

Tributary to Buchans Brook

NF02YN0045

CENTRAL



Site Description

Site Code	NF02YN0045
Name	Tributary to Buchans Brook
Date Sampled	Sept. 14, 2010
Ecoregion(s)	Long Range Mountains/Central Nfld
Stream Order	4
Basin	Exploits River
Sampled By	NL
Accessibility	Sampled upstream of bridge on trailway, 1.8 km off of access road to Buchans airstrip.

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		0 %	
Macrophyte Coverage		0 %	
Periphyton Coverage		<0.5 mm thick	


Channel Data

Bankful Width	32.0 m
Wetted Width	31.6 m
Avg. Velocity	0.36 m/s
Max. Velocity	0.58 m/s
Avg. Channel Depth	11.75 cm
Max. Channel Depth	14.00 cm
Bankfull-Wetted Depth	50 cm
Slope	0.016 m/m

Water Chemistry

Parameter	Value	Units
pH	6.96	pH units
Conductivity	24.3	uS/cm
Dissolved Oxygen	10.61	mg/L
Temperature	10.3	°C
Turbidity	0.7	NTU
Copper	0.17	ug/L
Iron	0.61	mg/L
Lead	0.09	ug/L
Zinc	0.7	ug/L
Chloride	1.22	mg/L
Phosphorous (Total)	0.003	mg/L
Nitrate	<0.02	mg/L
Nickel	2.24	ug/L

Substrate

Dominant Substrate	large pebble
2nd Dominant Substrate	small cobble
Surrounding Material	coarse sand
Embeddedness	unembedded
Median Particle Size	5.75 cm
Geometric Mean Particle Size	6.40 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>	