



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 Geomatics 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 to further context. A world hill shade is also added to give a visual sense of the terrain at a larger scale. 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 Diamictite 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 expands its efforts in community connections and citizen science.

Legend

	Rail	Roads	Expressway-Highway	Freeway	Ramp	Collector	Aarterial	Local - Strata	Local - Streets	Water Features	Watercourse	Waterbody
Boundaries												
Municipal Boundaries												
Baxter Creek Watershed												
Neighbouring Watershed												
Oak Ridges Moraine Boundary												
Geology												
Primary Material												
Alluvial Deposits												
Sand												
Gravel Deposits												
Organic Deposits												
Sandy Deposits												

Scale: 1:25,000
Projected in NAD1983, UTM 17
1 0.5 0 1 2 3 4 Kilometres

