

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

STREAM: Clabber Creek Phase 2 (UMP-77)
BASIN: Smith River
SURVEY TYPE: Post-Tx
DATE: February 11, 2008
SURVEY CREW: Kyle Brachter, Bobby Gomez
REPORT PREPARED BY: Sharon Tippery
BASIN AREA: 3.8 km²
USGS MAPS: Gunter
ECOREGION: Coast Range Sedimentary

GENERAL DESCRIPTION:

The Clabber Creek habitat survey extended 786 meters. The channel was alternately constrained by terrace and hillslope in a broad valley floor. The average valley width index was 3.9 (range: 1-8). Land use for the reach was second growth timber (15-30cm dbh) and large growth timber (30-50cm dbh). The average unit gradient was 2.8 percent. Riffles (40%), scour pools (30%) and rapids (24%) dominated stream habitat. Gravel (60%), sand (14%) and cobble (13%) dominated stream substrate. Wood volume was 25.8m³/100m.

COMMENTS:

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

The crew noted several habitat structures and debris jams during the survey.

**OREGON DEPARTMENT OF FISH AND WILDLIFE
HABITAT INVENTORY**

**CLABBER CREEK (PHASE 2)
GCG: 4-UMP SITE ID: 77**

Survey Date: 2/11/2008

Report Date: 5/8/2008

T21S-R07W-S06NW

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	3.9	VWI Range:	1 - 8

Channel Morphology (Percent Reach Length)

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

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary	786	3,367	0
Secondary	33	42	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 7	<u>First Terrace</u> n = 5
Width: 4.2	Width: 5.5	7.3 (5.5 - 11.5)	11.0 (8 - 15.5)
Depth: 0.45	Height: 0.4	0.8 (0.5 - 0.9)	1.4 (0.8 - 2)

W:D ratio: 15.8

Stream Flow Type: MF

Average Unit Gradient: 2.8%

Water temperature (°C): 8.0 - 8.0

Entrenchment (ACW:FPW ratio): 1.3

Habitat Units/100m (total channel length): 7.4

Habitat Units/100m (primary channel length): 7.8

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:		Reach avg:
Undercut Banks:		Range: -

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	196	24.9
Volume (m ³):	203	25.8
Key pieces (>=12m x 0.60m):	2	0.3

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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	1	10	0.5	0.05	5	0	0	0	0	20	80	0
CULVERT CROSSING	1	18	1.7	0.35	31	0	0	10	90	0	0	0
POOL-BACKWATER	1	5	3.0	0.80	14	0	10	90	0	0	0	0
POOL-DAMMED	1	7	5.6	0.80	39	0	0	50	50	0	0	0
POOL-LATERAL SCOUR	21	196	4.3	0.75	829	0	0	15	72	8	0	5
POOL-PLUNGE	4	29	5.9	0.69	167	0	0	14	43	8	7	28
POOL-TRENCH	1	9	3.5	1.00	32	0	0	5	10	0	0	85
RAPID/BEDROCK	1	27	4.5	0.15	123	0	0	0	0	0	5	95
RAPID/BOULDERS	7	171	3.7	0.17	711	0	0	7	45	41	6	0
RIFFLE	18	335	4.1	0.18	1,396	0	0	9	75	16	0	0
STEP/LOG	5	12	5.2	0.24	62	0	0	24	36	0	5	35
Total:	61	819	4.2	0.45	3,409	0	Avg: 0	14	60	13	3	9

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	2	12	4.3	0.80	54	1.57%	0	0.0
Scour Pools	26	234	4.5	0.75	1,028	30.14%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	18	335	4.1	0.18	1,396	40.95%	0	0.0
Rapids	8	198	3.8	0.17	835	24.48%	0	0.0
Cascades	1	10	0.5	0.05	5	0.15%	0	0.0
Step/Falls	5	12	5.2	0.24	62	1.81%	0	0.0
Dry	0	0			0	0.00%	0	0.0
Culverts	1	18	1.7	0.35	31	0.90%	0	0.0

POOL SUMMARY

	Total of all Channel Lengths		Primary Channel Length
	<u>Total</u>	<u># / Km</u>	<u># / Km</u>
All Pools:	28	34.2	35.6
Pools >=1m deep:	4	4.9	5.1
Complex pools (LWD pieces>=3):	18	22.0	22.9
Pool frequency (channel widths/pool):	5.3		
Residual pool depth (avg):	0.47		

COMMENT SUMMARY

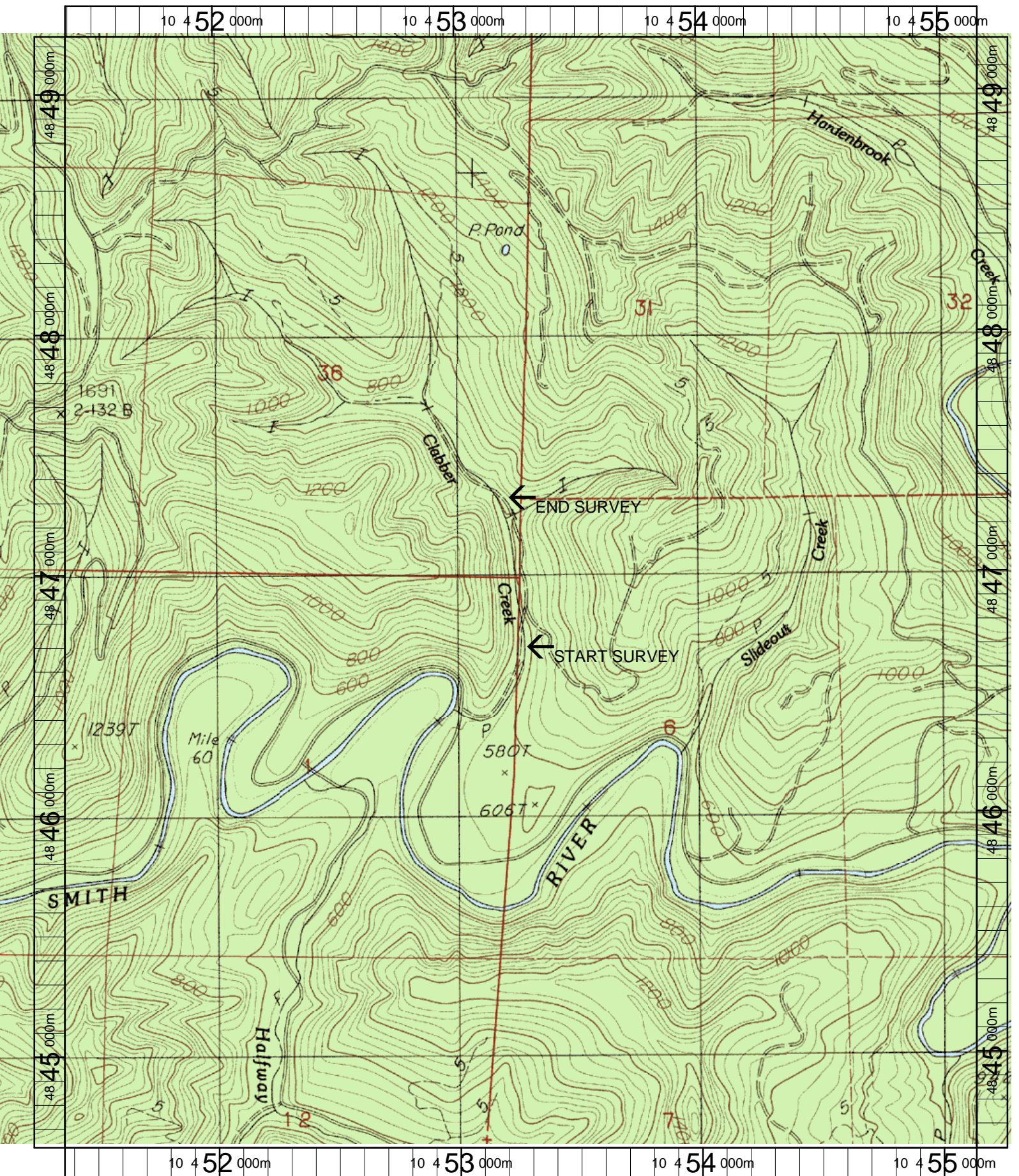
MONITORING AREA: 4-UMP SITE ID: 77 STREAM: CLABBER CREEK (PHASE 2)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	LP	00	10.2		CHMV STLT M15S
4	SL	00	39.2	DJ	
10	RI	01	151.6	/TJ	CHMV D30S STYT
11	CB	11	151.6	WL	ACW=1.6M T=9C
23	PP	00	265.1	DJ	
25	RI	00	283.6		CACT D30S STLT
26	LP	00	293.6		
27	CC	00	311.6	BC,CC	DIAMETER=2M AND 1.2M
28	RB	01	322.6	TJ/	
29	RB	11	322.6		T=7C ACW=1M
33	LP	00	348.6	DJ	
34	RB	00	379.6		POCKET POOL= 0.5M DEEP
35	LP	00	391.6	DJ	
36	RI	00	427.2		CACT D30S STLT
38	RB	00	477.2	/SS	
40	RB	00	539.2	/SS	
41	RB	00	553.2	DJ HS	
45	RI	00	602		CACT D30S STLT
47	BW	10	608.2	DJ	
49	LP	00	619.2	HS	
53	LP	00	692.2	HS	
55	RI	00	714.4		CTCT D30S STLT

COMMENT SUMMARY

MONITORING AREA: 4-UMP SITE ID: 77 STREAM: CLABBER CREEK (PHASE 2)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
57	RI	01	731.9	/TJ	
58	RI	11	731.9		T=7C ACW=2M
62	RI	00	786.4	HS	CACT D30S STL



Name: GUNTER
 Date: 3/20/2003
 Scale: 1 inch equals 1666 feet

Location: 10 453258 E 4846923 N
 Caption: CLABBER CREEK PHASE 2 RESTORATION SITE - SMITH BASIN