

**ODFW AQUATIC INVENTORY PROJECT  
RESTORATION MONITORING  
STREAM HABITAT REPORT**

STREAM: MARLOW CREEK  
 GCG: 3-MS  
 SITE ID: 417  
 BASIN: COOS RIVER  
 TREATMENT DATE:  
 SURVEY DATE: 9/28/2009  
 SURVEY CREW:  
 USGS MAPS:  
 ECOREGION:  
 REPORT PREPARED BY: Matt Strickland / Sharon Tippery / Charles Stein

REACH: 1

SURVEY DESCRIPTION:

Channel morphology: Constrained by hillslopes  
 Dominant landuse(s): Second growth timber (15-30 cm dbh)  
 Dominant riparian vegetation: Deciduous trees: size class 30-50cm dbh  
 Primary channel length (meters) and area (m<sup>2</sup>): 4,291 : 20,024  
 Secondary channel length (meters) and area (m<sup>2</sup>) 361 : 597  
 VWI average: 2.4 VWI Range: 1 - 5.5 Average Gradient: 1.8%  
 Pieces LWD per 100m: 33.0 Wood Volume (m<sup>3</sup>) per 100m: 52.0  
 Percent pools: 47% Complex pools (LWD pieces>=3): 41 Pools >=1m deep: 2  
 Percent substrate (avg):

	<u>Silt / organics</u>	<u>Sand</u>	<u>Gravel</u>	<u>Cobble</u>	<u>Boulder</u>	<u>Bedrock</u>
All units	6	15	25	13	15	25
Pool units	10	19	22	10	13	26
Fast water units	3	11	26	17	17	26

SURVEY COMMENTS:

The Marlow Creek post-treatment restoration survey extended upstream approximately 4300 meters. The survey crew noted observing numerous juvenile salmonids throughout the survey. The crew also noted numerous secondary channels and several debris jams. There were no barriers to upstream fish migration noted within the surveyed length.

Survey Date: 9/28/2009

Report Date: 1/27/2011

T24S-R11W-S33NW

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	0%
Moderate V-shape	100%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	2.4	VWI Range:	1 - 5.5

Channel Morphology (Percent Reach Length)

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

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m<sup>2</sup>)</u>	<u>Dry Units</u>
Primary	4,291	20,024	0
Secondary	361	597	7

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 19	<u>First Terrace</u> n = 13
Width: 4.2	Width: 9.5	12.5 ( 7.4 - 19.9 )	14.8 ( 8.1 - 23.7 )
Depth: 0.35	Height: 0.5	1.1 ( 1 - 1.6 )	1.7 ( 1.1 - 5.5 )

W:D ratio: 17.8

Stream Flow Type: LF

Average Unit Gradient: 1.8%

Water temperature (°C): 14.0 - 14.0

Entrenchment (ACW:FPW ratio): 1.3

Habitat Units/100m (total channel length): 5.6

Habitat Units/100m (primary channel length): 6.1

**Riparian, Bank, and Wood Summary**

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	LT
Riparian Vegetation:	D30	S

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	5%	Reach avg: 83%
Undercut Banks:	5%	Range: 61 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	1,414	33.0
Volume (m <sup>3</sup> ):	2,233	52.0
Key pieces (>=12m x 0.60m):	123	2.9

HABITAT INVENTORY

GCG: 3-MS SITE ID: 417

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T24S-R11W-S33NW

REACH 1

HABITAT DETAIL

Habitat Type	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m <sup>2</sup> )	Large Boulders (#>0.5m)	Substrate Percent Wetted Area					
							S/O	Snd	Grvl	Cbl	Bldr	Bdrk
CASCADE/BEDROCK	20	411	3.4	0.13	1,685	477	2	8	6	4	4	75
CASCADE/BOULDERS	40	900	4.3	0.15	4,248	3,019	3	13	20	23	31	10
CULVERT CROSSING	2	51	2.1	0.14	105	0	0	50	50	0	0	0
DRY UNIT	2	20	1.7	0.00	33	27	0	10	7	15	68	0
POOL-ALCOVE	1	13	1.6	0.40	21	0	24	48	19	10	0	0
POOL-BACKWATER	5	38	3.4	0.56	129	0	25	42	27	1	1	4
POOL-DAMMED	1	6	4.6	0.40	29	9	10	14	62	10	5	0
POOL-LATERAL SCOUR	93	1,631	5.1	0.65	8,564	1,287	10	19	24	11	13	24
POOL-PLUNGE	7	76	6.6	0.81	501	79	9	11	5	7	32	36
POOL-STRAIGHT SCOUR	2	24	6.3	1.08	157	10	19	48	24	2	5	2
POOL-TRENCH	5	82	4.9	0.72	373	45	7	13	7	2	1	70
PUDDLED UNIT	5	141	1.2	0.15	177	68	24	23	8	14	31	0
RAPID/BEDROCK	9	301	3.4	0.13	1,058	272	2	6	2	4	2	84
RAPID/BOULDERS	10	216	3.0	0.10	756	309	2	12	32	29	20	4
RIFFLE	12	228	3.4	0.09	758	103	2	12	57	20	8	2
RIFFLE W/ POCKETS	19	435	3.9	0.11	1,756	241	5	14	46	18	10	6
STEP/BEDROCK	9	19	2.9	0.08	56	21	0	1	1	0	2	97
STEP/BOULDERS	1	1	0.1	0.01	0	2	0	0	0	0	100	0
STEP/COBBLE	15	57	3.8	0.07	211	65	1	7	62	23	7	0
STEP/LOG	1	1	1.4	0.03	2	0	0	80	20	0	0	0
STEP/STRUCTURE	2	2	1.0	0.13	2	9	0	0	0	0	100	0
<b>Total:</b>	<b>261</b>	<b>4,652</b>	<b>4.2</b>	<b>0.35</b>	<b>20,621</b>	<b>6,043</b>	<b>Avg: 6</b>	<b>15</b>	<b>25</b>	<b>13</b>	<b>15</b>	<b>25</b>

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m <sup>2</sup> )	Percent	Number	(#/ 100m <sup>2</sup> )
Dammed & BW Pools	7	58	3.3	0.51	178	0.86%	9	5.0
Scour Pools	107	1,812	5.2	0.67	9,595	46.53%	1,421	14.8
Glides	0	0			0	0.00%	0	0.0
Riffles	31	663	3.7	0.10	2,514	12.19%	344	13.7
Rapids	19	517	3.2	0.11	1,814	8.80%	581	32.0
Cascades	60	1,311	4.0	0.14	5,934	28.77%	3,496	58.9
Step/Falls	28	79	3.1	0.08	272	1.32%	97	35.7
Dry	7	161	1.3	0.11	210	1.02%	95	45.3
Culverts	2	51	2.1	0.14	105	0.51%	0	0.0

OREGON DEPT OF FISH AND WILDLIFE  
HABITAT INVENTORY

MARLOW CREEK  
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REACH 1

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**POOL SUMMARY**

	<u>Total</u>	Total of all Channel Lengths <u># / Km</u>	Primary Channel Length <u># / Km</u>
All Pools:	114	24.5	26.6
Pools >=1m deep:	12	2.6	2.8
Complex pools (LWD pieces>=3):	41	8.8	9.6
Pool frequency (channel widths/pool):	4.3		
Residual pool depth (avg):	0.60		

Survey Date 9/28/2009

RIPARIAN ZONE  
VEGETATION SUMMARY

REACH 1

Report Date: 1/27/2011

Summary of Riparian Zone (0-30m) 17 transects

Total hardwoods/1000	696
Total conifers/1000 ft	100
Total conifers >20" dbh/1000 ft	32
Total conifers >35" dbh/1000 ft	0

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	0.0	2.3	0.1	1.4	0.1	1.4	0.1	5.0
15-30cm	0.1	1.0	0.2	0.8	0.4	1.2	0.7	2.9
30-50cm	0.1	1.2	0.1	0.7	0.1	1.2	0.3	3.1
50-90cm	0.1	0.2	0.1	0.2	0.4	0.1	0.5	0.4
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	0.2	4.6	0.5	3.0	0.9	3.8	0.5	3.8

Canopy closure and ground cover

	Zone 1 0-10 meters (%)	Zone 2 10 - 20 meters (%)	Zone 3 20 - 30 meters (%)
Canopy closure	67	66	69
Shrub cover	42	31	23
Grass/forb cover	50	51	61

Predominant landform in each zone

	Zone 1 0-10 meters (%)	Zone 2 10 - 20 meters (%)	Zone 3 20 - 30 meters (%)
Hillslope	65	62	79
High terrace	29	18	0
Low terrace	3	0	0
Floodplain	0	0	0
Wetland/meadow	0	0	0
Stream channel	0	0	0
Roadbed/Railroad	3	21	21
Riprap	0	0	0
Surface slope (%)	37	33	50

**Summary of Riparian Zone (0-30m) for all reaches**

17 transects

**Summary of riparian zone (0-100 feet) extrapolated to 1,000 feet along stream**

Total hardwoods/1000	696
Total conifers/1000 ft	100
Total conifers >20" dbh/1000 ft	32
Total conifers >35" dbh/1000 ft	0

**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	0.1	5.0
15-30cm	0.7	2.9
30-50cm	0.3	3.1
50-90cm	0.5	0.4
>90cm	0.0	0.0

**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		
18	LF	1	HT	10	70	60	40	Conifer							
								Hardwood							
18	LF	2	HS	15	90	40	60	Conifer					3M OF RB		
								Hardwood							
18	LF	3	RB	0	40	0	30	Conifer					NO TREES		
								Hardwood							
18	RT	1	HS	10	80	80	20	Conifer							
								Hardwood							
18	RT	2	HS	30	70	80	20	Conifer					ELDERBERRIES		
								Hardwood							
18	RT	3	HS	25	90	40	60	Conifer							
								Hardwood							
31	LF	1	HT	0	85	40	60	Conifer							
								Hardwood							
31	LF	2	HS	30	85	40	60	Conifer					4M OF HT		
								Hardwood							
31	LF	3	RB	0	80	0	35	Conifer					NO TREES		
								Hardwood							
31	RT	1	HS	30	15	10	90	Conifer							
								Hardwood							
31	RT	2	HS	70	65	5	80	Conifer							
								Hardwood							
31	RT	3	HS	50	75	0	95	Conifer							
								Hardwood							
46	LF	1	RB	0	60	10	20	Conifer					3M OF RB		
								Hardwood							
46	LF	2	HS	35	95	20	80	Conifer							
								Hardwood							
46	LF	3	HS	35	95	30	70	Conifer							
								Hardwood							
46	RT	1	HS	150	40	10	60	Conifer					TOO STEEP TO WALK		
								Hardwood							
46	RT	2	HS	120	40	30	60	Conifer							
								Hardwood							
46	RT	3	HS	100	90	20	80	Conifer							
								Hardwood							
58	LF	1	HT	0	80	80	20	Conifer							
								Hardwood							
58	LF	2	HS	45	95	30	30	Conifer					4M OF RB		
								Hardwood							

**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		
58	LF	3	RB	0	80	10	30	Conifer							3M RB-NO TREES
								Hardwood							
58	RT	1	HS	30	30	80	20	Conifer							
								Hardwood	1						
58	RT	2	HS	75	20	20	30	Conifer		1					LANDSLIDE
								Hardwood							
58	RT	3	HS	120	30	40	30	Conifer							
								Hardwood	4						
71	LF	1	HS	60	40	40	20	Conifer							4M OF RB-NO TREES
								Hardwood							
71	LF	2	RB	0	20	0	30	Conifer							NO TREES
								Hardwood							
71	LF	3	HS	80	20	40	60	Conifer							3M OF RB
								Hardwood		1					
71	RT	1	HT	5	50	80	20	Conifer							NO TREES
								Hardwood							
71	RT	2	HT	10	30	80	20	Conifer							3M OF RB
								Hardwood		1					
71	RT	3	HS	60	50	30	70	Conifer							
								Hardwood	3		1				
82	LF	1	HT	0	85	10	90	Conifer							ALDERS
								Hardwood	6	2					
82	LF	2	HT	0	50	5	40	Conifer		1					SLASH
								Hardwood	1	1					
82	LF	3	RB	0	10	0	20	Conifer							
								Hardwood							
82	RT	1	HS	90	80	60	40	Conifer							SM ALDERS
								Hardwood	8						
82	RT	2	HS	80	80	40	60	Conifer							
								Hardwood	1						
82	RT	3	HS	80	80	30	70	Conifer							
								Hardwood					1		
95	LF	1	HS	45	15	40	60	Conifer							3M OF RB-NO TREES
								Hardwood							
95	LF	2	RB	0	25	5	40	Conifer							NO TREES
								Hardwood							
95	LF	3	HS	65	70	60	40	Conifer			1				
								Hardwood		1	1				
95	RT	1	HS	50	60	20	80	Conifer							
								Hardwood	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		
95	RT	2	HS	15	60	30	70	Conifer							POSS OLD RB-NO TREES
								Hardwood							
95	RT	3	HS	90	80	10	90	Conifer				1			
								Hardwood							
105	LF	1	HT	5	95	15	80	Conifer							4M OF LT
								Hardwood	3	3					
105	LF	2	HT	0	95	20	80	Conifer							
								Hardwood	4	5					
105	LF	3	RB	0	60	5	35	Conifer							3M OF HS-NO TREES
								Hardwood							
105	RT	1	HS	70	50	60	40	Conifer							
								Hardwood	2	2					
105	RT	2	HS	60	60	80	20	Conifer							
								Hardwood	1	1					
105	RT	3	HS	80	60	80	20	Conifer							
								Hardwood				2			
115	LF	1	HS	50	80	60	40	Conifer							
								Hardwood				1			
115	LF	2	RB	0	30	5	35	Conifer							NO TREES
								Hardwood							
115	LF	3	HS	60	40	30	40	Conifer							NO TREES
								Hardwood							
115	RT	1	HS	70	90	30	70	Conifer							
								Hardwood				1			
115	RT	2	HS	30	90	30	70	Conifer							
								Hardwood		1					
115	RT	3	HS	50	95	20	80	Conifer					1		
								Hardwood							
129	LF	1	HS	0	30	30	50	Conifer							2M OF RB
								Hardwood	3						
129	LF	2	RB	0	50	0	40	Conifer							3M OF HS
								Hardwood							
129	LF	3	HS	120	90	5	70	Conifer							
								Hardwood	2	1	1				
129	RT	1	HS	100	80	70	30	Conifer					1		
								Hardwood							
129	RT	2	HS	60	90	40	60	Conifer							
								Hardwood		1	1				
129	RT	3	HS	60	80	20	80	Conifer							
								Hardwood		1	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		
147	LF	1	HS	80	55	20	80	Conifer							
								Hardwood	3			1			
147	LF	2	HS	80	80	70	30	Conifer		1					
								Hardwood	3	1					
147	LF	3	HS	70	95	10	90	Conifer	1	3					
								Hardwood							
147	RT	1	HT	0	70	30	80	Conifer							
								Hardwood	1	4					
147	RT	2	HT	0	30	80	20	Conifer							4M OF HS
								Hardwood	3						
147	RT	3	HS	60	80	40	60	Conifer							
								Hardwood	2	1	1				
176	LF	1	LT	0	90	5	95	Conifer							4M OF HT
								Hardwood			1				
176	LF	2	HT	5	95	15	85	Conifer							
								Hardwood		1	3				
176	LF	3	HS	35	95	15	85	Conifer							
								Hardwood		1	5				
176	RT	1	HS	75	80	20	75	Conifer							
								Hardwood	3						
176	RT	2	HS	60	90	5	75	Conifer							BOOMER HOLES
								Hardwood				1			
176	RT	3	HS	60	70	5	85	Conifer							
								Hardwood		1					
195	LF	1	HT	5	95	60	40	Conifer							
								Hardwood	2						
195	LF	2	HS	60	50	60	40	Conifer							NO TREES
								Hardwood							
195	LF	3	RB	0	40	5	35	Conifer							NO TREES
								Hardwood							
195	RT	1	HS	50	60	60	40	Conifer							2M OF HT
								Hardwood	1		1				
195	RT	2	HS	50	60	60	40	Conifer							
								Hardwood			1				
195	RT	3	HS	10	30	40	60	Conifer							
								Hardwood	1	1					
208	LF	1	HS	50	90	20	80	Conifer							
								Hardwood				1			
208	LF	2	RB	0	80	0	60	Conifer							NO TREES
								Hardwood							

**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	
208	LF	3	HS	60	95	15	85	Conifer		1	1	1		
								Hardwood						
208	RT	1	HS	50	90	80	20	Conifer						
								Hardwood			1			
208	RT	2	HS	60	80	40	60	Conifer						
								Hardwood	1		1			
208	RT	3	HS	60	70	10	90	Conifer						
								Hardwood	1	2	2			
226	LF	1	HS	45	90	20	80	Conifer		1				
								Hardwood						
226	LF	2	HS	40	95	15	65	Conifer		2		1		
								Hardwood				1		
226	LF	3	RB	0	40	5	40	Conifer						
								Hardwood						
226	RT	1	HT	0	60	80	20	Conifer						
								Hardwood		1	4			
226	RT	2	HT	0	60	60	40	Conifer						3M OF HS-NO TREES
								Hardwood						
226	RT	3	HS	50	95	0	95	Conifer				2		
								Hardwood						
246	LF	1	HS	60	50	30	20	Conifer						NO TREES
								Hardwood						
246	LF	2	RB	0	50	0	40	Conifer						NO TREES
								Hardwood						
246	LF	3	HS	60	70	90	10	Conifer						
								Hardwood	1		1			
246	RT	1	HT	0	90	40	60	Conifer						
								Hardwood	1		2			
246	RT	2	HS	30	70	25	75	Conifer						40CM DEAD ALDER
								Hardwood						
246	RT	3	HS	50	50	10	90	Conifer						
								Hardwood	4					
257	LF	1	HS	30	95	40	20	Conifer						
								Hardwood	2	2	2			
257	LF	2	RB	0	75	10	30	Conifer						NO TREES
								Hardwood						
257	LF	3	HS	30	90	60	40	Conifer						
								Hardwood	2	2	1			
257	RT	1	HS	25	50	25	45	Conifer				1		
								Hardwood			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		
257	RT	2	HS	55	90	5	95	Conifer				1			
								Hardwood							
257	RT	3	HS	65	95	5	95	Conifer				1			
								Hardwood				2			

OREGON DEPT OF FISH AND WILDLIFE  
HABITAT INVENTORY

OREGON PLAN MONITORING SITE  
SURVEY DATE: 9/28/2009

COMMENT SUMMARY

MONITORING AREA: 3-MS SITE ID: 417 STREAM: MARLOW CREEK

REACH	UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
	1	LP	00	16.5	CF	CH-MV
	2	RR	00	34.6		T=14C/0900
	3	RP	00	64.8	DJ,HS,LA	
	4	LP	00	75	CF	
	6	LP	00	125.7	HS	
	7	SR	00	129.8	HS	
	8	LP	00	160.5	HS	
	11	LP	01	195	TJ/	VERY SM STEP BTWN POOLS
	12	CR	11	195		TRIB A; ACW=1.9M
	13	SR	00	198.9	SS/	T=13C/1030
	14	LP	00	210.8	/LA	
	15	RR	00	232.3	SS/	
	16	CB	00	240.9	HS	
	17	LP	00	249.9	HS	
	18	RP	00	262.7	HS	RIP-1; UTM0417634/4811217
	19	LP	00	285.6	HS	
	20	RR	00	331.1	HS	
	24	LP	00	376.5	HS	
	27	CB	00	430.8	HS	
	28	CR	00	457	HS	
	30	TP	00	495.6		
	31	RR	01	543	WL	RIP-2
	32	DU	11	543		W=ACW=2; TRIB-B
	33	CR	00	557.2	HS	
	34	PP	00	566.3	HS	

OREGON DEPT OF FISH AND WILDLIFE  
HABITAT INVENTORY

OREGON PLAN MONITORING SITE  
SURVEY DATE: 9/28/2009

COMMENT SUMMARY

MONITORING AREA: 3-MS SITE ID: 417 STREAM: MARLOW CREEK

REACH	UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
	36	LP	00	599.6	CS/	
	37	RR	00	649.6	CE/,SS/	
	38	CR	01	690.3	TJ/	
	39	CB	11	690.3		TRIB-C; T=13C/1400; ACW=1.6M
	40	TP	00	708.1	SS/	
	46	CR	00	774.1		RIP-3
	47	CB	00	798.3	CF	
	48	LP	00	827.2		
	55	LP	00	949.7		
	57	LP	01	1006.1	LI, HS	
	58	CR	01	1020.3		RIP-4
	59	PD	02	1020.3		
	60	LP	00	1039.6	LI	
	61	CR	01	1074.2	TJ/	
	62	RB	11	1074.2		TRIB-D; ACW=1.5M; T=12C
	64	CR	01	1128.2	HS,DJ	LOTS OF DEBRIS IN 01 CHNL
	65	CB	02	1128.2		
	66	LP	00	1137.4	/SS	
	67	CR	00	1187.4	HS, DJ	
	68	CR	00	1216.6	DJ	UNDER LG DJ/HS
	69	RI	01	1250.2	/TJ	
	70	CB	11	1250.2		TRIB-E; ACW=W=2.1M
	71	RB	00	1289.2	CF, HS, CS	RIP 5
	72	LP	00	1307.7	HS,DJ	
	74	LP	00	1362.4	LA	

OREGON DEPT OF FISH AND WILDLIFE  
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OREGON PLAN MONITORING SITE  
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COMMENT SUMMARY

MONITORING AREA: 3-MS SITE ID: 417 STREAM: MARLOW CREEK

REACH	UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
	75	CR	00	1384	HS	
	77	CB	00	1427.2	HS	
	79	CB	00	1465.4	LA,DJ,HS	
	80	LP	00	1481	HS	
	82	LP	00	1510.8		RIP-6
	86	LP	00	1542.6	CS	
	87	CB	01	1575.4	/TJ	
	88	DU	11	1575.4		TRIB-F; ACW=W=1.3
	90	LP	00	1622.9	HS,DJ	LG DJ
	91	RB	00	1640.3	HS, DJ	T=10.5/0930
	93	CB	00	1697.4	CS/	
	94	LP	00	1719.3	HS,DJ	
	95	CB	00	1749		RIP-7
	97	CB	00	1812	CF	
	98	CB	00	1846.3	DJ	
	99	LP	00	1860.7	HS	
	100	CB	00	1910.7	DJ	
	101	CB	00	1924.4		
	102	LP	00	1948.5		
	103	CB	00	1955.6		
	104	LP	00	1965.9		
	105	CB	01	2014.3	/TJ	RIP-8
	106	CR	11	2014.3		TRIB-6; ACW=4; T=10.5C
	110	RI	00	2084.8	HS	
	111	LP	00	2094.6	HS	

OREGON DEPT OF FISH AND WILDLIFE  
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OREGON PLAN MONITORING SITE  
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COMMENT SUMMARY

MONITORING AREA: 3-MS SITE ID: 417 STREAM: MARLOW CREEK

REACH	UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
	113	RP	00	2159.8	HS,DJ	
	115	LP	00	2206.4		RIP-9
	116	LP	00	2217.1		SM STEP BWTN POOLS
	119	CB	00	2293.6	HS,DJ	
	120	LP	00	2315.4	HS,DJ	
	121	CB	00	2349.2		
	123	CB	01	2407.6	/HS,DJ	
	124	PD	02	2407.6	WL	PARTIALLY UNDER DJ
	126	PP	00	2437.7	CF	
	127	SR	00	2438.7		
	129	CB	01	2487.9		RIP-10
	130	PD	02	2487.9		SHOULD BE /TJ HERE BUT NO CHNL FOUND
	131	LP	00	2499.9	WL,HS,DJ	
	133	LP	01	2532.8	LA	
	137	CB	00	2583.2	HS,DJ	
	138	PP	01	2589.2		
	139	CC	01	2616.7	CC	CHNL IS A HABITAT SEE U2
	140	RI	01	2643.1		GPS:0418444/4812776-SEE MAP OXBOW REST PROJ
	141	LP	01	2658.6		
	143	BW	10	2665.5		
	144	LP	01	2677.7		
	146	LP	01	2715.5	WL,BA	
	147	SC	01	2718		RIP-11
	150	LP	01	2746.1	TJ/	
	151	CB	11	2746.1		TRIB-H; ACW=0.6M; T=11C/1100



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OREGON PLAN MONITORING SITE  
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COMMENT SUMMARY

MONITORING AREA: 3-MS SITE ID: 417 STREAM: MARLOW CREEK

REACH	UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
	153	LP	01	2778.6	AM	
	156	LP	01	2789.2	DJ	
	159	SS	01	2814.5		BOULDER WEIR
	161	SS	01	2825.6		
	162	CC	01	2849.2	CC	GPS:0418362/4812846; END OF OXBOW
	163	DP	01	2855.4		
	164	LP	02	2855.4		
	165	CB	02	2855.4		
	166	PP	02	2855.4		
	167	SB	02	2855.4	CS/	
	168	PD	02	2855.4	LA,CS/	FLOW GOES UNDERGROUND
	169	PD	02	2855.4	AM	
	170	RP	00	2868.7		
	173	LP	00	2904.5	DJ,HS	
	174	RP	00	2918.5	LA	UNER LWD STRUCTURE
	175	LP	00	2945.1	AM	
	176	RP	00	2973.7	BA	RIP-12
	177	LP	00	3004.7	HS, DJ	
	178	SC	00	3009	HS, DJ	
	180	RP	00	3045.2		GPS:0418317/4812979; T=12C/1515
	181	LP	01	3061	DJ	
	184	LP	00	3082.6		
	185	SC	00	3087.2	/WL	T=10C/1115
	186	LP	00	3109.2	DJ,HS	
	193	AL	10	3189.3		

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OREGON PLAN MONITORING SITE  
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COMMENT SUMMARY

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REACH	UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
	194	SC	00	3192.8		
	195	LP	01	3237.8	TJ,DJ,HS	RIP-13
	196	RB	11	3237.8		TRIB-H, Y CREEK; ACW=2.2M; T=10C/1300
	197	RP	00	3259.2		
	198	LP	01	3281.2	DJ,HS	
	199	BW	10	3281.2		
	202	LP	00	3330.7	DJ,HS,WL	
	204	LP	00	3375.4		
	205	RI	00	3390.7	HS	
	206	LP	00	3424.9	HS	
	208	LP	00	3482.3	AM,WL	RIP-14
	209	RP	00	3495.5	CF	
	212	LP	00	3523.6	HS,DJ	
	213	RB	00	3531.1	HS,DJ	
	214	LP	00	3545.7	HS,DJ	
	215	RP	00	3578.9	HS,DJ	
	216	CB	00	3602.9	HS,DJ	
	217	PP	00	3611.4	HS,DJ	
	218	SL	00	3612.7		
	221	TP	00	3642.8	HS	
	222	CR	01	3664.1	/TJ	T=11C/0900
	223	CB	11	3664.1		TRIB-J; T=10.5C/0900;ACW=3.4M
	224	LP	00	3681.4	DJ,HS	HEAVY RAIN INCR FLOW BY 1.5x
	226	LP	00	3711.6	DJ,HS	RIP-15
	227	CB	00	3727.1	CF,DJ,HS	

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OREGON PLAN MONITORING SITE  
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COMMENT SUMMARY

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REACH	UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
	228	LP	00	3747.7	CF	
	230	LP	00	3777.1	HS,DJ	
	231	RP	00	3798.5	HS,DJ	
	232	LP	00	3806.5	CF	UNDER HS
	238	LP	00	3860	DJ	
	239	CR	00	3867	SS/,AM,CF	
	240	CB	00	3876.8	DJ,HS,WL	
	241	RI	00	3907.3	WL	
	245	SC	00	3945.3		
	246	LP	00	3955.9		RIP-16
	249	RP	00	4001.9	DJ,HS	
	252	LP	00	4070.1		
	253	CB	00	4120.1		
	254	CB	00	4142.1	SS/	
	256	RP	00	4199.1	DJ,HS	
	257	LP	00	4216.7	DJ,HS	RIP-17
	259	LP	00	4263.6	WL	
	261	LP	01	4291	TJ/	T=11.5/1322