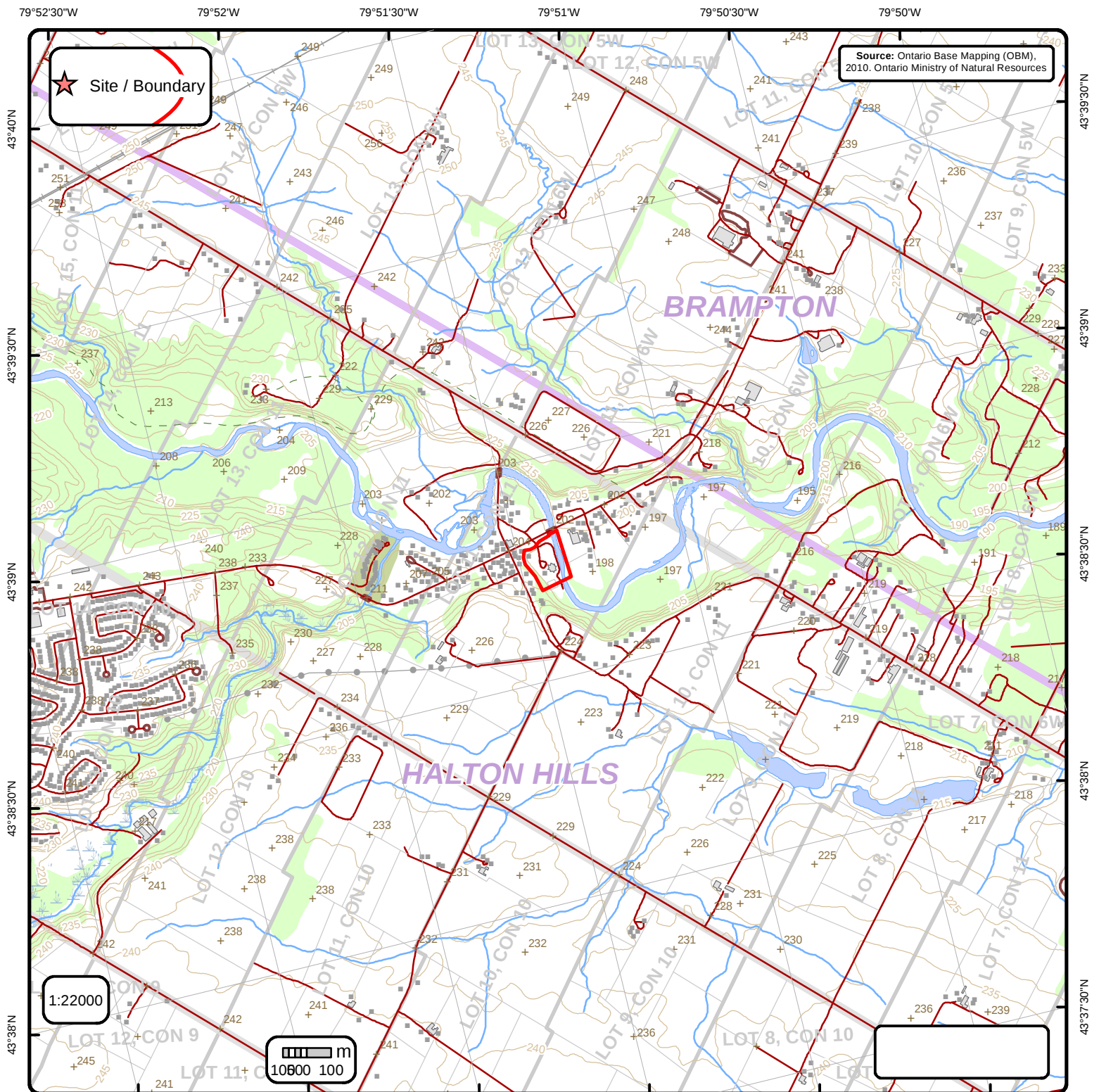


APPENDIX E

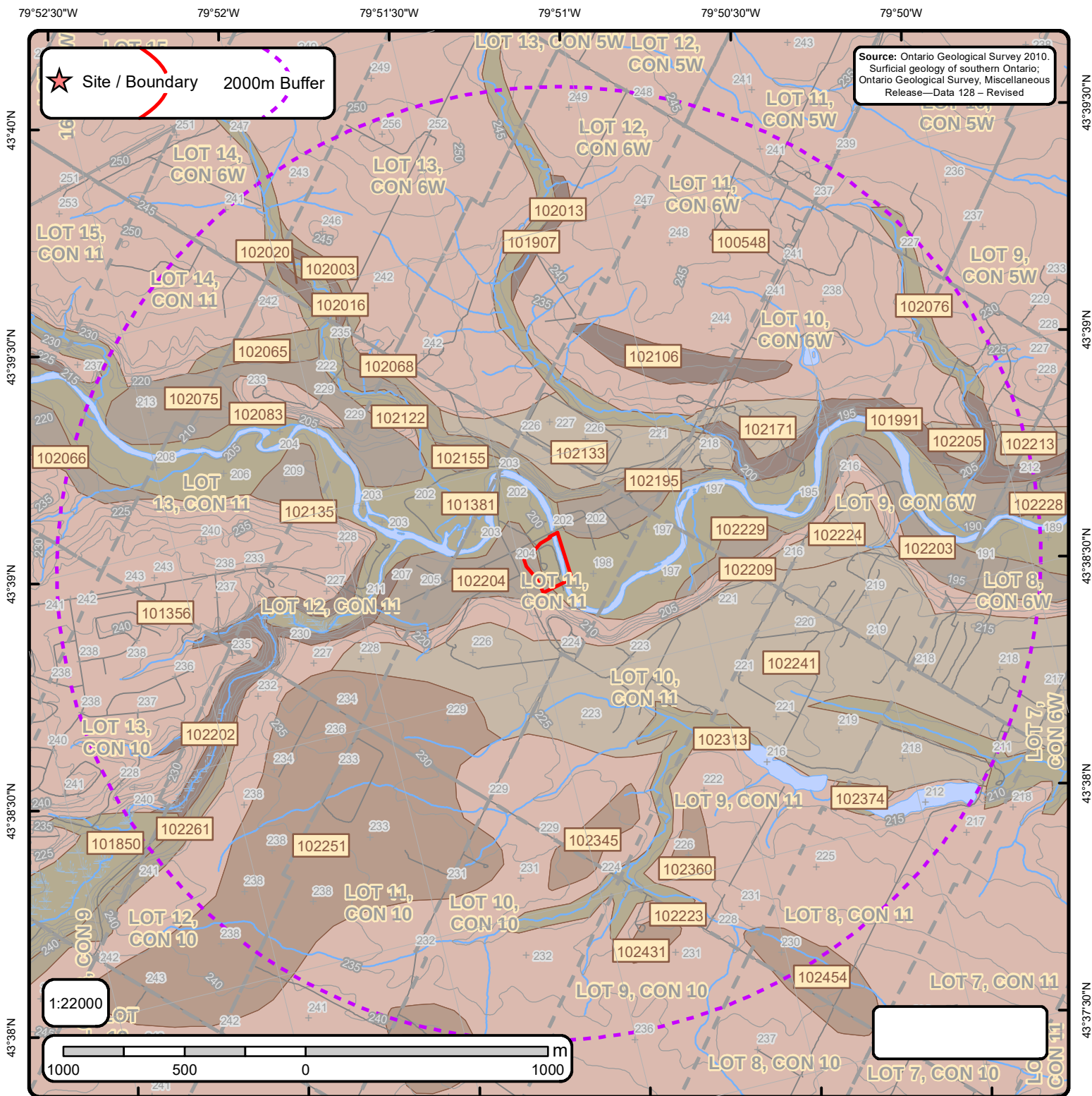
Physical Setting Maps



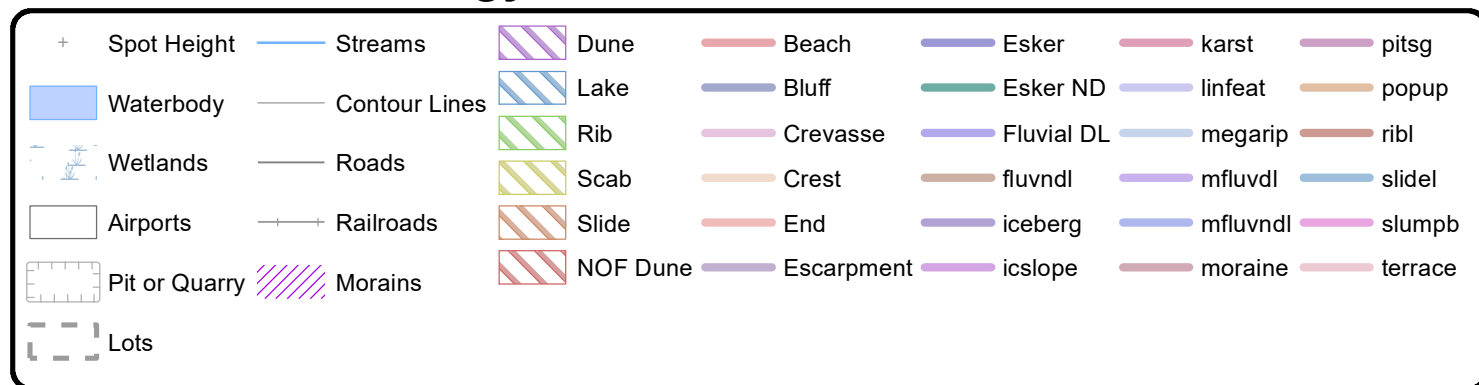
Ontario Base Mapping (OBM) Data

Order No. 25050800644

+	Spot Height (metre)	—	Transportation Structure	—	Contour Line	■	Wooded Area
■	Building Point	—	Utility Line	■	Pit or Quarry	■	Conservation Authority
⚡	Towers	—	Water Structure	■	Waterbody	■	Conservation Area
●	Utility Site Point	—	Drainage Line Feature	■	Wetlands	■	Municipal Park
—	Misc. Line	—	River or Stream	■	Concession	■	Provincial Park
—	Railroads	■	Airports	■	Lots	■	National Park
—	Roads	■	Tanks	■	Municipality	■	Nature Reserve
- - -	Trail	■	Building to Scale	■	Land Ownership		



The Surficial Geology of Southern Ontario Order No. 25050800644



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ID: 100548 | **Unit Name:** Halton Till |
Deposit Type Code: 5 | **Deposit Age:** Late Wisconsinan | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000
| **Primary Material:** diamicton | **Primary Material Modifier:** clayey silt to silt | **Secondary Material:** | **Primary General:** glacial |
Primary General Modifier: | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** Port Huron | **Stratus Modifier:**
Surface | **Provenance:** Ontario | **Carbon Content:** medium | **Formation:** Halton Till | **Permeability:** Low | **Material Description:** Red To
Brown Gritty Silt To Clayey Silt Till

ID: 101356 | **Unit Name:** Halton Till |
Deposit Type Code: 5 | **Deposit Age:** Late Wisconsinan | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000
| **Primary Material:** diamicton | **Primary Material Modifier:** clayey silt to silt | **Secondary Material:** | **Primary General:** glacial |
Primary General Modifier: | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** Port Huron | **Stratus Modifier:**
Surface | **Provenance:** Ontario | **Carbon Content:** medium | **Formation:** Halton Till | **Permeability:** Low | **Material Description:** Red To
Brown Gritty Silt To Clayey Silt Till

ID: 101381 | **Unit Name:** Modern Alluvium |
Deposit Type Code: 16 | **Deposit Age:** Recent | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 |
Primary Material: clay, silt, sand, gravel | **Primary Material Modifier:** organic-bearing | **Secondary Material:** | **Primary General:** fluvial
| **Primary General Modifier:** modern floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface
| **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Undifferentiated Gravel, Sand, Silt,
Clay, Muck

ID: 101850 | **Unit Name:** Modern Alluvium |
Deposit Type Code: 16 | **Deposit Age:** Recent | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 |
Primary Material: clay, silt, sand, gravel | **Primary Material Modifier:** organic-bearing | **Secondary Material:** | **Primary General:** fluvial
| **Primary General Modifier:** modern floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface
| **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Undifferentiated Gravel, Sand, Silt,
Clay, Muck

ID: 101907 | **Unit Name:** Modern Alluvium |
Deposit Type Code: 16 | **Deposit Age:** Recent | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 |
Primary Material: clay, silt, sand, gravel | **Primary Material Modifier:** organic-bearing | **Secondary Material:** | **Primary General:** fluvial
| **Primary General Modifier:** modern floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface
| **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Undifferentiated Gravel, Sand, Silt,
Clay, Muck

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ID: 101991 | **Unit Name:** Bedrock |
Deposit Type Code: 1 | **Deposit Age:** Paleozoic | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 |
Primary Material: Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Exposed Or Thin Drift Covered Shale And Dolostone

ID: 102003 | **Unit Name:** Outwash Deposits |
Deposit Type Code: 8 | **Deposit Age:** Late Wisconsinian | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 |
Primary Material: gravel | **Primary Material Modifier:** | **Secondary Material:** sand | **Primary General:** glaciofluvial | **Primary General Modifier:** proglacial outwash | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Predominantly Gravel

ID: 102013 | **Unit Name:** Bedrock |
Deposit Type Code: 1 | **Deposit Age:** Paleozoic | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 |
Primary Material: Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Exposed Or Thin Drift Covered Shale And Dolostone

ID: 102016 | **Unit Name:** Bedrock |
Deposit Type Code: 1 | **Deposit Age:** Paleozoic | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 |
Primary Material: Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Exposed Or Thin Drift Covered Shale And Dolostone

ID: 102020 | **Unit Name:** Bedrock |
Deposit Type Code: 1 | **Deposit Age:** Paleozoic | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 |
Primary Material: Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Exposed Or Thin Drift Covered Shale And Dolostone

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ID: 102065 | **Unit Name:** Outwash Deposits |
Deposit Type Code: 8 | **Deposit Age:** Late Wisconsinian | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000
| **Primary Material:** gravel | **Primary Material Modifier:** | **Secondary Material:** sand | **Primary General:** glaciofluvial | **Primary General Modifier:** proglacial outwash | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface
| **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Predominantly Gravel

ID: 102066 | **Unit Name:** Older Terrace Alluvium |
Deposit Type Code: 14 | **Deposit Age:** Late Wisconsinian | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 | **Primary Material:** sand, gravel | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** fluvial | **Primary General Modifier:** abandoned floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Poorly Sorted, Dirty, Sand And Gravel

ID: 102068 | **Unit Name:** Outwash Deposits |
Deposit Type Code: 8 | **Deposit Age:** Late Wisconsinian | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000
| **Primary Material:** gravel | **Primary Material Modifier:** | **Secondary Material:** sand | **Primary General:** glaciofluvial | **Primary General Modifier:** proglacial outwash | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface
| **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Predominantly Gravel

ID: 102075 | **Unit Name:** Older Terrace Alluvium |
Deposit Type Code: 14 | **Deposit Age:** Late Wisconsinian | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 | **Primary Material:** sand, gravel | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** fluvial | **Primary General Modifier:** abandoned floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Poorly Sorted, Dirty, Sand And Gravel

ID: 102076 | **Unit Name:** Modern Alluvium |
Deposit Type Code: 16 | **Deposit Age:** Recent | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 | **Primary Material:** clay, silt, sand, gravel | **Primary Material Modifier:** organic-bearing | **Secondary Material:** | **Primary General:** fluvial | **Primary General Modifier:** modern floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Undifferentiated Gravel, Sand, Silt, Clay, Muck

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ID: 102083 | **Unit Name:** Halton Till |
Deposit Type Code: 5 | **Deposit Age:** Late Wisconsinan | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000
| **Primary Material:** diamicton | **Primary Material Modifier:** clayey silt to silt | **Secondary Material:** | **Primary General:** glacial |
Primary General Modifier: | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** Port Huron | **Stratus Modifier:**
Surface | **Provenance:** Ontario | **Carbon Content:** medium | **Formation:** Halton Till | **Permeability:** Low | **Material Description:** Red To
Brown Gritty Silt To Clayey Silt Till

ID: 102091 | **Unit Name:** Older Terrace Alluvium |
Deposit Type Code: 14 | **Deposit Age:** Late Wisconsinan | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50
000 | **Primary Material:** sand, gravel | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** fluvial | **Primary
General Modifier:** abandoned floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Poorly Sorted, Dirty, Sand And
Gravel

ID: 102106 | **Unit Name:** Bedrock |
Deposit Type Code: 1 | **Deposit Age:** Paleozoic | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 |
Primary Material: Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General
Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Exposed Or Thin Drift Covered
Shale And Dolostone

ID: 102122 | **Unit Name:** Halton Till |
Deposit Type Code: 5 | **Deposit Age:** Late Wisconsinan | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000
| **Primary Material:** diamicton | **Primary Material Modifier:** clayey silt to silt | **Secondary Material:** | **Primary General:** glacial |
Primary General Modifier: | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** Port Huron | **Stratus Modifier:**
Surface | **Provenance:** Ontario | **Carbon Content:** medium | **Formation:** Halton Till | **Permeability:** Low | **Material Description:** Red To
Brown Gritty Silt To Clayey Silt Till

ID: 102133 | **Unit Name:** Deltaic And Lacustrine Deposits |
Deposit Type Code: 11 | **Deposit Age:** Late Wisconsinan | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000
| **Primary Material:** sand, gravel | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** glaciolacustrine | **Primary
General Modifier:** deltaic | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Gravel To Gravelly Sand

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ID: 102135 | **Unit Name:** Older Terrace Alluvium |
Deposit Type Code: 14 | **Deposit Age:** Late Wisconsinan | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 | **Primary Material:** sand, gravel | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** fluvial | **Primary General Modifier:** abandoned floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Poorly Sorted, Dirty, Sand And Gravel

ID: 102155 | **Unit Name:** Older Terrace Alluvium |
Deposit Type Code: 14 | **Deposit Age:** Late Wisconsinan | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 | **Primary Material:** sand, gravel | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** fluvial | **Primary General Modifier:** abandoned floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Poorly Sorted, Dirty, Sand And Gravel

ID: 102171 | **Unit Name:** Deltaic And Lacustrine Deposits |
Deposit Type Code: 11 | **Deposit Age:** Late Wisconsinan | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 | **Primary Material:** sand, gravel | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** glaciolacustrine | **Primary General Modifier:** deltaic | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Gravel To Gravelly Sand

ID: 102195 | **Unit Name:** Older Terrace Alluvium |
Deposit Type Code: 14 | **Deposit Age:** Late Wisconsinan | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 | **Primary Material:** sand, gravel | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** fluvial | **Primary General Modifier:** abandoned floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Poorly Sorted, Dirty, Sand And Gravel

ID: 102202 | **Unit Name:** Bedrock |
Deposit Type Code: 1 | **Deposit Age:** Paleozoic | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 | **Primary Material:** Paleozoic Bedrock | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** | **Primary General Modifier:** | **Veneer:** clay, silt, sand, gravel, diamicton | **Episode:** | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Exposed Or Thin Drift Covered Shale And Dolostone

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ID: 102203 | **Unit Name:** Older Terrace Alluvium |
Deposit Type Code: 14 | **Deposit Age:** Late Wisconsinan | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 | **Primary Material:** sand, gravel | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** fluvial | **Primary General Modifier:** abandoned floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Poorly Sorted, Dirty, Sand And Gravel

ID: 102204 | **Unit Name:** Older Terrace Alluvium |
Deposit Type Code: 14 | **Deposit Age:** Late Wisconsinan | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 | **Primary Material:** sand, gravel | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** fluvial | **Primary General Modifier:** abandoned floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Poorly Sorted, Dirty, Sand And Gravel

ID: 102205 | **Unit Name:** Deltaic And Lacustrine Deposits |
Deposit Type Code: 11 | **Deposit Age:** Late Wisconsinan | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 | **Primary Material:** sand, gravel | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** glaciolacustrine | **Primary General Modifier:** deltaic | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Gravel To Gravelly Sand

ID: 102209 | **Unit Name:** Halton Till |
Deposit Type Code: 5 | **Deposit Age:** Late Wisconsinan | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 | **Primary Material:** diamicton | **Primary Material Modifier:** clayey silt to silt | **Secondary Material:** | **Primary General:** glacial | **Primary General Modifier:** | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** Port Huron | **Stratus Modifier:** Surface | **Provenance:** Ontario | **Carbon Content:** medium | **Formation:** Halton Till | **Permeability:** Low | **Material Description:** Red To Brown Gritty Silt To Clayey Silt Till

ID: 102213 | **Unit Name:** Deltaic And Lacustrine Deposits |
Deposit Type Code: 11 | **Deposit Age:** Late Wisconsinan | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 | **Primary Material:** sand, gravel | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** glaciolacustrine | **Primary General Modifier:** deltaic | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Gravel To Gravelly Sand

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ID: 102223 | **Unit Name:** Halton Till |
Deposit Type Code: 5 | **Deposit Age:** Late Wisconsinan | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000
| **Primary Material:** diamicton | **Primary Material Modifier:** clayey silt to silt | **Secondary Material:** | **Primary General:** glacial |
Primary General Modifier: | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** Port Huron | **Stratus Modifier:**
Surface | **Provenance:** Ontario | **Carbon Content:** medium | **Formation:** Halton Till | **Permeability:** Low | **Material Description:** Red To
Brown Gritty Silt To Clayey Silt Till

ID: 102224 | **Unit Name:** Deltaic And Lacustrine Deposits |
Deposit Type Code: 11 | **Deposit Age:** Late Wisconsinan | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000
| **Primary Material:** sand, gravel | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** glaciolacustrine | **Primary**
General Modifier: deltaic | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Gravel To Gravelly Sand

ID: 102228 | **Unit Name:** Older Terrace Alluvium |
Deposit Type Code: 14 | **Deposit Age:** Late Wisconsinan | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50
000 | **Primary Material:** sand, gravel | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** fluvial | **Primary**
General Modifier: abandoned floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Poorly Sorted, Dirty, Sand And
Gravel

ID: 102229 | **Unit Name:** Older Terrace Alluvium |
Deposit Type Code: 14 | **Deposit Age:** Late Wisconsinan | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50
000 | **Primary Material:** sand, gravel | **Primary Material Modifier:** | **Secondary Material:** | **Primary General:** fluvial | **Primary**
General Modifier: abandoned floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Poorly Sorted, Dirty, Sand And
Gravel

ID: 102241 | **Unit Name:** Deltaic And Lacustrine Deposits |
Deposit Type Code: 12 | **Deposit Age:** Late Wisconsinan | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50
000 | **Primary Material:** sand | **Primary Material Modifier:** stony, silty | **Secondary Material:** | **Primary General:** glaciolacustrine |
Primary General Modifier: deltaic | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface |
Provenance: | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Predominantly Gravelly Sand And Silty
Sand

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ID: 102251 | **Unit Name:** Glaciolacustrine Deposits |
Deposit Type Code: 10 | **Deposit Age:** Late Wisconsinan | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 | **Primary Material:** clay, silt | **Primary Material Modifier:** | **Secondary Material:** diamicton | **Primary General:** glaciolacustrine | **Primary General Modifier:** foreshore/basinal | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Low | **Material Description:** Massive To Laminated Silt And Clay, May Contain Poorly Sorted Diamicton Layers

ID: 102261 | **Unit Name:** Outwash Deposits |
Deposit Type Code: 8 | **Deposit Age:** Late Wisconsinan | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 | **Primary Material:** gravel | **Primary Material Modifier:** | **Secondary Material:** sand | **Primary General:** glaciofluvial | **Primary General Modifier:** proglacial outwash | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** High | **Material Description:** Predominantly Gravel

ID: 102313 | **Unit Name:** Modern Alluvium |
Deposit Type Code: 16 | **Deposit Age:** Recent | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 | **Primary Material:** clay, silt, sand, gravel | **Primary Material Modifier:** organic-bearing | **Secondary Material:** | **Primary General:** fluvial | **Primary General Modifier:** modern floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Undifferentiated Gravel, Sand, Silt, Clay, Muck

ID: 102345 | **Unit Name:** Glaciolacustrine Deposits |
Deposit Type Code: 10 | **Deposit Age:** Late Wisconsinan | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 | **Primary Material:** clay, silt | **Primary Material Modifier:** | **Secondary Material:** diamicton | **Primary General:** glaciolacustrine | **Primary General Modifier:** foreshore/basinal | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Low | **Material Description:** Massive To Laminated Silt And Clay, May Contain Poorly Sorted Diamicton Layers

ID: 102360 | **Unit Name:** Glaciolacustrine Deposits |
Deposit Type Code: 10 | **Deposit Age:** Late Wisconsinan | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 | **Primary Material:** clay, silt | **Primary Material Modifier:** | **Secondary Material:** diamicton | **Primary General:** glaciolacustrine | **Primary General Modifier:** foreshore/basinal | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:** Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Low | **Material Description:** Massive To Laminated Silt And Clay, May Contain Poorly Sorted Diamicton Layers

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ID: 102374 | **Unit Name:** Modern Alluvium |
Deposit Type Code: 16 | **Deposit Age:** Recent | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50 000 |
Primary Material: clay, silt, sand, gravel | **Primary Material Modifier:** organic-bearing | **Secondary Material:** | **Primary General:** fluvial
| **Primary General Modifier:** modern floodplain | **Veneer:** | **Episode:** Hudson | **Sub Episode:** | **Phase:** | **Stratus Modifier:** Surface
| **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Variable | **Material Description:** Undifferentiated Gravel, Sand, Silt,
Clay, Muck

ID: 102431 | **Unit Name:** Glaciolacustrine Deposits |
Deposit Type Code: 10 | **Deposit Age:** Late Wisconsinan | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50
000 | **Primary Material:** clay, silt | **Primary Material Modifier:** | **Secondary Material:** diamicton | **Primary General:** glaciolacustrine |
Primary General Modifier: foreshore/basinal | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:**
Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Low | **Material Description:** Massive To Laminated Silt
And Clay, May Contain Poorly Sorted Diamicton Layers

ID: 102443 | **Unit Name:** Glaciolacustrine Deposits |
Deposit Type Code: 10 | **Deposit Age:** Late Wisconsinan | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50
000 | **Primary Material:** clay, silt | **Primary Material Modifier:** | **Secondary Material:** diamicton | **Primary General:** glaciolacustrine |
Primary General Modifier: foreshore/basinal | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:**
Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Low | **Material Description:** Massive To Laminated Silt
And Clay, May Contain Poorly Sorted Diamicton Layers

ID: 102454 | **Unit Name:** Glaciolacustrine Deposits |
Deposit Type Code: 10 | **Deposit Age:** Late Wisconsinan | **Map Number:** p3171 | **Map Name:** Brampton | **Source Map Scale:** 1:50
000 | **Primary Material:** clay, silt | **Primary Material Modifier:** | **Secondary Material:** diamicton | **Primary General:** glaciolacustrine |
Primary General Modifier: foreshore/basinal | **Veneer:** | **Episode:** Wisconsin | **Sub Episode:** Michigan | **Phase:** | **Stratus Modifier:**
Surface | **Provenance:** | **Carbon Content:** | **Formation:** | **Permeability:** Low | **Material Description:** Massive To Laminated Silt
And Clay, May Contain Poorly Sorted Diamicton Layers

Surface Geology Report Metadata

Ontario Geological Survey 2010. Surficial geology of southern Ontario;
Ontario Geological Survey, Miscellaneous Release - Data 128 - Revised.
ONTARIO MINISTRY OF NORTHERN DEVELOPMENT, MINES AND FORESTRY



ID - ID applied to the Unit

Unit Name - Name of deposit

Deposit Type Code - The geological unit number taken from the original map legend.

Deposit Age - to show the age when the sediments were deposited, e.g., Wisconsinan, postglacial or recent.

Map Number - Original map series number, eg., 'M2402' or 'P1973'. Each sgu_point feature is tagged to its original map.

Map Name - Usually NTS area where mapping was completed, e.g., 'Golden Lake'

Source Map Scale - The scale at which the original map was captured, e.g., '1:50 000'

Primary Material - This attribute provides the user with information regarding the most prevalent material present within a given area.

Primary Material Modifier - This attribute provides the user with a more refined description of the lithological classification of the primary material.

Secondary Material - This attribute provides the user with information regarding subordinate materials present within a given area.

Primary General - This attribute provides the user with an interpretation of the depositional environment within which the primary material was deposited.

Primary General Modifier - This attribute provides the user with a refined interpretation of the primary genetic modifier.

Veneer - This attribute provides the user with information regarding the type of material that forms a thin, discontinuous veneer over the primary material.

Sub Episode - A diachronic stratigraphic unit in a lower order than Episode and the proposed sequence-stratigraphic classification, consists in descending order of Michigan, Elgin and Ontario in the eastern and northern Great Lakes area in the Wisconsin Episode (Johnson et al. 1997; Karrow et al. 2000).

Sub Episode - A diachronic stratigraphic unit in a lower order than Episode and the proposed sequence-stratigraphic classification, consists in descending order of Michigan, Elgin and Ontario in the eastern and northern Great Lakes area in the Wisconsin Episode (Johnson et al. 1997; Karrow et al. 2000).

Phase - A diachronic stratigraphic unit in a lower order than Subepisode, and the proposed sequence-stratigraphic classification is listed in the following table in the eastern and northern Great Lakes area (Karrow et al. 2000)

Stratus Modifier - This attribute provides the user information regarding the stratigraphic position of the mapped unit (i.e., whether the unit occurs primarily on the surface or in the subsurface).

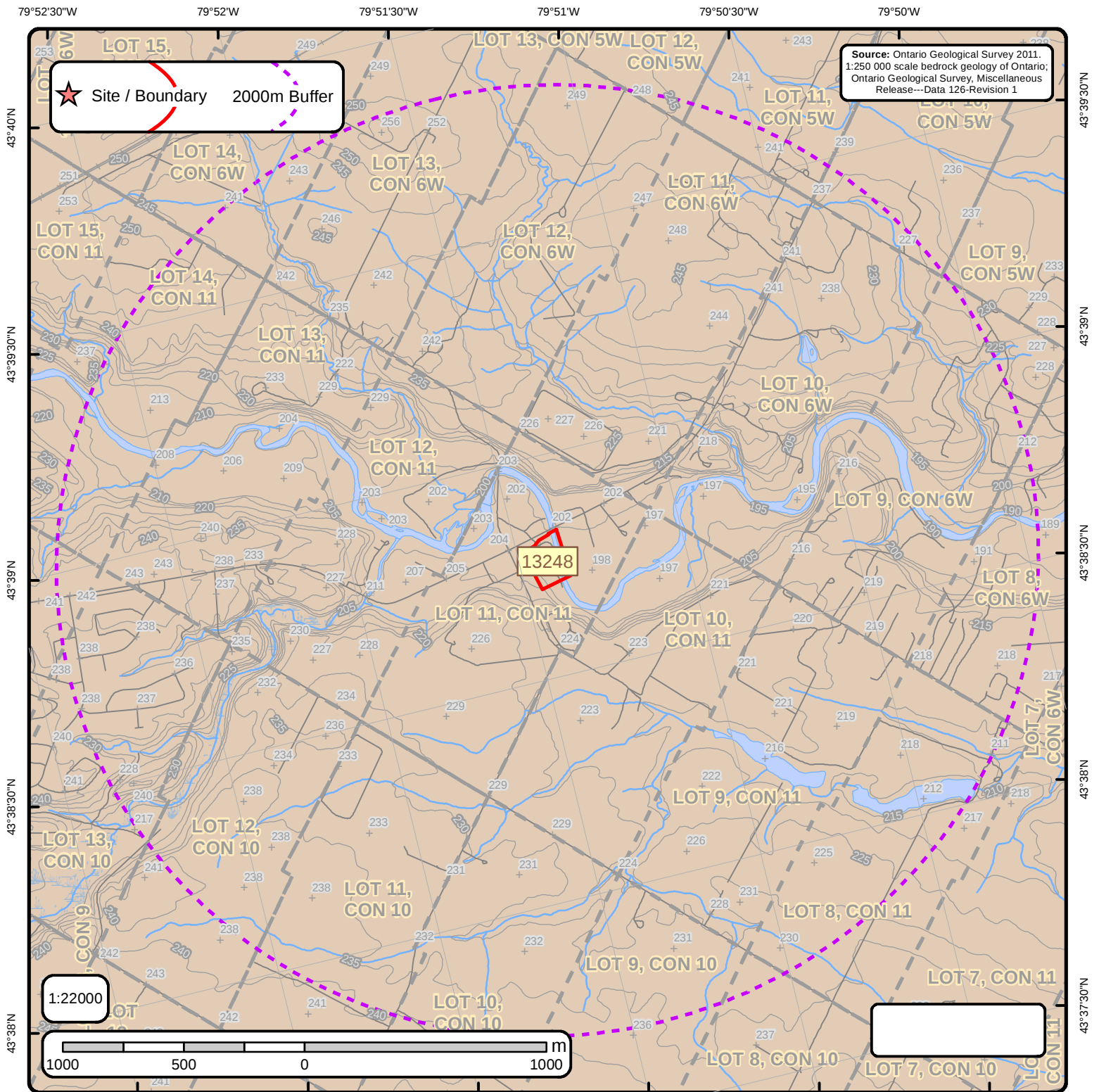
Provenance - This attribute provides the user with information regarding the provenance of a particular till unit (i.e. direction or lobe from which the till is derived).

Carbon Content - This attribute provides the user with information regarding the carbonate content of till.

Formation - This attribute provides the user with information regarding the formation to which a given primary material belongs (e.g., Tavistock Till, Port Stanley Till, Scarborough Formation). This attribute is seamless and allows the user to create a map based on formation.

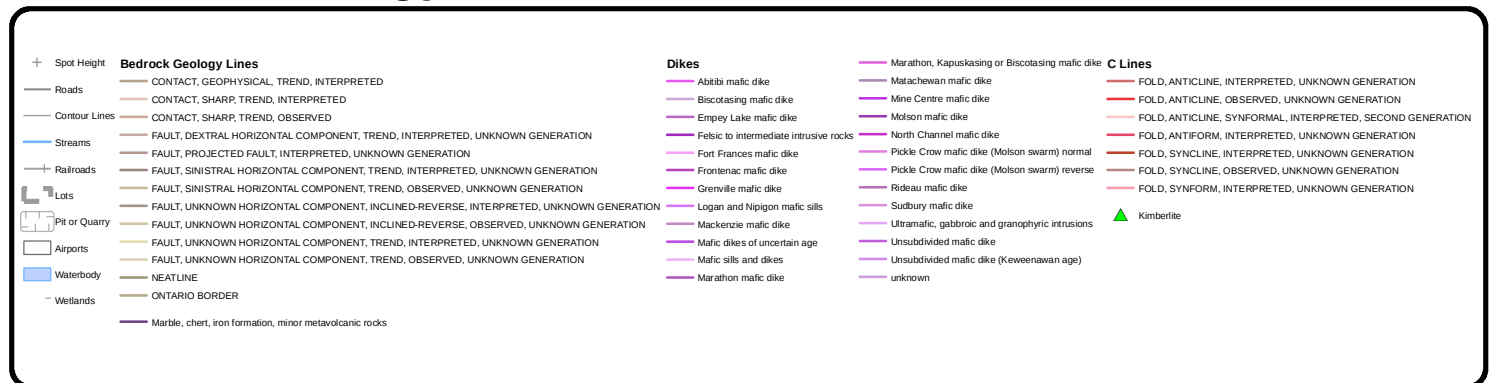
Permeability - This attribute provides the user with basic information about permeability of the sediments in a ranking of high, medium and low.

Material Description - Material or sediment description, e.g., 'sand and silty fine sand', 'silty sand and gravel' and 'silty till with low stone content'.



Bedrock Geology of Ontario

Order No. 25050800644



Bedrock Geology Report

Bedrock Geology units found within 2000 m of
530 Guelph Street

Page 1
Order No.
25050800644



ID: 13248 | **Unit Name:** |
Type (All): 55a | **Type (Primary):** 55a | **Type (Secondary):** | **Type (Tertiary):** | **Rock Type (Primary):** Shale, limestone, dolostone, siltstone | **Strata (Primary):** Queenston Formation | **Super Eon (Primary):** | **Eon (Primary):** PHANEROZOIC (Present to 542.0 Ma) | **Era (Primary):** PALEOZOIC (251.0 Ma to 542.0 Ma) | **Period (Primary):** ORDOVICIAN (443.7 Ma to 488.3 Ma) | **Epoch (Primary):** UPPER ORDOVICIAN | **Province (Primary):**

Bedrock Geology Report Metadata

Ontario Geological Survey 2011. 1:250 000 scale bedrock geology of Ontario; Ontario Geological Survey, Miscellaneous Release-Data 126
Revision1
ONTARIO MINISTRY OF NORTHERN DEVELOPMENT, MINES AND FORESTRY



ID - Unit ID **Unit Name** - Generalized geological unit classification

Type (All) - The geological unit number(s) or code(s) for all rock types present in an individual polygon.

Type (Primary) - The primary geological unit number or code for the primary rock type in an individual polygon

Type (Secondary) - The secondary geological unit number or code for the secondary rock type, if present, in an individual polygon

Type (Tertiary) - The tertiary geological unit number or code for the tertiary rock type, if present, in an individual polygon

Rock Type (Primary) - Rock type or sub-unit description

Status (Primary) - The Stratigraphic unit. Divided into:

Supergroup (two or more groups and lone formations)
Group (two or more formations)
Formation (primary unit of lithostratigraphy)
Member (named lithologic subdivision of a formation)
Bed (named distinctive layer in a member or formation)

Super Eon (Primary) - A name given to the largest defined unit of geological time, divided into Eons. Unique values which this field may contain (Domains) are:

PRECAMBRIAN (0.542 Ga to <3.85 Ga)

Eon (Primary) - A name given to a defined unit of geological time, divided into Eras. Unique values which this field may contain (Domains) are:

ARCHEAN (2.5 Ga to <3.85 Ga)
PROTEROZOIC (0.542 Ga to 2.50 Ga)
PHANEROZOIC (Present to 542.0 Ma)

Era (Primary) - A name given to a defined unit of geological time, divided into Periods. Each era on the scale is separated from the next by a major event or change. Unique values which this field may contain (Domains) are:

MESOARCHEAN (2.8 Ga to 3.2 Ga)	MESOPROTEROZOIC (1.0 Ga to 1.6 Ga)
NEO-TO MESOARCHEAN (2.5 Ga to 3.2 Ga)	EARLY PALEOZOIC TO NEOPROTEROZOIC (443.7 Ma to 1.0 Ga)
NEOARCHEAN (2.5 Ga to 2.8 Ga)	NEO-TO MESOPROTEROZOIC (0.542 Ga to 1.6 Ga)
PALEOPROTEROZOIC (1.6 Ga to 2.5 Ga)	PALEOZOIC (251.0 Ma to 542.0 Ma)
MESO-TO PALEOPROTEROZOIC (1.0 Ga to 2.5 Ga)	MESOZOIC (65.5 Ma to 251.0 Ma)

Period (Primary) - A name given to a defined unit of geological time, divided into Epochs. Unique values which this field may contain (Domains) are:

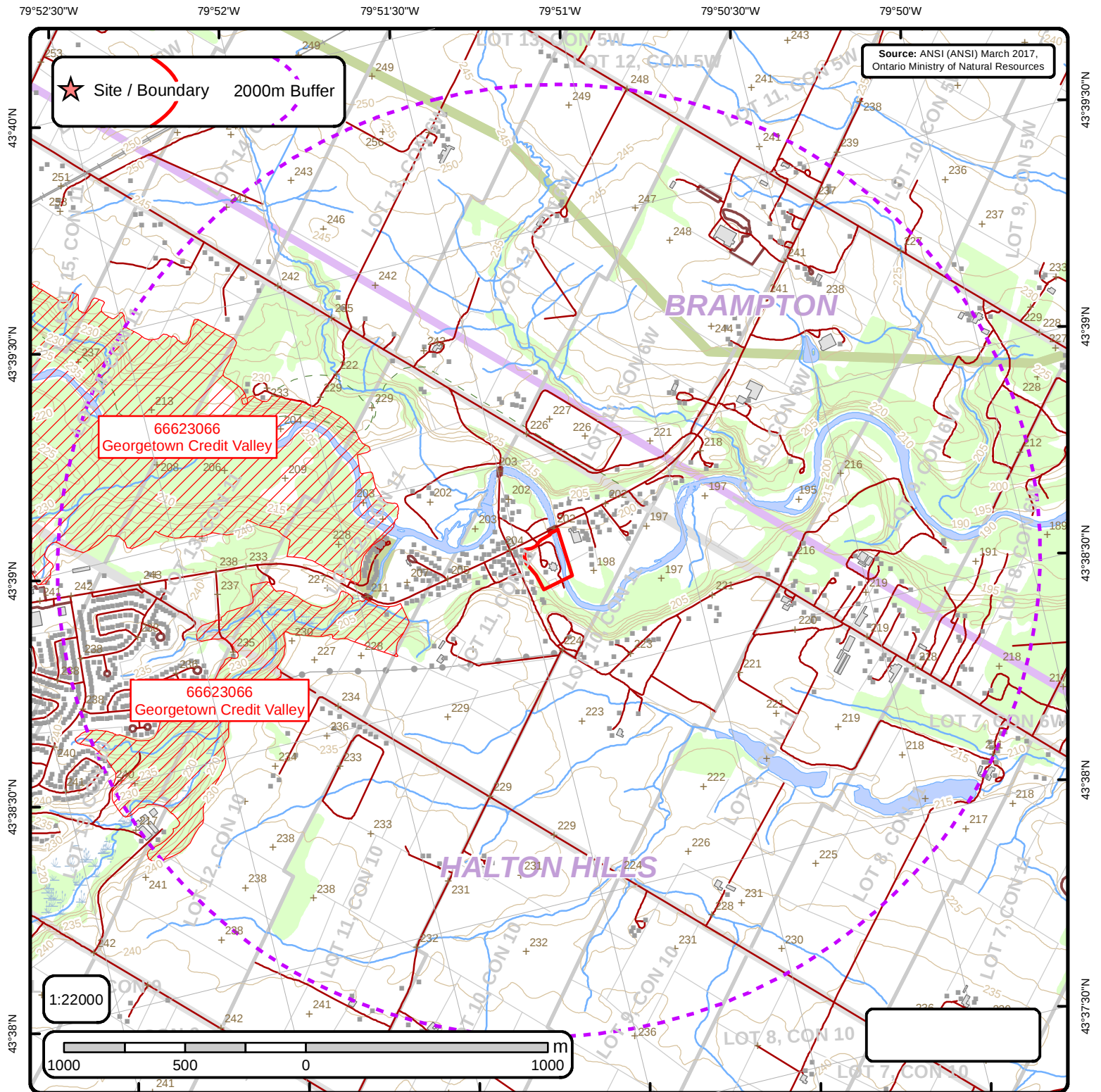
CAMBRIAN (488.3 Ma to 542.0 Ma)
ORDOVICIAN (443.7 Ma to 488.3 Ma)
SILURIAN (416.0 Ma to 443.7 Ma)
DEVONIAN (359.2 Ma to 416.0 Ma)
MISSISSIPPIAN TO DEVONIAN (318.1 Ma to 416.0 Ma)
JURASSIC (145.5 Ma to 199.6 Ma)
CRETACEOUS AND JURASSIC (65.5 Ma to 199.6 Ma)

Epoch (Primary) - A name given to a defined unit of geological time. Unique values which this field may contain (Domains) are:

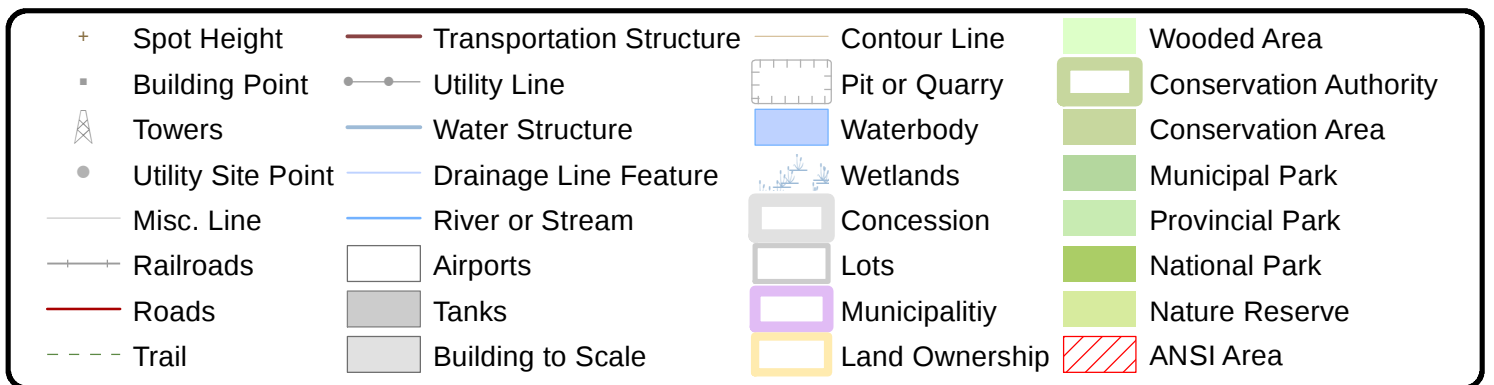
LOWER ORDOVICIAN	UPPER SILURIAN
MIDDLE ORDOVICIAN	LOWER DEVONIAN
UPPER ORDOVICIAN	MIDDLE DEVONIAN
MIDDLE AND LOWER SILURIAN	UPPER DEVONIAN
UPPER SILURIAN TO LOWER DEVONIAN	LOWER CRETACEOUS AND MIDDLE JURASSIC

Province (Primary) - The Geological Province the geological unit is in. Unique values which this field may contain (Domains) are:

SUPERIOR
SOUTHERN
SUPERIOR
GRENVILLE



Area of Natural & Scientific Interest (ANSI) Order No. 25050800644



ANSI Report

ANSI Units Found within 2000 m of
530 Guelph Street

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Order No.
25050800644



ANSI Name: Georgetown Credit Valley

ID: 66623066 | **Type:** ANSI, Life Science | **Significance:** Regional | **Management Plan:** Yes | **Area (sqm):** 2665980.012 | **Comments:**

This mapping represents external boundaries only. Reference should be made to the individual ANSI file for the ANSI inventory (planning section MNR Aurora). Less accurate mapping is available on 1:50,000 white prints?.followed by NHIC'S ANSI 'description'