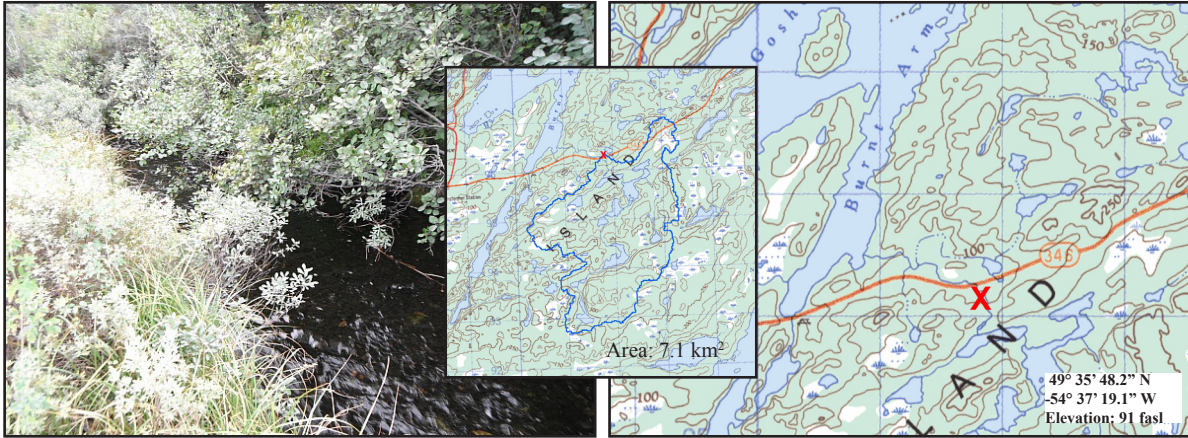


Burnt Arm Brook at Route 346

NF02YO0197

CENTRAL



Site Description

Site Code	NF02YO0197
Name	Burnt Arm Brook
Date Sampled	Sept. 15, 2011
Ecoregion(s)	Northeastern Newfoundland
Stream Order	2
Basin	Notre Dame Bay - Exploits
Sampled By	NL/EC
Accessibility	Sampled upstream of culverted crossing, Route 346 on New World Island.

Reach Data

Reach Characteristics			
Riffle	Rapid	Straight Run	Pool
X			
Surrounding Vegetation (D=dominant)			
Ferns/Grasses	Shrubs	Deciduous Trees	Coniferous Trees
X (D)	X	X	X
Canopy Coverage		51-75 %	
Macrophyte Coverage		1-25 %	
Periphyton Coverage		0.5-1 mm thick	


Channel Data

Bankful Width	5 m
Wetted Width	2.1 m
Avg. Velocity	0.46 m/s
Max. Velocity	0.59 m/s
Avg. Channel Depth	15.33 cm
Max. Channel Depth	17.00 cm
Bankfull-Wetted Depth	60 cm
Slope	0.003 m/m

Water Chemistry

Parameter	Value	Units
pH	6.62	pH units
Conductivity	63.3	uS/cm
Dissolved Oxygen	9.58	mg/L
Temperature	17.39	°C
Turbidity	0	NTU
Copper	0.24	ug/L
Iron	0.15	mg/L
Lead	0.04	ug/L
Zinc	0.64	ug/L
Chloride	12.36	mg/L
Phosphorous (Total)	0.004	mg/L
Nitrate	<0.02	mg/L
Nickel	1.08	ug/L

Substrate

Dominant Substrate	small pebble
2nd Dominant Substrate	large pebble
Surrounding Material	gravel
Embeddedness	unembedded
Median Particle Size	3.0 cm
Geometric Mean Particle Size	3.2 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>	