

ODFW AQUATIC INVENTORY PROJECT
OREGON PLAN FOR SALMON & WATERSHEDS
STREAM RESTORATION HABITAT REPORT

STREAM: Rock Creek (MC-341)
BASIN: Devils Lake
SURVEY TYPE: Pre-Tx
DATE: August 14, 2006
SURVEY CREW: Annette Garrigues, Jeff Snyder, Trevan Cornwell, Paul Jacobsen
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 17.8 km²
USGS MAPS: Devils Lake
ECOREGION: Coast Range Coastal Uplands

GENERAL DESCRIPTION:

The Rock Creek habitat survey extended 5,193 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 5.1 (range: 1.4-10.0). Land use for the reach was second growth (15-30 cm dbh) and large (30-50 cm dbh) trees. The average unit gradient was 1.3 percent. Riffles (48%) and scour pools (35%) dominated stream habitat. Gravel (41%) and sand (29%) dominated stream substrate. Wood volume was high at 39.8 m³/100m.

COMMENTS:

There were no potential barriers to upstream fish migration in the surveyed length.

The crew noted several habitat structures during the survey.

REACH 1

T07S-R11W-S13NW

REACH 1

Valley and Channel Summary

Valley Characteristics (Percent Reach Length)

<u>Narrow Valley Floor</u>		<u>Broad Valley Floor</u>	
Steep V-shape	0%	Constraining Terraces	100%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	5.1	VWI Range:	1.4 - 10

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	100%	Braided Channel	0%
Alt. Terrace/Hill	0%		
Landuse	0%		

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary Channel	5,193	23,425	0
Secondary Channel	228	483	4
Off-Channel Units	230	336	1

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 20	<u>First Terrace</u> n = 17
Width: 4.2	Width: 6.7	11.8 (7.8 - 27.5)	13.5 (8.3 - 28.5)
Depth: 0.34	Height: 0.4	0.9 (0.7 - 1.2)	1.2 (1.05 - 1.5)

W:D ratio: 15.8

Entrenchment (ACW:FPW ratio): 1.8

Stream Flow Type: MF

Habitat Units/100m (total channel length): 6.4

Average Unit Gradient: 1.3%

Habitat Units/100m (primary channel length): 7.0

Water temperature (°C): 13.0 - 13.0

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	LT
Riparian Vegetation:	M15	G

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	12%	Reach avg: 87%
Undercut Banks:	11%	Range: 33 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	1,202	23.1
Volume (m ³):	2,067	39.8
Key pieces (>=12m x 0.60m):	101	1.9

OREGON DEPT OF FISH AND WILDLIFE

ROCK CREEK PRE-TX (2-MC, 341)

HABITAT INVENTORY

Report Date: 3/5/2007

Survey Date:

8/30/2006

REACH 1

T07S-R11W-S13NW

REACH 1

HABITAT DETAIL

Habitat Type	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Large Boulders (#>0.5m)	Substrate Percent Wetted Area					
							S/O	Snd	Grvl	Cbl	Bldr	Bdrk
CASCADE/BOULDERS	5	42	2.2	0.10	96	0	8	27	54	10	1	0
CULVERT CROSSING	2	43	1.5	0.25	61	0	25	70	5	0	0	0
DRY UNIT	1	25	2.6	0.00	66	1	0	10	64	25	2	0
GLIDE	5	87	4.5	0.23	382	3	8	40	41	11	0	0
POOL-BACKWATER	9	69	2.9	0.23	184	0	51	37	11	1	0	0
POOL-BEAVER DAM	8	222	5.8	0.86	1,408	1	24	47	23	4	0	3
POOL-DAMMED	1	10	4.1	0.40	41	0	5	10	85	0	0	0
POOL-ISOLATED	9	22	1.4	0.18	30	0	57	40	3	0	0	0
POOL-LATERAL SCOUR	122	1,577	4.6	0.59	7,316	9	13	34	39	9	1	5
POOL-PLUNGE	12	95	6.7	0.71	793	0	15	42	34	7	0	2
POOL-STRAIGHT SCOUR	3	43	4.6	0.53	202	0	18	53	15	13	0	0
POOL-TRENCH	2	24	3.5	0.55	83	50	15	50	10	0	0	25
PUDDLED UNIT	4	95	1.9	0.11	226	0	17	52	22	7	0	0
RAPID/BEDROCK	2	79	4.7	0.25	368	0	0	25	13	3	0	60
RAPID/BOULDERS	12	193	3.0	0.10	639	1	1	10	58	25	4	3
RIFFLE	108	2,791	3.9	0.18	11,419	37	3	27	52	14	1	3
RIFFLE W/ POCKETS	2	32	3.6	0.18	111	0	7	15	74	2	1	0
STEP/BEAVER DAM	8	9	6.2	0.06	61	0	29	31	37	4	0	0
STEP/BEDROCK	5	13	4.1	0.08	51	0	0	4	12	4	0	80
STEP/BOULDERS	1	3	3.5	0.15	12	4	0	0	20	0	40	40
STEP/COBBLE	31	163	3.9	0.12	625	2	0	16	58	24	1	1
STEP/LOG	10	11	5.4	0.04	64	0	71	9	16	4	0	0
STEP/STRUCTURE	1	1	11.3	0.30	7	0	10	30	60	0	0	0
Total:	363	5,650	4.2	0.34	24,244	108	Avg: 13	29	41	11	1	4

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m ²)	Percent	Number	(# / 100m ²)
Dammed & BW Pools	27	324	3.3	0.40	1,663	6.86%	1	0.1
Scour Pools	139	1,740	4.7	0.60	8,396	34.63%	59	0.7
Glides	5	87	4.5	0.23	382	1.58%	3	0.8
Riffles	110	2,823	3.9	0.18	11,530	47.56%	37	0.3
Rapids	14	272	3.2	0.12	1,007	4.15%	1	0.1
Cascades	5	42	2.2	0.10	96	0.39%	0	0.0
Step/Falls	56	200	4.6	0.09	819	3.38%	6	0.7
Dry	5	120	2.0	0.09	291	1.20%	1	0.3
Culverts	2	43	1.5	0.25	61	0.25%	0	0.0

REACH 1

T07S-R11W-S13NW

REACH 1

POOL SUMMARY

	<u>Total</u>	Total of all Channel Lengths <u># / Km</u>	Primary Channel Length <u># / Km</u>
All Pools:	166	29.4	32.0
Pools >=1m deep:	13	2.3	2.5
Complex pools (LWD pieces>=3):	75	13.3	14.4
Pool frequency (channel widths/pool):	5.1		
Residual pool depth (avg):	0.50		

OREGON DEPARTMENT OF FISH AND WILDLIFE
HABITAT INVENTORY

ROCK CREEK PRE-TX
GCG: 2-MC SITE ID: 341

Survey Date 8/14/2006
Report Date: 3/5/2007

RIPARIAN ZONE
VEGETATION SUMMARY

REACH 1

Summary of Riparian Zone (0-30m) 18 transects

Total hardwoods/1000	386
Total conifers/1000 ft	400
Total conifers >20" dbh/1000 ft	81
Total conifers >35" dbh/1000 ft	34

Average number of trees in a 5-meter wide band

Diameter class (cm)	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters		Zones 1-3 0-30 meters	
	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood
3-15cm	0.5	0.4	0.7	1.1	1.2	0.6	2.3	2.2
15-30cm	0.2	0.3	0.7	0.6	0.8	0.5	1.8	1.4
30-50cm	0.3	1.2	0.5	0.3	0.3	0.6	1.1	2.1
50-90cm	0.1	0.4	0.2	0.2	0.5	0.1	0.8	0.7
>90cm	0.3	0.1	0.2	0.0	0.1	0.0	0.6	0.1
Total/100m2	1.4	2.4	2.3	2.2	2.9	1.8	2.2	2.1

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	65		72		65	
Shrub cover	27		30		30	
Grass/forb cover	60		52		50	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	33		69		81	
High terrace	47		31		19	
Low terrace	3		0		0	
Floodplain	17		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		0		0	
Riprap	0		0		0	
Surface slope (%)	17		24		30	

Summary of Riparian Zone (0-30m) for all reaches**18 transects****Summary of riparian zone (0-100 feet) extrapolated to 1,000 feet along stream**

Total hardwoods/1000	386
Total conifers/1000 ft	400
Total conifers >20" dbh/1000 ft	81
Total conifers >35" dbh/1000 ft	34

Average number of trees in a 5-m wide band

Diameter class (cm)	Zones 1-3	
	<u>0-30 meters</u>	
	<u>Conifer</u>	<u>Hardwood</u>
3-15cm	2.3	2.2
15-30cm	1.8	1.4
30-50cm	1.1	2.1
50-90cm	0.8	0.7
>90cm	0.6	0.1

RIPARIAN ZONE VEGETATION

Reach 1 Reach 1

Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
12	LF	3	HS	45	85	75	10	Conifer							NO TREES
								Hardwood							
12	LF	2	HT	6	85	50	50	Conifer							3D-0422337-4979724
								Hardwood	3			1			
12	RT	1	HT	11	85	5	90	Conifer							NO TREES
								Hardwood							
12	RT	2	HT	2	85	10	75	Conifer							
								Hardwood			1				
12	RT	3	HS	7	85	10	60	Conifer							
								Hardwood			4	1			
12	LF	1	HT	11	85	60	40	Conifer							NO TREES
								Hardwood							
35	RT	2	HT	0	80	30	60	Conifer							
								Hardwood		2					
35	LF	1	HT	14	80	10	80	Conifer							TRANS
								Hardwood			2				
35	LF	2	HS	38	80	0	20	Conifer		2		1			3D-0422370-4979906
								Hardwood							
35	LF	3	HS	45	85	0	20	Conifer	1		1		2		1.8M DBH & >2.0M DBH
								Hardwood							
35	RT	1	HT	14	80	30	60	Conifer							
								Hardwood			2	4			
35	RT	3	HT	2	80	30	60	Conifer							
								Hardwood	1	1	2				
49	RT	3	HT	0	85	10	70	Conifer	2		1				
								Hardwood							
49	LF	1	HT	14	80	20	60	Conifer							TRANS
								Hardwood			1				
49	LF	2	HS	21	70	30	30	Conifer							3D-0422463-4980031
								Hardwood		1	1				
49	LF	3	HS	58	60	30	20	Conifer							
								Hardwood		2					
49	RT	2	HT	0	75	10	80	Conifer							
								Hardwood		1					
49	RT	1	HT	15	70	10	80	Conifer							
								Hardwood		1	2	1			

68	LF	2	HS	40	85	20	70	Conifer	1				3D-0422679-4980101
								Hardwood					
68	LF	1	HT	8	80	5	80	Conifer				1	TRANS
								Hardwood					
68	LF	3	HS	32	85	10	80	Conifer				2	
								Hardwood					
68	RT	1	HT	9	80	10	80	Conifer				2	
								Hardwood					
68	RT	2	HT	1	85	10	70	Conifer					NO TREES
								Hardwood					
68	RT	3	HT	2	80	20	60	Conifer				1	
								Hardwood					
78	LF	1	HS	26	80	10	40	Conifer				1	3D-0422827-4980272
								Hardwood					
78	RT	3	HS	81	85	0	40	Conifer		2	1		
								Hardwood					
78	RT	2	HS	50	80	0	40	Conifer		1			
								Hardwood					
78	RT	1	HT	9	85	0	40	Conifer		1		1	TRANS
								Hardwood				1	
78	LF	3	HS	25	70	40	20	Conifer	4				
								Hardwood		3			
78	LF	2	HS	12	80	40	10	Conifer		1		1	
								Hardwood	1				
98	LF	3	HT	2	60	10	60	Conifer		1			
								Hardwood					
98	RT	3	HS	91	85	10	70	Conifer	1	2			
								Hardwood					
98	RT	2	HS	105	80	10	70	Conifer					
								Hardwood	2		1		
98	LF	2	HT	5	70	10	70	Conifer			1	1	
								Hardwood					
98	RT	1	HT	10	70	20	40	Conifer					TRANS, NO TREES
								Hardwood					
98	LF	1	HT	14	80	10	70	Conifer		1	1	1	3D-0422940-4980485
								Hardwood					
107	RT	1	LT	1	80	20	70	Conifer					TRANS, NO TREES
								Hardwood					
107	LF	3	HS	21	80	40	60	Conifer				2	
								Hardwood	1	3			
107	LF	2	HS	17	80	30	50	Conifer					3D-0423023-4980635
								Hardwood				2	
107	LF	1	HT	11	70	40	50	Conifer					TRANS
								Hardwood			3	2	
107	RT	3	HS	9	80	40	70	Conifer					
								Hardwood	3		1		

107	RT	2	HS	27	80	30	60	Conifer				
								Hardwood	1	1		
122	RT	3	HS	24	60	30	10	Conifer				
								Hardwood				
122	LF	1	HS	70	30	20	40	Conifer				3D-0422962-4980833
								Hardwood	2			
122	LF	2	HS	38	30	50	30	Conifer	2			
								Hardwood				
122	LF	3	HS	24	20	40	20	Conifer			1	
								Hardwood				
122	RT	2	HS	19	50	40	20	Conifer	1	1		
								Hardwood				
122	RT	1	HT	10	40	20	60	Conifer				TRANS
								Hardwood			1	
133	RT	2	HS	58	80	70	10	Conifer			1	
								Hardwood				
133	RT	3	HS	53	70	60	20	Conifer			1	
								Hardwood				
133	LF	1	HS	75	80	40	10	Conifer			1	3D-0423006-4981046
								Hardwood				
133	LF	3	HS	37	50	70	10	Conifer	1	1		
								Hardwood		1		
133	RT	1	HT	11	80	30	50	Conifer				TRANS
								Hardwood				
133	LF	2	HS	29	70	50	10	Conifer			2	
								Hardwood				
145	RT	3	HS	34	20	90	0	Conifer	6	1		CLEARCUT
								Hardwood				
145	RT	2	HS	35	20	90	0	Conifer	3	1		CLEARCUT
								Hardwood	2			
145	RT	1	HS	38	20	80	10	Conifer	6			CLEARCUT
								Hardwood				
145	LF	3	HS	35	20	70	30	Conifer	1			CLEARCUT
								Hardwood		1		
145	LF	2	HS	34	20	60	30	Conifer	1	3		CLEARCUT
								Hardwood				
145	LF	1	HS	31	30	70	10	Conifer				3D-0423070-4981267
								Hardwood	1			
176	RT	3	HS	30	0	70	30	Conifer				CLEARCUT, NO TREES
								Hardwood				
176	RT	2	HS	45	30	100	0	Conifer	2			
								Hardwood				
176	RT	1	HS	40	0	95	0	Conifer				NO TREES
								Hardwood				
176	LF	3	HS	50	85	60	40	Conifer		1	1	
								Hardwood				

176	LF	2	HS	60	80	70	30	Conifer	1	1	1	
								Hardwood				
176	LF	1	FP	2	5	80	20	Conifer				NO TREES
								Hardwood				
198	LF	1	FP	2	90	10	90	Conifer				
								Hardwood	1	2		
198	LF	2	HT	3	95	20	80	Conifer			1	
								Hardwood				
198	LF	3	HT	0	5	10	90	Conifer	1			INTO CLEARCUT
								Hardwood				
198	RT	1	HS	20	90	25	75	Conifer				
								Hardwood	1			
198	RT	2	HS	20	85	10	90	Conifer				NO TREES
								Hardwood				
198	RT	3	HS	25	90	10	90	Conifer				NO TREES
								Hardwood				
222	LF	3	HS	45	0	60	40	Conifer				ENTER CLEARCUT, NO TREES
								Hardwood				
222	RT	1	HS	10	20	20	80	Conifer	1	2		
								Hardwood				
222	RT	2	HS	35	30	10	90	Conifer			2	
								Hardwood				
222	RT	3	HS	30	0	30	70	Conifer				ENTER CLEARCUT, NO TREES
								Hardwood				
222	LF	2	HS	30	90	100	0	Conifer				
								Hardwood	3			
222	LF	1	HS	40	80	90	10	Conifer			1	
								Hardwood				
237	RT	1	FP	2	0	10	90	Conifer				NO TREES
								Hardwood				
237	RT	3	HS	45	0	0	100	Conifer				NO TREES
								Hardwood				
237	RT	2	HS	15	5	20	80	Conifer				ELDERBERRY
								Hardwood	2			
237	LF	3	HS	50	85	20	80	Conifer	1	1		
								Hardwood				
237	LF	1	HT	0	40	50	50	Conifer			2	
								Hardwood				
237	LF	2	HS	20	60	40	60	Conifer				
								Hardwood	2			
258	LF	2	HS	10	95	0	50	Conifer				2 SITKA SPRUCE, HEMLOCK ALDER
								Hardwood				
258	RT	1	HT	0	95	30	70	Conifer				
								Hardwood	1	1	2	
258	RT	2	HT	0	90	20	80	Conifer				ALDER
								Hardwood	1	2		

258	RT	3	HS	45	85	75	5	Conifer						NO TREES
								Hardwood						
258	LF	1	FP	3	90	0	80	Conifer						NO TREES
								Hardwood						
258	LF	3	HS	20	85	10	80	Conifer				1		HEMLOCK
								Hardwood	1					
284	RT	2	HT	0	95	5	80	Conifer	1	1				
								Hardwood	1					
284	RT	1	FP	0	10	10	90	Conifer						
								Hardwood	1					
284	LF	3	HT	0	90	0	10	Conifer	1	1				
								Hardwood						
284	LF	2	HT	0	95	0	50	Conifer			1			
								Hardwood						
284	LF	1	HT	10	95	10	60	Conifer	1	1				
								Hardwood						
284	RT	3	HT	0	95	0	20	Conifer	2	2				
								Hardwood						
303	LF	3	HS	40	95	30	70	Conifer						
								Hardwood	6					
303	LF	2	HS	35	95	40	60	Conifer						
								Hardwood	8					
303	RT	1	HS	20	95	5	95	Conifer	1		1			
								Hardwood		1	1			
303	RT	2	HS	20	90	0	90	Conifer	1	1	2			
								Hardwood						
303	RT	3	HS	12	95	0	85	Conifer			2			
								Hardwood						
303	LF	1	HS	40	80	10	90	Conifer						
								Hardwood	1					
328	LF	1	HS	20	90	0	100	Conifer						
								Hardwood	2		3			
328	LF	2	HS	30	90	0	100	Conifer						NO TREES
								Hardwood						
328	LF	3	HS	30	95	0	100	Conifer						NO TREES
								Hardwood						
328	RT	1	FP	2	85	0	90	Conifer						
								Hardwood			2			
328	RT	2	HT	0	95	10	90	Conifer						NO TREES
								Hardwood						
328	RT	3	HS	15	95	5	95	Conifer				1		
								Hardwood				1		

Comment Summary

Restoration Monitoring Sites 2006

MONITORING AREA: **2-MC** SITE ID: **341** **ROCK CREEK PRE-TX**

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	RI	00	10.1		T=13.0C, CA/CT	
2	LP	00	23.5			FISH
4	PP	00	45.4			FISH
5	SL	00	48.1		H=0.35M	H=0.35M
7	LP	00	91.5	DJ	DJ, RLF	FISH, RED-LEGGED FROG
8	RI	00	140.7		RLF	
9	RI	00	189.9		DJ	FISH
10	RI	00	239.1		DJ	FISH
11	LP	00	250.9		DJ, RLF	FISH, RED-LEGGED FROG
12	RI	00	281.8		RIPARIAN #1, CT-CT	RIPARIAN #1
13	LP	00	296.7		CONCRETE SLABS	FISH
15	LP	00	316.7			FISH
17	LP	00	331.6			FISH
24	SL	00	385.8		H=0.10M	H=0.10M
29	LP	00	455.6			FISH
31	LP	00	487.4		FISH	FISH
33	LP	00	507.1			FISH
35	RI	00	549.3		RIPARIAN #2 CT-CT	RIPARIAN #2
36	LP	00	558.8			FISH
39	LP	00	583.9	DJ, HS	NW GAS PIPELINE EXPOSE	FISH
40	SC	00	587.1		H=0.09M	

Comment Summary

Restoration Monitoring Sites 2006

MONITORING AREA: **2-MC** SITE ID: **341** **ROCK CREEK PRE-TX**

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
41	LP	00	604.5			FISH
44	LP	00	683.2			FISH
45	RI	01	723.8	HS		
49	RI	00	763.2		RIPARIAN #3 CT-CT	RIPARIAN #3
50	LP	01	778.7			HARDPAN
53	LP	00	802.6			FISH
54	SL	00	803.3		H=0.10M	H=0.10M
55	LP	00	811.4			FISH
57	LP	00	825.5	HS		FISH
58	RI	00	849.3			FISH
59	LP	00	862.4			FISH
61	LP	00	900.4			FISH
62	RI	00	929.6	HS		
63	LP	00	950.7	HS		FISH
64	RI	00	1004.9	HS		
65	RI	01	1039.1	/TJ		
66	RI	11	1039.1			T=12.0C SD-0422592-4980
68	RI	00	1072.1		RIPARIAN #4, CT-CT	RIPARIAN #4
69	PP	00	1091.6	HS		NO DROP, FISH
70	CC	00	1120.4	CC	D=4.0M WIDE (OVAL) NO DR	
73	RI	00	1184			FISH

Comment Summary

Restoration Monitoring Sites 2006

MONITORING AREA: **2-MC** SITE ID: **341** **ROCK CREEK PRE-TX**

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
74	LP	00	1194.2	HS		NOTCHED LOGS
76	SP	00	1243.8	HS		FISH
78	RI	00	1296.3		RIPARIAN #5, CT-CT	RIPARIAN #5
79	LP	00	1314.1		BV	FISH
80	RI	00	1325.3	BV		
82	SC	00	1351.2	HS, DJ		
83	LP	00	1370.6		BV	FISH
84	SD	00	1373.1	BD	BV	
85	BP	00	1395.6	BV	COHO	FISH
87	LP	00	1406	HS		FISH, DIPPER
88	RI	00	1432.4	HS		
89	SC	00	1439.5			CRAYFISH
91	LP	00	1465.4	DJ		
95	LP	00	1517.7			FISH
96	RI	01	1534.4	/TJ		3D-0422912-4980456
97	RI	11	1534.4			T=12.0C
98	RI	00	1584.6		RIPARIAN #6, CT-CT	RIPARIAN #6
100	LP	00	1614.2		FISH	FISH
101	SC	00	1616.2		H=0.10M	H=0.10M
102	LP	00	1637.7			FISH
106	LP	00	1774.5		FISH	FISH

Comment Summary

Restoration Monitoring Sites 2006

MONITORING AREA: **2-MC** SITE ID: **341** **ROCK CREEK PRE-TX**

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
107	RI	00	1787		RIPARIAN #7, US-MT	RIPARIAN #7
108	PP	00	1799.2			NO DROP, FISH
109	CC	00	1812.9	CC	H=2.30M, WIDTH=2.50M, NO	
110	RI	01	1870.1	/TJ		3D-0423018-4980661
111	RI	11	1870.1			T=12.0C
112	SL	00	1870.7		H=0.20M	H=0.20M
115	LP	00	1917.1	BV		
116	RI	00	1942.6			PACIFIC GIANT SALAMAN
117	SR	00	1944.1		H=0.20M	H=0.20M
119	SL	00	1954		H=0.30M	H=0.30M
121	LP	00	2001.7	DJ		FISH
122	RI	00	2046.6	DJ	RIPARIAN #8, CA-CT	RIPARIAN #7
123	PP	00	2060.3		COHO	COHO
124	SL	00	2060.8		H=0.35M	H=0.35M
125	RI	00	2103.2	DJ		
133	RI	00	2261.5		RIPARIAN #9, CA-CT	RIPARIAN #8
134	LP	00	2277.6			FISH
136	LP	00	2343.9			FISH
137	RI	00	2370.4	DJ, SS/	SS/	
138	LP	00	2382.5	DJ		
142	RI	11	2450	/TJ		3D-0423028-4981143

Comment Summary

Restoration Monitoring Sites 2006

MONITORING AREA: **2-MC** SITE ID: **341** **ROCK CREEK PRE-TX**

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
144	LP	00	2490.5	DJ		FISH
145	RI	00	2540.7	DJ	/CLEARCUT, CA-CT	RIPARIAN #9
146	RI	00	2556.6	DJ		
147	TP	00	2568.8			CLEARCUT TO STREAM
150	RI	00	2642.5			CLEARCUT
152	SC	00	2694.4		TC & PJ CONT @ AG & JS E	PJ & TC CONT @ AG & JS
154	CB	00	2711.4	DJ		
155	SD	00	2712.4	BD	H=0.35M	
156	BP	00	2721.9	BV		
161	RI	00	2773.3		LARGE CONIFERS ON BANK	
163	RI	00	2846.9	DJ		
164	SS	00	2847.5		CONCRETE DAM, H2O FLOW	OLD CONCRETE DAM & H
165	RI	00	2893			H2O FLOW THRU GATES,
167	SR	00	2910	DJ		
168	LP	00	2929.2		CLEARCUT CLOSE ON RT H	
169	RI	00	2939.2			METAL ON LEFT BANK
170	LP	00	2948.8	DJ		
171	RI	01	2982.9	DJ		
174	SC	02	2982.9	DJ		
175	LP	02	2982.9	DJ		
176	RI	01	3010.1		CH-MV	

Comment Summary

Restoration Monitoring Sites 2006

MONITORING AREA: **2-MC** SITE ID: **341** **ROCK CREEK PRE-TX**

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
178	LP	00	3020.7			FRY
179	SC	00	3021.8		H=0.20M	
182	RB	01	3073.4	DJ		
185	RP	00	3101.2			CHESTNUT-BACKED CHIC
187	RI	00	3145.2	/LI		
189	SL	00	3151.1	DJ	H=0.50M	
191	RI	02	3161.1			WINTER WREN
192	SD	00	3162.1	BD	H=0.20M	
193	BP	00	3180.6	BV		FRY
194	LP	00	3209.6	DJ		COHO FRY
195	RI	01	3233.6	WL		TRAIL
198	SC	00	3242.8		CA-CT	
199	LP	01	3262	/TJ	BEGINNING CLEARCUT HS	
200	RB	11	3262		ACW=1.30M	RIGHT TRIB
204	RI	01	3332.9	DJ, DJ		FRY
206	RI	02	3332.9		WOOD COUNTED IN UNIT 20	
207	LP	01	3353.4	FRY		
208	IP	10	3353.4	6 COHO FRY	FRY	
214	LP	00	3422.5	BV	ELK SIGN	OLD BLOWN OUT BV DAM
215	LP	00	3438.6		OLD BEAVER DAM	
218	LP	00	3470.6		EXITING BLOWDOWN AREA	

Comment Summary

Restoration Monitoring Sites 2006

MONITORING AREA: **2-MC** SITE ID: **341** **ROCK CREEK PRE-TX**

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
222	RB	00	3542.8	DJ	CH-MV	
226	SR	00	3567.8		WITH DEEP POCKETS	SEVERAL JUMP POOLS
228	LP	00	3609.3			COHO FRY
229	RR	00	3646.5			OLD IRON WATER PIPE
232	LP	00	3692.1	DJ	ENTERING BLOWDOWNS A	STEELARS JAY
233	LP	00	3704.2			FRY
234	CB	00	3712.2	DJ		
235	DP	00	3722.2			FRY
236	RI	00	3732.2			LOTS OF BLOW DOWN
237	LP	00	3739		COHO FRY, US-MT	
239	LP	01	3755		BV	FRY
241	RI	00	3781.3			BLOWN OUT OLD BV DAM
242	LP	00	3790			FRY
243	RI	01	3814	TJ/		SALMON SPAWNING SUR
244	RB	11	3814		ACW=2.4	TEFT TRIB
245	SD	00	3815.2	BD	H=0.45M	
246						



Name: DEVILS LAKE
 Date: 5/23/2006
 Scale: 1 inch equals 2000 feet

Location: 10 423614 E 4980680 N
 Caption: ROCK CREEK RESTORATION SITE - DEVILS LAKE BASIN