

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

STREAM: LONG PRAIRIE CREEK  
 GCG: 2-MC  
 SITE ID: 47  
 BASIN: SILETZ  
 TREATMENT DATE: 1999  
 SURVEY DATE: 4/20/2000  
 SURVEY CREW: Frank Drake and Matt Strickland  
 USGS MAPS: EDDYVILLE  
 ECOREGION: Mid-Coastal Sedimentary  
 REPORT PREPARED BY: Matt Strickland / Charles Stein

REACH: 1 LOCATION: T10S-R09W-S15SE

**SURVEY DESCRIPTION:**

Channel morphology: Constrained by high terraces

Dominant landuse(s): Light grazing pressure

Dominant riparian vegetation: Annual grasses, herbs, and forbs.

Primary channel length (meters) and area (m<sup>2</sup>): 618 : 2,800

Secondary channel length (meters) and area (m<sup>2</sup>): 59 : 195

VWI average: 11.8 VWI Range: 4 - 20 Average Gradient: 0.8%

Pieces LWD per 100m: 11.0 Wood Volume (m<sup>3</sup>) per 100m: 19.7

Percent pools: 60% Complex pools (LWD pieces $\geq$ 3): 6 Pools  $\geq$ 1m deep:0

<u>Percent substrate (avg):</u>	<u>Silt / organics</u>	<u>Sand</u>	<u>Gravel</u>	<u>Cobble</u>	<u>Boulder</u>	<u>Bedrock</u>
All units	12	21	43	1	1	23
Pool units	8	26	38	0	0	28
Fast water units	1	18	60	2	2	18

**SURVEY COMMENTS:**

This is a post treatment restoration survey. The crew noted large wood stream habitat structures throughout the survey. The also noted recent beaver activity and juvenile coho salmon. Evidence of wildlife included numerous elk trails and several rough skinned newts.

Survey Date: 4/20/2000

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T10S-R09W-S15SE

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	0%	Multiple Terraces	100%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	11.8	VWI Range:	4 - 20

Channel Morphology (Percent Reach Length)

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

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m<sup>2</sup>)</u>	<u>Dry Units</u>
Primary	618	2,800	0
Secondary	59	195	1

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 4	<u>First Terrace</u> n = 4
Width: 4.2	Width: 5.2	7.2 ( 5.3 - 9.1 )	11.7 ( 6.1 - 24.2 )
Depth: 0.51	Height: 0.5	0.9 ( 0.9 - 0.9 )	1.4 ( 1.1 - 1.5 )

W:D ratio: 11.5

Stream Flow Type: MF

Average Unit Gradient: 0.8%

Water temperature (°C): 8.5 - 8.5

Entrenchment (ACW:FPW ratio): 1.4

Habitat Units/100m (total channel length): 6.8

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

**Riparian, Bank, and Wood Summary**

	<u>Primary</u>	<u>Secondary</u>
Land Use:	LG	ST
Riparian Vegetation:	G	D15

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	19%	Reach avg: 76%
Undercut Banks:	9%	Range: 42 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	68	11.0
Volume (m <sup>3</sup> ):	122	19.7
Key pieces (>=12m x 0.60m):	2	0.3

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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
CASCADE/BEDROCK	1	1	0.9	0.01	1	0	0	0	0	0	0	100
DRY CHANNEL	1	31	2.8	0.00	87	0	100	0	0	0	0	0
POOL-ALCOVE	1	9	8.2	0.05	75	0	100	0	0	0	0	0
POOL-BACKWATER	1	7	3.0	0.80	20	0	50	50	0	0	0	0
POOL-ISOLATED	1	3	1.2	0.15	3	0	100	0	0	0	0	0
POOL-LATERAL SCOUR	22	364	4.9	0.80	1,776	2	8	26	37	0	0	28
POOL-STRAIGHT SCOUR	1	11	2.6	0.85	28	0	5	20	40	0	0	35
RAPID/BEDROCK	2	17	5.8	0.23	95	0	0	13	18	0	0	70
RAPID/BOULDERS	1	4	3.9	0.30	17	6	0	5	55	10	30	0
RIFFLE	12	205	3.5	0.24	749	0	0	21	71	2	0	5
RIFFLE W/ POCKETS	1	23	6.1	0.30	142	0	5	25	70	0	0	0
STEP/BEDROCK	1	1	0.8	0.01	1	0	0	0	0	0	0	100
STEP/COBBLE	1	2	0.6	0.10	1	0	5	10	85	0	0	0
<b>Total:</b>	<b>46</b>	<b>678</b>	<b>4.2</b>	<b>0.51</b>	<b>2,995</b>	<b>8</b>	<b>Avg: 12</b>	<b>21</b>	<b>43</b>	<b>1</b>	<b>1</b>	<b>23</b>

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	3	18	4.1	0.33	97	3.24%	0	0.0
Scour Pools	23	375	4.8	0.80	1,804	60.26%	2	0.1
Glides	0	0			0	0.00%	0	0.0
Riffles	13	228	3.7	0.25	891	29.74%	0	0.0
Rapids	3	22	5.1	0.25	113	3.76%	6	5.3
Cascades	1	1	0.9	0.01	1	0.03%	0	0.0
Step/Falls	2	3	0.7	0.06	2	0.07%	0	0.0
Dry	1	31	2.8	0.00	87	2.90%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

OREGON DEPT OF FISH AND WILDLIFE  
HABITAT INVENTORY

LONG PRAIRIE CREEK  
GCG: 2-MC SITE ID: 47

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Survey Date: 4/20/2000

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REACH 1

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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:	26	38.4	42.0
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	6	8.9	9.7
Pool frequency (channel widths/pool):	5.0		
Residual pool depth (avg):	0.54		

Survey Date 4/20/2011

RIPARIAN ZONE  
VEGETATION SUMMARY

REACH 1

Report Date: 9/14/2011

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

Total hardwoods/1000	427
Total conifers/1000 ft	0
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	0.7	0.0	0.0	0.0	0.0	0.0	0.7
15-30cm	0.0	4.3	0.0	1.7	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	0.0	5.3	0.0	1.7	0.0	0.0	0.0	2.3

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	55		44		26	
Shrub cover	6		2		8	
Grass/forb cover	94		32		76	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	0		17		33	
High terrace	67		17		50	
Low terrace	33		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		67		0	
Roadbed/Railroad	0		0		17	
Riprap	0		0		0	
Surface slope (%)	0		3		9	

**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	427
Total conifers/1000 ft	0
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	0.7
15-30cm	0.0	6.0
30-50cm	0.0	0.3
50-90cm	0.0	0.0
>90cm	0.0	0.0



OREGON DEPT OF FISH AND WILDLIFE  
HABITAT INVENTORY

OREGON PLAN MONITORING SITE  
SURVEY DATE: 4/20/2011

COMMENT SUMMARY

MONITORING AREA: 2-MC SITE ID: 47 STREAM: LONG PRAIRIE CREEK

REACH	UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	1	LP	00	20	WL	438695E 4949338N PHOTO 245-248. ELK TRAIL
1	2	RR	00	26.5	HS	HS. LOGS HS #2
1	3	LP	00	39.5	HS	HS. LOGS
1	4	LP	00	58.5	HS	HS, ORIGINAL START. POTENTIAL PREVIOUS START
1	5	RR	00	69.3		MASSIVE ELK TRAILS
1	6	LP	00	105.3	WL	BV. ELK TRACKS , HARDPAN
1	7	RI	01	129	WL	ELK TRACKS
1	9	LP	00	144.5	HS,/SS	HS, /SS438727E 4949292N. LOGS, 438727E 4949272N
1	12	LP	00	181.8	WL	ELK TRAILS
1	13	RI	00	190.9	WL	ELK TRAILS
1	14	LP	00	207.3	WL	ELK TRAILS
1	15	AL	10	207.3		SWAMPY



**COMMENT SUMMARY**

MONITORING AREA: 2-MC SITE ID: 47 STREAM: LONG PRAIRIE CREEK

REACH	UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	16	RI	00	236.3	WL	ELK TRACKS
1	17	LP	01	253.6	TJ/, HS	TJ/, HS, START 25131.4 SGS. LOGS BEDROCK=HARDPAI
1	18	RI	11	253.6	HS	TEMP 9.5C ACW=3.7. LOGS FROM U#17
1	19	RI	01	272.1	WL, HS	LOGS, ELK TRAILS
1	21	LP	01	300		438798E 4949208N PHOTO 253-256. 438798E 4949208N
1	22	DC	12	300	AM, HS	RSN OLD TRIB CHANNEL, HS LOGS
1	23	RI	00	310.1	WL	ELK TRACKS
1	24	LP	00	320.1	/CS/	BOULDERS
1	25	RB	00	324.5	BC, /CS/	/CS/ , BC. UNKNOWN LOGGING BRIDGE
1	26	SP	00	335.4	WL, SS/	SS/. ELK TRACKS, HARDPAN
1	27	RI	00	355.5	WL	FRESH ELK TRACKS
1	28	LP	00	381	WL	ELKTRACKS, HARDPAN

**COMMENT SUMMARY**

MONITORING AREA: 2-MC SITE ID: 47 STREAM: LONG PRAIRIE CREEK

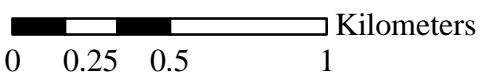
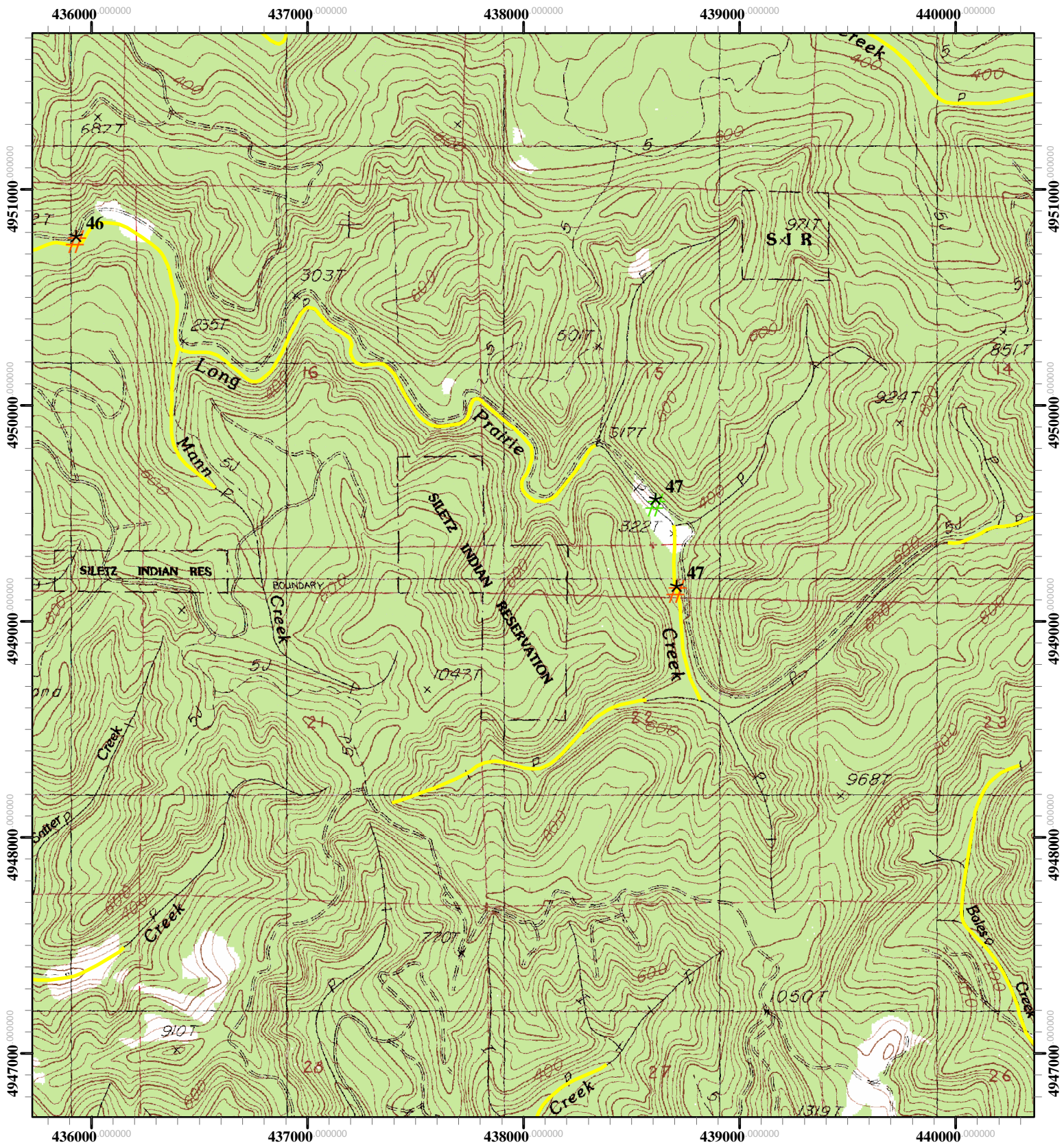
REACH	UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	29	LP	01	399.3		HARDPAN
1	30	RI	01	410.3	WL	PHOTO 257-259. ELK TRACKS
1	31	LP	01	429.4		HARDPAN
1	32	SR	02	429.4		PHOTO 259-262. HARDPAN
1	33	RI	00	437.6	WL	438751E 4949162. ELK TRACKS 439751E 4949162N
1	34	LP	00	446.6	BV	FRESH CHEWED STICKS
1	35	RP	01	469.8	HS,/TJ,/SS	/TJ. LOGS, OLD STICKS
1	36	CR	11	469.8		ACW=0.8
1	37	LP	01	479.8	DJ,HS,/SS	/SS. LOGS
1	38	SC	02	479.8		NEWER CHANNEL, STILL HAS GRASS
1	39	LP	00	494.4	WL	ELK TRACKS
1	40	LP	00	508.1	WL	ELK TRACKS

**COMMENT SUMMARY**





MONITORING AREA: 2-MC    SITE ID: 47    STREAM: LONG PRAIRIE CREEK

REACH	UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	41	RI	00	548.8	WL, /SS	ELK TRACKS
1	42	LP	01	564.3	WL	ELK TRACKS
1	44	RI	00	584.4	WL	ELK TRACKS/TRAILS
1	45	LP	00	600.8	HS, WL	BV. JUV COHO THROUGHOUT, LOGS
1	46	LP	00	618.4	BV, HS	FRESH STICKS, LOGS





Restoration Site ID: 47  
 Stream: Long Prairie Creek  
 T10S- R09W - S15  
 USGS Map: Eddyville  
 Basin: Siletz

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

