

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

STREAM: Cruiser Creek Tributary (N-273)  
BASIN: Trask River  
SURVEY TYPE: Post-Tx  
DATE: August 1, 2006  
SURVEY CREW: Gordon Rose, Ben Walczak  
REPORT PREPARED BY: Paul Jacobsen  
BASIN AREA: 3.6 km<sup>2</sup>  
USGS MAPS: Gobblers Knob  
ECOREGION: Coast Range Volcanic

**GENERAL DESCRIPTION:**

The Cruiser Creek Tributary Creek habitat survey extended 864 meters. The channel was constrained by hillslopes in a steep V-shaped valley. The average valley width index was 2.6 (range: 1.1-4.0). Land use for the reach was second growth (15-30 cm dbh) and large (30-50 cm dbh) trees. The average unit gradient was 3.0 percent. Riffles (34%), rapids (30%) and scour pools (26%) dominated stream habitat. Gravel (38%) and cobble (26%) dominated stream substrate. Wood volume was moderate at 21.4 m<sup>3</sup>/100m.

**COMMENTS:**

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

The crew noted several habitat structures during the survey.

OREGON DEPT OF FISH AND WILDLIFE CRUISER CREEK TRIBUTARY POST-TX (1-NC, 273)

HABITAT INVENTORY

Report Date: 2/27/2007

Survey Date: 8/1/2006

REACH 1

T02S-R06W-S06SW

REACH 1

**Valley and Channel Summary**

Valley Characteristics (Percent Reach Length)

<u>Narrow Valley Floor</u>		<u>Broad Valley Floor</u>	
Steep V-shape	100%	Constraining Terraces	0%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	2.6	VWI Range:	1.1 - 4

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 Channel	864	3,114	0
Secondary Channel	28	56	0
Off-Channel Units	24	57	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 4
Width: 3.9	Width: 6.2	8.1 ( 5.4 - 12.1 )	10.7 ( 7.7 - 17.8 )
Depth: 0.21	Height: 0.4	0.8 ( 0.5 - 1.1 )	1.1 ( 0.8 - 1.2 )

W:D ratio: 15.7

Entrenchment (ACW:FPW ratio): 1.3

Stream Flow Type: LF

Habitat Units/100m (total channel length): 6.6

Average Unit Gradient: 3.0%

Habitat Units/100m (primary channel length): 6.9

Water temperature (°C): 11.0 - 11.0

**Riparian, Bank, and Wood Summary**

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	LT
Riparian Vegetation:	C15	D15

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	26%	Reach avg: 72%
Undercut Banks:	8%	Range: 56 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	135	15.6
Volume (m <sup>3</sup> ):	185	21.4
Key pieces (>=12m x 0.60m):	2	0.2

OREGON DEPT OF FISH AND WILDLIFE CRUISER CREEK TRIBUTARY POST-TX (1-NC, 273)

HABITAT INVENTORY

Report Date: 3/5/2007

Survey Date:

8/1/2006

REACH 1		T02S-R06W-S06SW					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
CULVERT CROSSING	1	26	4.0	0.05	104	0	0	10	60	30	0	0
POOL-BACKWATER	1	3	2.0	0.15	6	0	40	40	20	0	0	0
POOL-ISOLATED	1	1	1.0	0.10	1	0	10	40	40	0	0	10
POOL-LATERAL SCOUR	16	175	3.4	0.41	610	14	5	11	49	24	2	9
POOL-PLUNGE	5	44	5.4	0.62	228	19	3	7	38	18	10	24
RAPID/BEDROCK	4	99	3.8	0.11	389	77	0	0	16	15	14	55
RAPID/BOULDERS	10	178	3.2	0.08	568	113	0	3	32	36	20	10
RIFFLE	11	353	3.0	0.09	1,093	76	0	7	50	32	5	5
STEP/BEDROCK	5	11	5.2	0.05	58	2	0	0	0	0	1	99
STEP/COBBLE	5	26	6.2	0.06	159	9	0	0	30	56	3	11
STEP/LOG	1	2	6.0	0.05	12	0	10	10	70	10	0	0
<b>Total:</b>	60	916	3.9	0.21	3,227	310	<b>Avg:</b> 3	7	38	26	7	20

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	2	4	1.5	0.13	7	0.22%	0	0.0	
Scour Pools	21	218	3.9	0.46	838	25.98%	33	3.9	
Glides	0	0			0	0.00%	0	0.0	
Riffles	11	353	3.0	0.09	1,093	33.85%	76	7.0	
Rapids	14	276	3.3	0.09	956	29.63%	190	19.9	
Cascades	0	0			0	0.00%	0	0.0	
Step/Falls	11	39	5.7	0.05	229	7.10%	11	4.8	
Dry	0	0			0	0.00%	0	0.0	
Culverts	1	26	4.0	0.05	104	3.22%	0	0.0	

POOL SUMMARY			
	<u>Total</u>	Total of all Channel Lengths <u># / Km</u>	Primary Channel Length <u># / Km</u>
All Pools:	23	25.1	26.6
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	7	7.6	8.1
Pool frequency (channel widths/pool):	6.4		
Residual pool depth (avg):	0.39		

Survey Date 8/1/2006  
Report Date: 3/5/2007

**RIPARIAN ZONE  
VEGETATION SUMMARY**

REACH 1

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

Total hardwoods/1000	244
Total conifers/1000 ft	752
Total conifers >20" dbh/1000 ft	61
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	0.3	1.7	0.7	0.3	0.3	0.7	1.3	2.7
15-30cm	0.0	1.0	3.3	0.0	2.0	0.0	5.3	1.0
30-50cm	1.0	0.0	2.3	0.0	1.3	0.0	4.7	0.0
50-90cm	0.3	0.3	0.0	0.0	0.7	0.0	1.0	0.3
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	1.7	3.0	6.3	0.3	4.3	0.7	4.1	1.3

**Canopy closure and ground cover**

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	69		77		80	
Shrub cover	54		33		24	
Grass/forb cover	46		59		67	

**Predominant landform in each zone**

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	33		67		100	
High terrace	67		33		0	
Low terrace	0		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		0		0	
Riprap	0		0		0	
Surface slope (%)	8		13		31	

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	244
Total conifers/1000 ft	752
Total conifers >20" dbh/1000 ft	61
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	1.3	2.7
15-30cm	5.3	1.0
30-50cm	4.7	0.0
50-90cm	1.0	0.3
>90cm	0.0	0.0

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OREGON DEPT OF FISH AND WILDLIFE CRUISER CREEK TRIBUTARY POST-TX (1-NC:273)

HABITAT INVENTORY Report Date: 3/5/2007

Survey Date: 8/1/2006

GCG: 1-NC SITE ID: 273

**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		
19	RT	1	HT	0	80	60	40	Conifer			2				
								Hardwood	3						
19	RT	2	HS	15	80	50	50	Conifer	1		1				
								Hardwood	1						
19	LF	2	HS	35	85	10	90	Conifer		1	1				
								Hardwood							
19	LF	3	HS	35	85	10	90	Conifer					1		
								Hardwood							
19	LF	1	HS	35	75	20	80	Conifer					1		
								Hardwood							
19	RT	3	HS	20	80	50	50	Conifer							
								Hardwood	2						
36	RT	3	HS	20	85	20	60	Conifer	1	3	2				
								Hardwood							
36	LF	1	HT	0	85	0	100	Conifer			1				
								Hardwood					1		
36	LF	2	HT	0	85	0	100	Conifer		1	1				
								Hardwood							
36	LF	3	HS	35	85	0	100	Conifer			2	1			
								Hardwood							
36	RT	1	HT	0	50	70	30	Conifer	1						
								Hardwood	1						
36	RT	2	HS	10	85	20	60	Conifer			5	2			
								Hardwood							
44	RT	3	HS	20	85	60	10	Conifer		3					
								Hardwood							
44	RT	2	HS	15	85	70	5	Conifer	1	3	2				
								Hardwood							
44	RT	1	HS	10	85	95	5	Conifer							
								Hardwood	1	3					
44	LF	3	HS	55	60	5	90	Conifer							
								Hardwood							
44	LF	1	HT	0	40	80	20	Conifer							
								Hardwood							
44	LF	2	HT	0	40	50	50	Conifer							
								Hardwood							

# Comment Summary

## Restoration Monitoring Sites 2006

MONITORING AREA: 1-NC      SITE ID: 273      CRUISER CREEK TRIBUTARY POST-

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	SR	00	1		H = 1.1	
4	SR	00	19.5		H = 0.5	
7	SR	00	56		H = 0.9	
9	RI	01	144.5	HS		
10	RI	01	174.5	HS		
11	RI	02	174.5	HS		
12	LP	00	182.5	HS		
13	SC	00	190.5		H = 0.3	
14	LP	00	196.5	HS		
15	RI	00	208.5	HS		
16	LP	00	221.5	HS		
17	RI	00	237.5	HS		
18	LP	00	261	HS		
19	RI	00	279.5	HS	RIPARIAN	LOGS AND BOULDERS
20	LP	00	289.5	HS		T = 11 AT 15:20
21	SC	00	293.5		H = 0.4	
22	LP	00	302.5	HS, /SS		BOULDER
23	RI	01	355.5	/SS		
24	BW	10	355.5	SS/		
26	SC	00	373.5		H = 0.2	
30	SC	00	438.5		H = 0.25	

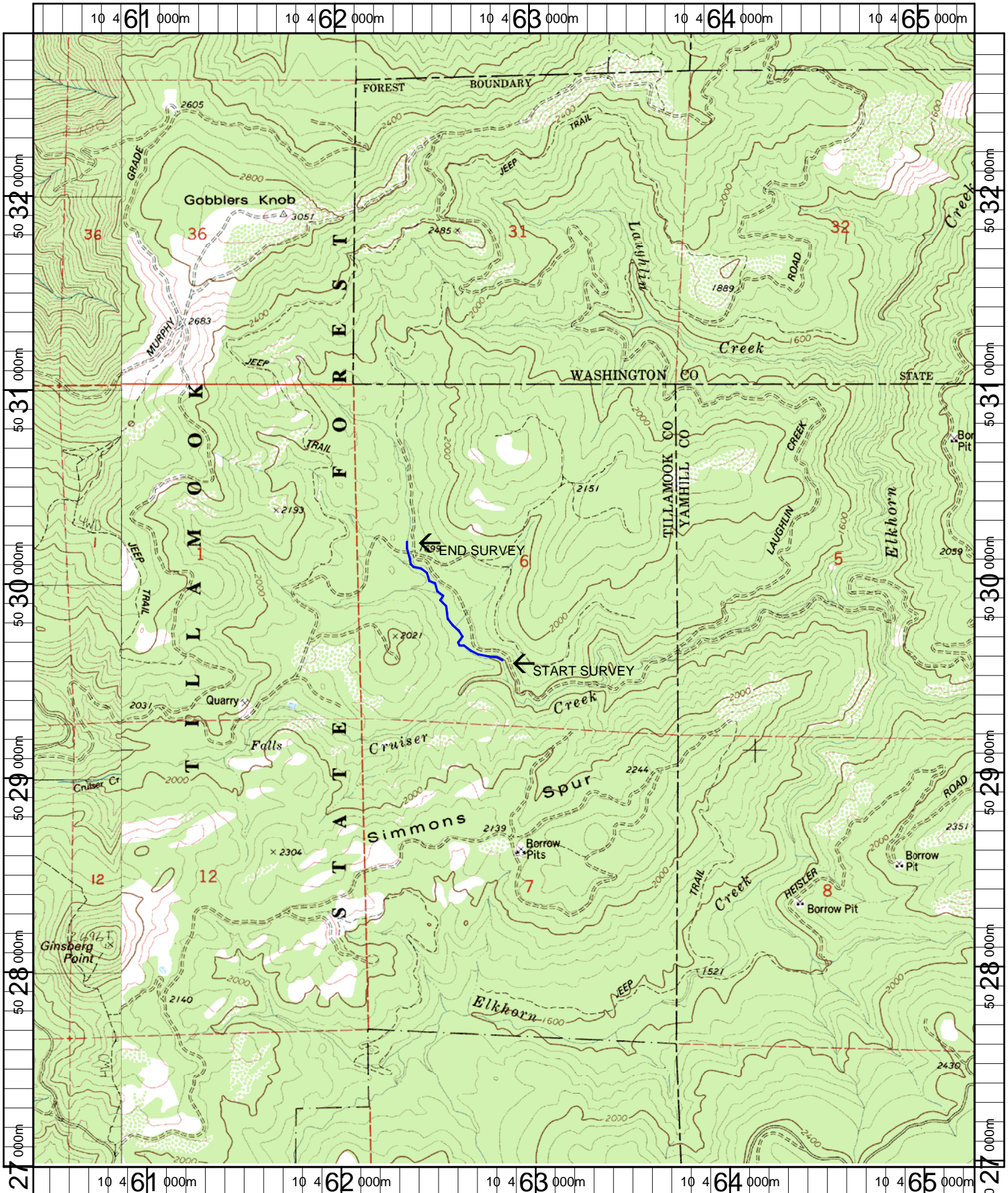
# Comment Summary

## Restoration Monitoring Sites 2006

MONITORING AREA: 1-NC      SITE ID: 273      CRUISER CREEK TRIBUTARY POST-

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
32	SR	00	451.5		H = 0.4	
36	RI	00	528.5	/SS	RIPARIAN	
45	RB	00	700		RIPARIAN	DEAD SALAMANDER
49	SR	00	735		H = 0.8	
51	SC	00	757		H = 0.25	
56	SL	00	788		H = 0.65	
58	RB	00	822.5	HS		HABITAT BOULDERS
59	CC	00	848.5	CC	2.0m x 4.0m OVAL - GRVL BO	
60	RI	00	863.5		END SURVEY	





Name: GOBBLERS KNOB  
 Date: 5/1/2006  
 Scale: 1 inch equals 2000 feet

Location: 10 462853 E 5029903 N  
 Caption: CRUISER CREEK TRIBUTARY RESTORATION SITE - TRASK BASIN