

REACH 1

T06S-R04E-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	100%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	3.0	VWI Range:	1 - 7

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	100%	Single Channel	0%
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	553	2,787	0
Secondary	22	24	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	4.4	Width	7.2	12.6	13.5
Depth	0.28	Height	0.7	1.3	1.6
		W:D ratio	11.1	Entrenchment	1.8
Stream Flow Type:	MF	Water temp (C): 11.0 - 11.0			
Avg. Unit Gradient:	5.9%	Habitat Units/100m: 7.1			

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	PT
Riparian Vegetation:	M15	D3

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:		Reach avg: 97%
Undercut Banks:	4%	Range: 83 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m</u>
All pieces (>=3m x 0.15m):	14	2.5
Volume (m ³):	28	5.1
Key pieces (>=10m x 0.60m):	6	1.1

OREGON DEPARTMENT OF FISH AND WILDLIFE

COUGAR CREEK PRE-TX (W-159)

HABITAT INVENTORY

Report Date: 3/17/03

Survey Date:

7/15/02

REACH 1		T06S-R04E-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	
CASCADE/BOULDERS	16	322	4.4	0.23	1,547	319	1	6	14	52	16	11	
POOL-BACKWATER	1	6	2.3	0.35	13	2	20	10	0	60	10	0	
POOL-LATERAL SCOUR	1	7	2.4	0.50	17	6	0	10	10	20	20	40	
POOL-PLUNGE	4	33	4.2	0.61	135	30	0	2	5	24	7	61	
POOL-STRAIGHT SCOUR	1	28	8.3	0.60	235	4	10	19	10	5	0	57	
RAPID/BEDROCK	4	66	3.1	0.21	232	13	0	0	5	5	3	88	
RAPID/BOULDERS	6	99	5.5	0.26	560	80	0	6	14	47	16	18	
STEP/BEDROCK	4	11	3.5	0.15	49	15	0	0	3	3	3	93	
STEP/BOULDERS	2	4	5.8	0.15	21	30	0	0	13	65	23	0	
Total:	39	575	4.4	0.28	2,811	499	Avg	1	5	10	37	12	35

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	1	6	2.3	0.35	13	0.47%	2	15.0	
Scour Pools	6	68	4.6	0.59	387	13.78%	40	10.3	
Glides	0	0			0	0.00%	0	0.0	
Riffles	0	0			0	0.00%	0	0.0	
Rapids	10	165	4.5	0.24	792	28.18%	93	11.7	
Cascades	16	322	4.4	0.23	1,547	55.06%	319	20.6	
Step/Falls	6	14	4.2	0.15	70	2.50%	45	64.0	
Dry	0	0			0	0.00%	0	0.0	
Culverts	0	0			0	0.00%	0	0.0	

POOL SUMMARY		
	<u>Total</u>	<u># / Km</u>
All Pools:	7	12.7
Pools >=1m deep:	0	0.0
Complex pools (LWD pieces>=3):	0	0.0
Pool frequency (channel widths/pool):	11.4	
Residual pool depth (avg):	0.38	

RIPARIAN ZONE VEGETATION SUMMARY

REACH 1 **REACH 1**

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

Total hardwoods/1000	1240
Total conifers/1000 ft	874
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		Zone 2		Zone 3		Zones 1-3	
	0-10 meters		10 - 20 meters		20 - 30 meters		0-30 meters	
	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood
3-15cm	3.7	9.7	2.0	3.7	2.7	0.7	8.3	14.0
15-30cm	2.0	2.7	1.3	1.7	2.0	1.3	5.3	5.7
30-50cm	0.3	0.3	0.0	0.0	0.3	0.3	0.7	0.7
50-90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	6.0	12.7	3.3	5.3	5.0	2.3	4.8	6.8

Canopy closure and ground cover

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	79		68		50	
Shrub cover	6		5		8	
Grass/forb cover	44		34		37	

Predominant landform in each zone

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	50		33		83	
High terrace	17		33		0	
Low terrace	0		0		0	
Floodplain	17		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	17		33		17	
Riprap	0		0		0	
Surface slope (%)	52		32		85	

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		
10	LF	1	FP	2	95	5	80	Conifer							
								Hardwood	3	1	1				
10	LF	2	HT	2	95	10	85	Conifer							
								Hardwood	5	5					
10	LF	3	RB	8	60	5	80	Conifer							
								Hardwood		3	1				
10	RT	1	HT	2	95	5	70	Conifer	5	2					
								Hardwood		4					
10	RT	2	HT	2	95	10	60	Conifer	3	1					
								Hardwood	2						
10	RT	3	HS	80	50	10	60	Conifer			1				
								Hardwood							
18	LF	1	HS	75	75	0	5	Conifer			2				MOSTLY ALDER
								Hardwood	14	1					
18	LF	2	RB	0	20	0	10	Conifer	1						
								Hardwood							
18	LF	3	HS	80	0	5	10	Conifer							
								Hardwood							
18	RT	1	HS	90	100	5	20	Conifer	6	2					
								Hardwood	2						
18	RT	2	HS	80	100	10	20	Conifer	1	2					
								Hardwood	3						
18	RT	3	HS	80	80	15	30	Conifer	3	2	1				
								Hardwood	2	1					
29	LF	1	RB	35	20	10	20	Conifer							PARTIAL HS
								Hardwood	9						
29	LF	2	RB	0	0	0	20	Conifer							
								Hardwood	1						
29	LF	3	HS	150	15	5	10	Conifer	5	1					
								Hardwood							
29	RT	1	HS	110	90	10	70	Conifer			1				LOT OF DOWN TIMBER
								Hardwood	1	2					
29	RT	2	HS	110	95	0	10	Conifer	1	1					
								Hardwood							
29	RT	3	HS	110	95	10	30	Conifer			2				
								Hardwood							

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: **8-W** SITE ID: **159** **COUGAR CREEK PRE-TX (W-159)**

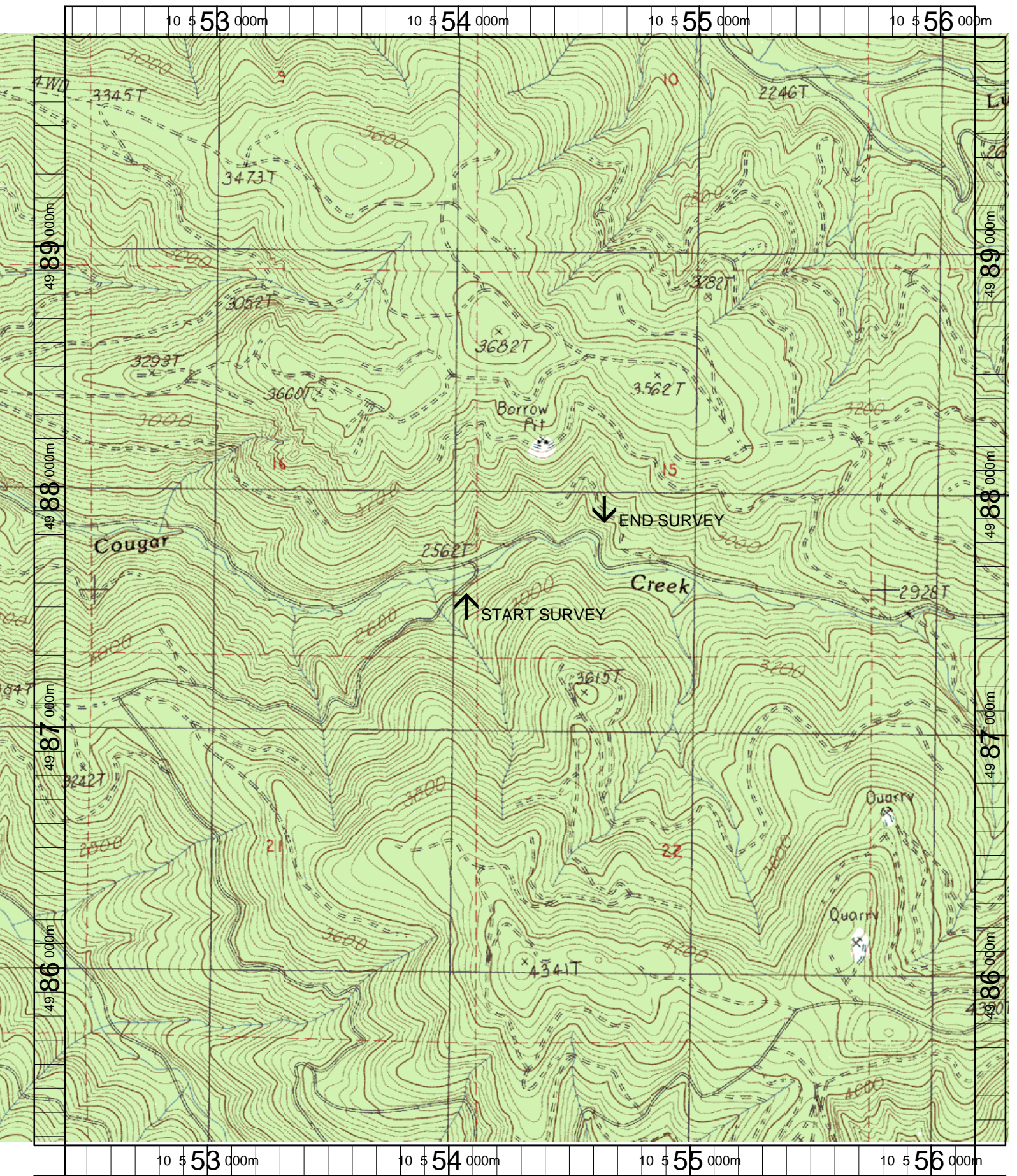
<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
1	SB	00	2.5		START, H=.6	START BELOW BC
2	RB	00	10.7		BC, LARGE LOGS CABLE	
3	CB	00	35.7	BC		
4	CB	01	53.5	TJ/	TJ/	
5	CB	11	53.5		ACW=1.1	TRIB UNIT
7	CB	00	68.7		SS/	
10	CB	00	142.9		NOT TYPICAL OF AREA	RIP#1
11	CB	00	162.1	BV	SMALL POOL W/ BV	
15	CB	00	228.3	BV		
16	SB	00	229.3		H=.5	
17	SP	00	257.6			FISH, CUTT 4-9"
18	RR	00	283.4	CS/	HS CONSTRAINED	RIP#2
19	RR	00	294.4			CURRHROAT 5"
22	SR	00	308.6	CE/	H=.8, CE/	
23	PP	00	319.2			2M OF RR @ TAIL
26	SR	00	350.3		H=1.2	
27	RB	00	369.3			FISH, .9M POOL UNDER ROC
28	CB	00	394.3	CS/		FISH
30	LP	00	422.9			FISH
31	RB	00	445.5	CS/		FISH
32	CB	00	466.1		CABLE ON BANK	

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: 8-W SITE ID: 159 COUGAR CREEK PRE-TX (W-159)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
33	RR	00	488.2	BV		FISH
34	SR	00	495.8		H=1.2	
36	RB	00	537.1		RB ON LEFT	FISH
38	SR	01	553	TJ/, CE/	H=.7, TJ/, CE/	
39	CB	11	553		END SURVEY, CC ON TRI	8M TO CC W/ 3M STEP



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

Location: 10 554270 E 4987586 N
 Caption: COUGAR CREEK RESTORATION SITE - MOLALLA BASIN