

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

STREAM: CLABBER CREEK (PHASE 2)
 GCG: 4-UJP
 SITE ID: 77
 BASIN: SMITH RIVER
 TREATMENT DATE: 2002
 SURVEY DATE: 7/1/2008
 SURVEY CREW: Roslyn Overstake / Kellie Scofield
 USGS MAPS: GUNTER
 ECOREGION: Mid-Coastal Sedimentary
 REPORT PREPARED BY: Matt Strickland / Sharon Tippery / Charles Stein

SURVEY DESCRIPTION:

Channel morphology: Constrained by hillslopes
 Dominant landuse(s): Second growth timber (15-30 cm dbh)
 Dominant riparian vegetation: Mixed conifer/deciduous: size class 15-30cm dbh
 Primary channel length (meters) and area (m²): 810 : 1,799
 Secondary channel length (meters) and area (m²) 4 : 1
 VWI average: 1.8 VWI Range: 1 - 4 Average Gradient: 1.1%
 Pieces LWD per 100m: 19.3 Wood Volume (m³) per 100m: 17.2
 Percent pools: 45% Complex pools (LWD pieces>=3): 12 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	0	16	38	42	0	3
Pool units	1	28	42	29	0	0
Fast water units	0	9	30	53	0	8

COMMENTS:

This is a post-treatment, long term monitoring site. The crew noted habitat structures consisting primarily of placed logs throughout the survey. They also noted observing fish and a rough-skinned newt.

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

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

Survey Date: 7/1/2008

Report Date: 12/29/2008

T21S-R07W-S6NW

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	1.8	VWI Range:	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	810	1,799	0
Secondary	4	1	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 1
Width: 2.3	Width: 6.5	10.4 (8.7 - 11.9)	12.0 (12 - 12)
Depth: 0.23	Height: 0.6	1.1 (1 - 1.2)	1.5 (1.5 - 1.5)

W:D ratio: 11.6

Stream Flow Type: MF

Average Unit Gradient: 1.1%

Water temperature (°C): 14.0 - 14.0

Entrenchment (ACW:FPW ratio): 1.6

Habitat Units/100m (total channel length): 7.9

Habitat Units/100m (primary channel length): 7.9

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	LT
Riparian Vegetation:	M15	S

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	13%	Reach avg: 90%
Undercut Banks:	4%	Range: 22 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	156	19.3
Volume (m ³):	139	17.2
Key pieces (>=12m x 0.60m):	0	0.0

OREGON DEPARTMENT OF FISH AND WILDLIFE

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REACH 1

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
CULVERT CROSSING	1	17	1.5	0.25	25	0	0	5	80	15	0	0
GLIDE	1	11	4.0	0.10	43	0	0	5	35	60	0	0
POOL-LATERAL SCOUR	25	261	3.0	0.46	791	11	1	28	41	30	0	0
POOL-PLUNGE	1	3	4.5	0.40	14	1	0	25	70	5	0	0
RIFFLE	27	485	1.6	0.07	859	48	0	9	30	53	0	8
STEP/COBBLE	8	35	1.9	0.06	66	5	0	7	43	50	0	0
STEP/LOG	1	3	1.0	0.02	3	0	5	20	70	5	0	0
Total:	64	814	2.3	0.23	1,800	65	Avg: 0	16	38	42	0	3

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	26	264	3.1	0.46	805	44.69%	12	1.5
Glides	1	11	4.0	0.10	43	2.40%	0	0.0
Riffles	27	485	1.6	0.07	859	47.70%	48	5.6
Rapids	0	0			0	0.00%	0	0.0
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	9	38	1.8	0.05	69	3.82%	5	7.3
Dry	0	0			0	0.00%	0	0.0
Culverts	1	17	1.5	0.25	25	1.39%	0	0.0

POOL SUMMARY

	Total of all Channel Lengths		Primary Channel Length
	<u>Total</u>	<u># / Km</u>	<u># / Km</u>
All Pools:	26	31.9	32.1
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	12	14.7	14.8
Pool frequency (channel widths/pool):	4.8		
Residual pool depth (avg):	0.39		

OREGON DEPARTMENT OF FISH AND WILDLIFE
HABITAT INVENTORY

CLABBER CREEK (PHASE 2)
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RIPARIAN ZONE
VEGETATION SUMMARY

REACH 1

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

Total hardwoods/1000	813
Total conifers/1000 ft	772
Total conifers >20" dbh/1000 ft	20
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	2.0	4.3	2.0	4.7	3.0	9.0	7.0
15-30cm	0.0	3.3	0.7	1.7	2.7	1.0	3.3	6.0
30-50cm	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.3
50-90cm	0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	0.0	5.7	5.3	3.7	7.3	4.0	4.2	4.4

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	73		75		87	
Shrub cover	43		24		19	
Grass/forb cover	45		68		81	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	67		67		100	
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	17		33		0	
Riprap	0		0		0	
Surface slope (%)	18		21		27	

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	813
Total conifers/1000 ft	772
Total conifers >20" dbh/1000 ft	20
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	9.0	7.0
15-30cm	3.3	6.0
30-50cm	0.0	0.3
50-90cm	0.3	0.0
>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		
7	LT	1	RB	10	70	10	20	Conifer							
								Hardwood		2					
7	LT	2	HS	30	90	10	90	Conifer	5						
								Hardwood	2						
7	LT	3	HS	30	90	10	90	Conifer	4	1					
								Hardwood	1						
7	RT	1	HS	20	60	30	70	Conifer							
								Hardwood	1						
7	RT	2	HS	20	70	25	75	Conifer			2				
								Hardwood	1	1					
7	RT	3	HS	25	85	20	80	Conifer	1	3					
								Hardwood							
19	LT	1	LT	0	50	70	30	Conifer							
								Hardwood			1				
19	LT	2	RB	0	40	10	75	Conifer	2						
								Hardwood	1						
19	LT	3	HS	20	90	30	70	Conifer	2	1					
								Hardwood	2						
19	RT	1	HS	15	75	80	20	Conifer							
								Hardwood	1	5					
19	RT	2	HS	25	80	65	35	Conifer	1						
								Hardwood		3					
19	RT	3	HS	25	80	20	80	Conifer	4	2					
								Hardwood	1						
30	LT	1	HS	30	90	30	70	Conifer							
								Hardwood	2						
30	LT	2	HS	40	80	25	75	Conifer	3			1			
								Hardwood	1						
30	LT	3	HS	40	85	10	90	Conifer	3	1					
								Hardwood	2						
30	RT	1	HS	30	90	40	60	Conifer							
								Hardwood	2	3					
30	RT	2	RB	10	90	10	60	Conifer	2						
								Hardwood	1	1					
30	RT	3	HS	20	90	25	75	Conifer							
								Hardwood	3	3					

COMMENT SUMMARY

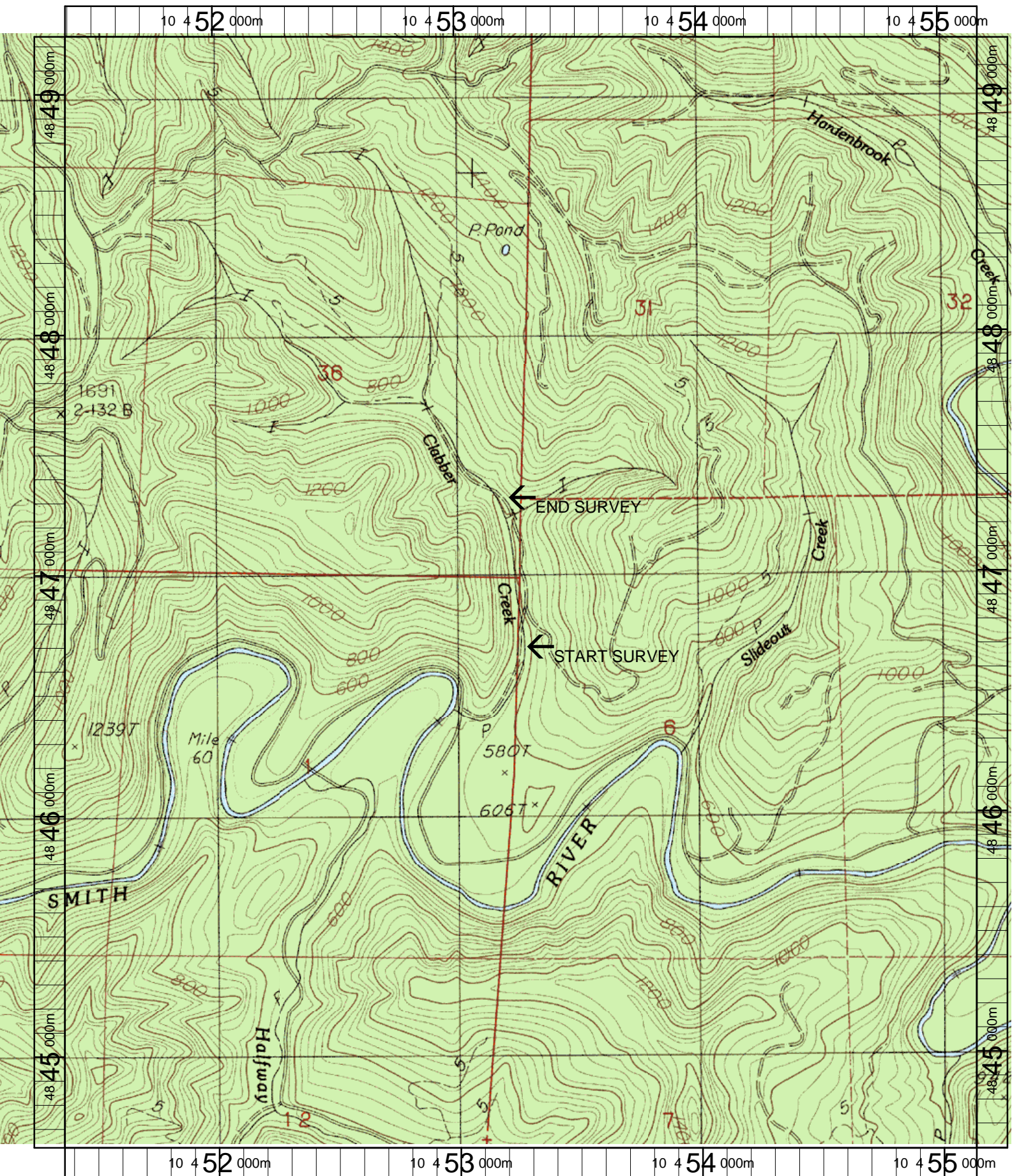
MONITORING AREA: 4-UMP SITE ID: 77 STREAM: CLABBER CREEK (PHASE 2)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	SC	00	5.8		PHOTO 74 AT 1245
5	RI	00	89.5		FISH OBSERVED
7	RI	00	124.5		CABLE
8	PP	00	127.5	DJ	
9	SL	00	130.2		H=1.0M
12	LP	00	162.2		FISH, CABLE
17	RI	00	232.1	HS, DJ	WOOD IS TRAPPING DEBRIS, SEDIMENT, CREATING SOME POOLING
18	LP	00	246.7		FISH OBSERVED
20	LP	00	263.3	DJ	
23	CC	00	300.7	CC	METAL, ROUND, NO DROP, DIAM=1.8M, SMALLER CC BLOCKED AT BOTTOM
24	RI	01	310.5	/TJ	
25	RI	11	310.5		ACW=1.0M, T=12C
28	LP	00	339.4		FISH OBSERVED
31	LP	00	395.1		FISH OBSERVED
35	LP	00	445.3	HS	CABLE, LOGS
40	RI	00	516.9	AM, HS	ROUGH-SKINNED NEWT, LOGS
42	RI	00	560.7	HS	LOGS, TRAPPING SOME DEBRIS
43	LP	00	566.6	DJ	
47	LP	00	610.3	HS	LOGS CREATING DEEPER POOL
49	LP	00	619.4	HS	TRAPPING DEBRIS
50	RI	00	649.1	HS	LOGS CREATING SMALL POOL
51	GL	00	659.9		FISH OBSERVED

COMMENT SUMMARY

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

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
53	LP	00	673.6	HS	LOGS
55	LP	00	702.9	DJ	FISH OBSERVED
62	SC	00	778.5	HS	LOGS
63	LP	00	785.9	HS	LOGS CREATING DEEPER SPOTS



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

UMP-77 Clabber Creek Phase 2 (Post-Treatment) 2008 Summer Habitat Survey Photographs



Reach photo