

REACH 1

T12S-R01E-S17SW

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	18.0	VWI Range:	10 - 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	521	4,214	0
Secondary	180	493	3

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	6.1	Width	15.4	20.4	24.6
Depth	0.45	Height	0.5	1.0	1.7
		W:D ratio	32.5	Entrenchment	1.3
Stream Flow Type:	LF	Water temp (C):		14.0 - 14.0	
Avg. Unit Gradient:	0.8%	Habitat Units/100m:		6.5	

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	9%	Reach avg: 47%
Undercut Banks:	14%	Range: 28 - 97

Large Wood Debris

	<u>Total</u>	<u>Total / 100m</u>
All pieces (>=3m x 0.15m):	20	3.8
Volume (m ³):	14	2.7
Key pieces (>=10m x 0.60m):	2	0.4

OREGON DEPARTMENT OF FISH AND WILDLIFE

HAMILTON CREEK PRE-TX (W-160)

HABITAT INVENTORY

Report Date: 3/17/03

Survey Date:

7/9/02

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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 CHANNEL	1	39	1.8	0.00	69	0	30	50	20	0	0	0	
DRY UNIT	1	34	3.2	0.00	109	0	10	20	30	40	0	0	
POOL-BACKWATER	1	11	4.8	0.65	55	0	30	50	20	0	0	0	
POOL-BEAVER DAM	1	7	2.1	0.38	15	0	30	50	20	0	0	0	
POOL-LATERAL SCOUR	12	386	5.9	0.95	2,608	6	12	34	30	18	0	6	
POOL-PLUNGE	1	11	5.2	1.05	57	0	0	20	20	30	10	20	
PUDDLED UNIT	1	17	3.5	0.05	58	0	10	20	30	40	0	0	
RAPID/BOULDERS	4	48	4.3	0.14	207	0	4	17	43	30	5	0	
RIFFLE	5	102	8.8	0.13	1,087	4	4	22	37	37	0	0	
STEP/BEAVER DAM	1	0	2.0	0.03	1	0	60	40	0	0	0	0	
STEP/COBBLE	6	44	8.9	0.13	440	1	0	8	46	46	0	0	
Total:	34	700	6.1	0.45	4,707	11	Avg 10	26	33	27	1	3	

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	2	19	3.5	0.52	70	1.49%	0	0.0	
Scour Pools	13	397	5.9	0.95	2,665	56.61%	6	0.2	
Glides	0	0			0	0.00%	0	0.0	
Riffles	5	102	8.8	0.13	1,087	23.10%	4	0.4	
Rapids	4	48	4.3	0.14	207	4.40%	0	0.0	
Cascades	0	0			0	0.00%	0	0.0	
Step/Falls	7	45	7.9	0.11	441	9.36%	1	0.2	
Dry	3	89	2.8	0.02	237	5.04%	0	0.0	
Culverts	0	0			0	0.00%	0	0.0	

POOL SUMMARY		
	<u>Total</u>	<u># / Km</u>
All Pools:	15	28.8
Pools >=1m deep:	6	11.5
Complex pools (LWD pieces>=3):	2	3.8
Pool frequency (channel widths/pool):	3.0	
Residual pool depth (avg):	0.76	

RIPARIAN ZONE VEGETATION SUMMARY

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

Total hardwoods/1000	1748
Total conifers/1000 ft	41
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	0.0	5.0	0.0	16.3	0.0	6.3	0.0	27.7
15-30cm	0.0	0.3	0.0	0.0	0.7	0.3	0.7	0.7
30-50cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50-90cm	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.3
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	0.0	5.7	0.0	16.3	0.7	6.7	0.2	9.6

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	35		55		46	
Shrub cover	37		42		40	
Grass/forb cover	62		58		60	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	0		0		0	
High terrace	67		83		100	
Low terrace	33		17		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		0		0	
Riprap	0		0		0	
Surface slope (%)	0		0		0	

RIPARIAN ZONE VEGETATION

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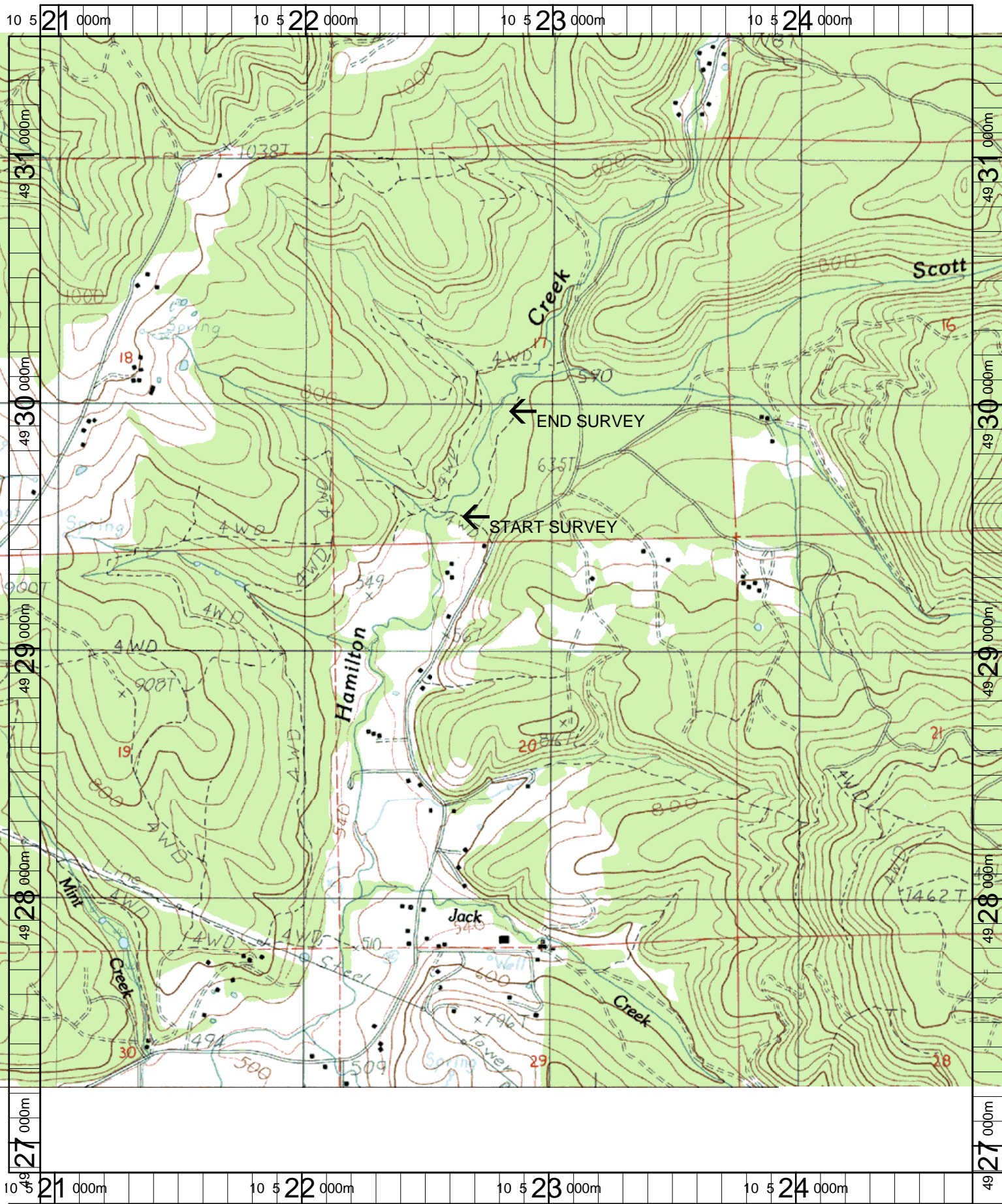
Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
9	LF	1	HT	0	0	0	100	Conifer							
								Hardwood							
9	LF	2	HT	0	20	0	100	Conifer							
								Hardwood	6						
9	LF	3	HT	0	10	0	100	Conifer							
								Hardwood							
9	RT	1	HT	0	50	90	10	Conifer							
								Hardwood	1	1					
9	RT	2	HT	0	90	50	50	Conifer							
								Hardwood	12						
9	RT	3	HT	0	90	90	10	Conifer							
								Hardwood	8						
14	LF	1	HT	0	0	20	80	Conifer							
								Hardwood							
14	LF	2	HT	0	20	0	100	Conifer							
								Hardwood							
14	LF	3	HT	0	0	0	100	Conifer							
								Hardwood							
14	RT	1	LT	0	10	10	80	Conifer							
								Hardwood							
14	RT	2	LT	0	100	100	0	Conifer							
								Hardwood	13						
14	RT	3	HT	0	70	50	50	Conifer					2		
								Hardwood					1		
18	LF	1	HT	0	50	0	100	Conifer							
								Hardwood							
18	LF	2	HT	0	0	0	100	Conifer							
								Hardwood							
18	LF	3	HT	0	5	0	100	Conifer							
								Hardwood							
18	RT	1	LT	0	100	100	0	Conifer							
								Hardwood	14				1		
18	RT	2	HT	0	100	100	0	Conifer							
								Hardwood	18						
18	RT	3	HT	0	100	100	0	Conifer							
								Hardwood	11						

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: 8-W SITE ID: 160 HAMILTON CREEK PRE-TX (W-160)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	RI	00	15.4	BC	START AT BRIDGE	START
2	LP	01	27	CS/	T=14C	
3	LP	01	60.6	BV		
5	PD	02	78.7	WL		RED LEGGED FROG, RSN
6	DU	02	78.7		AC = 4.1	
7	LP	01	118.9	BV		
8	DC	03	118.9		AC = 3.2	
9	RB	00	135.9		RIP#1	RIP#1
10	LP	00	166.6	BV		
14	SC	00	278		RIP#2	RIP#2
15	LP	00	315.2	BV		
17	RI	00	368.7			.5 DEEP POCKET
18	SC	00	378.4	BV	RIP#3	OLD DAM
25	LP	02	468.1	BV		
26	RB	02	468.1	BV		
27	LP	03	468.1	BV,WL		DEER TRACKS
28	RI	03	468.1	TJ/	TJ/	
29	RB	11	468.1	BV		TRIB UNIT
30	SD	02	468.1	BD	H=.3	
31	BP	02	468.1	BV		
34	SC	00	520.5		END OF SURVEY	END OF SURVEY



Name: LACOMB
 Date: 3/20/2003
 Scale: 1 inch equals 1666 feet

Location: 10 522816 E 4929188 N
 Caption: HAMILTON CREEK RESTORATION SITE - SOUTH
 SANTIAM BASIN