

Tom Joe Brook at Access Road

NF02YO0196

CENTRAL



Site Description

Site Code	NF02YO0196
Name	Tom Joe Brook
Date Sampled	Sept. 16, 2010
Ecoregion(s)	Central Newfoundland
Stream Order	4
Basin	Exploits River
Sampled By	NL
Accessibility	Sampled upstream of bridge, 21.5 km west of pulp and paper mill bridge at Grand Falls.

Reach Data

Reach Characteristics			
Riffle	Rapid	Straight Run	Pool
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		1-5 mm thick	

Channel Data

Bankful Width	21.5 m
Wetted Width	18.9 m
Avg. Velocity	0.3 m/s
Max. Velocity	0.42 m/s
Avg. Channel Depth	16.17 cm
Max. Channel Depth	22.5 cm
Bankfull-Wetted Depth	60 cm
Slope	0.02 m/m

Water Chemistry

Parameter	Value	Units
pH	7.15	pH units
Conductivity	32.9	uS/cm
Dissolved Oxygen	9.72	mg/L
Temperature	14.43	°C
Turbidity	0.5	NTU
Copper	0.21	ug/L
Iron	0.1	mg/L
Lead	0.02	ug/L
Zinc	1.0	ug/L
Chloride	1.24	mg/L
Phosphorous (Total)	0.004	mg/L
Nitrate	<0.02	mg/L
Nickel	0.68	ug/L

Substrate

Dominant Substrate	small cobble
2nd Dominant Substrate	large pebble
Surrounding Material	coarse sand
Embeddedness	1/4 embedded
Median Particle Size	8.0 cm
Geometric Mean Particle Size	8.2 cm

Photo of Substrate



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.