



## Baxter Creek Surficial Geology

### Primary Materials Around the Baxter Creek Watershed

Map created by: Samuel Pethick. With contributions from Jordan Tishler and Kris Lebert. In a collaboration between the BCWA and Fleming College GIS

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Source Statement: Road and Rail data from Geogratis Canvec Database 2023; Municipal and Watershed boundaries from Geohub 2023; Place names from OSM 2023; Waterbody and River data from Geohub 2023; Surficial Geology from the Ontario Geological Survey (OGS) 2023.

Baxter Creek is one of 12 sub-watersheds that is a part of the Otonabee river watershed, which flows through Peterborough, Ontario. Baxter Creek spans 4 municipalities, most prominently the Township of Cavan-Monaghan. It also intersects, the City of Kawartha Lakes, The Municipality of Clarington, and The Township of Otonabee-South Monaghan.

This map gives an overview of the primary surficial geological materials found in and around the Baxter Creek Sub-watershed. This Map is an update to the geology map made in phase 1 of the BCWA's collaboration with Fleming College GeoCommunity. It includes an increased extent so that it can be used in the field in more areas than the previous version. The place labels give content about location, for the same reason the roads, rail, water features, municipal boundaries, and watershed boundaries in the region have been added for further context. A world hill shade is also added to give the viewer an idea of the texture of the landscape. Geological information is important in ecology and watershed conservation making this map a useful reference for the BCWA but also a good educational tool for the public.

The Baxter Creek Watershed includes mostly sandy deposits, but features significant alluvial deposits along the water. The watershed also contains a large amount of Diamicton which is like an amalgamation of many types of geology. Organic deposits are aptly named due to their being formed from animal remains, and is significantly present along Squirrel Creek and the Otonabee River, as well as parts of Cavan Creek. Finally there is a very small amount of primarily Gravelly deposits found in the area of Baxter Creek.

This information in the hands of a professional is very useful as it can aid in the understanding of Baxter Creek and the health of its watershed. By producing this map the BCWA hopes that it will be a good reference to someone who shares in their ideal of preserving the waters of Baxter Creek and hopes to expand its efforts in community connections and citizen science.

### Legend

- |                        |                   |
|------------------------|-------------------|
| Watershed              | Arterial          |
| Neighbouring Watershed | Local - Strata    |
| Municipal Boundaries   | Local - Streets   |
| Rail                   | Waterbody         |
| Roads                  | Watercourse       |
| Expressway-Highway     | <b>Geology</b>    |
| Freeway                | Alluvial Deposits |
| Ramp                   | Diamicton         |
| Collector              | Gravelly Deposits |
|                        | Organic deposits  |
|                        | Sandy Deposits    |

Scale: 1:25,000  
Projected in NAD1983, UTM 17

