

Sutherlands Pond Outflow at Forest Access Road

NF02YN0044

CENTRAL



Site Description

Site Code	NF02YN0044
Name	Sutherlands Pond Outflow
Date Sampled	Sept. 13, 2010
Ecoregion(s)	Central Newfoundland
Stream Order	3
Basin	Exploits River
Sampled By	NL
Accessibility	Sampled off access road 21km SW of Millertown, downstream of bridge on SE side of Red Indian Lake.

Reach Data

Reach Characteristics			
Riffle	Rapid	Straight Run	Pool
X		X	X
Surrounding Vegetation (D=dominant)			
Ferns/Grasses	Shrubs	Deciduous Trees	Coniferous Trees
X	X (D)	X	X
Canopy Coverage		1-25 %	
Macrophyte Coverage		0 %	
Periphyton Coverage		0.5-1 mm thick	


Channel Data

Bankful Width	7.8 m
Wetted Width	6.65 m
Avg. Velocity	0.31 m/s
Max. Velocity	0.45 m/s
Avg. Channel Depth	10.9 cm
Max. Channel Depth	12.5 cm
Bankfull-Wetted Depth	25 cm
Slope	0.11 m/m

Water Chemistry

Parameter	Value	Units
pH	7.3	pH units
Conductivity	36.6	uS/cm
Dissolved Oxygen	10.63	mg/L
Temperature	10.93	°C
Turbidity	0.3	NTU
Copper	0.19	ug/L
Iron	0.02	mg/L
Lead	0.02	ug/L
Zinc	<0.2	ug/L
Chloride	1.45	mg/L
Phosphorous (Total)	0.004	mg/L
Nitrate	0.04	mg/L
Nickel	0.13	ug/L

Substrate

Dominant Substrate	large pebble
2nd Dominant Substrate	small cobble
Surrounding Material	small pebble
Embeddedness	unembedded
Median Particle Size	5.85 cm
Geometric Mean Particle Size	5.70 cm
Photo of Substrate	
<small>Substrate Size Class Categories: Organic cover; Sand/silt/clay (< 0.1 cm); Coarse sand (0.1 - 0.2 cm); Gravel (0.2 - 1.6 cm); Small pebble (1.6 - 3.2 cm); Large pebble (3.2 - 6.4 cm); Small cobble (6.4 - 12.8 cm); Large cobble (12.8 - 25.6 cm); Boulder (> 25.6 cm); Bedrock.</small>	