

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

STREAM: Lobster Creek (MC-374)
BASIN: Alsea River
SURVEY TYPE: Pre-Tx
DATE: January 18, 2007
SURVEY CREW: Matthew Strickland, Charles Stein
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 25.4 km²
USGS MAPS: Digger Mountain
ECOREGION: Coast Range Sedimentary

GENERAL DESCRIPTION:

The Lobster Creek habitat survey extended 1,632 meters. The channel was alternately constrained by hillslope and multiple terraces in a broad valley floor. The average valley width index was 3.4 (range: 1-5.5). Land use for the reach was second growth timber (15-30 cm dbh) and timber harvest. The average unit gradient was 0.5 percent. Scour pools (56%) and riffles (33%) dominated stream habitat. Gravel (61%) and sand (14%) dominated stream substrate. Wood volume was low at 11.0 m³/100m.

COMMENTS:

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

Minimal beaver activity was recorded. Juvenile salmonids were observed during the survey.

REACH 1

T15S-R08W-S15SW

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	3.4	VWI Range:	1 - 5.5

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 Channel	1,632	16,936	0
Secondary Channel	231	1,180	1
Off-Channel Units	134	447	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 4
Width: 8.3	Width: 15.9	27.8 (15.7 - 57)	34.3 (20.5 - 62)
Depth: 0.83	Height: 0.9	1.9 (1.5 - 2.5)	2.1 (1.8 - 2.5)

W:D ratio: 17.4
 Stream Flow Type: MF
 Average Unit Gradient: 0.5%
 Water temperature (°C): 5.0 - 5.0

Entrenchment (ACW:FPW ratio): 1.7
 Habitat Units/100m (total channel length): 3.6
 Habitat Units/100m (primary channel length): 4.4

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	TH
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):	164	10.1
Volume (m ³):	179	11.0
Key pieces (>=12m x 0.60m):	5	0.3

OREGON DEPT OF FISH AND WILDLIFE

LOBSTER CREEK PRE-TX (2-MC, 374)

HABITAT INVENTORY

Report Date: 4/25/2007

Survey Date:

1/18/2007

REACH 1		T15S-R08W-S15SW					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
DRY UNIT	1	20	4.2	0.00	84	0	0	10	80	10	0	0
GLIDE	2	52	10.0	0.48	520	0	0	5	87	8	0	0
POOL-ALCOVE	1	30	3.0	0.80	90	0	32	26	42	0	0	0
POOL-BACKWATER	4	37	5.2	0.85	219	0	57	28	15	0	0	0
POOL-ISOLATED	4	53	2.1	0.69	120	0	36	37	26	1	0	0
POOL-LATERAL SCOUR	27	1,000	9.9	1.48	10,315	0	6	12	65	10	6	2
POOL-PLUNGE	1	14	6.4	1.10	88	0	0	11	84	5	0	0
RAPID/BOULDERS	1	52	9.1	0.55	473	0	0	10	24	33	33	0
RIFFLE	17	544	8.0	0.33	4,869	0	2	10	75	10	3	1
RIFFLE W/ POCKETS	4	137	9.3	0.44	1,223	0	2	13	70	11	4	0
STEP/BOULDERS	2	13	5.2	0.15	81	0	2	5	10	32	50	0
STEP/COBBLE	6	45	9.9	0.23	479	0	3	12	60	17	6	2
STEP/LOG	1	0	5.5	0.20	2	0	0	16	74	11	0	0
Total:	71	1,996	8.3	0.83	18,563	0	Avg: 9	14	61	10	6	1

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	9	120	3.6	0.77	430	2.32%	0	0.0	
Scour Pools	28	1,013	9.8	1.47	10,403	56.04%	0	0.0	
Glides	2	52	10.0	0.48	520	2.80%	0	0.0	
Riffles	21	681	8.3	0.35	6,092	32.82%	0	0.0	
Rapids	1	52	9.1	0.55	473	2.55%	0	0.0	
Cascades	0	0			0	0.00%	0	0.0	
Step/Falls	9	58	8.3	0.21	561	3.02%	0	0.0	
Dry	1	20	4.2	0.00	84	0.45%	0	0.0	
Culverts	0	0			0	0.00%	0	0.0	

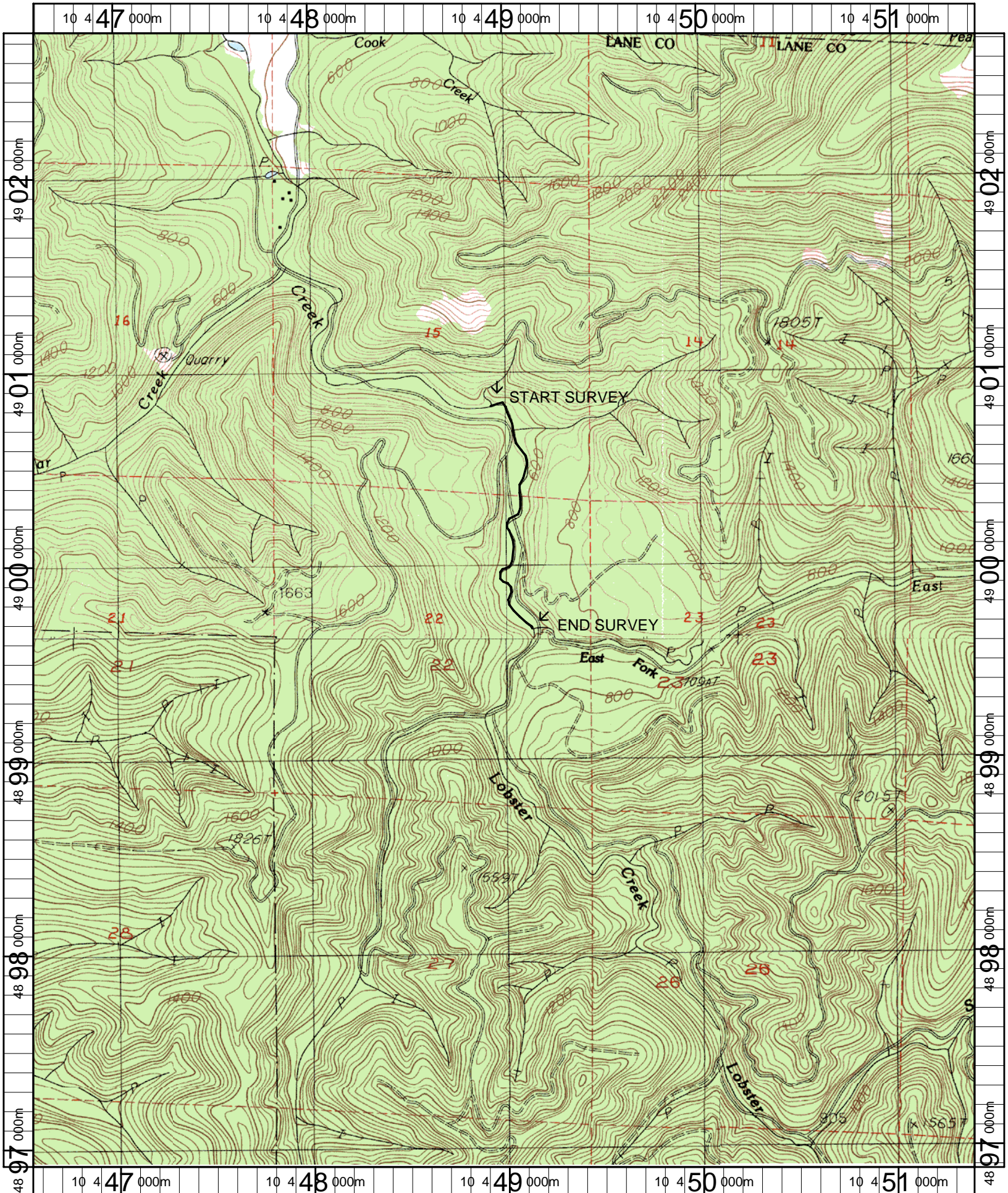
POOL SUMMARY			
	Total	Total of all Channel Lengths # / Km	Primary Channel Length # / Km
All Pools:	37	18.5	22.7
Pools >=1m deep:	28	14.0	17.2
Complex pools (LWD pieces>=3):	17	8.5	10.4
Pool frequency (channel widths/pool):	3.4		
Residual pool depth (avg):	1.07		

Comment Summary

Restoration Monitoring Sites 2007

MONITORING AREA: **2-MC** SITE ID: **374** **LOBSTER CREEK PRE-TX**

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR
8	RI	01	333.7		OVERFLOW CHANNEL FROM TRIB LF
9	IP	10	333.7	SS/	
12	IP	10	384.9	BV	JUVENILE SALMONIDS PRESENT.
14	RP	01	479.9	TJ/SS	
15	RI	11	479.9		ACW=3.0
44	LP	00	872.9		OLD SIDE CHANNEL LEFT
46	LP	00	969.8	BC	LOBSTER CR. RD.
56	LP	01	1230.2	/TJ	
57	SB	11	1230.2		ACW=2.5
59	LP	00	1338		RIGHT ACTIVELY ERODING BANKS
62	LP	01	1398.5	CS/	
66	LP	00	1452.4	/SS	



Name: DIGGER MT (OR)
 Date: 4/25/2007
 Scale: 1 inch equals 2000 feet

Location: 10 0448992 E 4899816 N
 Caption: LOBSTER CREEK RESTORATION SITE - LOBSTER BASIN