

Geology of the Rush Bay quarry, Lake of the Woods greenstone Belt, Ontario

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A three day geological mapping project at the scale of 1:250 was conducted over a 300 m² area in the Rush Bay quarry in the Forgie Township in Ontario. This mapping project was conducted to be a modern contribution to reports within the Forgie Township. The rocks in the Rush Bay quarry comprise a felsic volcanic suite defined by rhyolite composition. The Rush Bay quarry was subjected to two phases of deformation: D₁ is characterised by vertical tilting of the units as a result of north-south crustal shortening, while D₂ is characterised by oblique crosscutting quartz ±carbonate veins. L₂ lineations are characterised by pyroclastic material and statistical data obtain from the pyroclastic material determine a 5:1 ratio of extension in an east-west direction.