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Miscellaneous Release—Data 371

Ontario Specific Gravity Data for Bedrock Samples Acquired from 1970 to 2014

by D.R.B. Rainsford, A. Carter-McAuslan and L.C. Ashick-Stinson

This publication can be downloaded from

http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=pub&id=MRD371

Since 1970, the Ontario Geological Survey (OGS) has routinely measured the specific gravity of rock samples submitted to the OGS Geoscience Laboratories (Geo Labs) for chemical analysis. The specific gravity results, spanning nearly 5 decades, have been published in numerous Miscellaneous Releases—Data (MRDs). For this digital compilation, the specific gravity data have been extracted from these MRDs and compiled into a single georeferenced database, and summary statistics have been calculated. During the compilation process, the various source data sets were standardized to common formats and an array of checks and corrections were applied to help improve the quality of the final compilation.

The resulting specific gravity data set contains 26 079 geolocated records from rock samples collected across the province of Ontario between 1970 and 2014. The majority of the data were obtained from specific gravity measurements of Archean rocks, with smaller populations of data from Proterozoic and Paleozoic eras. It is hoped that this compilation will be a valuable reference source for those requiring rock density estimates for uses such as geophysical modelling and mineral resource calculations.

In this digital data release, the data are provided as 1 Microsoft® Excel® 2013 (.xlsx) workbook file, 1 generic comma-separated values (.csv) file and a set of GIS-compatible shape files. Explanatory notes, describing specific gravity measurements, and the data compilation, processing and sources, are provided as a portable document format (.pdf) file.