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The Paleozoic geology of the area is:

<table>
<thead>
<tr>
<th>Analyses</th>
<th>No.</th>
<th>Sand</th>
<th>Silt</th>
<th>Clay</th>
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<tbody>
<tr>
<td>34-37</td>
<td>15</td>
<td>48-73</td>
<td>52-57</td>
<td>58</td>
</tr>
<tr>
<td>11-28</td>
<td>12</td>
<td>40-46</td>
<td>58</td>
<td>93</td>
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</tbody>
</table>

**PEBBLE LITHOLOGY**

<table>
<thead>
<tr>
<th>Lithology</th>
<th>No. of Analyses</th>
<th>Total Percent Ratio</th>
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<tr>
<td>Dolostone</td>
<td>42-43</td>
<td>19.1-20.7</td>
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<tr>
<td>Sandstone</td>
<td>36-75</td>
<td>19.5-21.2</td>
</tr>
<tr>
<td>Shale</td>
<td>53</td>
<td>13-15.8</td>
</tr>
<tr>
<td>Igneous</td>
<td>57</td>
<td>19.9</td>
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<tr>
<td>Metamorphic</td>
<td>72.5</td>
<td>14.0</td>
</tr>
<tr>
<td>PPm</td>
<td>69-107</td>
<td>87</td>
</tr>
</tbody>
</table>

**Till**

Lower, coarser grained tills found in exposures as well as indicated by bore holes in the St. Ontario basin to the southwest and south across the area. The area is underlain from north to south by the following Silurian groups and formations:

- Queenston Formation
- Lockport Formation

**Quaternary Geology**

Other deposits of sand and gravel are small, thin, and limited to the ice margin deltaic, glacial stream, and 750 feet, and by a short beach ridge at 690 feet. Rising of the water exists between Vineland and the western margin of the area mapped. The area mapped includes fine- and coarse-grained material, generally with deeper and shallower water glacial lake sediments at the Niagara Falls Moraine and between Stamford and Port Robinson.

**Bedrock Geology**

Small bedrock outcrop exists between Vineland and the western margin of the area mapped. The area is underlain from north to south by the following groups and formations:

- Queenston Formation
- Lockport Formation

**Correlation**

The Correlation between the ice marginal positions in the area mapped. The area mapped includes fine- and coarse-grained material, generally with deeper and shallower water glacial lake sediments at the Niagara Falls Moraine and between Stamford and Port Robinson.

**Geological Series**

Geological boundary, direction of Ice limiting arrows, includes Glacial striations on Glacial drift, for example Twenty Mile Creek (Jordan Harbour). Streams, for example Twenty Mile Creek (Jordan Harbour).

**Quaternary Geology**

Physiography:

- Baymouth bar at Jordan Harbour.
- Beach deposits.
- Off-shore bars.

**Bedrock Geology**

- Baymouth bar at Jordan Harbour.
- Off-shore bars.

**Geological Series**

- Baymouth bar at Jordan Harbour.
- Off-shore bars.

**Quaternary Geology**

Physiography:

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