

## MISCELLANEOUS RELEASE—DATA (MRD) 299 METADATA

### GENERAL INFORMATION

**Official Name of the Data Set or Information Holding:**

Geological Mapping and Compilation of the Burntbush–Normétal Volcanic Belt, Abitibi Greenstone Belt, Ontario–Quebec

**Acronyms are Used to Identify the Data Set or Information Holding:** MRD299

**Describe the Data Set or Information Holding:**

Barrett, T.J., Ayer, J.A., Ordóñez-Calderón, J.C., Hamilton, M.A. (authors)

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

This release presents the results of a collaborative project between the Discover Abitibi Initiative and the Ontario Geological Survey to improve the geological database and understanding of the Burntbush (Ontario) to Normétal (Quebec) portion of the Abitibi greenstone belt. A report outlines the project methods and summarizes the results of the project: to define the ages and compositions of the major stratigraphic and intrusive units of the Burntbush–Normétal volcanic belt, to determine their structural setting, and to determine the relation of massive sulphide and local gold mineralization to these units. Through this project, 500 new and 3000 historic (2000 of which come from post-1990 drilling by exploration companies in the Normétal portion of the belt) geochemical analyses have been classified chemically using a combination of major-element chemistry and immobile-element ratios. The main intended user group for this new information is the mineral exploration industry. Report files are provided in portable document format (.pdf), analytical results as Microsoft® Excel® 2003 and 2010 (.xls or .xlsx, respectively) and photographs as .jpg format files.

The products of this study are 1) a report describing the geology of the Burntbush–Normétal volcanic belt and the project methods, results and products; 2) 4 “maps” illustrating the chemical classifications of rocks in the Normétal area; 3) field data collected from mapping the Burntbush and Normétal areas with a detailed structural analysis of the Burntbush area; 4) 500 high-quality whole-rock litho-geochemical analyses; 5) 11 U/Pb zircon ages and 15 whole-rock and 10 zircon-separate neodymium–hafnium (Nd-Hf) isotope analyses from along the length of the belt; 6) 25 sulphur isotope analyses from the Normétal area; 7) 204 thin-section photomicrographs from petrographic examination of samples from the Burntbush and the Normétal areas; 8) 1077 field photographs of samples from the Burntbush and the Normétal areas; and 9) 382 photos of drill core from the Normétal area. Location data are provided in the Universal Transverse Mercator (UTM) projection and grid system, Zone 17, North American Datum 1983 (NAD83).

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:**

Abitibi Greenstone Belt in Ontario. The project has brought together funding partners FedNor, Northern Ontario Heritage Fund Corporation and the private sector to complete projects, which will further stimulate exploration activity and mining in this prolific belt. To support this successful endeavor, user stakeholders have provided the project ideas. The technical expertise to evaluate the projects has been provided by volunteers on the technical and management committees. For further information regarding this initiative, contact the Timmins Economic Development Corporation by email at [tedc@timmins.ca](mailto:tedc@timmins.ca).

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

**CONSTRAINTS FOR USING THE DATA SET**

**Describe any Restrictions and Legal Prerequisites for Accessing the Data Set (Data Privacy/Security):**

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Barrett, T.J., Ayer, J.A., Ordóñez-Calderón, J.C. and Hamilton, M.A. 2013. Geological mapping and compilation of the Burntbush–Normétal volcanic belt, Abitibi greenstone belt, Ontario–Quebec; Ontario Geological Survey, Miscellaneous Release—Data 299.

ISBN 978-1-4606-1453-2(DVD) ISBN 978-1-4606-1452-5 (zip file)

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**Describe any Legislated or Legal Authority for Collecting the Data Set:** N/A

**Select the Level of Privacy for this Metadata Information:** Public

**Time Coverage:** October 1, 2013

**Time Coverage Comments:** Date of Publication.

**Enter or Select the Current Status of the Data Set:** Complete

**Enter or Select the Frequency with which Changes or Additions are Made to the Data Set:** Not Planned

**Enter the retention schedule number:** 9999

**Retention period or description:** MGE

**Keywords:**

Geological Survey

Geology

Ministry of Northern Development and Mines

MNDM

Ontario Geological Survey

OGS

Miscellaneous Release Data

MRD

Abitibi Subprovince (Geological)

Bedrock Geochemistry

Discover Abitibi

Lithogeochemistry  
Northern Ontario  
Superior Province  
VMS Volcanogenic Massive Sulfides

**Business Theme:**  
Geological Survey  
Geology

## GEOGRAPHIC INFORMATION

**Selected geographic type:** Bounding Box only

North Bounding Latitude: 49° 12'  
South Bounding Latitude: 48° 55'  
West Bounding Longitude: -79° 55'  
East Bounding Longitude: -79° 02'

**Geographic Completeness:** irregularly shaped study area - bounding co-ordinates extend into adjacent area of Quebec

## 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:** +/- 10 m  
**Vertical Position Accuracy of Features:** +/- 1 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  
**Time period:** field work conducted in 2010; analytical work conducted and report prepared to March 2012

**Data Source Type:** Other Dataset  
**Source Contribution:** lithogeochemical data: see report for further explanation  
**Time Period:** 2003

**Name of Source Data Set:** Lafrance, B. 2003. Reconstruction d'un environnement de sulfures massifs volcanogènes déformés: exemple archéen de Normétal, Abitibi; unpublished PhD thesis, Université du Québec à Chicoutimi, Chicoutimi, Quebec, 362p.

**Source Data Set Description:** n/a  
**Organization that Created Source Data Set:** n/a

**Data Source Type:** Other Dataset  
**Source Contribution:** lithochemical data: see report for further explanation  
**Time Period:** 2007  
**Name of Source Data Set:** n/a  
**Source Data Set Description:** unpublished company data (geochemical analyses)  
**Organization that Created Source Data Set:** Cogitore Resources Ltd.

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#### **METADATA**

**Date of this Metadata Description/Update:** Sept 13, 2013

**Date when Metadata Should be Reviewed:** December 31, 2016

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