

MRD 340 METADATA

GENERAL INFORMATION

Official Name of the Data Set or Information Holding:

Stream Sediment and Water Geochemical Data, Lake Erie Tributaries, Ontario

Acronyms are Used to Identify the Data Set or Information Holding: MRD340

Describe the Data Set or Information Holding:

Burke, H.E. (author)

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

This digital data release provides stream sediment and water geochemical data, limnological data and quality-control data, collected from a total of 208 sample sets from 102 sites during 4 different seasons along Lake Erie's north shore and Lake St. Clair's eastern shore by the Ontario Geological Survey in collaboration with the Ontario Ministry of Agriculture, Food and Rural Affairs. The data were collected between November 2012 and November 2013 as part of the author's MSc thesis work and constitutes part of the requirements of a Master of Science (Geology) thesis project at the Harquail School of Earth Sciences at Laurentian University under the supervision of Dr. Matthew Leybourne. Seasonal data are provided for 52 sites from 11 quaternary watersheds. This release includes a background document describing the sampling methodology, sample preparation protocols, geochemical analytical methods and quality-control regimes. Stream sediment and water samples were analyzed by inductively coupled plasma atomic emission spectroscopy (ICP-AES) and inductively coupled plasma mass spectrometry (ICP-MS) for more than 60 elements. Stream sediment samples were also analyzed for phosphorus fractions and stream waters for inorganic anions and nitrogen by ion chromatography. Colorimetric methods were used to determine phosphorus and nitrogen fractions. All location information is presented as geographic co-ordinates (latitude and longitude) in the World Geodetic System 1984 (WGS84) and Universal Transverse Mercator (UTM) co-ordinates using North American Datum 1983 (NAD83) in Zone 17. Data are available as 6 Microsoft® Excel® 2010 (.xlsx) workbook files, one Microsoft® Access® 2010 (.accdb) database file containing sample data and preformatted queries to facilitate data extraction and 1 background document in portable document format (.pdf).

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:

This digital release presents geochemical data on a 2 year study of Lake Erie watersheds, which was undertaken to determine the effect that different geological

deposits have on nutrient concentrations in surface waters and stream sediments for the purpose of land use planning and development of agricultural best management practices.

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

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OGS

Miscellaneous Release Data

MRD

Stream Surveys

Water and Sediment Geochemistry

Geochemical Geochemistry

Surface Water

Business Theme:

Geological Survey

Geology

GEOGRAPHIC INFORMATION

Selected geographic type: Bounding Box only

North Bounding Latitude: 43° 11'

South Bounding Latitude: 42° 00'

West Bounding Longitude: -83° 04'

East Bounding Longitude: -79° 37'

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: Not Applicable

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 from November 2012 to November 2013

CONTACT INFORMATION

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METADATA

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