

11-06

**DNR&E / DFO - NEW BRUNSWICK  
STREAM SURVEY and HABITAT ASSESSMENT**

1 of 1

River: Unnamed trib to Ridge Brook  
Date: 04-Sep-19  
Personnel: B. Moore / L. Vicaire

Start Point: US end      End Point: DS end

Stream/River No.  
Stream Order No. 1

Unit No.	Stream Type	Channel Type	Chainage End	Length (m)	Ave Width (m)		Substrate (%)							Ave Depth - Wet Width (cm)	Undercut Bank 0-50%		Over-Hanging Bank Vegetation 0-50%		Large Woody Debris In-Stream (m)	Embedded (Criteria) 1: < 20% 2: 20 - 35% 3: 35 - 50% 4: > 50%	In-Stream Vegetation	Comments	
					Wet	Bank Channel	Bedrock	Boulder	Rock	Rubble	Gravel	Sand	Fines		L	R	L	R					
1	N/A	1	55.0	55.0	0.3	1.2	0	0	5	0	0	15	80	5	0	0	30	30	0.0	4		Not enough water to determine flow type	
2	3	1	201.0	146.0	1.2	1.4	0	0	10	65	20	5	0	5	5	5	20	20	0.0	2		Flow type presumed based on substrate	
3	8	1	448.0	247.0	0.4	0.7	0	0	5	0	40	50	5	5	5	25	25	0.0	4		Flow type presumed based on substrate		
																						Upstream	
																							45.99957 / 65.36777
																							Downstream
																							45.99817 / 65.36370

STREAM TYPE					CHANNEL TYPE				SUBSTRATE				FLOW TYPE		POOL RATING (reverse side)	
FASTWATER			POOLS												CRITERIA (NO.)	% OF POOLS IN SITE (LETTER)
1. Fall	6. Sheet (edge)	10. Midchannel	14. Trench	18. Eddy	22. Wood Debris	1. Main (if measurement refers to main area of river)				1. Bedrock Ledge	1. Survey Stream		Pool Depth > 1.5 m		a - > 30% b - 10% to 30% c - < 10%	
2. Cascade	7. Chute	11. Convergence	15. Plunge	19. Gabion	23. Man-Made Dam	* 2. Side Channel (water diverted by islands)				2. Boulder = > 400 mm	2. Spring		1 - Instream Cover > 30% 2 - Instream Cover < 30%			
3. Riffle (GR/RB)	8. Run	12. Lateral	16.	20. Log Structure	24. Natural Deadwater	* 3. Split of river is split into various different stream types				3. Rock = 180 - 400 mm	3. Brook/River Tributary		Pool Depth .5 to 1.5m			
4. Riffle (RB)	9. Rapid	13. Beaver	17. Bogan	21. Road Crossing		* 4. Bogan				4. Rubble = 54 - 178 mm	4. Spring Seep		3 - Instream Cover 5 - 30% 4 - Instream Cover > 30%			
5. Riffle (Sand)						* Specify Left (L), Right (R) or Middle (M)				5. Gravel = 2.8 - 53 mm			a - > 30% b - < 30%			
										6. Sand = 0.08 - 2.5 mm						
										7. Fines = 0.0005 - 0.05 mm						

\*For different left and right parameters, values are to be written as L/R.



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STREAM SURVEY and HABITAT ASSESSMENT**

1 of 1

River: Unnamed trib to Ridge Brook  
Date: 04-Sep-19  
Personnel: B. Moore / L. Vicarie

Start Point: Cross Road      End Point: Property edge

Stream/River No. 1  
Stream Order No.

Unit No.	Stream Type	Channel Type	Chainage End	Length (m)	Ave Width (m)		Substrate (%)						Ave Depth - Wet Width (cm)	Undercut Bank 0-50%		Over-Hanging Bank Vegetation 0-50%		Large Woody Debris In-Stream (m)	Embedded (Criteria) 1: < 20% 2: 20 - 35% 3: 35 - 50% 4: > 50%	In-Stream Vegetation	Comments
					Wet	Bank Channel	Bedrock	Boulder	Rock	Rubble	Gravel	Sand		Fines	L	R	L				
1	N/A	1	97.0	97.0		1.8	0	0	0	40	40	20	0		0	0	35	35	0.0	2	
2	N/A		268.0	171.0																	
3	N/A	1	338.0	70.0		2.4	0	5	20	50	25	0	0		0	10	10	10	0.0	1	✓
																					Upstream
																					45.99670 / 65.36682
																					Downstream
																					45.99627 / 65.36308

STREAM TYPE						CHANNEL TYPE	SUBSTRATE	FLOW TYPE	POOL RATING (reverse side)	
FASTWATER			POOLS						CRITERIA (NO.)	
1 Fall	6 Sheet (edge)	10 Midchannel	14 Trench	18 Eddy	22 Wood Debris	1. Main (if measurement refers to main area of river)	1 Bedrock / Ledge	1 Survey Stream	Pool Depth > 1.5m	a - > 30%
2 Cascade	7 chute	11 Convergence	15 Plunge	19 Gabion	23 Man-Made Dam	* 2 Side Channel (water diverted by islands)	2 Boulder = > 481 mm	2 Spring	1 - Instream Cover > 30%	b - 10% to 30%
3 Riffle (G/R/B)	8 Run	12 Lateral	16	20 Log Structure	24 Natural Decewater	* 3 Split (if river is split into various different stream types)	3 Rock = 180 - 480 mm	3 Brook/River Tributary	2 - Instream Cover < 30%	c - < 10%
4 Riffle (R/S)	9 Rapid	13 Beaver	17 Bogan	21 Road Crossing		* 4 Bogan	4 Rubble = 54 - 179 mm	4 Spring Seep	Pool Depth .5 to 1.5m	a - > 50%
5 Riffle (Sand)						* Specify Left (L), Right (R) or Middle (M)	5 Gravel = 2.8 - 53 mm		3 - Instream Cover 5 - 30%	b - < 30%
							6 Sand = 0.08 - 2.5 mm		4 - Instream Cover > 30%	
							7 Fines = 0.0025 - 0.05 mm			

\*For different left and right parameters, values are to be written as L/R.





**Photo 1:** Upstream extent of Watercourse 1



**Photo 2:** Looking upstream from the end of Unit 1; Watercourse 1





**Photo 3:** Looking downstream from the end of Unit 1; Watercourse 1



**Photo 4:** Mid-point of Unit 2; Watercourse 1





**Photo 5:** Looking downstream from the end of Unit 2; Watercourse 1



**Photo 6:** Electrofishing site in Unit 2; Watercourse 1





**Photo 7:** Electrofishing site in Unit 3; Watercourse 1



**Photo 8:** Creek chub from Unit 3 site; Watercourse 1





**Photo 9:** Looking downstream from Cross Road culvert; Watercourse 2



**Photo 10:** Mid-point of Unit 2; Watercourse 1





**Photo 11:** Looking downstream from the start of Unit 3; Watercourse 2



**Photo 12:** Looking upstream from the downstream extent of the survey; Watercourse 2