

MRD399 METADATA

GENERAL INFORMATION

Title

Geochemistry and Soil Gas Hydrocarbon Data from a Peat Sampling Transect over Eagle's Nest Nickel-Copper and Blackbird Chromium Deposits, McFaulds Lake ("Ring of Fire") Area, Northern Ontario

Alternate Title

MRD399

Author(s)

Handley, L.A. and Dyer, R.D.

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Abstract

This digital data release provides inorganic (metals) geochemistry and soil gas hydrocarbon data, including quality-control data, for peat samples collected from 13 sites in the McFaulds Lake ("Ring of Fire") area in northern Ontario. The samples were collected along an approximately north-to-south 5 km transect spanning the McFaulds greenstone belt, centred on the Eagle's Nest nickel-copper (Ni-Cu) and Blackbird chromium (Cr) deposits.

The organic peat samples were analyzed for loss-on-ignition (LOI) and soil gas hydrocarbons (SGH), and analyzed using inductively coupled plasma optical emission spectrometry (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS) and instrumental neutron activation analysis (INAA). Quality-control data consists of the results from the analysis of duplicate pairs and internal reference materials and are included in this release. The ICP-MS, ICP-OES and LOI analyses were conducted by the OGS Geoscience Laboratories in Sudbury. The INAA analyses were completed by Becquerel Laboratories in Mississauga. The soil gas hydrocarbon (SGH) analyses were completed by Activation Laboratories Ltd. in Ancaster, Ontario. All location information is presented as Universal Transverse Mercator (UTM) co-ordinates using North American Datum 1983 (NAD83) in Zone 16. Data are available as 6 Microsoft® Excel® (.xlsx) files and are accompanied by supporting documentation in portable document format (.pdf).

Additional information can be found within a readme file provided with the product.

Purpose or Objective

The field work was conducted in the summer of 2012, in conjunction with the three-year McFaulds Lake area regional lake sediment geochemistry survey (see

accompanying readme file for related publications).

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

Keywords

Geological Survey
Geology
Ministry of Mines
MINES
Ontario Geological Survey
OGS
Miscellaneous Release—Data
MRD
Geochemical Geochemistry
Peat
Surficial Geology
Sampling Techniques
Trace Elements
Trace Metals
Mineral Exploration

Business Themes

Geological Survey
Geology

GEOGRAPHIC INFORMATION

Geographic bounding box (decimal degrees)

North bounding latitude:	52.8500°
West bounding longitude:	-86.5500°
East bounding longitude:	-85.8000°
South bounding latitude:	52.5500°

Description of 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:	±100 m
Vertical Position Accuracy of Features:	Not Applicable

DATA SOURCE INFORMATION**Data Source Type and Description**

Includes Bibliographic Information: Product includes references to other sources of information

Data Source Type and Description

Direct Field Collection: Field work conducted during the summer of 2012.

Current Status of the Data: Complete

Frequency of Changes or Additions to be made to the Data: Not Planned

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