

THESE TERMS GOVERN YOUR USE OF THIS DOCUMENT

Your use of this electronic information product (“EIP”), and the digital data files contained on it (the “Content”), is governed by the terms set out on this page (“Terms of Use”). By opening the EIP and viewing the Content, you (the “User”) have accepted, and have agreed to be bound by, the Terms of Use.

EIP and Content: This EIP and Content is offered by the Province of Ontario’s *Ministry of Energy, Northern Development and Mines* (ENDM) as a public service, on an “as-is” basis. Recommendations and statements of opinions expressed are those of the author or authors and are not to be construed as statement of government policy. You are solely responsible for your use of the EIP and its Content. You should not rely on the Content for legal advice nor as authoritative in your particular circumstances. Users should verify the accuracy and applicability of any Content before acting on it. ENDM does not guarantee, or make any warranty express or implied, that the Content is current, accurate, complete or reliable or that the EIP is free from viruses or other harmful components. ENDM is not responsible for any damage however caused, which results, directly or indirectly, from your use of the EIP or the Content. ENDM assumes no legal liability or responsibility for the EIP or the Content whatsoever.

Links to Other Web Sites: This EIP or the Content may contain links, to Web sites that are not operated by ENDM. Linked Web sites may not be available in French. ENDM neither endorses nor assumes any responsibility for the safety, accuracy or availability of linked Web sites or the information contained on them. The linked Web sites, their operation and content are the responsibility of the person or entity for which they were created or maintained (the “Owner”). Both your use of a linked Web site, and your right to use or reproduce information or materials from a linked Web site, are subject to the terms of use governing that particular Web site. Any comments or inquiries regarding a linked Web site must be directed to its Owner.

Copyright: Canadian and international intellectual property laws protect the Content. Unless otherwise indicated, copyright is held by the Queen’s Printer for Ontario.

It is recommended that reference to the Content be made in the following form:

Duguet, M. 2018. Geological, geochemical and geophysical data related to the Centennial Lake area, Grenville Province; Ontario Geological Survey, Miscellaneous Release—Data 356.

Use and Reproduction of Content: The EIP and the Content may be used and reproduced only in accordance with applicable intellectual property laws. *Non-commercial* use of unsubstantial excerpts of the Content is permitted provided that appropriate credit is given and Crown copyright is acknowledged. Any substantial reproduction of the Content or any *commercial* use of all or part of the Content is prohibited without the prior written permission of ENDM. Substantial reproduction includes the reproduction of any illustration or figure, such as, but not limited to graphs, charts and maps. Commercial use includes commercial distribution of the Content, the reproduction of multiple copies of the Content for any purpose whether or not commercial, use of the Content in commercial publications, and the creation of value-added products using the Content.

Contact:

FOR FURTHER INFORMATION ON	PLEASE CONTACT:	BY TELEPHONE:	BY E-MAIL:
The Reproduction of the EIP or Content	ENDM Publication Services	Local: (705) 670-5691 Toll-Free: 1-888-415-9845, ext. 5691 (inside Canada, United States)	Pubsales.ndm@ontario.ca
The Purchase of ENDM Publications	ENDM Publication Sales	Local: (705) 670-5691 Toll-Free: 1-888-415-9845, ext. 5691 (inside Canada, United States)	Pubsales.ndm@ontario.ca
Crown Copyright	Queen’s Printer	Local: (416) 326-2678 Toll-Free: 1-800-668-9938 (inside Canada, United States)	Copyright@ontario.ca

These data accompany:

Preliminary Map P.3807, *Precambrian Geology of the Centennial Lake Area, Grenville Province*.

For information on purchasing all publications, including digital data, contact:

Publication Sales

Ministry of Energy, Northern Development and Mines

933 Ramsey Lake Rd., Level A3

Sudbury, Ontario P3E 6B5

Tel: 1-888-415-9845, ext. 5691 (toll-free inside Canada and the United States)

Tel: (705) 670-5691 (local calls)

Fax: (705) 670-5770

Users of OGS products are encouraged to contact those Aboriginal communities whose traditional territories may be located in the mineral exploration area to discuss their project.

Miscellaneous Release—Data 356

Geological, Geochemical and Geophysical Data Related to the Centennial Lake Area, Grenville Province

by M. Duguet

This publication can be downloaded from

http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=pub&id=MRD356

This digital data release contains field photographs, and whole-rock geochemical and magnetic susceptibility data collected as part of 1:20 000 scale bedrock geology mapping in the Centennial Lake area (Project Unit 13-014) during the summer of 2015 (preceded by preliminary field visits in the summer of 2014). Also included is a previously published article related to the project. This release comprises 202 photographs (as *.jpg* files), 2 Microsoft® Excel® 2013 (*.xlsx*) workbook files and 3 documents in portable document format (*.pdf*). These data augment Preliminary Map P.3807, *Precambrian Geology of the Centennial Lake Area, Grenville Province*; the geological legend for the map is also provided.

Data are organized into 4 folders:

1. Geochemistry
2. Geology and Publication
3. Geophysics
4. Photographs

1. Geochemistry. This folder contains 1 Microsoft® Excel® 2013 (.xlsx) file.

MRD356_Centennial Lake_Geochemistry.xlsx consists of 1 worksheet.

This worksheet also contains location data (“Easting”, “Northing”, and “Township”), “Rock Type”, and stratigraphic information, if known, for each sample collected; UTM co-ordinates are provided in North American Datum 1983 (NAD83), Zone 18.

“Whole rock data” worksheet contains 297 whole-rock geochemical analyses (including 15 duplicate analyses) acquired from samples collected during the summer of 2015 as part of this study. The geochemical analyses were performed at the Geoscience Laboratories (Geo Labs), Ontario Geological Survey, Sudbury. Sample descriptions and thin section descriptions (when available) are also provided; note: mineral abbreviations used in the worksheet are provided in this readme file. The methods used, lower detection limit for each method, and reported units for each method are included for each element (and oxide) listed. A few samples were collected in the adjacent Black Donald Lake area as follow-up work after the mapping of this area during the summer of 2014.

2. Geology and Publication. This folder contains 2 portable document format (.pdf) files, one of which is a publication associated with this project.

MRD356_SoFW2015-19_Duguet et al.pdf: An article (Duguet, Duparc and Mayer 2015), published in the Ontario Geological Survey *Summary of Field Work and Other Activities, 2015* volume, outlining the activities and results of field work for this project (Project Unit 13-014) during the summer of 2015.

P3807_Legend.pdf is the general legend used as the base for Ontario Geological Survey Preliminary Map P.3807, *Precambrian Geology of the Centennial Lake Area, Grenville Province* (Duguet, Duparc and Mayer 2018). Material in the geochemistry file and the photograph captions file are cross-referenced to map codes in the legend.

3. Geophysics. This folder contains 1 Microsoft® Excel® 2013 (.xlsx) file.

MRD356_Centennial Lake_Magnetic Susceptibility Data.xlsx contains 1 worksheet.

“MagSus_Data” worksheet provides magnetic susceptibility data from the study area collected during the summer of 2015.

Measurements were collected using Exploranium® KT-10 magnetic susceptibility meters. Magnetic susceptibility is defined as the degree to which a substance can be magnetized and, in this case, is expressed as the ratio of the intensity of magnetization (k) to the ratio of the Earth’s magnetic field to magnetic field induced by the susceptibility meter. The readings (k) are expressed as 10^{-3} times the SI unit for susceptibility and are dimensionless. The minimum value that can be recorded by the meter is 0.001×10^{-3} SI units; the largest value is 999×10^{-3} SI units. Sample location information is given in UTM co-ordinates, Zone 18, NAD83.

4. Photographs. This folder contains 202 field photographs (as .jpg files) and 1 portable document format (.pdf) file. The photographs were taken during the summer of 2015 as part of the mapping project.

MRD356_Centennial Lake_Photo Captions.pdf provides the station location, a brief photo description and identifies the scale used in the photo. Photo file names for the .jpg files are based on station location, e.g., 15MD329_2-NW is photograph number 2 (“_2”), from station MD329 in 2015, with the camera facing to the northwest. Station location information is given in UTM co-ordinates, Zone 18, NAD83.

Mineral Abbreviations Used in Data Files

al	allanite	fsp	feldspar (undifferentiated)	pl	plagioclase
ap	apatite	goe	goethite	po	pyrrhotite
bt	biotite	gr	graphite	py	pyrite
cal	calcite	grt	garnet	qtz	quartz
carb	carbonate	hbl	hornblende	rt	rutile
cp	chalcopyrite	ilm	ilmenite	scp	scapolite
cpx	clinopyroxene	kfs	potassium feldspar	sil	sillimanite
crd	cordierite	mag	magnetite	spn	sphene (titanite)
ctd	chloritoid	mnz	monazite	st	staurolite
cz	clinozoisite	ms	muscovite	sul	sulphide minerals (unspecified)
di	diopside	ol	olivine	tr	tremolite
dol	dolomite	opx	orthopyroxene	zrn	zircon
ep	epidote	ppl	phlogopite		

References

- Duguet, M., Duparc, Q. and Mayer, C. 2015. Geology and mineral potential of the Centennial Lake area, northeastern Central Metasedimentary Belt, Grenville Province; *in* Summary of Field Work and Other Activities, 2015, Ontario Geological Survey, Open File Report 6313, p.19-1 to 19-16.
- Duguet, M., Duparc, Q. and Mayer, C. 2018. Precambrian geology of the Centennial Lake area, Grenville Province; Ontario Geological Survey, Preliminary Map P.3807, scale 1:20 000.