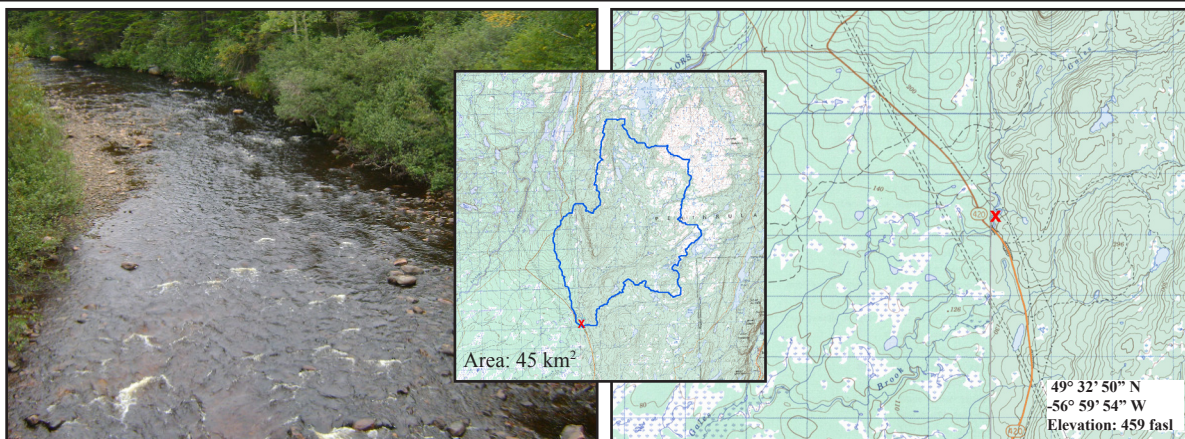


# Gales Brook at Route 420

NF02YL0097

WESTERN



## Site Description

Site Code	NF02YL0097
Name	Gale's Brook
Date Sampled	Sept. 22, 2010
Ecoregion(s)	Central Newfoundland/Northern Pen.
Stream Order	3
Basin	Humber River
Sampled By	NL/EC
Accessibility	Sampled upstream of culverted crossing at Route 420

## 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
<b>Canopy Coverage</b>		0 %	
<b>Macrophyte Coverage</b>		0 %	
<b>Periphyton Coverage</b>		0.5-1 mm thick	


## Channel Data

Bankful Width	17.4 m
Wetted Width	14.4 m
Avg. Velocity	0.67 m/s
Max. Velocity	1.15 m/s
Avg. Channel Depth	16.83 cm
Max. Channel Depth	24 cm
Bankfull-Wetted Depth	60 cm
Slope	0.018 m/m

## Water Chemistry

Parameter	Value	Units
pH	6.70	pH units
Conductivity	30.1	uS/cm
Dissolved Oxygen	10.38	mg/L
Temperature	10.58	°C
Turbidity	0	NTU
Copper	0.47	ug/L
Iron	0.51	mg/L
Lead	0.14	ug/L
Zinc	0.8	ug/L
Chloride	3.27	mg/L
Phosphorous (Total)	0.005	mg/L
Nitrate	<0.02	mg/L
Nickel	2.12	ug/L

## Substrate

Dominant Substrate	small cobble
2nd Dominant Substrate	large pebble
Surrounding Material	gravel
Embeddedness	1/4 embedded
Median Particle Size	7.0 cm
Geometric Mean Particle Size	6.3 cm
Photo of Substrate	
<small>Substrate Size Class Categories: Organic cover; Sand/silt/clay (&lt; 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 (&gt; 25.6 cm); Bedrock.</small>	