

GDS1244 Metadata

GENERAL INFORMATION

Official Name of the Data Set or Information Holding: Ontario Airborne Geophysical Surveys, Magnetic and Electromagnetic Data, Grid and Profile Data (ASCII and Geosoft® Formats) and Vector Data, Bull Lake Area—Purchased Data

Acronyms are Used to Identify the Data Set or Information Holding: GDS1244

Describe the Data Set or Information Holding:

Ontario Geological Survey (author)

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

Geophysical Data Set (GDS) 1244 includes the results of an airborne magnetic and electromagnetic survey, totalling 935 line-kilometres, flown in the Bull Lake (formerly named, and locally known as, “East Bull Lake”) area, 30 km east of Elliot Lake, Ontario. The survey was conducted in 2007 by Geotech Ltd., Aurora, Ontario, for Mustang Minerals Corp., Toronto, Ontario.

This geophysical data set includes 20 m × 20 m grids and GeoTIFF images of magnetic and electromagnetic data; airborne magnetic and electromagnetic profile data—both raw and processed—in ASCII (.xyz) and Geosoft® (.gdb) file formats; grids (in ASCII (.gxf) and Geosoft® (.grd) file formats) of the magnetic and electromagnetic data; database of Keating correlation coefficient anomalies in ASCII (.csv) and Geosoft® (.gdb) file formats; database of electromagnetic (EM) anomalies in ASCII (.csv) and Geosoft® (.gdb) file formats; waveform database in Geosoft® (.gdb) file format; vector (.dxf) files of flight path, EM anomalies Keating anomalies, contours of the residual magnetic field and contours of the EM decay constant; and the survey report in portable document format (.pdf).

These data accompany geophysical Maps 60438 to 60440, which are available separately from the digital data set.

Survey Parameters:

Survey type: magnetic and electromagnetic

Date flown: May 26 to June 1, 2007

Survey conducted by: Geotech Limited, Aurora, Ontario

Survey conducted for: Mustang Minerals Corp., Toronto, Ontario

Survey size: 935 line-kilometres

Traverse flight-line spacing: 100 m

Nominal aircraft terrain clearance: 80 m

Magnetic survey type: Geometrics cesium-vapour
Magnetometer height: 15 m below aircraft
Magnetic sampling interval: 10 readings per second
EM survey type: VTEM
EM domain: time domain
EM height: 40 m below aircraft
VLF–EM: none
Gamma-ray survey: none

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: As part of an ongoing program to acquire high-quality, high-resolution airborne geophysical data across the Province of Ontario, the Ministry of Northern Development and Mines (MNDM) does, from time to time, issue Requests For Data (RFD) in order to purchase existing proprietary data held by mining companies. Purchase of existing data complements new surveys commissioned by the MNDM.

The purchase of data is attractive because of the low cost of acquisition relative to flying new surveys. The money used to purchase the data can be reinvested in exploration. The data are assessed for quality prior to purchase and are reprocessed to meet the common formats and standards of other Ontario geophysical data. Once reprocessed, these data are then made public. The objective of this product is to collect and disseminate geoscience information for Ontario.

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Describe any Restrictions and Legal Prerequisites for Accessing the Data Set (Data

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AIRBORNE EM

AIRBORNE EM AND MAG (TOTAL FIELD)

AIRBORNE MAG (RESIDUAL)

AIRBORNE MAG (TOTAL)

GEOPHYSICAL

Business Theme:

GEOLOGICAL SURVEY
GEOLOGY

GEOGRAPHIC INFORMATION

Selected geographic type: Bounding Box only

North Bounding Latitude: 46° 28'

South Bounding Latitude: 46° 22'

West Bounding Longitude: -82° 19'

East Bounding Longitude: -82° 00'

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: +/- 10 m

Vertical Position Accuracy of Features: Not Applicable

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: Direct Field Collection

Source Data Set Description: Data acquisition and data compilation by Geotech Ltd., Aurora, Ontario

Time Period: survey conducted from May 26 to June 1, 2007

Data Source Type: Digital Map File

Source Contribution: Base map information derived from the Land Information Ontario Data Warehouse, Land Information Ontario, Ministry of Natural Resources and Forestry, scale 1:50 000.

Name of Source Data Set: Natural Resources and Values Information System

Acronym of Source Data Set: NRVIS

Source Data Set Description: NRVIS is a GIS-based system for managing the storage of the Ministry of Natural Resources and Forestry (MNRF) digital land-related information in a standardized manner.

Organization that Created Source Data Set: Ministry of Natural Resources and Forestry (Ontario)

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