

# **MRD009-REVISED METADATA DETAIL PAGE**

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## **GENERAL INFORMATION**

**Official Name of the Data Set or Information Holding:** Lake Sediment Geochemical Survey of the Cow River Area, Batchewana Greenstone Belt

**Acronyms are Used to Identify the Data Set or Information Holding:** MRD009-REV

**Describe the Data Set or Information Holding:** Hamilton, S.M., Fortescue, J.A.C., (authors) A regional lake sediment survey of the Cow River area in the northeastern portion of the Batchawana greenstone belt revealed a prominent anomaly in zinc, cadmium and copper. Coincident with this anomaly were less significantly elevated concentrations of lead, gold and other metals. The anomaly is centred on Percy Lake and trends west for approximately 2 km and east for 8 km. The zinc anomaly, with associated concentrations ranging from 215 to 900 ppm, is the most significant zinc occurrence in lake sediments in the Batchawana greenstone belt, both in terms of magnitude and distribution. The anomaly in cadmium also appears to be the most significant in the belt. The anomalous area straddles a drainage divide and elevated concentrations are noted in numerous small catchments on both sides of the divide. The anomalous catchments all overlie mafic to felsic metavolcanic rocks of a probable age between 2700 and 2730 Ma. Lead, zinc and copper mineral showings are known within 6 km of the anomaly, 2 of which are along strike to the east. The assemblage of anomalous elements in lake sediments is similar to the lithogeochemical signature typical of a volcanogenic massive sulphide (VMS) occurrence. The anomaly is coincident with a weakly conductive airborne electromagnetic anomaly. The results of this study were released in 1995 as Open File Report 5917 and Miscellaneous Release-Data (MRD) 9. In 1996, the area around the Percy Lake Zn-Cd-Pb lake sediment anomaly was resampled at a higher density to further refine the metal anomaly in lake sediments. The new data confirmed the presence of the anomaly. The slightly higher density of the re-sampling indicated a slightly larger anomaly than had originally been identified. The new MRD 9-Revised (2007) comprises data for the 56 re-sampled lake sediments, for 57 re-sampled lake waters, and quality-control duplicates and standards for the sediment and water data, respectively. These latter are identical to the quality-control data released as part of MRD 31, the Montreal River Headwaters Project, because the Percy Lake re-sampling was carried out as an addendum to that project and their samples were analyzed together.

The data set can be downloaded from

[http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm\\_dir.asp?type=pub&id=MRD209-rev](http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=pub&id=MRD209-rev)

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

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

Ontario.

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Hamilton, S.M. and Fortescue, J.A.C. 2007. Lake sediment geochemical survey of the Cow River area, Batchewana greenstone belt; Ontario Geological Survey, Miscellaneous Release-Data 9--Revised. ISBN 978-1-4249-3201-6

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

**Time Coverage:** March 5, 2007

**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:** As Needed

**Enter the retention schedule number:** 9999

**Keywords:**

COPPER CU  
DIGITAL DATA  
GEOCHEMICAL GEOCHEMISTRY  
GREENSTONE  
LEAD PB  
MINERAL EXPLORATION  
MINERALS  
MINING  
MINISTRY OF NORTHERN DEVELOPMENT AND MINES  
MISCELLANEOUS RELEASE DATA  
MNDM  
MRD  
NORTHERN ONTARIO  
OGS  
ONTARIO GEOLOGICAL SURVEY  
SEDIMENT  
WATER LAKE STREAM  
ZINC (ZN)

**Business Theme:**

GEOLOGICAL SURVEY  
GEOLOGY

**GEOGRAPHIC INFORMATION**

**Selected geographic type:**Bounding Box only

North Bounding Coordinate: 47° 30'

South Bounding Coordinate: 47° 15'

West Bounding Coordinate: -84° 00'

East Bounding Coordinate: -83° 30'

**Geographic Completeness:** 100% Complete

**MAPPING INFORMATION**

**Grid Coordinate System Used:** Universal Transverse Mercator

**Map Projection:** Transverse Mercator

**Horizontal Geodetic Datum:** NAD27

**Vertical Geodetic Datum:** Not Applicable

**Position Accuracy of Features:**

**Horizontal:** Reliable: +/- 100 m

**Vertical:** Not Applicable

**DATA SOURCE INFORMATION**

**Data Source Type:** Published Report

**Describe for the Source Data Contribution:**

**Time Period Comments:** Source data collected during the summer of 1991

**Name of the Source Data Set:** Open File Report 5917

**The Acronyms Used to Identify the Source Data Set:** OFR 5917

**Describe the Data Source:** Data set is a digital representation of the tables and/or appendices accompanying the OFR

**Name of the Organization that Create the Source Data Set:** Ontario Geological Survey, Ministry of Northern Development and Mines

**Data Source Type:** Includes Bibliographic Information

**Describe for the Source Data Contribution:** Product includes references to other sources of information

**Time Period Comments:**

**Name of the Source Data Set:**

**The Acronyms Used to Identify the Source Data Set:**

**Describe the Data Source:**

**Name of the Organization that Create the Source Data Set:**

**Data Source Type:** Other Compiled Dataset

**Describe for the Source Data Contribution:**

**Time Period Comments:** Previous publication of data Data collected on 31/12/1995

**Name of the Source Data Set:** Lake Sediment Geochemical Survey of the Cow River Area, Batchewana Greenstone Belt

**The Acronyms Used to Identify the Source Data Set:** MRD009

**Describe the Data Source:** previous release of data Hamilton, S.M., Fortescue, J.A.C. and Hardy, A.S. 1995. Lake Sediment Geochemical Survey of the Cow River Area, Batchewana Greenstone Belt; Ontario Geological Survey, Miscellaneous Release - Data 9.

**Name of the Organization that Create the Source Data Set:** Ontario Geological Survey

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## **METADATA**

**Date of this Metadata Description/Update:** Tuesday, December 12, 2006

**Date when Metadata Should be Reviewed:** Thursday, December 31, 2009

## **DISTRIBUTION INFORMATION**

The data set can be downloaded from

[http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm\\_dir.asp?type=pub&id=MRD009-rev](http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=pub&id=MRD009-rev)

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**The Languages which are Data Distributed in:**English

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