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These data accompany:

*Open File Report 6297, Results of Regional Till Sampling in the Detour Lake and Burntbush Area, Northern Ontario.*

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Miscellaneous Release—Data 312

## **Till Sample and Indicator Mineral Data for the Detour Lake and Burntbush Area, Northern Ontario**

by C. Gao

This publication can be downloaded from

[http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm\\_dir.asp?type=pub&id=MRD312](http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=pub&id=MRD312)

This release presents the results of a regional till sampling and surficial mapping project undertaken in the Detour Lake and Burntbush area of northeastern Ontario in 2008 and 2009. The data are being released in conjunction with Open File Report 6297 (OFR 6297) (Gao 2015), available separately. Surficial geology maps for parts of the sampling area were released in 2013 (Gao 2013a, 2013b).

The results consist of indicator mineral grain counts as well as geochemical and compositional data of kimberlite indicator minerals (KIMs), metamorphic/magmatic massive sulphide indicator minerals (MMSIM<sup>®</sup>) and gold grains recovered from till and glaciofluvial sand and gravel samples. Files in this release contain information on sample site locations, sample processing data, KIMs picked and picking remarks, electron probe microanalyzer results of KIMs, adjusted KIM results, gold grain data, MMSIM<sup>®</sup> data, clastic lithology data, and geochemical data from <0.063 mm till matrix material.

This release supplements Open File Report 6297, providing the data (as 16 appendixes) generated during the study (see below). Five of the appendixes (1, 3, 6, 10, 12) were also included in OFR 6297.

The following appendixes are included in this release:

Appendix 1. Sample site locations

Appendix 2. Tabling and clast lithology data

Appendix 3. Summary of gold grain counts

- Appendix 4. Details on gold grains
- Appendix 5. Heavy mineral concentrates for KIM and MMSIM® picking
- Appendix 6. Summary of KIM counts
- Appendix 7. KIM grain picking remarks
- Appendix 8. Electron probe microanalyzer (microprobe) data
- Appendix 9. Reclassified KIM grains
- Appendix 10. Summary of adjusted KIM counts
- Appendix 11. Summary of MMSIM® counts
- Appendix 12. Numerically converted counts of MMSIM®
- Appendix 13. Summary of all the indicator minerals
- Appendix 14. Silt and clay material (<0.063 mm) ICP–MS, ICP–OES and INAA data set
- Appendix 15. ICP–MS, ICP–OES and INAA duplicates quality control (QC) data set
- Appendix 16. ICP–MS, ICP–OES and INAA Certified Reference Material (CRM) QC data set

## References

- Gao, C. 2013a. Quaternary geology, Burntbush area, northeastern Ontario; Ontario Geological Survey, Preliminary Map P.3770, scale 1:50 000.
- Gao, C. 2013b. Quaternary geology, Detour Lake area, northeastern Ontario; Ontario Geological Survey, Preliminary Map P.3669, scale 1:50 000.
- Gao, C. 2015. Results of regional till sampling in the Detour Lake and Burntbush area, northern Ontario; Ontario Geological Survey, Open File Report 6297, 120p.