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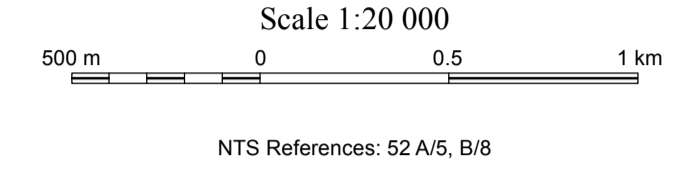
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Lodge, R.W.D. 2014. Precambrian geology of Aldina Township; Ontario Geological Survey, Preliminary Map P.3776, scale 1:20 000.

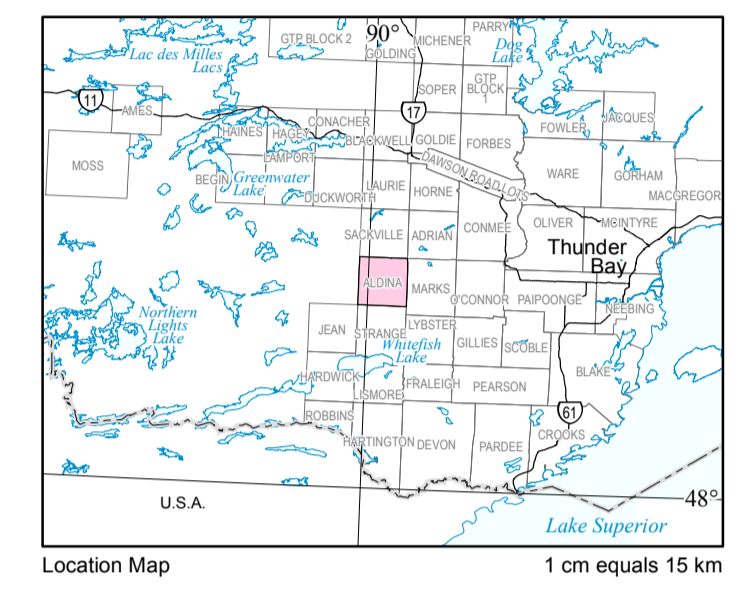
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SOURCES OF INFORMATION

Digital base map information derived from the Ontario Land Information Warehouse, Land Information Ontario, Ontario Ministry of Natural Resources, scale 1:20 000, with modifications by staff of the Ministry of Northern Development and Mines.
 Mapping conducted using UTM co-ordinates in North American Datum 1983 (NAD83), Zone 16.
 Files of the Resident Geologist's office, Thunder Bay
 Ontario Geological Survey 2003. Ontario airborne geophysical surveys, electromagnetic and magnetic data, Shebandowan Area; Ontario Geological Survey, Geophysical Data Set 1021—Revised.
 Ontario Geological Survey 2013. Mineral Deposit Inventory—2013; Ontario Geological Survey.
 Bottrill, T.J. 2003. Technical report on the Stares—Calvert project, Adrian, Aldina, Marks, and Sackandowan Belts, Thunder Bay District, Ontario, prepared for RJK Explorations Ltd. and GLR Resources Inc. by Bottrill Geological Services, RJK Explorations Ltd. NI 43-101 Technical Report, filed September 22, 2003 with SEDAR, see [SEDAR Home Page](#), 52p.
 Lodge, R.W.D. and Chartrand, J.E. 2013. Establishing regional geodynamic settings and the metallogeny of volcanogenic massive sulphide mineralization of greenstone belt assemblages (circa 2720 Ma) of the Wawa Subprovince via geochemical comparisons; Ontario Geological Survey, Miscellaneous Release—Data 306.

Magnetic declination at the centre of the map area was approximately 3°10.4W in 2014.
 Metric conversion factor 1 foot = 0.3048 m.
 Geological not tied to surveyed lines.

CREDITS

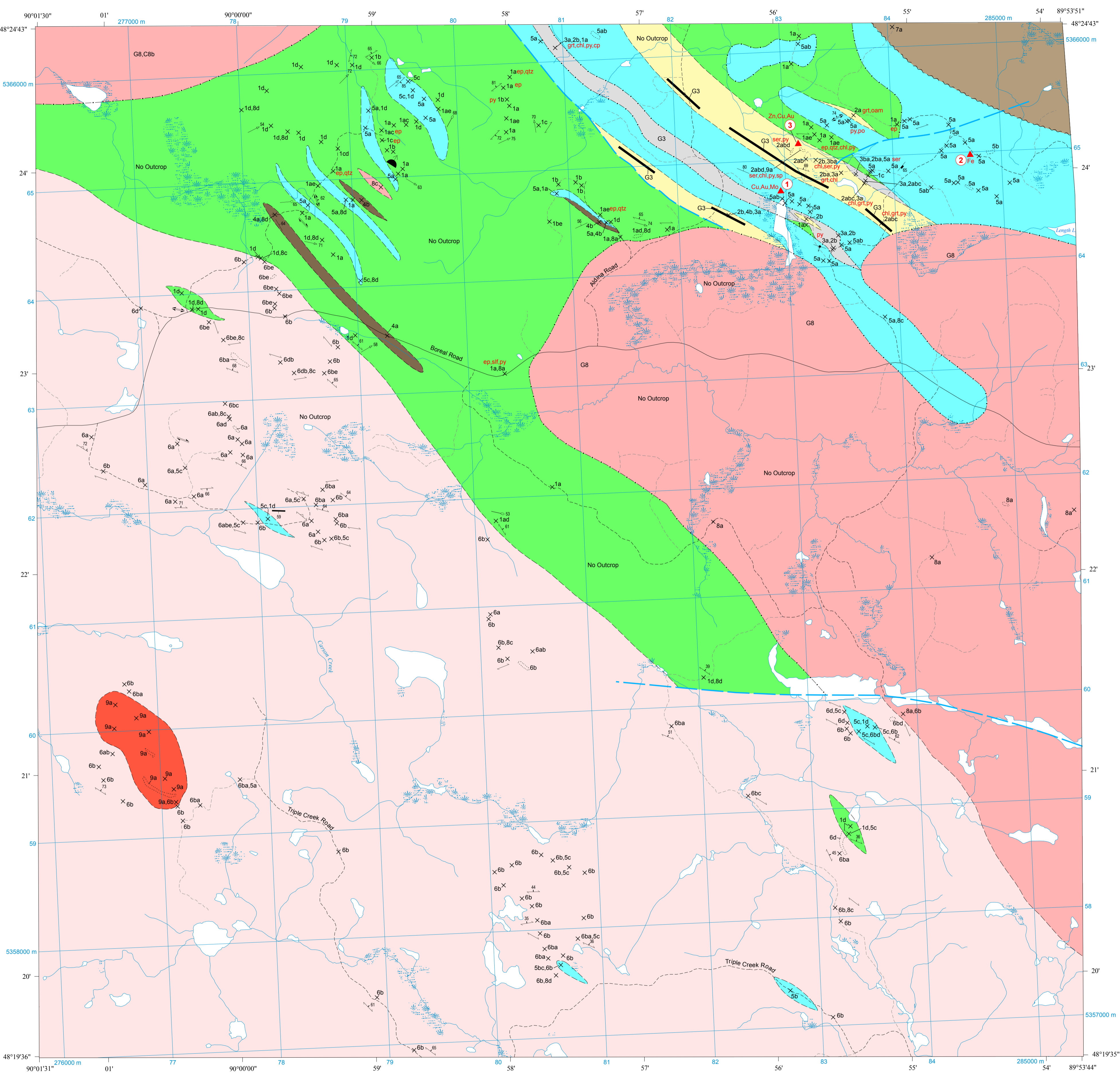
Geological mapping by R.W.D. Lodge and assistants during the summers of 2010 and 2013.
 Preparation of geophysical imagery by D.R.B. Rainford.
 Digital drafting and preparation of GIS product by J.L. Webb and R.W.D. Lodge.
 Cartographic production by A. Evers.
 Every possible effort has been made to ensure the accuracy of the information presented on this map; however, the Ontario Ministry of Northern Development and Mines does not assume liability for errors that may occur. Users should verify critical information.
 Issued 2014.
 Information from this publication may be quoted if credit is given. It is recommended that reference to this map be made in the following form.
 Lodge, R.W.D. 2014. Precambrian geology of Aldina Township; Ontario Geological Survey, Preliminary Map P.3776, scale 1:20 000.

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.

- LEGEND^{a,b}**
- PHANEROZOIC**
- CENOZOIC**
- QUATERNARY
- PLEISTOCENE AND RECENT
 Unconsolidated sandy till, glaciofluvial sand and gravel
 UNCONFORMABLE CONTACT
- PRECAMBRIAN**
- PROTEROZOIC**
- PALEOPROTEROZOIC**
- 9** Mafic Intrusive Rocks
 9a Diabase
- INTRUSIVE CONTACT
- ARCHEAN**
- NEOARCHEAN**
- 8** Massive Felsic to Intermediate Intrusive Rocks
 8a Granodiorite to monzonite
 8b Quartz monzonite to monzodiorite
 8c Syenitoid dikes/sills
 8d Granitoid dikes/sills
- INTRUSIVE CONTACT
- Shebandowan Assemblage Supracrustal Rocks**
- 7** Metasedimentary Rocks
 7a Arkosic sandstone
- UNCONFORMITY
- 6** Foliated Felsic to Intermediate Intrusive Rocks
 6a Gabbro
 6b Foliated tonalite to granodiorite
 6c Foliated monzonite
 6d Foliated quartz diorite to quartz monzodiorite
 6e Quartz and/or feldspar porphyritic
- INTRUSIVE CONTACT
- 5** Mafic to Ultramafic Intrusive Rocks
 5a Gabbro
 5b Pyroxenite
 5c Coarse-grained amphibolite
- INTRUSIVE CONTACT
- Greenwater Assemblage Supracrustal Rocks**
- 4** Metasedimentary Rocks
 4a Feldspathic wacke
 4b Tuffaceous wacke
- 3** Chemical Metasedimentary Rocks
 3a Magnetite-chert ironstone
 3b Sulphide-bearing ironstone
- 2** Felsic to Intermediate Metavolcanic Rocks
 2a Massive flow
 2b Tuff
 2c Lapilli tuff
 2d Quartz and/or feldspar porphyritic
- 1** Mafic Metavolcanic Rocks
 1a Massive flow
 1b Pillowed flow
 1c Brecciated flow
 1d Fine-grained amphibolite
 1e Amygdaloidal

- ABBREVIATIONS**
- Ag silver
 Au gold
 Cu copper
- Fe iron
 Mo molybdenum
 Zn zinc
- ROCK CODE MODIFIERS**
- chl chlorite alteration
 cp calcopyrite
 ep epidote alteration
 grt garnet alteration
 ms muscovite alteration
 oam orthoamphibole alteration
- po pyrrhotite
 py pyrite
 qtz quartz alteration
 ser sericite alteration
 sil silice alteration
 sp sphalerite

- SYMBOLS**
- X Outcrop (observed, compiled)
 Area of bedrock outcrop (observed, compiled)
 Geological contact (interpreted, interpreted from geophysical data)
 Unconformity (interpreted)
 Fault (interpreted)
 Bedding, facing not known (trend, inclined)
 Graded bedding, trend (facing known)
 Gneissosity (trend, inclined)
 Foliation, unknown generation (trend, inclined)
 Intrusive igneous contact (inclined)
- Jointing (inclined)
 Stretch lineation (with plunge)
 Mineral lineation (with plunge)
 Slickenside lineation (with plunge)
 Dextral ductile shear; unknown generation (trend only)
 Ductile shear; unknown generation (trend only, inclined)
 Younging direction (pillowed flow)
 Mineral occurrence (number corresponds with Table 1)
 Mineral occurrence
 Logging roads (major, secondary, tertiary)



PROPERTIES

Table 1. Description of mineral occurrences in Aldina Township (OGS 2013).

No.	Occurrence	Commodities	Description
1	Douglas Showing MDI52A05W00011	Cu, Au, Mo	Hosted in carbonate veins in amphibolite associated with contact metamorphism and metasomatism. Discovered by A. Douglas in 1988. Grab samples returned values up to 2.3 g/t Au, 1.6% Cu and 3173 ppm Mo.
2	Aldina Showing MDI52A05N00010	Fe	Magnetite-rich iron formation drilled and trenched by New Fortune Minerals Ltd. in 1957 in Aldina and Marks townships. Reported assays up to 30.8% Fe.
3	Calvert-Stares Showing MDI00000001160	Zn, Au, Ag	Precious metal-rich volcanogenic massive sulphide occurrence hosted in sericite-altered felsic volcanic lithofacies discovered drilled and trenched between 2000 and 2007. Best drilling intersection gives 2.27% Zn and 1.38 g/t Au over 8.0 m.

Note: Numbers "No." indicate the property location on the map face. Discrepancies may occur in the location of the MDI points. Users should verify critical locations.
Abbreviations: MDI, Mineral Deposit Inventory; g/t - grams per tonne; ppm - parts per million.