	NA
Retest @ point of exceedance							
All coordinates are Oregon State Plane North 3601; Datum: NAD 83							
Remarks:				Action Taken:			
No exceedances. Approx 0915 Tug Clackamas raised the sub-				No action required. Shore crew working to cap 8 inch drain pipe.			
pipe and verified no water running out the end.				Retest not required, completed to match appropriate depth.			
We proceeded with monitoring on the assumption that the some							
water would drain after pipe was sunk at 1025.							
No discharge at wier.							
Numbers in parenthesis refers to YSI raw data reference							
Sample Point Key	All Tests Conducted With YSI 6600					Turbidity Compliance	DO Compliance
DSPP-1	100' up current (background) within 600' channel					N/A	N/A
DSPP-2	100' down current from the discharge					Not Required	WA
DSPP-3	600' down current, 150' lateral to the discharge					WA	Not Required
DSPPT	Indicates additional testing at the point of exceedence						
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 95+00-104+20.

Date: 11/29/2005

Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
Load Number 1441	DR-1	20.6	7:29:12	7633605.98	727246.27	1.2	
Tidal Stage Ebb	DR-2	20.7	7:30:39	7633311.80	727558.33	20.8	13.3
Dredge State: Overflow through skimmers only	DR-2R1	20.7	7:30:42	7633303.44	727564.64	14.6	13.3
Weather: Overcast	DR-4	19.0	7:32:24	7632916.94	727775.90	2.0	
Wind: 0-5 kts	DR-4R1	19.0	7:32:26	7632916.94	727775.90	2.0	
Seas: 0-1'	DR-3	19.3	7:34:41	7634155.08	727674.95	1.0	
Disposal location Columbia River RM 101							
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 95+00-104+20.

Date: 11/29/2005

Dredging Load Number 1442 Tidal Stage Ebb Dredge State: Overflow through skimmers only Weather: Rain Wind: 5-10 kts Seas: 0-1' Disposal location Columbia River RM 101	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
	DR-1	19.2	10:00:47	7634754.94	726691.86	1.5	
	DR-2	20.1	10:02:16	7634214.33	727193.06	15.7	32.5
	DR-2R1	20.2	10:02:19	7634205.97	727199.37	15.7	32.5
	DR-4	20.0	10:03:26	7633666.48	727585.04	8.6	
	DR-4R1	19.9	10:03:29	7633662.38	727591.23	7.0	
	DR-3	20.3	10:05:34	7634922.60	727362.06	12.3	
	DR-3R1	20.3	10:05:37	7634918.51	727368.25	9.8	
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 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 95+00-104+20.

Date: 11/29/2005

	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
Disposal	DSP-1	19.8	11:26:20	7622914.96	735002.69	1.3	
Load Number	DSP-2	19.6	11:36:04	7622810.01	734908.37	8.7	13.7
1442	DSP-2R1	19.6	11:36:06	7622810.01	734908.37	8.4	13.7
Tidal Stage	DSP-3	0.5	11:37:06	7623014.98	734768.87	1.2	
Ebb	DSP-4	19.3	11:39:17	7622347.61	735900.13	3.4	
Dredge State:	DSP-4R1	19.4	11:39:31	7622347.61	735900.13	2.8	
Split Hull							
Weather:							
Overcast							
Wind:							
0-5 kts							
Seas:							
0-1'							
Disposal location							
Columbia River RM 101							

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 95+00-104+20.

Date: 11/29/2005

Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
Load Number 1443	DR-1	20.2	12:39:04	7632204.12	728215.03	1.4	
Tidal Stage Ebb	DR-2	19.2	12:40:46	7631665.36	728625.06	7.3	13.4
Dredge State: Overflow through skimmers only	DR-2R1	20.2	12:40:49	7631657.00	728631.37	6.9	13.4
Weather: Rain	DR-4	19.6	12:42:14	7631098.76	728798.77	2.1	
Wind: 10-15 kts	DR-4R1	19.6	12:42:16	7631094.50	728798.89	2.2	
Seas: 0-1'	DR-3	19.9	12:44:21	7632349.35	728533.23	1.2	
Disposal location Columbia River RM 101							
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.			
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DR-3	300' Radially from point of dredge (Port or Starboard)						
DR-4	900' Down Current from point of dredging						
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Project Name/Location:

Contract Number: W9127N-05-C-0012

Columbia River Channel Improvement - RM 95+00-104+20.

Date: 11/29/2005

Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
Load Number 1444	DR-1	19.8	14:53:40	7634478.37	726869.68	1.1	
Tidal Stage Ebb	DR-2	20.2	14:55:19	7634114.40	727280.91	8.9	13.5
Dredge State: Overflow through skimmers only	DR-2R1	20.2	14:55:22	7634114.40	727280.91	8.5	13.5
Weather: Overcast	DR-4	20.8	14:57:06	7633549.92	727533.54	12.0	
Wind: 10-15 kts	DR-4R1	20.8	14:57:09	7633549.92	727533.54	11.7	
Seas: 0-1'	DR-3	20.2	14:59:25	7634408.77	726664.89	13.2	
Disposal location Columbia River RM 101	DR-3R1	20.3	14:59:28	7634408.77	726664.89	12.7	
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 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.			
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