

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

STREAM: Turner Creek (S149)
BASIN: Hunter Creek
SURVEY TYPE: Post-Tx
DATE: March 5, 2002
SURVEY CREW: Sara Meguffy, Sarah Schuster
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 2.2 km²
USGS MAPS: Gold Beach
ECOREGION: Coast Range Sitka Spruce

GENERAL DESCRIPTION:

The Turner Creek habitat survey extended 627 meters. The channel was unconstrained with multiple terraces in a broad valley floor. The average valley width index was 11.7 (range: 1.5 - 25.0). Land uses for the reach were light grazing and second growth (15-30 cm dbh) trees. The average unit gradient was 2.4 percent. Riffles (74%) and rapids (15%) dominated stream habitat. Gravel (31%), sand (25%) and cobble (24%) dominated stream substrate. Wood volume was low at 11.2 m³/100m.

COMMENTS:

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

The crew noted several habitat structures as well as some debris jams during the survey.

REACH

T37S-R14W-S7NW

REACH

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	0%	Multiple Terraces	100%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	11.7	VWI Range:	1.5 - 25

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	100%
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	627	1,933	0
Secondary	20	11	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 3
Width: 2.7	Width: 8.6	67.8 (8.6 - 220)	41.7 (10 - 70)
Depth: 0.24	Height: 1.0	1.9 (1.7 - 2.4)	2.7 (2 - 3.8)

W:D ratio: 9.6
Stream Flow Type: MF
Average Unit Gradient: 2.4%
Water temperature (°C): 9.5 - 9.5

Entrenchment (ACW:FPW ratio): 7.4
Habitat Units/100m (total channel length): 7.4
Habitat Units/100m (primary channel length): 7.7

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	LG	ST
Riparian Vegetation:	G	C3

Bank Condition and Shade

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

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	35	5.6
Volume (m ³):	70	11.2
Key pieces (>=12m x 0.60m):	1	0.2

OREGON DEPARTMENT OF FISH AND WILDLIFE

TURNER CREEK POST-TX (S149)

HABITAT INVENTORY

Report Date: 11/15/2013

Survey Date:

3/5/2002

REACH		T37S-R14W-S7NW					REACH					
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	2	15	0.7	0.05	9	0	18	23	28	30	3	0
CULVERT CROSSING	1	14	1.5	0.15	20	0	10	10	10	20	50	0
POOL-LATERAL SCOUR	8	54	2.6	0.55	133	0	16	32	32	16	4	0
POOL-PLUNGE	2	6	3.6	0.45	22	0	10	25	30	18	18	0
RAPID/BOULDERS	6	99	2.6	0.16	293	0	12	24	31	23	11	0
RIFFLE	25	451	3.1	0.18	1,447	0	10	25	33	26	6	0
STEP/BOULDERS	2	1	1.9	0.08	1	0	10	15	20	20	35	0
STEP/COBBLE	2	8	2.5	0.10	18	0	5	18	28	43	8	0
Total:	48	647	2.7	0.24	1,944	0	Avg: 11	25	31	24	9	0

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	0	0			0	0.00%	0	0.0
Scour Pools	10	61	2.8	0.53	155	7.99%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	25	451	3.1	0.18	1,447	74.44%	0	0.0
Rapids	6	99	2.6	0.16	293	15.08%	0	0.0
Cascades	2	15	0.7	0.05	9	0.44%	0	0.0
Step/Falls	4	8	2.2	0.09	20	1.01%	0	0.0
Dry	0	0			0	0.00%	0	0.0
Culverts	1	14	1.5	0.15	20	1.04%	0	0.0

POOL SUMMARY			
	Total	Total of all Channel Lengths # / Km	Primary Channel Length # / Km
All Pools:	10	15.5	15.9
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	1	1.5	1.6
Pool frequency (channel widths/pool):	7.5		
Residual pool depth (avg):	0.41		

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: 5-SC SITE ID: 149 TURNER CREEK POST-TX (S149)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	RI	00	8	WILL	KILL DEER
2	RB	00	24.5	FC, DJ	OLD WIRE FENCE, SG = 4 SQ M
3	RI	00	49.5		PASTURE W/ RIPARIAN FENCING
4	LP	00	57		SG = 8 SQ M
8	RI	00	157	BC, FC	CS/CS, NEW WOODEN BRIDGE
10	RI	00	179.8		OLD CAR IN BANK/
11	RI	00	190.3	FC	ELECTRIC WIRE
12	LP	00	196.4		OLD CAR ENGINE IN WATER
13	RI	00	216.1		RIPARIAN FENCING
14	LP	00	220.6		WHITE IRRIGATION PIPE CROSSING
17	RI	00	294.6	HS, /LA	LOGS
18	RI	00	320.6	CS/CS	
19	CC	00	334.1	CC	2.2 x 3.5 GALVANIZED
20	LP	00	342.6	DJ	
21	RB	01	367.6	/TJ	
22	CB	11	367.6	HS	LOG
23	RI	00	392.6	HS	LOG
26	RI	00	415.2	/SS	
27	LP	00	419		STILL HAVE RIPARIAN FENCING
28	RI	00	440	HS	LOGS
29	RI	01	451	/TJ	

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: 5-SC SITE ID: 149 TURNER CREEK POST-TX (S149)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
34	LP	00	484.5	HS	LOG
36	RI	00	512.7	HS	LOGS
37	SB	00	513	DJ	H = .45
38	RI	00	517	DJ	
41	RB	00	575.8	HS	LOGS, WILDFLOWERS
44	SB	00	593.5		H = .3
47	RI	01	627	/TJ	POWERLINE CROSSING OVERHEAD