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Dyer, R.D. and Handley, L.A. 2015. McFaulds Lake (“Ring of Fire”) area stream sediment geochemistry; Ontario Geological Survey, Miscellaneous Release—Data 321.

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Miscellaneous Release—Data 321

McFaulds Lake (“Ring of Fire”) Area Stream Sediment Geochemistry

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

This publication can be downloaded from

http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=pub&id=MRD321

This digital data release consists of stream sediment geochemical data from 146 samples obtained from within the Attiwapiskat and Muketei rivers in the McFaulds Lake (“Ring of Fire”) area of northern Ontario. These results are supplemental to previously released indicator mineral data reported by Crabtree (2003) in Open File Report (OFR) 6108 and MRD 119. Geochemical analysis on the fine fraction (-80 mesh; 180 µm) was performed on a separate sample aliquot from the bulk samples that were processed for indicator minerals as described and reported in OFR 6108 and MRD 119. The samples were sieved to retain the -80 mesh size fraction, which underwent aqua-regia digestion followed by inductively coupled plasma optical emission spectroscopy (ICP–OES) and inductively coupled plasma –mass spectrometry (ICP–MS) for a suite of 51 metals. Loss-on-ignition (LOI) was also performed and reported here. Quality control data, consisting of the results from the analysis of duplicate pairs and certified reference materials, are included in this release as well.

The contents of this release include 4 Microsoft® Excel® (.xls) files and 2 portable document format (.pdf) files.

Description of File Contents

MRD321 Readme.pdf – this file

MRD321 Metadata.pdf – metadata pertaining to this digital release

MRD321_ROF_SS_ICP_Data.xls

Geochemical results of ICP–MS, ICP–OES and LOI data for the -80 mesh size fraction of stream sediments. Sample co-ordinates are provided in North American Datum 1983 (NAD83), UTM Zone 16N.

MRD321_ROF_SS_ICP_CRM.xls

MRD321_ROF_SS_ICP_Dups.xls

Geochemical results of ICP–MS, ICP–OES and LOI analysis of analytical (pulp) duplicate pairs and CANMET certified reference material (CRM) STSD-2, STSD-3 and OGS internal bulk standard MCM-1.

MRD321_ROF_Table_1.xls

Table containing a summary of elements analyzed, basic statistics, quality control data and estimates of precision for each metal, based on the results of the duplicate pairs.

References

Crabtree, D.C. 2003. Preliminary results from the James Bay Lowland indicator mineral sampling program; Ontario Geological Survey, Open File Report 6108, 115p.

Crabtree, D.C. 2003. Preliminary indicator mineral results from the James Bay Lowland sampling program; Ontario Geological Survey, Miscellaneous Release—Data 119.