

# Three Island Pond Outflow at Buckingham Drive

NF02ZM0366

EASTERN



## Site Description

|               |  |
|---------------|--|
| Site Code     | NF02ZM0366   |
| Name          | Three Island Pond Outflow                                      |
| Date Sampled  | Sept. 14, 2012   |
| Ecoregion(s)  | Maritime Barrens   |
| Stream Order  | 3  |
| Basin         | Topsail Pond   |
| Sampled By    | NL   |
| Accessibility | Sampled u/s of culverted crossing on Buckingham Drive, Topsail |

## Reach Data

| Reach Characteristics               |        |                 |                  |
|-------------------------------------|--------|-----------------|------------------|
| Riffle                              | Rapid  | Straight Run    | Pool             |
| X                                   |        | X               |                  |
| Surrounding Vegetation (D=dominant) |        |                 |                  |
| Ferns/Grasses                       | Shrubs | Deciduous Trees | Coniferous Trees |
| X(D)                                | X      | X               | X                |
| <b>Canopy Coverage</b>              |        | 1-25 %          |                  |
| <b>Macrophyte Coverage</b>          |        | 0 %             |                  |
| <b>Periphyton Coverage</b>          |        | 1-5 mm thick    |                  |


## Channel Data

|                       |           |
|-----------------------|-----------|
| Bankful Width         | 9.63 m    |
| Wetted Width          | 5.20 m    |
| Avg. Velocity         | 0.39 m/s  |
| Max. Velocity         | 0.49 m/s  |
| Avg. Channel Depth    | 15.9 cm   |
| Max. Channel Depth    | 23.0 cm   |
| Bankfull-Wetted Depth | 35 cm     |
| Slope                 | 0.009 m/m |

## Water Chemistry

| Parameter           | Value | Units    |
|---------------------|-------|----------|
| pH                  | 6.91  | pH units |
| Conductivity        | 101   | uS/cm    |
| Dissolved Oxygen    | 9.4   | mg/L     |
| Temperature         | 17.86 | °C       |
| Turbidity           | 0.6   | NTU      |
| Copper              | 0.26  | ug/L     |
| Iron                | 0.07  | mg/L     |
| Lead                | 0.06  | ug/L     |
| Zinc                | 0.55  | ug/L     |
| Chloride            | 24.29 | mg/L     |
| Phosphorous (Total) | 0.007 | mg/L     |
| Nitrate             | <0.02 | mg/L     |
| Nickel              | 0.32  | ug/L     |

## Substrate

|   |   |
|---|---|
| Dominant Substrate  | large pebble  |
| 2nd Dominant Substrate  | small cobble  |
| Surrounding Material  | gravel  |
| Embeddedness  | unembedded  |
| Median Particle Size  | 5.25 cm   |
| Geometric Mean Particle Size  | 5.30 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> |   |