MISCELLANEOUS RELEASE—DATA (MRD) 368 METADATA

GENERAL INFORMATION

Official Name of the Data Set or Information Holding:

Geology of the Mount Mollie Dike, Midcontinent Rift, Northwestern Ontario

Acronyms are Used to Identify the Data Set or Information Holding: MRD368

Describe the Data Set or Information Holding:

O'Brien, S., Hollings, P., Miller, J. (authors)

This publication can be downloaded from GeologyOntario: see Distribution Information section.

This digital data release includes lithogeochemical data from 101 field and drill-core samples of the Mount Mollie dike. The Mount Mollie dike is an arcuate, 60 to 350 m wide dike that extends for 35 km, mainly as a series of islands along the northwestern shore of Lake Superior. The dike is part of the 1.1 billion-year-old Midcontinent Rift and was emplaced into the Paleoproterozoic Rove Formation, approximately 50 km south of Thunder Bay. A general description of the units sampled and their geochemistry, as well as a brief interpretation of the data are provided as a Microsoft® Excel® 2013 (.xlsx) workbook and 3 portable document format (.pdf) files, respectively. The data and interpretation presented in this publication represent part of an unpublished Master of Science (MSc) thesis (completed in 2018) by the lead author at Lakehead University, Thunder Bay.

Additional information and metadata are found within a readme file provided with the product.

The Intended Use and Purpose for Collecting the Data Set or Information Holding:

The geochemical analyses and petrographic study described in this publication and the thesis, respectively, are part of a two-year study to petrogenetically characterize the Mount Mollie dike both on surface and at depth. Analytical support was provided by the Ontario Geological Survey (Project Unit 15-009).

The objective of this product is to collect and disseminate geoscience information for Ontario.

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Miscellaneous Release Data

MRD

Mesoproterozoic

Southern Province (Geological)

Lithogeochemistry

Major Elements

Trace Elements

Business Theme:

Geological Survey

Geology

GEOGRAPHIC INFORMATION

Selected geographic type: Bounding Box only

North Bounding Latitude: 48° 04' South Bounding Latitude: 48° 03' West Bounding Longitude: -89° 32' East Bounding Longitude: -89° 28'

Geographic Completeness: irregularly shaped study area - completeness not

available

MAPPING INFORMATION

Grid Coordinate System Used: Universal Transverse Mercator

Map Projection: Transverse Mercator **Horizontal Geodetic Datum:** NAD83

Vertical Datum: Not Applicable

Horizontal Position Accuracy of Features: Precise +/- 5 m **Vertical Position Accuracy of Features:** Precise +/- 5 m

DATA SOURCE INFORMATION

Data Source Type: Includes Bibliographic Information

Describe for the Source Data Contribution: Product includes references to other

sources of information

Data Source Type: Direct Field Collection

Source Data Set Description: Field work conducted in November 2015; drill core

samples collected in January 2015

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METADATA

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