

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

STREAM: CHERRY CREEK  
 GCG: 2-MC  
 SITE ID: 15  
 BASIN: ALSEA  
 TREATMENT DATE: 2000  
 SURVEY DATE: 2/10/2011  
 SURVEY CREW: Nick Chambers and Aaron McAlexander  
 USGS MAPS: FIVE RIVERS  
 ECOREGION: Mid-Coastal Sedimentary  
 REPORT PREPARED BY: Matt Strickland / Charles Stein

REACH: 1 LOCATION: T14S-R10W-S36SE

**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>): 507 : 1,908  
 Secondary channel length (meters) and area (m<sup>2</sup>) 21 : 21  
 VWI average: 3.4 VWI Range: 1 - 11 Average Gradient: 1.3%  
 Pieces LWD per 100m: 13.2 Wood Volume (m<sup>3</sup>) per 100m: 17.3  
 Percent pools: 57% Complex pools (LWD pieces>=3): 6 Pools >=1m deep:0  
 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	22	36	4	3	29
Pool units	4	24	33	3	3	33
Fast water units	1	21	44	5	3	27

**SURVEY COMMENTS:**

This is a post treatment restoration survey. The crew noted stream habitat structures throughout the survey. The crew also noted several salmon carcasses, redds, and observed juvenile coho salmon. Beaver activity was noted throughout and the crew observed rough skinned newts.

Survey Date: 2/10/2011

Report Date: 9/14/2011

T14S-R10W-S36SE

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	3.4	VWI Range:	1 - 11

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 (m2)</u>	<u>Dry Units</u>
Primary	507	1,908	0
Secondary	21	21	1

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 1
Width: 3.5	Width: 5.9	9.1 ( 7.1 - 12.8 )	13.1 ( 13.1 - 13.1 )
Depth: 0.32	Height: 0.5	0.9 ( 0.8 - 1 )	3.0 ( 3 - 3 )

W:D ratio: 13.1

Stream Flow Type: MF

Average Unit Gradient: 1.3%

Water temperature (°C): -

Entrenchment (ACW:FPW ratio): 1.6

Habitat Units/100m (total channel length): 9.7

Habitat Units/100m (primary channel length): 10.1

**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:	13%	Reach avg: 88%
Undercut Banks:	12%	Range: 50 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	67	13.2
Volume (m <sup>3</sup> ):	88	17.3
Key pieces (>=12m x 0.60m):	3	0.6

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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
POOL-BACKWATER	2	6	1.6	0.30	10	0	29	42	29	0	0	0
POOL-ISOLATED	2	5	1.0	0.13	5	0	65	35	0	0	0	0
POOL-LATERAL SCOUR	21	255	3.5	0.51	891	14	3	25	33	3	2	34
POOL-PLUNGE	1	3	4.2	0.50	11	0	11	11	78	0	0	0
POOL-STRAIGHT SCOUR	3	41	5.1	0.50	196	12	7	25	23	8	7	30
PUDDLED UNIT	1	10	0.7	0.10	7	0	5	20	5	0	0	70
RAPID/BEDROCK	2	14	4.8	0.08	70	2	0	14	16	0	0	69
RIFFLE	10	164	3.8	0.18	603	8	1	22	49	6	3	19
STEP/BEDROCK	3	12	5.5	0.07	71	0	0	3	18	0	2	77
STEP/COBBLE	4	18	3.8	0.14	67	1	1	10	75	5	3	5
STEP/LOG	2	1	1.4	0.10	1	2	5	14	33	14	14	20
<b>Total:</b>	51	528	3.5	0.32	1,930	39	<b>Avg:</b> 6	22	36	4	3	29

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	4	11	1.3	0.21	14	0.75%	0	0.0
Scour Pools	25	298	3.7	0.51	1,097	56.84%	26	2.4
Glides	0	0			0	0.00%	0	0.0
Riffles	10	164	3.8	0.18	603	31.23%	8	1.3
Rapids	2	14	4.8	0.08	70	3.62%	2	2.9
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	9	30	3.8	0.11	139	7.21%	3	2.2
Dry	1	10	0.7	0.10	7	0.36%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

OREGON DEPT OF FISH AND WILDLIFE  
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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:	29	54.9	57.1
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	6	11.4	11.8
Pool frequency (channel widths/pool):	3.1		
Residual pool depth (avg):	0.36		

Survey Date 7/1/2005

**RIPARIAN ZONE  
VEGETATION SUMMARY**

Report Date: 9/14/2011

REACH 1

**Summary of Riparian Zone (0-30m) 3 transects**

Total hardwoods/1000	610
Total conifers/1000 ft	61
Total conifers >20" dbh/1000 f	0
Total conifers >35" dbh/1000 f	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	3.3	0.0	1.3	0.0	3.0	0.0	7.7
15-30cm	0.0	1.0	0.3	0.0	0.7	0.7	1.0	1.7
30-50cm	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.3
50-90cm	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.3
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	0.0	5.0	0.3	1.3	0.7	3.7	0.3	3.3

**Canopy closure and ground cover**

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	73		67		67	
Shrub cover	34		53		39	
Grass/forb cover	52		37		31	

**Predominant landform in each zone**

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	83		100		67	
High terrace	0		0		0	
Low terrace	17		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		0		33	
Riprap	0		0		0	
Surface slope (%)	39		24		11	

**Summary of Riparian Zone (0-30m) for all reaches****3 transects****Summary of riparian zone (0-100 feet) extrapolated to 1,000 feet along stream**

Total hardwoods/1000	610
Total conifers/1000 ft	61
Total conifers >20" dbh/1000 f	0
Total conifers >35" dbh/1000 f	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	0.0	7.7
15-30cm	1.0	1.7
30-50cm	0.0	0.3
50-90cm	0.0	0.3
>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		
15	LT	1	HS	25	90	40	40	Conifer							20 DUFF
								Hardwood							
15	LT	2	HS	5	50	70	30	Conifer							
								Hardwood							
15	LT	3	HS	5	35	75	25	Conifer							
								Hardwood							
15	RT	1	LT	0	85	40	50	Conifer							10 DUFF
								Hardwood	2		1				
15	RT	2	HS	30	50	75	25	Conifer							
								Hardwood							
15	RT	3	HS	30	60	50	50	Conifer							OLD ROAD CROSSING
								Hardwood							
27	LT	1	HS	55	20	25	75	Conifer							
								Hardwood	3						
27	LT	2	HS	15	65	10	35	Conifer							60 BARE
								Hardwood	4						
27	LT	3	HS	15	85	5	10	Conifer			2				
								Hardwood	4	2					
27	RT	1	HS	85	90	10	85	Conifer							5 BARE
								Hardwood	3		1				
27	RT	2	HS	40	80	55	45	Conifer							
								Hardwood							
27	RT	3	RB	0	70	5	10	Conifer							80 BARE
								Hardwood							
37	LT	1	HS	23	65	20	30	Conifer							
								Hardwood	2	3					
37	LT	2	HS	23	90	35	55	Conifer			1				
								Hardwood							
37	LT	3	RB	0	80	40	50	Conifer							
								Hardwood	4						
37	RT	1	HS	43	90	70	30	Conifer							
								Hardwood							
37	RT	2	HS	30	65	70	30	Conifer							
								Hardwood							
37	RT	3	HS	15	70	60	40	Conifer							
								Hardwood	1						

OREGON DEPT OF FISH AND WILDLIFE  
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OREGON PLAN MONITORING SITE  
SURVEY DATE: 2/10/2011

COMMENT SUMMARY

MONITORING AREA: 2-MC SITE ID: 15 STREAM: CHERRY CREEK

REACH	UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	1	LP	00	17.6	/SS	START JUST PAST CC START D15-30 LEFT BV IS A STICK FLOATED DS
1	5	SC	00	57.2	BV	FLOATING FRESH STICKS
1	7	SC	00	78.9		H=.20
1	9	SL	00	90.3	BV HS	H=.50 HS FORMS JAM AND STEP
1	12	SL	00	103.95		H=.35
1	13	LP	01	122.95	BV	BV FLOATING STICKS
1	14	BW	10	122.95	BV	OLDER BV
1	15	RI	00	129.25	BV	BV DAM TOP OF LAST UNIT
1	18	LP	00	160.85		REDD AT TAILOUT
1	22	LP	00	200.15	BV	CARC 400 COHO 8CUTTIES BV FRESH STICKS
1	26	LP	00	238.75		REDD
1	27	RI	01	266.85	BV IP/	REDD



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MONITORING AREA: 2-MC SITE ID: 15 STREAM: CHERRY CREEK

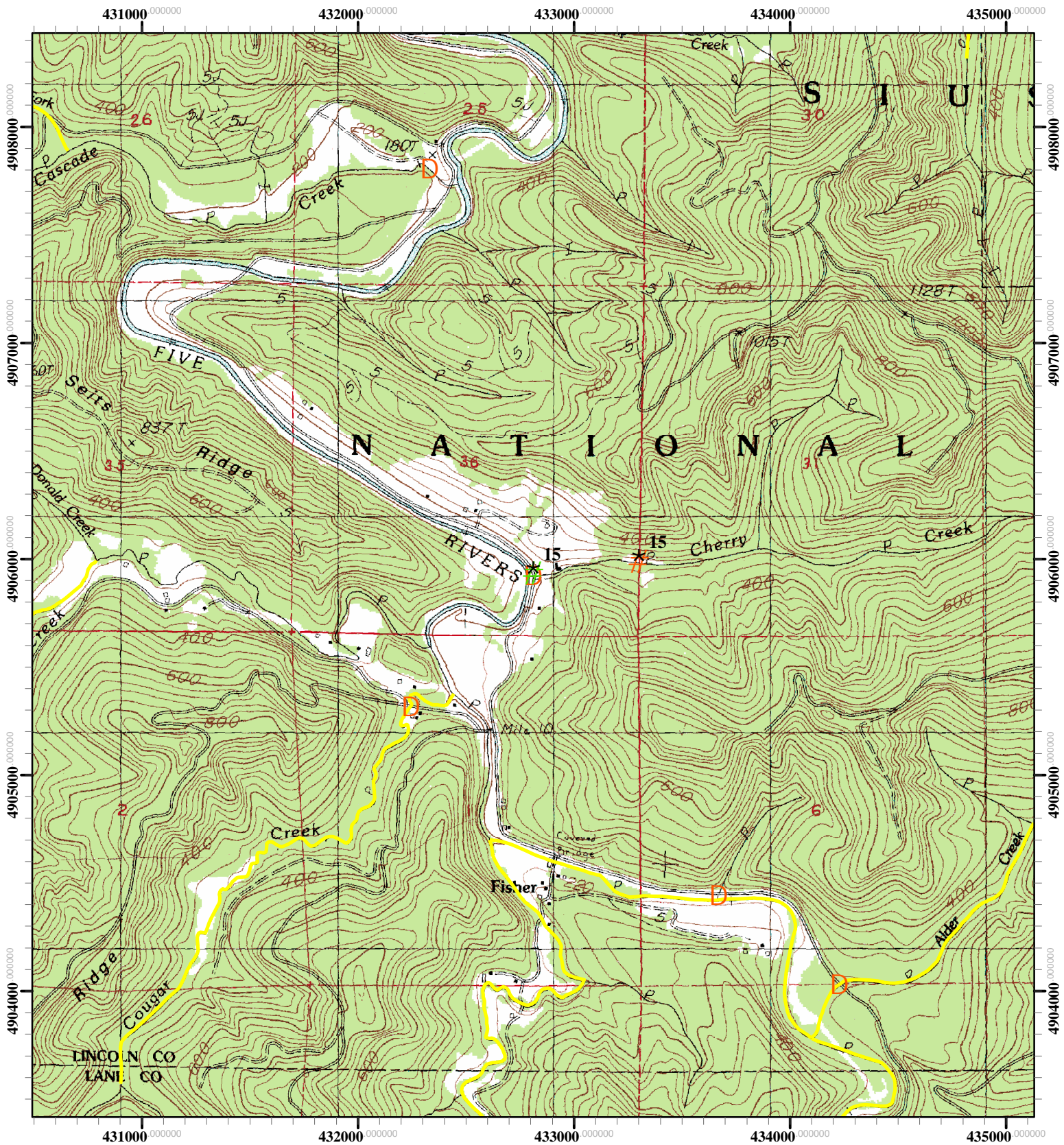
REACH	UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	28	IP	10	266.85	SS/	
1	29	LP	00	282.55	SS/	
1	30	RI	00	296.95	HS	BOULDERS APPEAR TO BE HS
1	31	SP	00	320.05		REDD AT TAILOUT
1	32	RI	01	335.65	IP/	
1	33	IP	10	335.65	AM	RSN=2 CARC ON LOW TERRACE
1	34	LP	00	359.35	HS SS/	CARC POCKET OF WATER IN SS
1	39	SR	00	388.65		H=.25
1	42	BW	10	416.45		15-20 COHO JUVENILES
1	43	LP	01	426.35	HS	CARCASS
1	44	SR	01	430.45	HS DJ	HS FORMS DJ
1	45	PD	02	430.45		ACW=2.0 2 CARC STARTS AT HS

**COMMENT SUMMARY**





MONITORING AREA: 2-MC    SITE ID: 15    STREAM: CHERRY CREEK

REACH	UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	47	LP	00	471.55	CARC	
1	48	LP	00	477.65	UNDERCUT FORMED BY ROOTWAD	





Restoration Site ID: 15  
 Stream: Cherry Creek  
 T14S- R10W - S36  
 USGS Map: Five Rivers  
 Basin: Alsea

-  Restoration Start Point
-  Restoration End Point
-  Potential Barrier
-  Spawning Survey Segments

