

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

STREAM: Little Rock Creek (MC-44)
BASIN: Siletz River
SURVEY TYPE: Pre-Tx
DATE: January 27, 2000
SURVEY CREW: SG, JJ
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 4.4 km²
USGS MAPS: Nortons, Summit
ECOREGION: Coast Range Sedimentary

GENERAL DESCRIPTION:

The Little Rock Creek habitat survey extended 536 meters. The channel was unconstrained in a broad valley floor. The average valley width index was 3.9 (range: 1.5 – 6.0). Land use for the reach was second growth (15-30 cm dbh) and young (3-15 cm dbh) trees. The average unit gradient was 0.9 percent. Riffles (58%) and scour pools (40%) dominated stream habitat. Gravel (43%) dominated stream substrate. Wood volume was low at 6.1 m³/100m.

COMMENTS:

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

REACH 1

T10S-R8W-S14SE

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	3.9	VWI Range:	1.5 - 6

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	100%
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	536	1,594	0
Secondary	41	46	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	2.7	Width	5.8	19.4	6.3
Depth	0.50	Height	0.7	1.3	0.9
		W:D ratio	8.6	Entrenchment	3.7
Stream Flow Type:	MF	Water temp (C):	6.0	-	6.0
Avg. Unit Gradient:	0.9%	Habitat Units/100m:	6.7		

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	YT
Riparian Vegetation:	D15	C15

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</u>
All pieces (>=3m x 0.15m):	27	5.0
Volume (m ³):	32	6.1
Key pieces (>=10m x 0.60m):	3	0.6

OREGON DEPARTMENT OF FISH AND WILDLIFE

LITTLE ROCK CREEK PRE-TX (MC-44)

HABITAT INVENTORY

Report Date: 11/12/03

Survey Date:

1/27/00

REACH 1

T10S-R8W-S14SE

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
CASCADE/BEDROCK	1	11	0.5	0.10	5	0	0	0	0	0	0	100
POOL-ISOLATED	4	18	2.0	0.30	37	0	100	0	0	0	0	0
POOL-LATERAL SCOUR	14	197	2.9	0.76	595	0	4	16	51	11	0	18
POOL-STRAIGHT SCOUR	1	14	3.8	0.65	53	0	0	10	10	5	0	75
RIFFLE	13	267	2.7	0.34	753	0	0	11	56	17	2	14
RIFFLE W/ POCKETS	2	70	2.8	0.43	196	0	3	10	50	38	0	0
STEP/LOG	1	0	5.0	0.20	2	0	100	0	0	0	0	0
Total:	36	577	2.7	0.50	1,641	0	Avg 16	11	43	13	1	17

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	4	18	2.0	0.30	37	2.23%	0	0.0
Scour Pools	15	211	3.0	0.75	648	39.51%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	15	337	2.7	0.35	949	57.85%	0	0.0
Rapids	0	0			0	0.00%	0	0.0
Cascades	1	11	0.5	0.10	5	0.32%	0	0.0
Step/Falls	1	0	5.0	0.20	2	0.09%	0	0.0
Dry	0	0			0	0.00%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	Total	# / Km
All Pools:	19	35.5
Pools >=1m deep:	0	0.0
Complex pools (LWD pieces>=3):	1	1.9
Pool frequency (channel widths/pool):	5.2	
Residual pool depth (avg):	0.48	

STREAM SUMMARY

LITTLE ROCK CREEK PRE-TX (MC-44)

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Substrate Percent Wetted Area						Large Boulders (>0.5m)
					S/O	Snd	Grvl	Cbl	Bldr	Bdrk	
36	577	2.7	0.50	1,641	16	11	43	13	1	17	

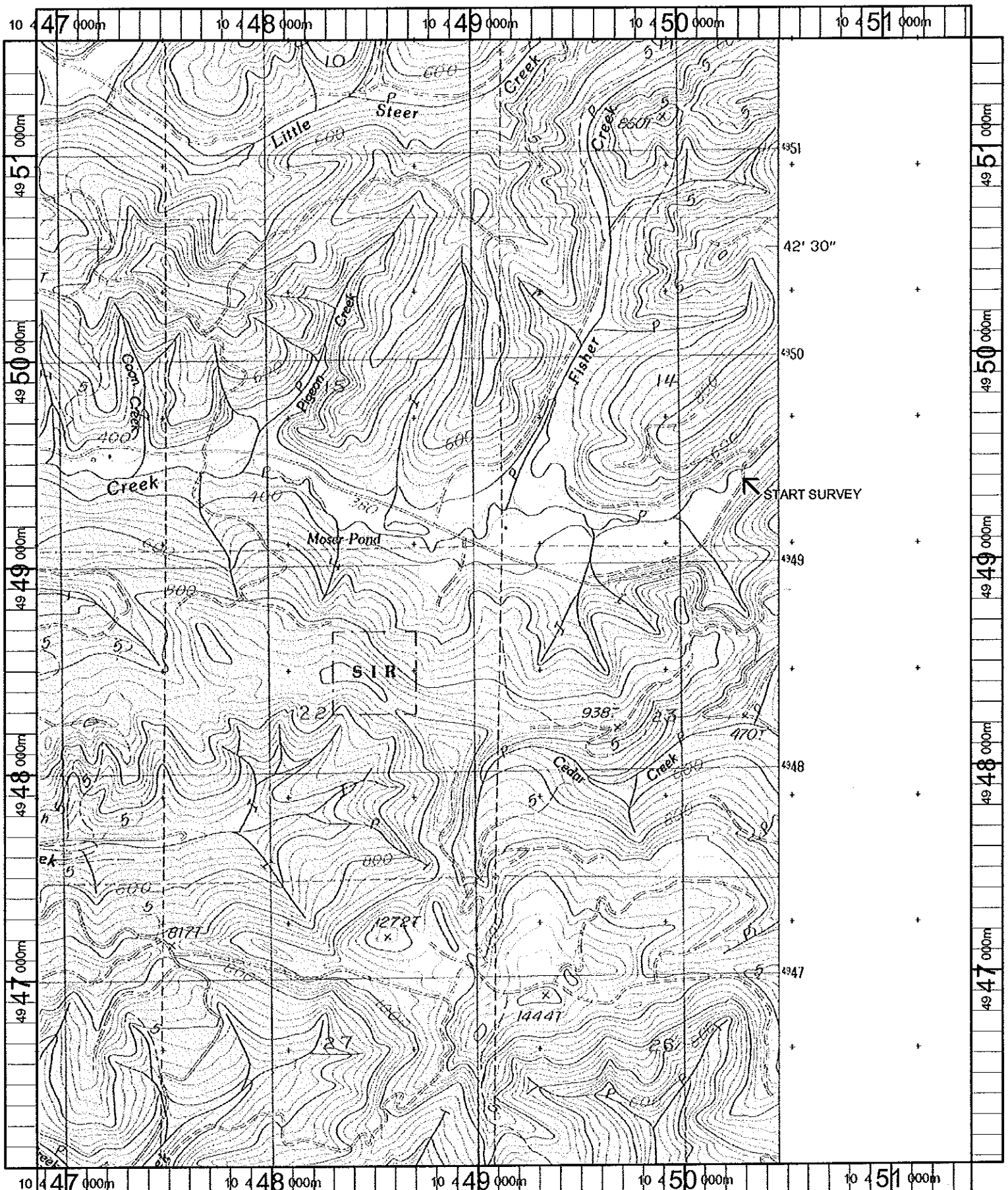
Habitat Group	Wetted Area	
	(m ²)	Percent
Dammed & BW Pools	37	2.23%
Scour Pools	648	39.51%
Glides	0	0.00%
Riffles	949	57.85%
Rapids	0	0.00%
Cascades	5	0.32%
Step/Falls	2	0.09%
Dry	0	0.00%
Culverts	0	0.00%

Comment Summary

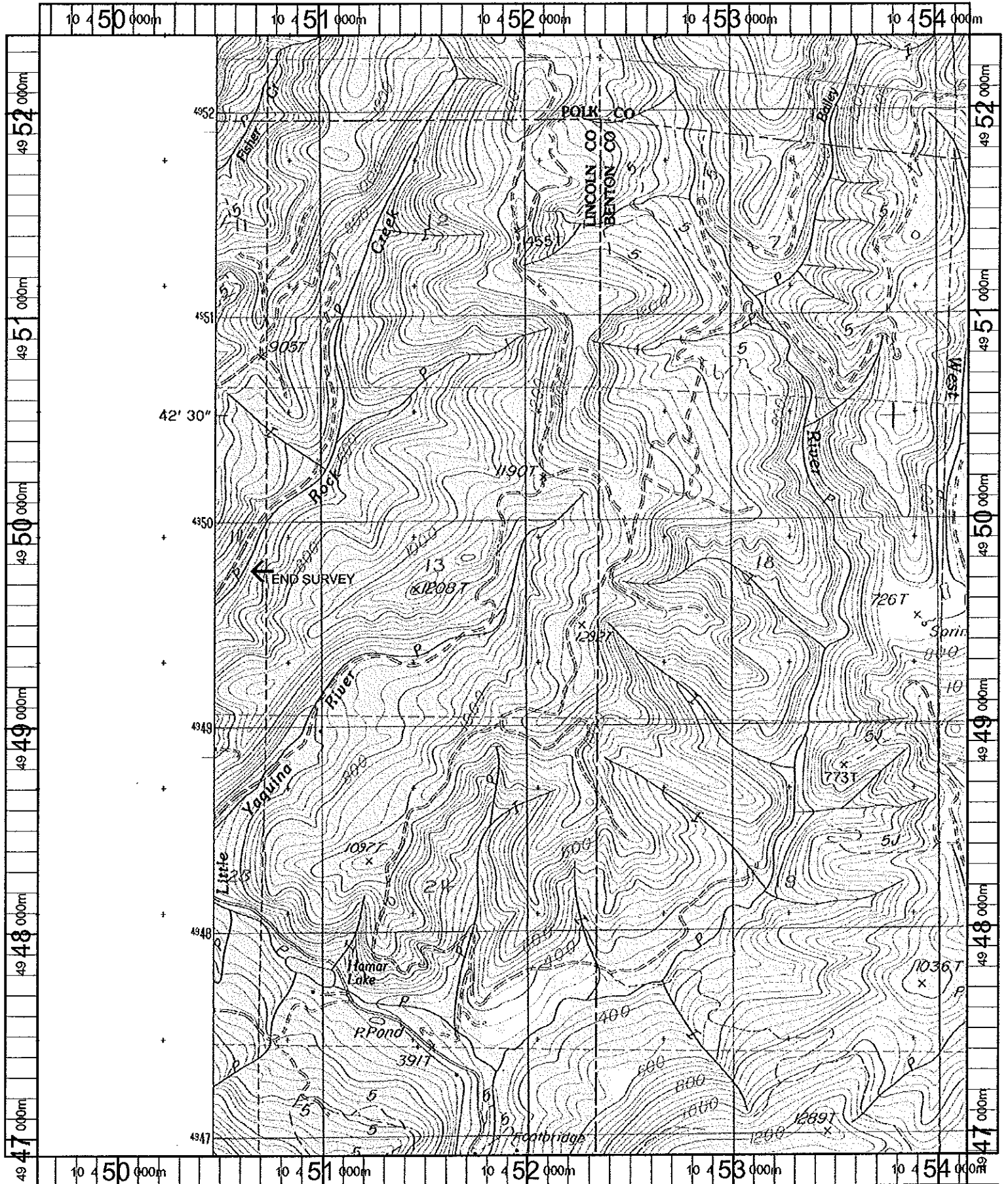
Restoration Monitoring Sites 2003

MONITORING AREA: 2-MC SITE ID: 44 LITTLE ROCK CREEK PRE-TX (MC-44)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	LP	01	7.5	/SS	STRT SIGN UPSTREAM O	
4	LP	00	63.1		1 REDD	
9	RI	01	95.6	/TJ	VWI=1.5	
11	SL	00	95.9		H=0.6	
13	LP	00	145.4		REDD W/LIVE 5TH	
15	LP	00	194.4	RB/		
16	RI	01	216.4	/TJ		
19	RI	00	238.9	RB/		
23	LP	00	301.9		REDD	
24	RP	00	336.9		VWI=4.0	
31	RI	00	431.6		VWI=6.0	
32	LP	00	444.1	RB/		
33	RP	01	479.1	/TJ		
34	RI	11	479.1		REDD	
36	RI	00	535.6		END @ RESTORATION SI	



<p>Name: NORTONS Date: 10/16/100 Scale: 1 inch equals 2000 feet</p>	<p>Location: 10 449045 E 4948797 N Caption: LITTLE ROCK CREEK RESTORATION SITE <i>Siletz Basin</i></p>
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Name: SUMMIT
 Date: 10/16/100
 Scale: 1 Inch equals 2000 feet

Location: 10 451791 E 4949618 N
 Caption: LITTLE ROCK CREEK RESTORATION SITE
Sletz Basin