

# GROUNDWATER RESOURCES STUDY (GRS) 16 METADATA

## GENERAL INFORMATION

**Official Name of the Data Set or Information Holding:**

Discrete, High-Quality Hydraulic Conductivity Estimates for the Early Silurian Carbonates of the Guelph Region

**Acronyms are Used to Identify the Data Set or Information Holding:** GRS016

**Describe the Data Set or Information Holding:**

Priebe, E.H., Neville, C.J., Brunton, F.R. (authors)

This publication can be downloaded from GeologyOntario: see Distribution Information section.

This Groundwater Resources Study (“GRS”) disseminates a large, high-quality set of 72 hydraulic conductivity estimates, with values tied to stratigraphy, for the Guelph region. The 72 hydraulic conductivity values were estimated from hydraulic testing conducted previously, by local consultants for the City of Guelph, in 28 wells. Hydraulic tests were conducted between packers or within short-screen monitoring wells. Detailed descriptions of how the hydraulic test analyses were conducted, as well as a copy of each analysis, is also provided. This project was conducted in collaboration with the City of Guelph waterworks division.

The accompanying report also provides the borehole logs for each well and a summary table of the best K estimate for each test. Associated hydraulic test analyses for each hydraulic conductivity value are also provided as graphic plots, which are hyperlinked from the report. Data files are provided as 53 plots (as *.tif* files), 1 Microsoft® Excel® 2010 workbook (*.xlsx*) and 1 portable document format (*.pdf*) file.

Additional information and metadata are found within a readme file provided with the product.

**The Intended Use and Purpose for Collecting the Data Set or Information Holding:**

This Groundwater Resources Study is one component of a broader study by the Ontario Geological Survey with the goal of gaining a spatial understanding of the influence of geological features on the local carbonate groundwater systems.

The objective of this product is to collect and disseminate geoscience information for Ontario.

## CONSTRAINTS FOR USING THE DATA SET

**Describe any Restrictions and Legal Prerequisites for Accessing the Data Set (Data Privacy/Security):**

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**Select the Level of Privacy for this Metadata Information:** Public

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**Time Coverage Comments:** Date of Publication.

**Enter or Select the Current Status of the Data Set:** Complete

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Groundwater Resources Study

GRS

Hydrogeology

Groundwater

Aquifer

Borehole

Stratigraphy

Source water protection

**Business Theme:**

Geological Survey

Geology

**GEOGRAPHIC INFORMATION**

**Selected geographic type:** Bounding Box only

North Bounding Latitude: 43° 47'

South Bounding Latitude: 43° 24'

West Bounding Longitude: -80° 29'

East Bounding Longitude: -80° 02'

**Geographic Completeness:** irregularly shaped study area - completeness not available

**MAPPING INFORMATION**

**Grid Coordinate System Used:** Universal Transverse Mercator

**Map Projection:** Transverse Mercator

**Horizontal Geodetic Datum:** NAD83

**Vertical Datum:** Not Applicable

**Horizontal Position Accuracy of Features:** Precise +/- 5 m

**Vertical Position Accuracy of Features:** Very Precise +/- 1 m

## DATA SOURCE INFORMATION

**Data Source Type:** Includes Bibliographic Information

**Describe for the Source Data Contribution:** Product includes references to other sources of information

**Data Source Type:** Compilation

**Source Data Set Description:** Compilation, analysis and interpretation of data conducted from 2014 to 2016

## CONTACT INFORMATION

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**Date when Metadata Should be Reviewed:** December 31, 2017

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