

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

STREAM: Haight Creek (MC-224)
BASIN: Siuslaw River
SURVEY TYPE: Pre-Tx
DATE: August 11, 2005
SURVEY CREW: Andy Livesay, Jennifer Jacobs
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 8.5 km²
USGS MAPS: Beaver Creek
ECOREGION: Coast Range Sedimentary

GENERAL DESCRIPTION:

The Haight Creek habitat survey extended 2,235 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 12.9 (range: 2.0-20.0). Land use for the reach was second growth (15-30 cm dbh) trees. The average unit gradient was 0.8 percent. Scour pools (56%) and riffles (27%) dominated stream habitat. Gravel (44%), sand (20%) and bedrock (19%) dominated stream substrate. Wood volume was low at 12.8 m³/100m.

COMMENTS:

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

REACH 1

T19S-R07W-S35SW

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	100%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	12.9	VWI Range:	2 - 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 (m2)</u>	<u>Dry Units</u>
Primary Channel	2,235	6,097	0
Secondary Channel	207	618	10
Off-Channel Units	39	63	1

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 10	<u>First Terrace</u> n = 10
Width: 2.5	Width: 5.7	6.9 (5 - 9.1)	8.4 (7.2 - 13)
Depth: 0.21	Height: 0.4	0.9 (0.74 - 0.96)	1.1 (0.97 - 1.4)

W:D ratio: 13.4
 Stream Flow Type: LF
 Average Unit Gradient: 0.8%
 Water temperature (°C): 15.0 - 15.0

Entrenchment (ACW:FPW ratio): 1.2
 Habitat Units/100m (total channel length): 7.7
 Habitat Units/100m (primary channel length): 8.5

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	6%	Reach avg: 86%
Undercut Banks:	12%	Range: 50 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	335	15.0
Volume (m ³):	286	12.8
Key pieces (>=12m x 0.60m):	9	0.4

OREGON DEPT OF FISH AND WILDLIFE

HAIGHT CREEK PRE-TX (2-MC, 224)

HABITAT INVENTORY

Report Date: 4/26/2006

Survey Date:

8/11/2005

REACH 1

T19S-R07W-S35SW

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	13	2.6	0.23	34	0	5	10	85	0	0	0
DRY CHANNEL	4	111	3.9	0.00	413	0	46	16	38	0	0	0
DRY UNIT	5	24	3.1	0.00	85	0	1	6	89	4	0	0
GLIDE	3	45	2.2	0.12	109	0	1	8	26	3	0	62
POOL-BACKWATER	5	19	1.4	0.19	27	0	22	44	27	8	0	0
POOL-BEAVER DAM	3	78	2.5	0.45	197	0	27	42	17	2	0	13
POOL-LATERAL SCOUR	80	1,094	2.9	0.37	3,403	20	5	29	31	8	1	26
POOL-STRAIGHT SCOUR	7	129	3.0	0.40	392	3	6	26	26	7	0	35
PUDDLED UNIT	2	18	0.6	0.02	11	0	28	15	55	3	0	0
RAPID/BEDROCK	1	10	2.2	0.02	22	0	2	3	0	0	0	95
RIFFLE	43	814	2.1	0.07	1,807	24	0	8	50	21	2	19
STEP/BEAVER DAM	3	3	2.8	0.01	5	0	25	35	28	2	0	10
STEP/BEDROCK	1	1	0.5	0.02	0	0	0	20	47	0	0	33
STEP/COBBLE	32	116	2.0	0.03	250	0	1	10	73	14	0	1
STEP/LOG	1	9	2.7	0.04	23	0	0	5	90	5	0	0
Total:	191	2,481	2.5	0.21	6,777	47	Avg: 5	20	44	11	1	19

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	8	97	1.8	0.29	224	3.31%	0	0.0
Scour Pools	87	1,223	2.9	0.37	3,795	56.00%	23	0.6
Glides	3	45	2.2	0.12	109	1.61%	0	0.0
Riffles	43	814	2.1	0.07	1,807	26.66%	24	1.3
Rapids	1	10	2.2	0.02	22	0.32%	0	0.0
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	37	128	2.1	0.03	278	4.10%	0	0.0
Dry	11	152	2.9	0.00	508	7.50%	0	0.0
Culverts	1	13	2.6	0.23	34	0.51%	0	0.0

REACH 1

T19S-R07W-S35SW

REACH 1

POOL SUMMARY

	<u>Total</u>	Total of all Channel Lengths <u># / Km</u>	Primary Channel Length <u># / Km</u>
All Pools:	95	38.3	42.5
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	30	12.1	13.4
Pool frequency (channel widths/pool):	4.5		
Residual pool depth (avg):	0.33		

OREGON DEPARTMENT OF FISH AND WILDLIFE
HABITAT INVENTORY

HAIGHT CREEK PRE-TX
GCG: 2-MC SITE ID: 224

Survey Date 8/11/2005
Report Date: 4/26/2006

RIPARIAN ZONE
VEGETATION SUMMARY

REACH 1

Summary of Riparian Zone (0-30m) 8 transects

Total hardwoods/1000	1288
Total conifers/1000 ft	259
Total conifers >20" dbh/1000 ft	0
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	0.4	5.1	0.6	3.1	0.3	3.9	1.3	12.1
15-30cm	0.1	1.9	0.3	2.3	1.5	2.9	1.9	7.0
30-50cm	0.3	0.4	0.4	0.6	0.5	0.6	1.1	1.6
50-90cm	0.0	0.3	0.0	0.0	0.0	0.1	0.0	0.4
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	0.8	7.6	1.3	6.0	2.3	7.5	1.4	7.0

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	64		62		68	
Shrub cover	55		53		40	
Grass/forb cover	37		44		47	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	6		6		19	
High terrace	94		88		75	
Low terrace	0		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		6		6	
Riprap	0		0		0	
Surface slope (%)	2		2		6	

Summary of Riparian Zone (0-30m) for all reaches

8 transects

Summary of riparian zone (0-100 feet) extrapolated to 1,000 feet along stream

Total hardwoods/1000	1288
Total conifers/1000 ft	259
Total conifers >20" dbh/1000 ft	0
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	1.3	12.1
15-30cm	1.9	7.0
30-50cm	1.1	1.6
50-90cm	0.0	0.4
>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		
27	RT	2	HT	0	85	45	50	Conifer							
								Hardwood	1	2					
27	RT	1	HT	0	95	30	68	Conifer		1	1				
								Hardwood	2						
27	RT	3	HT	0	85	40	50	Conifer			1				
								Hardwood	2	1					
27	LF	1	HT	0	65	95	2	Conifer						0460241 / 4857392	
								Hardwood	1						
27	LF	2	HT	0	50	95	2	Conifer		1					
								Hardwood	1						
27	LF	3	HT	0	40	70	20	Conifer							
								Hardwood	3	2					
52	RT	2	HT	0	90	50	40	Conifer							
								Hardwood	2	1					
52	RT	1	HT	0	95	25	70	Conifer							
								Hardwood	4	1	1				
52	LF	3	HT	0	0	80	15	Conifer							
								Hardwood	3						
52	LF	2	HT	0	0	100	100	Conifer							
								Hardwood	4						
52	LF	1	HT	0	10	100	0	Conifer							
								Hardwood	2						
52	RT	3	HT	0	95	40	50	Conifer							
								Hardwood	3		1				
72	LF	2	HT	0	0	80	15	Conifer						LEFT SIDE PREDOMINANTLY MAPLES	
								Hardwood	1	1					
72	RT	2	HT	0	30	85	5	Conifer							
								Hardwood			1				
72	RT	1	HT	0	30	85	5	Conifer							
								Hardwood	2						
72	LF	1	HT	0	40	95	5	Conifer						3D 0460248 / 4857058	
								Hardwood	4						
72	RT	3	HT	0	55	40	40	Conifer							
								Hardwood	1	1					
72	LF	3	HT	0	65	35	55	Conifer							
								Hardwood		1		1			

94	RT	3	HT	0	80	10	80	Conifer					
								Hardwood	3	2			
94	RT	1	HT	0	80	5	80	Conifer					
								Hardwood	3		1		
94	RT	2	HT	0	85	15	70	Conifer					
								Hardwood	1	2	1		
94	LF	1	HS	30	80	5	75	Conifer					3D 0460280 / 4856855
								Hardwood	3				
94	LF	2	HS	25	90	15	70	Conifer					
								Hardwood	1	2			
94	LF	3	HS	20	85	25	65	Conifer					
								Hardwood	1	1			
120	LF	3	HT	0	75	0	85	Conifer		4	2		
								Hardwood	6	1			
120	RT	1	HT	0	0	90	5	Conifer					WILLOWS
								Hardwood	2				
120	LF	2	HT	5	80	0	85	Conifer	2		1		
								Hardwood	3				
120	LF	1	HT	3	75	0	85	Conifer			1		
								Hardwood	4				
120	RT	2	HT	0	60	20	75	Conifer		1	2		
								Hardwood	1				
120	RT	3	HS	30	85	10	80	Conifer		2	1		
								Hardwood					
145	LF	1	HT	0	75	90	10	Conifer					
								Hardwood		3			
145	LF	2	HT	0	75	90	10	Conifer					
								Hardwood			2		
145	RT	3	HT	0	75	45	50	Conifer		1			
								Hardwood	1	2	1		
145	RT	1	HT	0	75	75	20	Conifer					
								Hardwood		3	1		
145	RT	2	HT	0	65	45	55	Conifer	1				
								Hardwood		5			
145	LF	3	HT	0	75	65	30	Conifer					
								Hardwood	1	4			
161	LF	1	HT	0	85	30	60	Conifer	1				2D 0460483 / 4856329
								Hardwood	5	6			
161	LF	3	HS	45	60	35	35	Conifer	2	5			
								Hardwood					
161	RT	1	HT	0	60	35	60	Conifer					
								Hardwood	6				
161	RT	2	HT	0	85	30	60	Conifer					
								Hardwood	5		1		
161	RT	3	HT	0	85	30	60	Conifer					
								Hardwood	3	2	1		

161	LF	2	RB	0	35	15	35	Conifer	2			
								Hardwood	1			
180	RT	1	HT	0	80	35	35	Conifer	2			
								Hardwood	1		2	
180	RT	2	HT	0	80	80	15	Conifer				
								Hardwood	3	1		
180	LF	1	HT	0	85	80	15	Conifer				0460490 /
								Hardwood	2	2		4856130
180	LF	3	RB	0	55	30	15	Conifer				
								Hardwood	2	1	1	
180	LF	2	HT	0	85	85	10	Conifer				
								Hardwood	1	4		
180	RT	3	HT	0	70	80	15	Conifer				
								Hardwood	2	5	1	

Comment Summary

Restoration Monitoring Sites 2005

MONITORING AREA: **2-MC** SITE ID: **224** HAIGHT CREEK PRE-TX

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	SP	00	16.5		NO GPS COVERAGE AT S	CC DIMENSIONS- 2.9 X 1.9
2	CC	00	29.7	CC	3M DIA, CORRUGATED M	
7	LP	01	84.7	DJ		
14	SC	01	142.8			CLAY
26	LP	00	250.8		TEMP 14.5C	
27	SC	00	255		RIPARIAN 1	
28	LP	00	271.2	DJ	0460241/4857392	
30	SP	00	304.7			OLD BOARDS IN STREAM
42	LP	00	419.2		POOL CREATED BY STR	
46	SD	00	436.2	BD, BV	H=0.1M	
47	BP	01	476.2	BV		
48	LP	02	476.2	DJ		
52	LP	00	507.2		RIPARIAN 2, FRY PRESE	
60	SC	00	622.3		START SIGN FOR MC-549	
61	LP	00	640.8			PTC INFLUENCED BY DEBRI
69	SR	00	702		H=0.12M	
71	LP	00	760	DJ		
72	SC	00	764		RIPARIAN 3, 3D 0460248/4	
78	RI	01	846	BV		
80	LP	00	878.5	BV		
81	SD	00	880	BD, BV	H=0.3M	

Comment Summary

Restoration Monitoring Sites 2005

MONITORING AREA: **2-MC** SITE ID: **224** HAIGHT CREEK PRE-TX

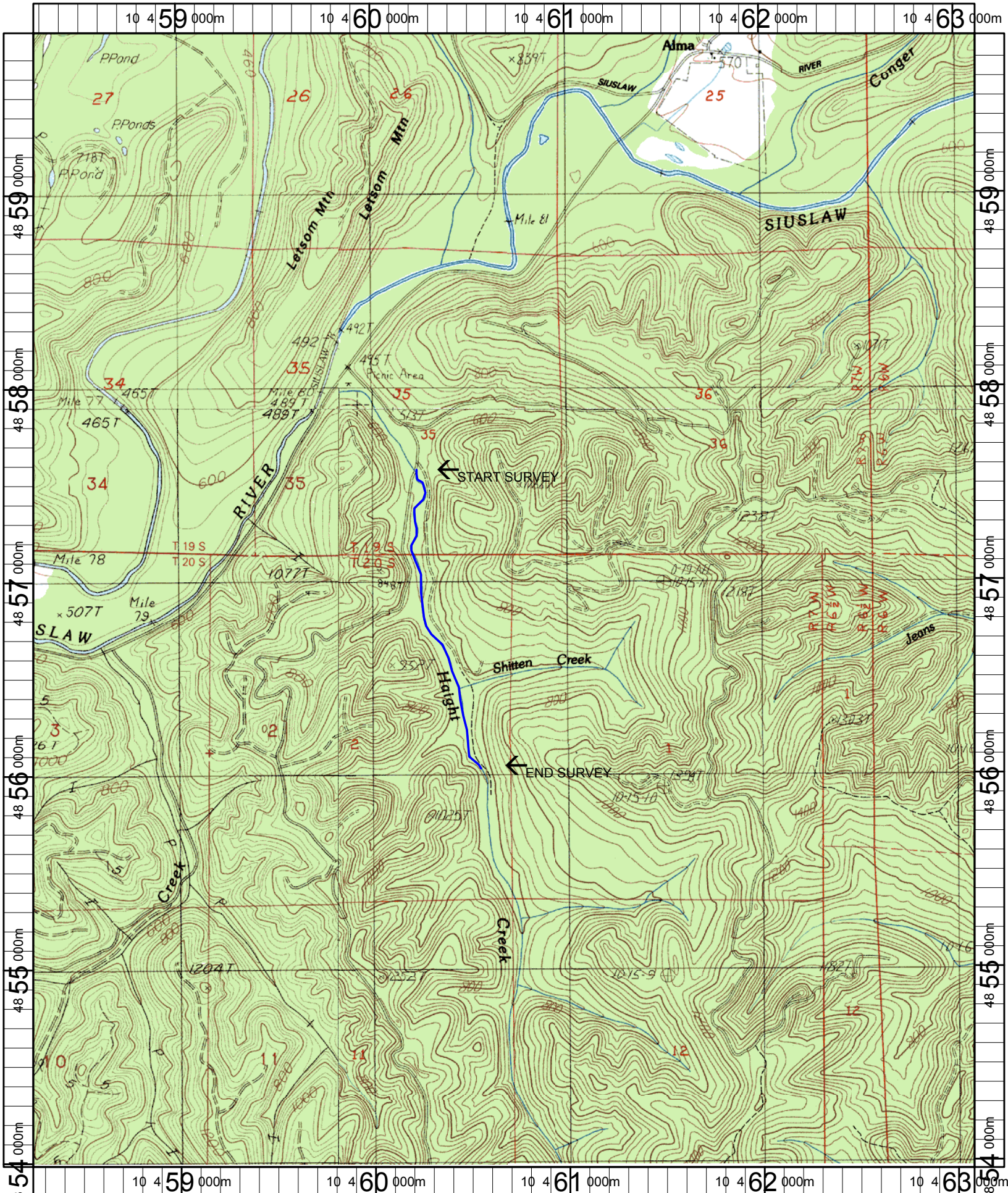
UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
82	BP	00	890.5	BV		
89	LP	01	967.5	DJ		
90	SC	01	970.7	DJ		
93	LP	00	980.7	BV		
94	RI	00	1003.7		RIPARIAN 4, 3D 0460240/4	
98	SC	01	1039.9			CLAY
104	LP	01	1095.9	/TJ		
108	LP	00	1118	DJ		
114	LP	00	1178.8	BV		
116	LP	00	1213.8	BV		
120	SP	00	1245.8		RIPARIAN 5	0460282 / 4856741
122	LP	00	1269.3		WILLOWS OF DEATH	
124	SP	00	1294.8	BV		
126	SD	00	1328.8	BV, BD	H=0.4M	
127	BP	00	1355.8	BV		
128	LP	00	1368.8	BV		COHO FRY
129	SC	00	1369.8	BV		
130	LP	00	1399.8	BV		
141	LP	00	1488.8		COHO FRY PRESENT	
145	LP	00	1548.8		RIPARIAN 6, 2D 0460419/4	
149	LP	00	1575.3	DJ		

Comment Summary

Restoration Monitoring Sites 2005

MONITORING AREA: **2-MC** SITE ID: **224** HAIGHT CREEK PRE-TX

<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
151	LP	00	1597.3			PTC WAS .4, HAD TO CHAN
154	RI	01	1693.3	/TJ		
155	RR	11	1693.3		TEMP 16C	
156	LP	01	1696.8		TEMP 16.5C	
158	LP	01	1724.8	DJ		
161	RI	00	1775.3		RIPARIAN 7, 2D 0460483/4	
180	RI	00	2068.8		RIPARIAN 8, 0460490/485	
186	LP	00	2130.8	DJ		
191	RI	00	2227.3	SS		
192	LP	00	2234.8		END AT RIGHT CEDAR, 1.	END AT SIGN LEFT



Name: BEAVER CREEK
 Date: 6/13/2005
 Scale: 1 inch equals 2000 feet

Location: 10 460675 E 4856899 N
 Caption: HAIGHT CREEK RESTORATION SITE - SIUSLAW BASIN