

REACH 1

T20S-R07W-S25NE

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	10.0	VWI Range:	10 - 10

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	520	2,659	0
Secondary			0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	4.7	Width	9.6	12.4	14.9
Depth	0.35	Height	0.4	0.8	1.6
		W:D ratio	23.0	Entrenchment	1.3
Stream Flow Type:	LF			Water temp (C):	15.0 - 15.0
Avg. Unit Gradient:	0.8%			Habitat Units/100m:	7.3

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	TH	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:	10%	Reach avg: 76%
Undercut Banks:	16%	Range: 43 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m</u>
All pieces (>=3m x 0.15m):	47	9.0
Volume (m ³):	89	17.1
Key pieces (>=10m x 0.60m):	7	1.3

OREGON DEPARTMENT OF FISH AND WILDLIFE

PANTHER CREEK PRE-TX (UMP-96)

HABITAT INVENTORY

Report Date: 3/17/03

Survey Date:

6/27/02

REACH 1		T20S-R07W-S25NE					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
POOL-DAMMED	1	9	5.0	0.42	45	0	33	11	44	11	0	0
POOL-LATERAL SCOUR	20	379	5.2	0.57	2,089	24	21	5	16	23	1	35
RIFFLE	6	83	3.5	0.13	309	22	10	5	17	40	2	27
STEP/BEDROCK	3	11	4.1	0.06	39	0	3	0	0	3	0	93
STEP/COBBLE	8	37	4.7	0.09	177	10	4	1	39	47	0	10
Total:	38	520	4.7	0.35	2,659	56	Avg 15	4	20	28	1	32

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	9	5.0	0.42	45	1.69%	0	0.0	
Scour Pools	20	379	5.2	0.57	2,089	78.57%	24	1.1	
Glides	0	0			0	0.00%	0	0.0	
Riffles	6	83	3.5	0.13	309	11.64%	22	7.1	
Rapids	0	0			0	0.00%	0	0.0	
Cascades	0	0			0	0.00%	0	0.0	
Step/Falls	11	49	4.5	0.08	215	8.10%	10	4.6	
Dry	0	0			0	0.00%	0	0.0	
Culverts	0	0			0	0.00%	0	0.0	

POOL SUMMARY		
	Total	# / Km
All Pools:	21	40.4
Pools >=1m deep:	0	0.0
Complex pools (LWD pieces>=3):	7	13.5
Pool frequency (channel widths/pool):	2.6	
Residual pool depth (avg):	0.48	

RIPARIAN ZONE VEGETATION SUMMARY

REACH 1 **REACH 1**

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

Total hardwoods/1000	1748
Total conifers/1000 ft	102
Total conifers >20" dbh/1000 ft	41
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	9.0	0.0	4.0	0.7	10.0	0.7	23.0
15-30cm	0.0	1.0	0.0	0.0	0.0	0.7	0.0	1.7
30-50cm	0.0	1.3	0.0	0.7	0.3	0.0	0.3	2.0
50-90cm	0.0	0.3	0.0	1.0	0.7	0.0	0.7	1.3
>90cm	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.7
Total/100m2	0.0	11.7	0.0	6.3	1.7	10.7	0.6	9.6

Canopy closure and ground cover

	Zone 1 0-10 meters (%)	Zone 2 10 - 20 meters (%)	Zone 3 20 - 30 meters (%)
Canopy closure	80	72	63
Shrub cover	77	57	33
Grass/forb cover	23	40	58

Predominant landform in each zone

	Zone 1 0-10 meters (%)	Zone 2 10 - 20 meters (%)	Zone 3 20 - 30 meters (%)
Hillslope	0	17	33
High terrace	100	83	50
Low terrace	0	0	0
Floodplain	0	0	0
Wetland/meadow	0	0	0
Stream channel	0	0	17
Roadbed/Railroad	0	0	0
Riprap	0	0	0
Surface slope (%)	0	4	12

RIPARIAN ZONE VEGETATION

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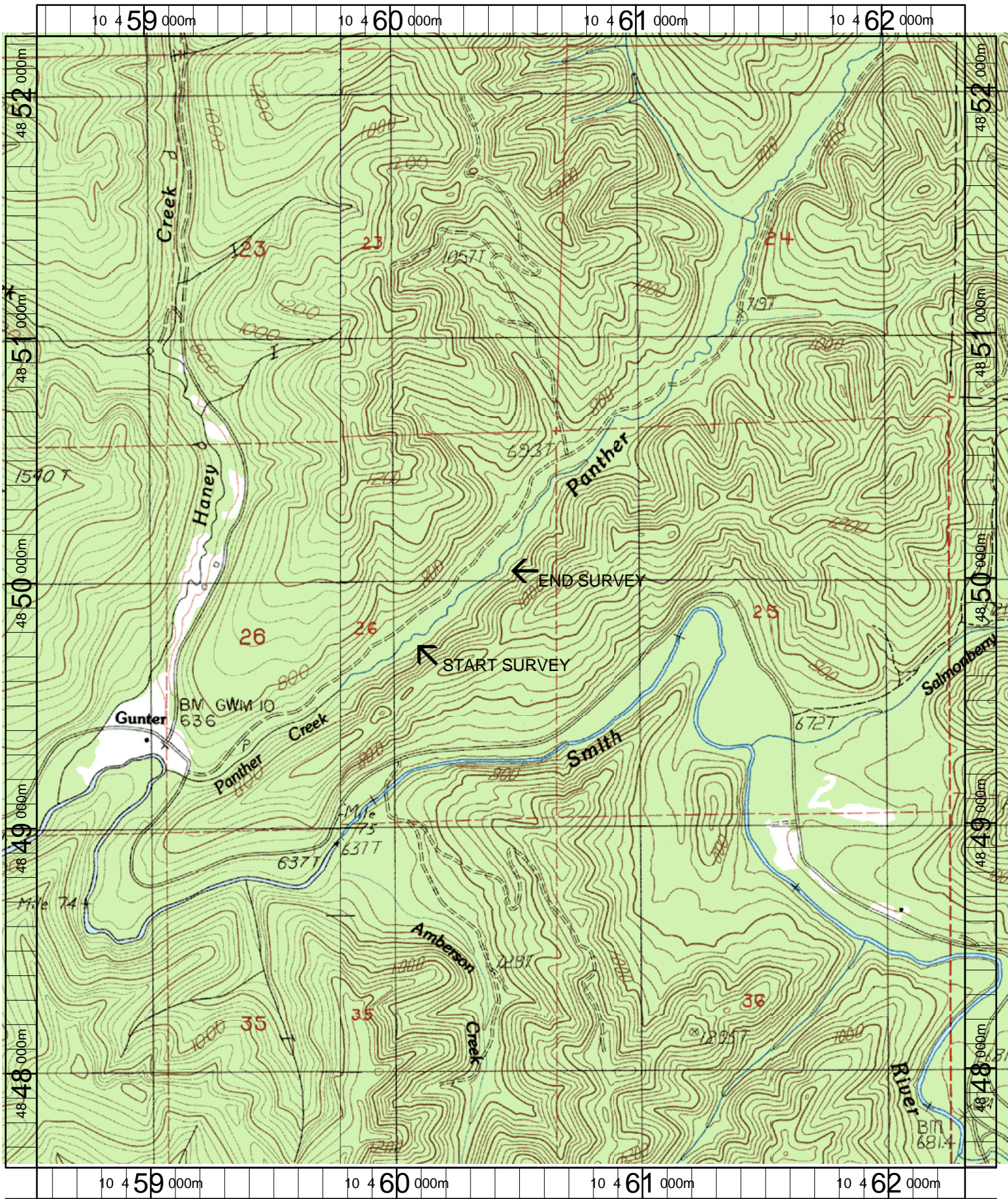
Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
9	LF	1	HT	0	100	70	30	Conifer							
								Hardwood	5			1			
9	LF	2	HT	0	40	60	40	Conifer							
								Hardwood	2			2			
9	LF	3	HT	0	10	0	50	Conifer				1			
								Hardwood							
9	RT	1	HT	0	0	100	0	Conifer							
								Hardwood	3						
9	RT	2	HT	0	0	100	0	Conifer							
								Hardwood							
9	RT	3	HT	0	10	100	0	Conifer					1		
								Hardwood							
18	LF	1	HT	0	100	100	0	Conifer							
								Hardwood	6						
18	LF	2	HT	0	100	100	0	Conifer							
								Hardwood	5						
18	LF	3	HT	0	80	50	50	Conifer							
								Hardwood	9						
18	RT	1	HT	0	90	50	50	Conifer							
								Hardwood	4	2					
18	RT	2	HT	0	100	10	90	Conifer							MAPLE
								Hardwood	1				1		
18	RT	3	HS	32	100	10	90	Conifer	2						
								Hardwood	3						
29	LF	1	HT	0	100	70	30	Conifer							
								Hardwood	8		2				
29	LF	2	HT	0	100	70	30	Conifer							
								Hardwood	4			1			
29	LF	3	SC	0	100	30	70	Conifer							
								Hardwood	16	2					
29	RT	1	HT	0	90	70	30	Conifer							
								Hardwood	1	1	2				
29	RT	2	HS	25	90	0	80	Conifer							
								Hardwood			2		1		
29	RT	3	HS	40	80	10	90	Conifer				1			
								Hardwood	2						

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: **4-UMP** SITE ID: **96** **PANTHER CREEK PRE-TX (UMP-96)**

<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	LP	00	30.1	WL	START SURVEY, ANIMAL	DEER & BEAR TRACKS
5	RI	00	85.5	WL	RSN	RSN
6	LP	00	95.4	WL		CROSSING
9	RI	00	133.2		RIP#1	
13	SC	00	174.5		STRUCTURE SITE #4	
18	LP	00	249.1	WL	RIP#2	DEER TRACKS
19	RI	00	258.4	BV	SITE #5	
20	LP	00	288.4	BV		START OF BEAVER DAM
23	SC	00	312.2		SITE #6	
27	SC	00	343.4		BV	
28	LP	00	368.5	SS/		
29	RI	00	393.5		RIP#3, SITE #7	
34	DP	00	449.8	DJ		FLOWING UNDER JAM
36	LP	00	484.5		SITE #8	
37	LP	00	516.7		HABITAT #9	
38	SC	00	519.5		END SURVEY	END SURVEY



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

Location: 10 460433 E 4849917 N
 Caption: PANTHER CREEK RESTORATION SITE - SMITH BASIN