

REACH 1

T21S-R8W-S1NE

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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 avg: 3.3 range: 1.1-6.0

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0	Single Channel	0
Bedrock	0	Multiple Channel	0
Terrace	0	Braided Channel	0
Alt. Terrace/Hill	100		
Landuse	0		

Channel Characteristics

<u>Type</u>	<u>Length(m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary	519	1,044	0
Secondary	17	21	1

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>	<u>Floodprone</u>	<u>First Terrace</u>
Width	2.1	Width 5.3	6.5	8.2
Depth	0.20	Height 0.4	0.9	1.3
		W:D ratio 12.2	Entrenchment 1.2	

Stream Flow Type: LF Water Temp: 12.0-12.0°C
 Avg. Unit Gradient: 3.2% Habitat Units/100m: 7.1

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	7%	Reach avg: 99%
Undercut Banks	4%	Range: 86-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces (≥3m x 0.15m)	68	13.1
Volume (m ³)	99	19.1
Key pieces (≥10m x 0.6m)	5	1.0

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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	Cbbl	Bldr	Bdrk
CULVERT CROSSING	1	17	1.6	0.10	26	0	0	5	90	5	0	0
DRY UNITS	1	10	1.8	0.00	18	0	0	5	80	15	0	0
POOL-LATERAL SCOUR	12	144	2.4	0.38	318	5	10	21	66	4	0	0
POOL-PLUNGE	2	19	3.2	0.40	57	9	5	22	56	10	5	2
POOL-STRAIGHT SCOUR	2	11	3.0	0.33	32	2	8	20	60	10	3	0
RAPID/BOULDERS	2	71	2.0	0.09	92	71	0	13	55	23	10	0
RIFFLE	16	261	1.9	0.08	517	16	2	13	75	11	0	0
STEP/LOG	2	4	0.9	0.02	3	0	0	20	73	8	0	0
Total:	38	536	2.1	0.20	1,064	103	Avg: 4	16	69	9	1	0

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m ²)	Percent	Large Boulders Number	Boulders #/100m ²
Dammed & BW Pools	0	0	-	-	0	0.00	0	0.0
Scour Pools	16	173	2.6	0.37	407	38.27	16	3.9
Glides	0	0	-	-	0	0.00	0	0.0
Riffles	16	261	1.9	0.08	517	48.61	16	3.1
Rapids	2	71	2.0	0.09	92	8.64	71	77.2
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	2	4	0.9	0.02	3	0.30	0	0.0
Dry	1	10	1.8	0.00	18	1.69	0	0.0

POOL SUMMARY

	Total	#/Km
All Pools	16	29.9
Pools $\geq 1m$ deep:	0	0.0
Complex pools (LWD pieces ≥ 3):	7	13.1
Pool Frequency (channel widths/pool):	6.3	
Residual pool depth (avg)	0.33m	

STREAM SUMMARY

CLABBER CREEK PRE-TX (#77)

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Substrate Percent Wetted Area						Total Large Boulder
					S/O	Sand	Grvl	Cbbl	Bldr	Bdrk	
38	536	2.1	0.20	1,064	4	16	69	9	1	0	103

Wetted Area

Habitat Group	(m ²)	Percent
Scour Pool	407	38.3
Backwater Pools	0	0.0
Glide	0	0.0
Riffle	517	48.6
Rapid	92	8.6
Cascade	0	0.0
Step	3	0.3
Dry	18	1.7

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RIPARIAN ZONE VEGETATION SUMMARY

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

Total hardwoods/1000 ft	1,727
Total conifers/1000 ft	467
Total conifers >20" dbh/1000 ft	20
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	0.7	8.0	1.0	9.0	1.7	2.7	3.3	19.7
15-30cm	0.3	2.3	1.0	3.0	2.3	0.0	3.7	5.3
30-50cm	0.0	1.3	0.3	1.0	0.0	0.7	0.3	3.0
50-90cm	0.0	0.0	0.0	0.3	0.3	0.0	0.3	0.3
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m ²	1.0	11.7	2.3	13.3	4.3	3.3	2.6	9.4

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	79		83		83	
Shrub cover	46		28		15	
Grass/forb cover	38		56		72	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	83		83		67
High terrace	17		17		0	
Low terrace	0		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		0		33	
Riprap	0		0		0	
Surface slope (%)	39		43		33	

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

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

Total hardwoods/1000 ft	1,727
Total conifers/1000 ft	467
Total conifers >20" dbh/1000 ft	20

Average number of trees in a 5-meter wide band

<u>Diameter</u> <u>class (cm)</u>	<u>Zones 1-3</u>	
	<u>Conifer</u>	<u>Hardwood</u>
3-15cm	3.3	19.7
15-30cm	3.7	5.3
30-50cm	0.3	3.0
50-90cm	0.3	0.3
>90cm	0.0	0.0

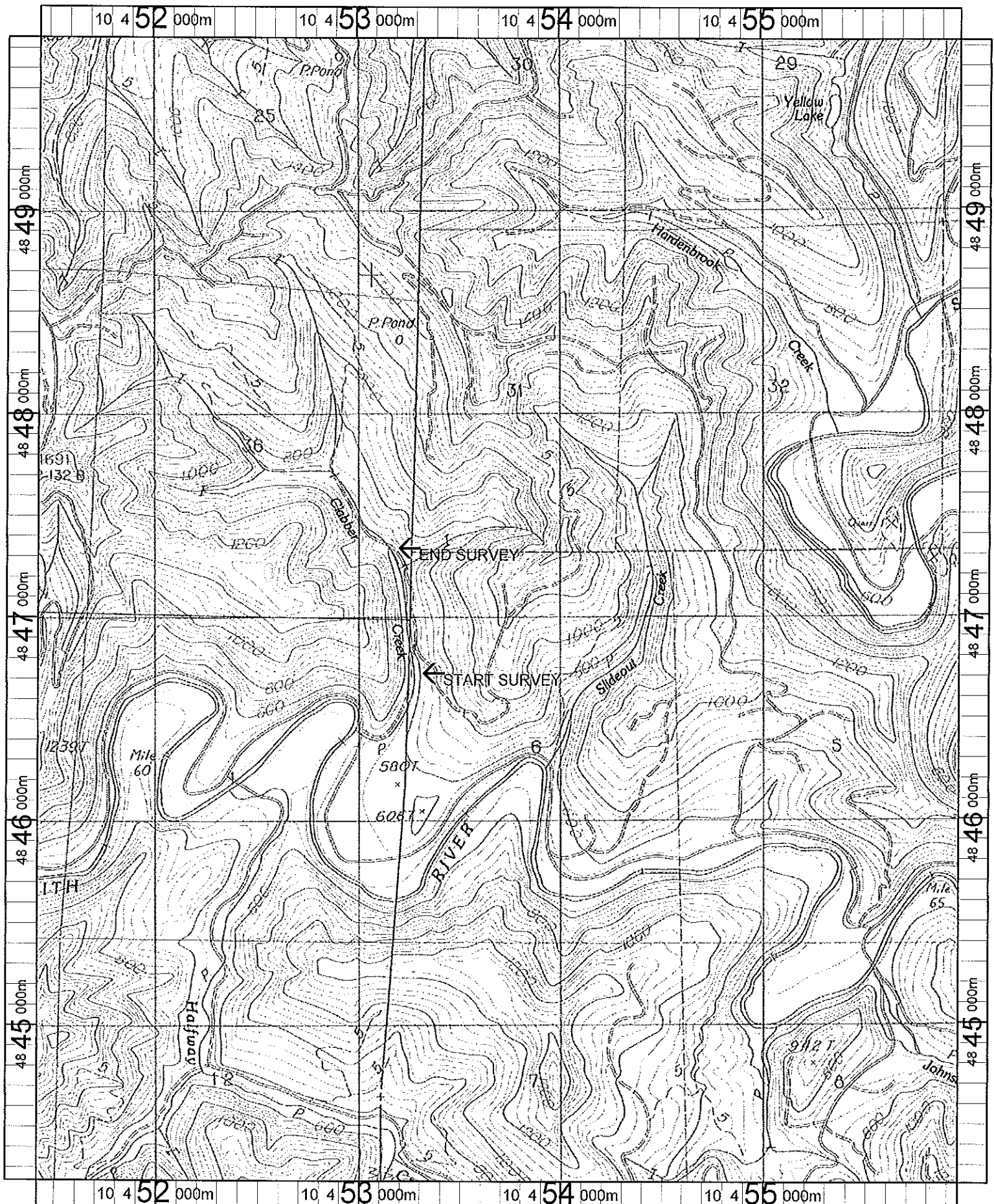
RIPARIAN ZONE VEGETATION

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VEGETATION DETAIL

Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90	
12	LF	1	HS	40.0	90	30	60	Conifer	0	0	0	0	0	VINE MAPLE, ALDER
								Hardwood	9	1	1	0	0	
12	LF	2	HS	50.0	90	0	70	Conifer	1	1	0	0	0	
								Hardwood	18	0	0	0	0	
12	LF	3	HS	45.0	95	20	60	Conifer	3	1	0	0	0	
								Hardwood	2	0	1	0	0	
12	RT	1	HS	50.0	95	30	30	Conifer	1	0	0	0	0	
								Hardwood	0	1	1	0	0	
12	RT	2	HS	55.0	85	35	40	Conifer	0	0	0	0	0	
								Hardwood	0	1	0	1	0	
12	RT	3	RB	0.0	85	5	90	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
21	LF	1	HS	60.0	90	10	70	Conifer	1	1	0	0	0	
								Hardwood	1	0	0	0	0	
21	LF	2	HS	65.0	85	0	70	Conifer	2	2	0	0	0	
								Hardwood	0	2	0	0	0	
21	LF	3	HS	60.0	95	10	50	Conifer	1	1	0	1	0	
								Hardwood	1	0	0	0	0	
21	RT	1	HS	40.0	80	30	50	Conifer	0	0	0	0	0	
								Hardwood	1	0	2	0	0	
21	RT	2	HS	35.0	90	30	60	Conifer	0	0	0	0	0	
								Hardwood	1	2	1	0	0	
21	RT	3	HS	30.0	85	40	50	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
30	LF	1	HT	0.0	60	80	15	Conifer	0	0	0	0	0	
								Hardwood	3	5	0	0	0	
30	LF	2	HT	0.0	65	80	15	Conifer	0	0	0	0	0	
								Hardwood	1	4	2	0	0	
30	LF	3	RB	0.0	60	10	90	Conifer	1	2	0	0	0	
								Hardwood	5	0	0	0	0	
30	RT	1	HS	45.0	60	95	5	Conifer	0	0	0	0	0	
								Hardwood	10	0	0	0	0	VINE MAPLE
30	RT	2	HS	50.0	80	20	80	Conifer	0	0	1	0	0	
								Hardwood	7	0	0	0	0	D. FIR
30	RT	3	HS	60.0	80	5	90	Conifer	0	3	0	0	0	
								Hardwood	0	0	1	0	0	CEDAR



Name: GUNTER
 Date: 1/10/2002
 Scale: 1 inch equals 2000 feet

Location: 10 453701 E 4847032 N
 Caption: CLABBER CREEK PHASE 2 RESTORATION SITE - SMITH BASIN