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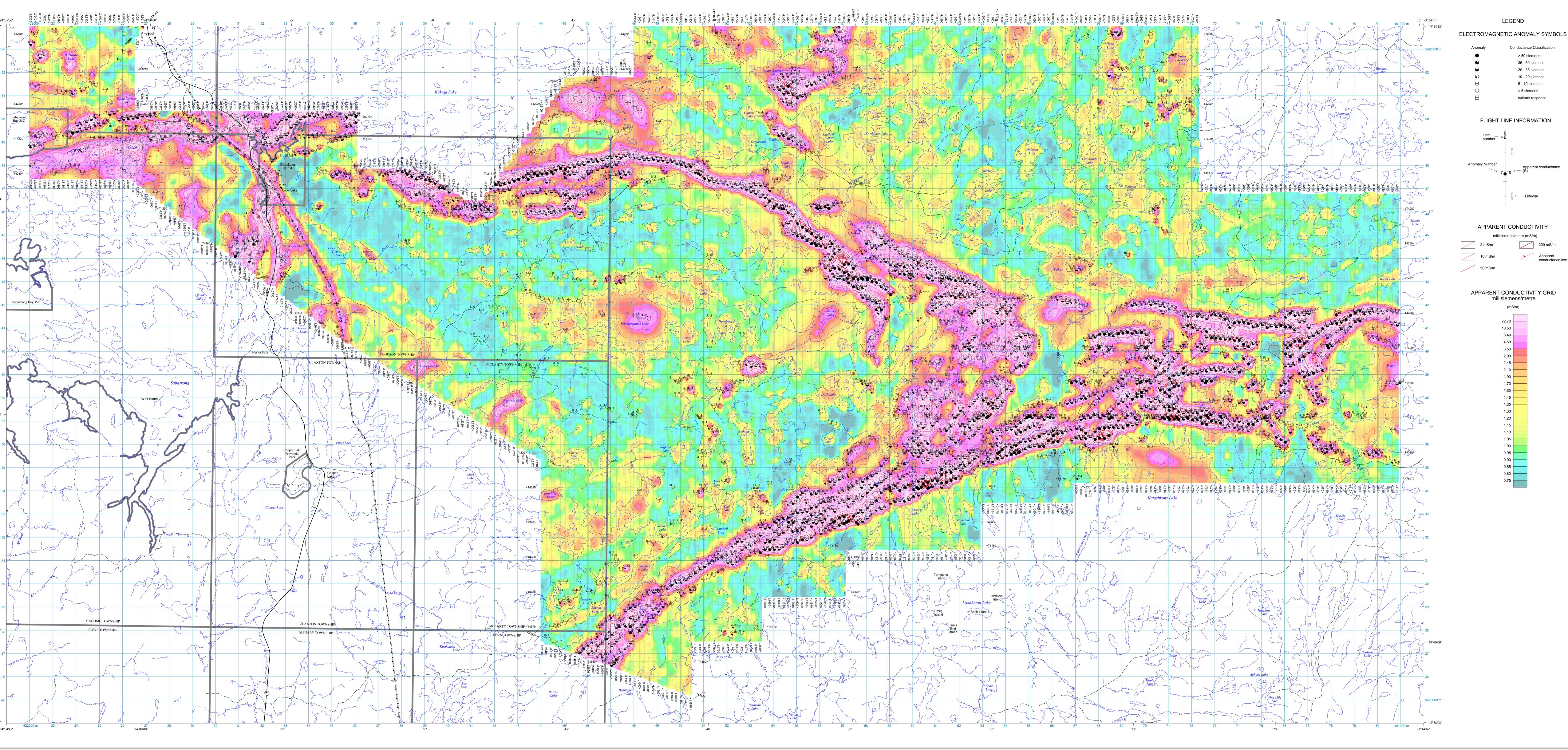
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DESCRIPTIVE NOTES

Ontario Geological Survey This survey was flown using the Geotech VTEM®Plus helicoptermounted magnetic and electromagnetic system. The aircraft was also equipped with a GPS navigation system and a MAP 82 650

AIRBORNE MAGNETIC AND Apparent Conductivity was computed from the off-time **ELECTROMAGNETIC SURVEYS** Z-component data at each measurement location. The transformation is based on the apparent resistivity transform of Meju (1998) and TEM response from conductive half-space. Colour-filled contours Geotech developed and implemented the program for VTEM

and depth calibrated data. This method can be expanded to generate depth sections (CDIs). The effective depths for the sections are derived empirically from the computed diffusion depths resulting from forward modeling of the VTEM system.

EM Anomalies The VTEM®Plus system will respond to conductive overburden near-surface horizontal conducting layers, man-made sources and bedrock conductors. Identification of natural conductors is based on the rate of transient decay, magnetic correlation and response shape, together with the response pattern and topography. Man-made responses are identifiable by examining the power line monitor and the flight track video.

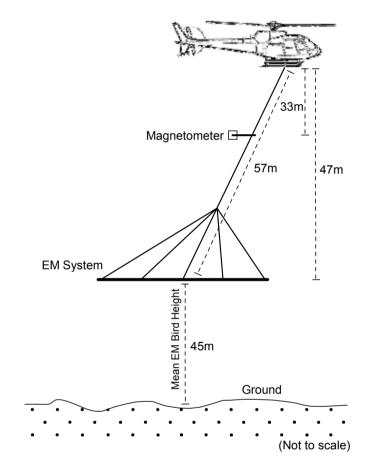
digital data acquisition system.

Apparent Conductivity

Anomalies were classified as having an inductively thin source, which produces a double-peaked (M-shaped) response with the trough centered over the conductor, or as an inductively thick source, which produces a single-peaked response centered over the conductor. The anomaly source conductance was computed assuming a 100 m by 100 m thin plate.

VERTICAL PLATE NOMOGRAM

SYSTEM CONFIGURATION





MAGNETOMETER
Type: Geometrics® G823A cesium vapour Sensitivity: 0.02 nT Noise level: ±0.004 nT Sample interval: 10 readings per second Sensor location: 33 m below aircraft ELECTROMAGNETIC SYSTEM
Type: VTEM®Plus
Base frequency: 30 Hz
Current waveform: trapezoid
Peak dipole moment (NIA): 522 430 Am² Pulse width: 4.4 msec
Off-time: 7036 µsec
Pulse repetition: 30 cycles per second,
60 pulses per second
Parameters: Z-component of dB/dt
Noise levels: 0.0005 pV/(A*m⁴)

Sample interval: 10 readings per second Bird Location: 47 m below aircraft NAVIGATION SYSTEM GPS receiver: MID-TECH® RX400p GPS receiver: MID-TECTION RX400P GPS sample interval: 5 readings per second Radar altimeter: Terra TRA3000/TRI-40 Radar sample interval: 5 readings per second Video flight path recorder: Archos™ 605 Wi-Fi

Magnetometer: Geotech Base Station - Geometrics® G822B cesium-vapour sensor
Magnetometer sample interval: 10 readings per second SURVEY SPECIFICATIONS

Survey date: January 26 to March 1, 2014
Nominal aircraft terrain clearance: 92 m
Traverse line spacing: 200 m Control line spacing: 1500 m
Traverse line direction: north-south Control line direction: east-west CO-ORDINATE SYSTEM

Projection: Universal Transverse Mercator Datum: NAD83 Central meridian: 93°00'W (UTM zone 15) Central scale factor: 0.9996
False easting: 500 000 m
False northing: 0 m

of the apparent conductivity and electromagnetic anomalies

NESTOR FALLS AREA

Scale 1:50 000

0 0.5 NTS Reference: 52 C/13, 14; D/16; E/1; F/3, 4 © Queen's Printer for Ontario, 2014. This map is published with the permission of the Director,

Ontario Geological Survey.

SOURCES OF INFORMATION

Base map information derived from the Land Information Ontario Data Warehouse, Land Information Ontario, Ontario Ministry of Natural Resources and Forestry, scale 1:50 000. Magnetic declination for the centre of the map area was approximately 0.1°W in 2014. Meju, Maxwell, A. 1998. Short Note: A simple method of transient electromagnetic data analysis, Geophysics, v.63, no.2,

Data acquisition, data compilation and map production by Geotech Limited, Aurora, Ontario. Project management and quality assurance by Paterson, Grant and Watson Limited, Toronto, Ontario. Contract management, base maps and map surrounds by the Ontario Ministry of Northern Development and Mines, Sudbury, Every possible effort has been made to ensure the accuracy of the information presented; however, the Ontario Ministry of Northern Development and Mines does not assume liability for any errors that may occur. Users should verify critical information. Corresponding digital data for this survey are available from the following Ontario Geological Survey publication: Ontario Geological Survey 2014. Ontario airborne geophysical surveys, magnetic and electromagnetic data, grid and profile data (ASCII and Geosoft® formats) and vector data, Nestor Falls

area; Ontario Geological Survey, Geophysical Data Set 1076. Issued 2014. Information from this publication may be quoted if credit is given. It is recommended that reference be made in the following form:

Ontario Geological Survey 2014. Airborne magnetic and electromagnetic surveys, colour-filled contours of the apparent conductivity and electromagnetic anomalies, Nestor Falls area; Ontario Geological Survey, Map 82 650, scale 1:50 000.

Aboriginal communities whose traditional territories may be located in the mineral exploration area to discuss their project.