

Project Name/Location:

Contract Number: W9127N-05-C-0012

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

Date: 11/30/2005

Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
<u>Load Number</u> 1451	DR-1	21.0	7:55:21	7636937.48	725568.16	1.4	
<u>Tidal Stage</u> Ebb	DR-2	20.1	7:56:25	7636659.17	725995.24	9.6	13.5
<u>Dredge State:</u>	DR-2R1	20.1	7:56:27	7636655.08	726001.44	9.3	13.5
Overflow through skimmers only	DR-4	19.6	7:57:40	7636122.69	726338.22	14.4	
<u>Weather:</u> Overcast	DR-4R1	19.7	7:57:44	7636122.69	726338.22	13.9	
<u>Wind:</u> 0-5 kts	DR-3	19.9	7:59:12	7637157.60	725975.53	1.5	
<u>Seas:</u> 0-1'	DR-3R1	20.0	7:59:15	7637157.60	725975.53	1.5	
<u>Disposal location</u> 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 starboard side.	Re-test DR-3R1 was taken to verify DR-3.
	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 95+00-104+20.**

Date: 11/30/2005

Disposal Load Number 1451 Tidal Stage Ebb Dredge State: Split Hull Weather: Overcast Wind: 0-5 kts Seas: 0-1' Disposal location Columbia River RM 101	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
	DSP-1	20.6	8:31:34	7622755.66	735250.34	1.0	
	DSP-2	19.7	8:41:15	7622806.77	734944.94	12.8	13.8
	DSP-2R1	19.4	8:41:20	7622802.68	734951.13	9.4	13.8
	DSP-3	19.5	8:42:10	7622917.52	734789.84	17.3	
	DSP-3R1	19.4	8:42:14	7622917.52	734789.84	13.1	
	DSP-4	20.3	8:44:02	7622416.61	735624.62	17.3	
	DSP-4R1	20.3	8:44:06	7622416.61	735624.62	13.4	

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 plume	Re-test DSP-3R1 was taken.
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	OR WA WA	OR, WA Not Required Not Required
DSP-2	100' Down Current		
DSP-3	150' Radially from point of dredge (Port or Starboard)		
DSP-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: 11/30/2005

<p><b>Dredging</b>  <u>Load Number</u>                      1452  <u>Tidal Stage</u>                      Ebb  <u>Dredge State:</u>                      Overflow through skimmers only    <u>Weather:</u>                      Overcast  <u>Wind:</u>                      5-10 kts  <u>Seas:</u>                      0-1'    <u>Disposal location</u>                      Columbia River RM 101</p>	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
	DR-1	20.7	9:50:49	7624570.64	761244.03	3.1	
	DR-2	20.1	9:53:09	7624731.96	761531.33	6.9	13.7
	DR-2R1	20.2	9:53:11	7624732.13	761537.41	6.5	13.7
	DR-4	20.2	9:55:02	7624717.15	761762.77	4.9	
	DR-4R1	20.2	9:55:05	7624717.15	761762.77	4.4	
	DR-3	20.3	9:56:44	7624737.25	760503.74	13.1	
	DR-3R1	20.2	9:56:46	7624737.42	760509.81	12.6	

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 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		

Project Name/Location:

Contract Number: W9127N-05-C-0012

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

Date: 11/30/2005

Dredging		Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
<u>Load Number</u> 1453		DR-1	21.6	11:28:39	7625052.29	764914.77	1.8	
<u>Tidal Stage</u> Ebb		DR-2	18.8	11:31:16	7624844.21	765084.74	18.0	13.7
<u>Dredge State:</u>		DR-2R1	19.3	11:31:20	7624844.38	765090.82	14.4	13.7
Overflow through skimmers only		DR-4	20.4	11:32:31	7624758.63	765676.86	13.4	
<u>Weather:</u> Overcast		DR-4R1	20.2	11:32:35	7624754.55	765683.05	10.4	
<u>Wind:</u> 5-10 kts		DR-3	19.8	11:34:22	7625342.05	764468.93	14.7	
<u>Seas:</u> 0-1'		DR-3R1	19.9	11:34:25	7625342.22	764475.00	11.7	
<u>Disposal location</u> Columbia River RM 101								
<b>Remarks:</b>					<b>Action Taken:</b>			
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					Re-test DR-3R1 was taken.			
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.			
<b>Sample Point Key</b>	<b>All Tests Conducted With YSI 6600</b>						<b>Turbidity Compliance</b>	<b>DO Compliance</b>
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: 11/30/2005

Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
<u>Load Number</u> 1454	DR-1	20.5	14:07:02	7625165.29	764084.78	1.2	
<u>Tidal Stage</u> Ebb	DR-2	18.9	14:08:57	7625331.19	763624.17	13.0	13.6
<u>Dredge State:</u>	DR-2R1	18.8	14:08:59	7625331.19	763624.17	12.6	13.6
Overflow through skimmers only	DR-4	20.5	14:10:41	7625384.98	763263.97	1.3	
<u>Weather:</u> Overcast	DR-3	20.5	14:12:28	7624761.70	764570.29	2.1	
<u>Wind:</u> 5-10 kts	DR-3R1	20.6	14:12:31	7624761.70	764570.29	2.0	
<u>Seas:</u> 0-1'							
<u>Disposal location</u> 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 taken in the plume.	
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		

COLUMBIA RIVER CHANNEL IMPROVEMENTS - DREDGING

<b>Project Name/Location:</b>		<b>Contract Number: W9127N-06-C-CRCI</b>					
Columbia River Channel Improvement, RM 101+10 to 100+40							
<b>Date: 11/30/2005</b>							
<b>Dredge</b> OREGON	<b>Sample Point</b>	<b>Depth (ft)</b>	<b>Time</b>	<b>X-Coordinate</b>	<b>Y-Coordinate</b>	<b>Turbidity (NTU)</b>	<b>DO (Mg/L)</b>
	DRP-1 (21)	20.0	7:23:32	7623193.893	734307.898	3.7	NA
	DRP-2 (22)	20.1	7:28:56	7623009.529	734726.468	3.6	11.5
<b>Tidal Stage</b> Ebb	DRP-3 (23)	20.1	7:32:15	7623007.994	734975.767	3.7	NA
	DRP-4 (24)	20.3	7:40:48	7623180.767	734752.063	3.6	NA
<b>Weather:</b> Overcast	<b>Retest @ point of exceedance</b>						
<b>Wind:</b> Calm							
<b>Seas:</b> Flat							
<b>Disposal location</b> Gateway (upland)	All coordinates are Oregon State Plane North 3601; Datum: NAD 83						
<b>Remarks:</b>				<b>Action Taken:</b>			
No exceedances.				None required.			
John Cannon and Karen Garmire present during sampling.							
Sample point numbers in parenthesis coorespond with							
YSI 650 MDS logged data.							
<b>Sample Point Key</b>	<b>All Tests Conducted With YSI 6600</b>					<b>Turbidity Compliance</b>	<b>DO Compliance</b>
DRP-1	Background - 100' Up Current, Within 600-Foot of Channel					N/A	Not Required
DRP-2	100' Down Current of the Cutterhead					OR	OR, WA
DRP-3	300' Down Current of the Cutterhead					WA	Not Required
DRP-4	150' lateral of the cutterhead (Port or Starboard)					WA	Not Required
DRPT	Indicates additional testing at the point of exceedence						
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point						

COLUMBIA RIVER CHANNEL IMPROVEMENTS - DREDGING

<u>Project Name/Location:</u> Columbia River Channel Improvement, RM 101+10 to 100+40		Contract Number: W9127N-06-C-CRCI						
<b>Date: 11/30/2005</b>		<b>Sample Point</b>	<b>Depth (ft)</b>	<b>Time</b>	<b>X-Coordinate</b>	<b>Y-Coordinate</b>	<b>Turbidity (NTU)</b>	<b>DO (Mg/L)</b>
<b>Dredge</b> <i>Oregon</i> <b>Tidal Stage</b> Ebb		DSPP-1 (11)	20.0	7:45:38	7623891.754	735479.911	4.0	NA
		DSPP-2 (12)	20.1	7:48:39	7623840.457	735779.239	NA	11.5
		DSPP-3 (13)	20.1	7:53:41	7623489.47	736184.234	4.5	NA
<b>Weather:</b> Overcast	<b>Retest @ point of exceedance</b>							
<b>Wind:</b> Calm								
<b>Seas:</b> Flat								
<b>Disposal location</b> Gateway (Upland)	All coordinates are Oregon State Plane North 3601; Datum: NAD 83							
<b>Remarks:</b>				<b>Action Taken:</b>				
No exceedances.								
John Cannon and Karen Garmire present during sampling.								
Sample point numbers in parenthesis coorespond with								
YSI 650 MDS logged data.								
<b>Sample Point Key</b>	<b>All Tests Conducted With YSI 6600</b>						<b>Turbidity Compliance</b>	<b>DO Compliance</b>
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							

COLUMBIA RIVER CHANNEL IMPROVEMENTS - DREDGING

<u>Project Name/Location:</u> Columbia River Channel Improvement, RM 101+10 to 100+40		Contract Number: W9127N-06-C-CRCI					
<b>Date: 11/30/2005</b>							
<b><u>Dredge</u></b> Oregon <b><u>Tidal Stage</u></b> Ebb	<b>Sample Point</b>	<b>Depth (ft)</b>	<b>Time</b>	<b>X-Coordinate</b>	<b>Y-Coordinate</b>	<b>Turbidity (NTU)</b>	<b>DO (Mg/L)</b>
	DSPP-1 (11)	20.2	9:22:01	0	0	3.5	NA
	DSPP-1R1	20.1	9:26:23	7623927.879	735399.867	3.6	NA
	DSPP-2 (12)	20.0	9:30:25	7623814.22	735755.656	NA	11.5
	DSPP-3 (13)	20.1	9:37:08	7623524.736	736225.802	4.1	NA
<b><u>Weather:</u></b> Overcast	<b>Retest @ point of exceedance</b>						
<b><u>Wind:</u></b> Calm							
<b><u>Seas:</u></b> Flat							
<b><u>Disposal location</u></b> Gateway (Upland)	All coordinates are Oregon State Plane North 3601; Datum: NAD 83						
<b>Remarks:</b>				<b>Action Taken:</b>			
No exceedances.				None required			
DSPP-1 Retaken because of missing longitude data.							
DSPP-1 Latitude was 45 39.750; Geographic NAD 83							
Sample point numbers in parenthesis coorespond with							
YSI 650 MDS logged data.							
<b>Sample Point Key</b>	<b>All Tests Conducted With YSI 6600</b>					<b>Turbidity Compliance</b>	<b>DO Compliance</b>
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						

COLUMBIA RIVER CHANNEL IMPROVEMENTS - DREDGING

<u>Project Name/Location:</u> Columbia River Channel Improvement, RM 101+10 to 100+40		Contract Number: W9127N-06-C-CRCI					
<b>Date: 11/30/2005</b>							
<b>Dredge</b> <i>Oregon</i> <b>Tidal Stage</b> Ebb	<b>Sample Point</b>	<b>Depth (ft)</b>	<b>Time</b>	<b>X-Coordinate</b>	<b>Y-Coordinate</b>	<b>Turbidity (NTU)</b>	<b>DO (Mg/L)</b>
	DSPP-1 (11)	20.2	11:22:59	7623914.087	735211.791	3.8	NA
	DSPP-2 (12)	20.0	11:26:32	0	0	NA	11.7
	DSPP-2R1	20.0	11:29:36	7623805.531	735749.82	NA	11.9
	DSPP-3 (13)	20.1	11:37:49	7623512.128	736232.235	3.9	NA
<b>Weather:</b> Overcast	<b>Retest @ point of exceedance</b>						
<b>Wind:</b> Calm							
<b>Seas:</b> Flat							
<b>Disposal location</b> Gateway (Upland)	All coordinates are Oregon State Plane North 3601; Datum: NAD 83						
<b>Remarks:</b> No exceedances.	<b>Action Taken:</b> None required.						
DSPP-2 Retaken because of missing longitude data.							
DSPP-2 Latitude was 45 39.700; Geographic NAD 83							
Sample point numbers in parenthesis coorespond with							
YSI 650 MDS logged data.							
<b>Sample Point Key</b>	<b>All Tests Conducted With YSI 6600</b>					<b>Turbidity Compliance</b>	<b>DO Compliance</b>
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						

COLUMBIA RIVER CHANNEL IMPROVEMENTS - DREDGING

<u>Project Name/Location:</u> Columbia River Channel Improvement, RM 101+10 to 100+40		Contract Number: W9127N-06-C-CRCI						
<b>Date: 11/30/2005</b>		<b>Sample Point</b>	<b>Depth (ft)</b>	<b>Time</b>	<b>X-Coordinate</b>	<b>Y-Coordinate</b>	<b>Turbidity (NTU)</b>	<b>DO (Mg/L)</b>
<b>Dredge</b> <i>Oregon</i> <b>Tidal Stage</b> Ebb	DSPP-1 (11)	20.1	13:23:31	7623999.1	735355.317	3.4	NA	
	DSPP-2 (12)	20.0	13:27:30	7623779.634	735738.387	NA	11.7	
	DSPP-3 (13)	20.3	13:31:15	7623493.559	736178.04	3.8	NA	
<b>Weather:</b> Overcast	<b>Retest @ point of exceedance</b>							
<b>Wind:</b> Calm								
<b>Seas:</b> 0-1'								
<b>Disposal location</b> Gateway (Upland)	All coordinates are Oregon State Plane North 3601; Datum: NAD 83							
<b>Remarks:</b> No exceedances.	<b>Action Taken:</b> None required.							
Sample point numbers in parenthesis coorespond with YSI 650 MDS logged data.								
<b>Sample Point Key</b>	<b>All Tests Conducted With YSI 6600</b>					<b>Turbidity Compliance</b>	<b>DO Compliance</b>	
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							

COLUMBIA RIVER CHANNEL IMPROVEMENTS - DREDGING

<u>Project Name/Location:</u> Columbia River Channel Improvement, RM 101+10 to 100+40		Contract Number: W9127N-06-C-CRCI					
<b>Date: 11/30/2005</b>							
<b>Dredge</b> <i>Oregon</i> <b>Tidal Stage</b> Ebb	<b>Sample Point</b>	<b>Depth (ft)</b>	<b>Time</b>	<b>X-Coordinate</b>	<b>Y-Coordinate</b>	<b>Turbidity (NTU)</b>	<b>DO (Mg/L)</b>
	DSPP-1 (11)	20.0	15:23:04	7623524.736	736225.802	3.4	NA
	DSPP-2 (12)	20.1	15:27:35	7623914.087	735211.791	NA	11.6
	DSPP-3 (13)	20.4	15:39:54	7623860.635	735047.563	3.1	NA
<b>Weather:</b> Overcast	<b>Retest @ point of exceedance</b>						
<b>Wind:</b> Calm							
<b>Seas:</b> 0-1'							
<b>Disposal location</b> Gateway (Upland)	All coordinates are Oregon State Plane North 3601; Datum: NAD 83						
<b>Remarks:</b> No exceedances.	<b>Action Taken:</b> None required.						
Sample point numbers in parenthesis coorespond with YSI 650 MDS logged data.							
<b>Sample Point Key</b>	<b>All Tests Conducted With YSI 6600</b>					<b>Turbidity Compliance</b>	<b>DO Compliance</b>
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						