ODFW AQUATIC INVENTORY PROJECT

OREGON PLAN FOR SALMON & WATERSHEDS

STREAM RESTORATION HABITAT REPORT

STREAM:	Lane Creek (U-41)
BASIN:	Umpqua River
SURVEY TYPE:	Post-Tx
DATE:	February 21, 2001
SURVEY CREW:	Andrew Gross, David Hering
REPORT PREPARED BY:	Paul Jacobsen
BASIN AREA:	6.6 km^2
USGS MAPS:	Canyonville, Nickel Mtn
ECOREGION:	Coast Range Umpqua Valleys

GENERAL DESCRIPTION:

The Lane Creek habitat survey extended 482 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 8.3 (range: 5.5 – 10.0). Land use for the reach was second growth (15-30 cm dbh) trees and light grazing. The average unit gradient was 2.1 percent. Scour pools (45%) and riffles (29%) dominated stream habitat. Gravel (51%) and sand (27%) dominated stream substrate. Wood volume was low at 17.8 m^3/100m.

COMMENTS:

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

The crew noted several habitat structures during the survey.

REACH SUMMARY

REACH 1 T30S-R6W-S11SE REACH 1

Valley and Channel Summary

Valley Characteristics (Percent Reach Length)

Narrow Valley Floor		Broad Valley Floor	
Steep V-shape	0	Constraining Terraces	100
Moderate V-shape	0	Multiple Terraces	0
Open V-shape	0	Wide Floodplain	0

Valley Width Index avg: 8.3 range: 5.5-10.0

Channel Morphology (Percent Reach Length)

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

Channel Characteristics

Type	Length(m)	Area (m2)	Dry Units
Primary	482	1,144	0
Secondary	12	24	0

Channel Dimensions(m)

Wetted		Active		Floodprone	First Terrace
Width	2.3	Width	4.2	6.4	9.3
Depth	0.30	Height	0.4	0.8	2.2
		W:D ratio	9.7	Entrenchment 1.5	

Stream Flow Type: MF Water Temp: 7.5-7.5^{o}C
Avg. Unit Gradient: 2.1% Habitat Units/100m: 8.7

Riparian, Bank, and Wood Summary

	Primary	Secondary
Land Use:	ST	LG
Riparian Vegetation:	D30	S

Bank Condition and Shade

Bank Status	Percent Reach Length	Shade (% of 180)
Actively Eroding	0%	Reach avg: 0%
Undercut Banks	0%	Range: 0- 0

Large Woody Debris

	Total	Total/100m
All pieces (≥3m x 0.15m)	61	12.7
Volume (m^3)	88	18.3
Key pieces (≥10m x 0.6m)	1	0.2

OREGON DEPT. FISH AND WILDLIFE
HABITAT INVENTORY Report Date: 03/12/01

LANE CREEK POST-TX
Survey Date: 02/21/01

HABITAT UNIT SUMMARY

REACH 1 T30S-R6W-S11SE 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	Cbbl	Bldr	Bdrk
POOL-BACKWATER	2	12	2.1	0.25	24	0	10	23	45	23	0	0
POOL-LATERAL SCOUR	20	202	2.5	0.50	511	0	16	37	38	6	0	1
POOL-STRAIGHT SCOUR	1	7	2.8	0.45	20	0	30	45	25	0	0	0
RAPID/BOULDERS	8	124	2.0	0.12	248	0	6	18	60	15	1	0
RIFFLE	8	118	2.3	0.10	277	0	6	17	66	11	0	0
RIFFLE W/ POCKETS	1	18	3.6	0.20	64	0	5	16	63	16	0	0
STEP/COBBLE	2	8	1.9	0.05	15	0	0	8	78	15	0	0
STEP/LOG	1	6	1.7	0.07	10	0	0	10	80	10	0	0
Total:	43	494	2.3	0.30	1,168	0	**Avg:** 11	27	51	10	0	1

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m^2)	Wetted Area Percent	Large Boulders Number	Large Boulders #/100m^2
Dammed & BW Pools	2	12	2.1	0.25	24	2.02	0	0.0
Scour Pools	21	209	2.5	0.49	531	45.45	0	0.0
Glides	0	0	-	-	0	0.00	0	0.0
Riffles	9	136	2.4	0.11	342	29.24	0	0.0
Rapids	8	124	2.0	0.12	248	21.22	0	0.0
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	3	14	1.8	0.06	24	2.07	0	0.0
Dry	0	0	-	-	0	0.00	0	0.0

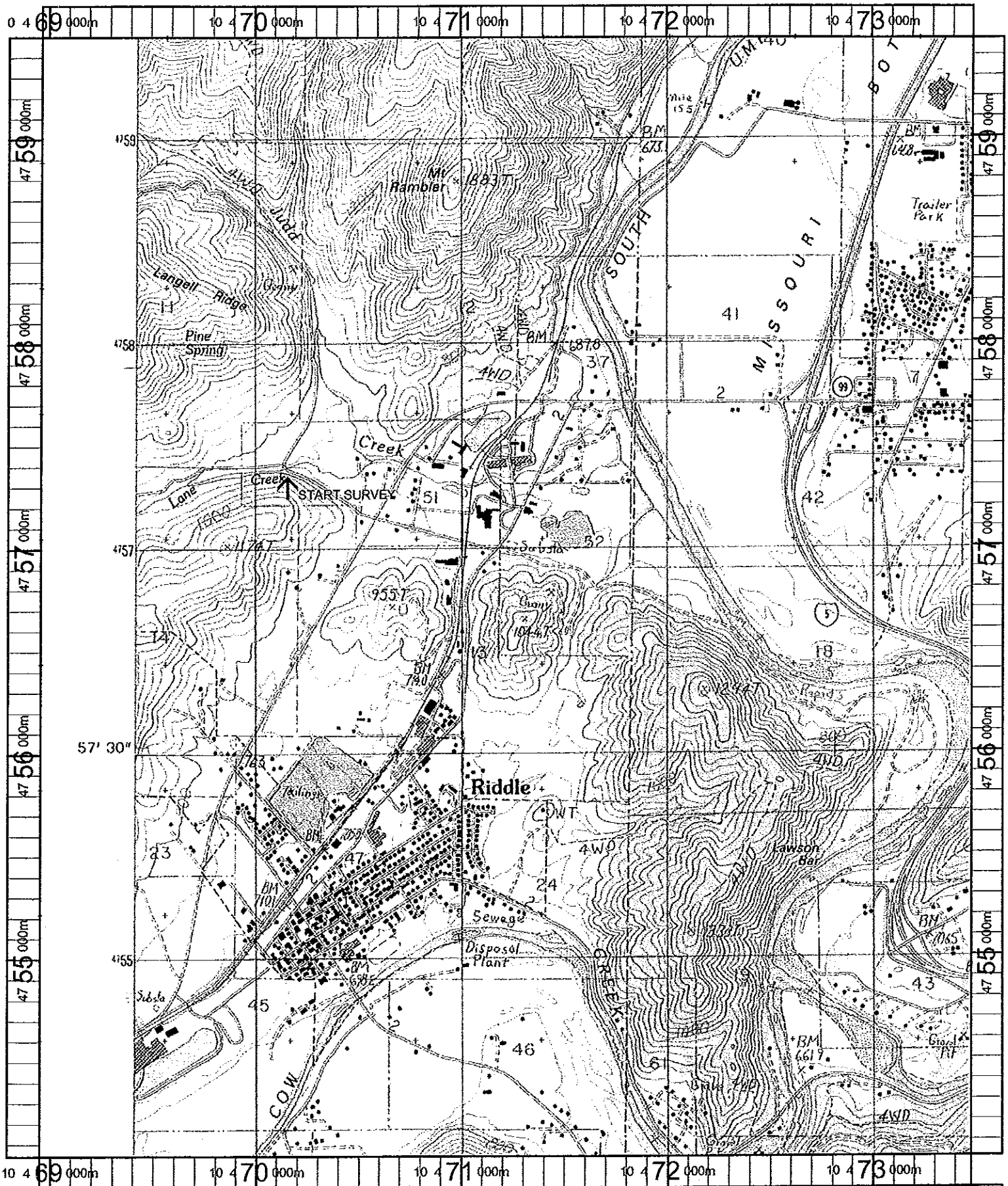
POOL SUMMARY

	Total	#/Km
All Pools	23	46.6
Pools ≥1m deep:	0	0.0
Complex pools (LWD pieces≥3):	6	12.2
Pool Frequency (channel widths/pool):	5.2	
Residual pool depth (avg)	0.39m	

STREAM SUMMARY **LANE CREEK POST-TX**

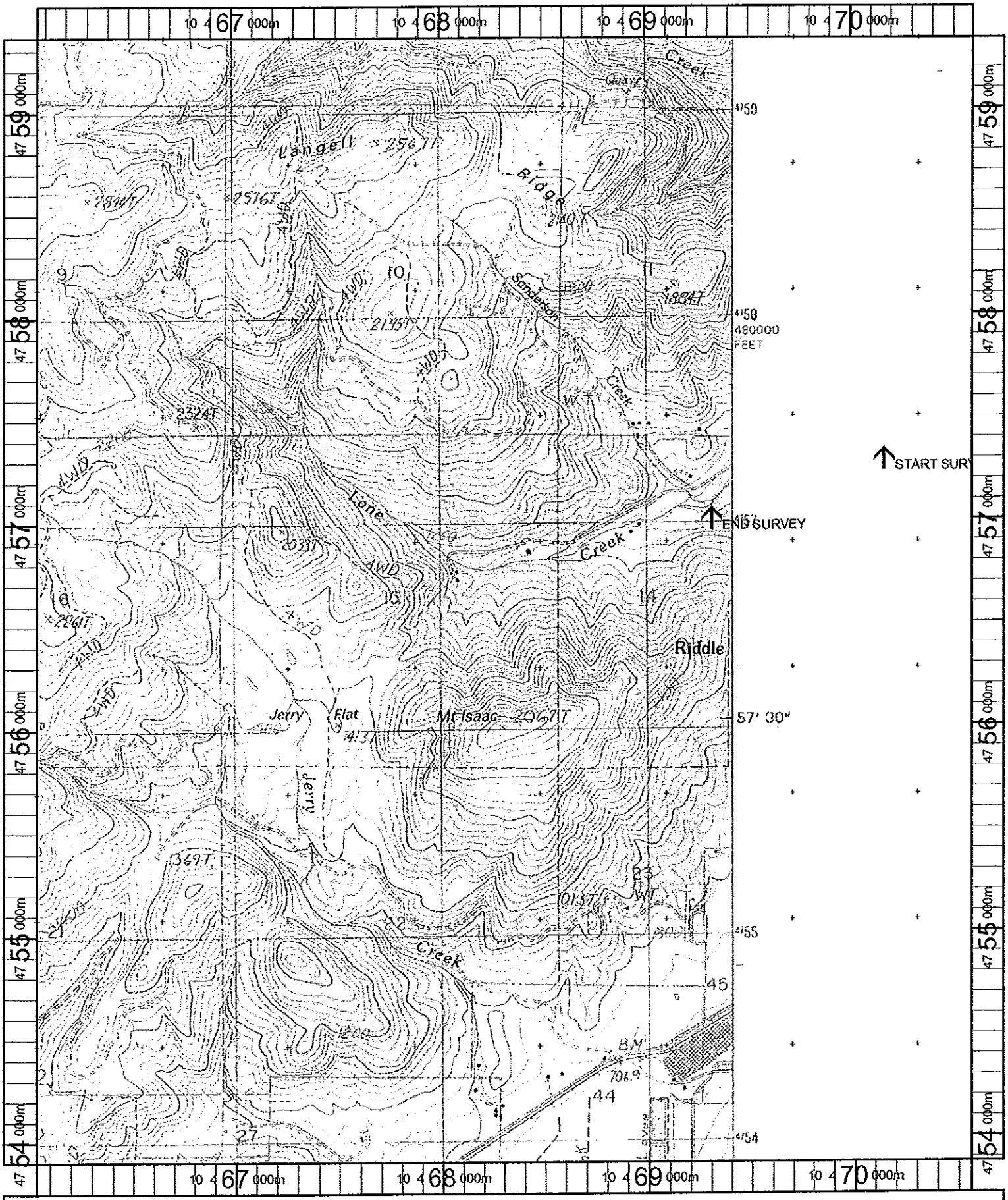
Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m^2)	Substrate Percent Wetted Area S/O	Sand	Grvl	Cbbl	Bldr	Bdrk	Total Large Boulder
43	494	2.3	0.30	1,168	11	27	51	10	0	1	0

Habitat Group	Wetted Area (m^2)	Percent
Scour Pool	531	45.4
Backwater Pools	24	2.0
Glide	0	0.0
Riffle	342	29.2
Rapid	248	21.2
Cascade	0	0.0
Step	24	2.1
Dry	0	0.0



Name: CANYONVILLE
Date: 11/7/100
Scale: 1 Inch equals 2000 feet

Location: 10 471122 E 4756745 N
Caption: LANE CREEK RESTORATION SITE - SOUTH UMPQUA BASIN



Name: NICKEL MT
Date: 11/7/100
Scale: 1 inch equals 2000 feet

Location: 10 468211 E 4756605 N
Caption: LANE CREEK RESTORATION SITE - SOUTH UMPQUA BASIN