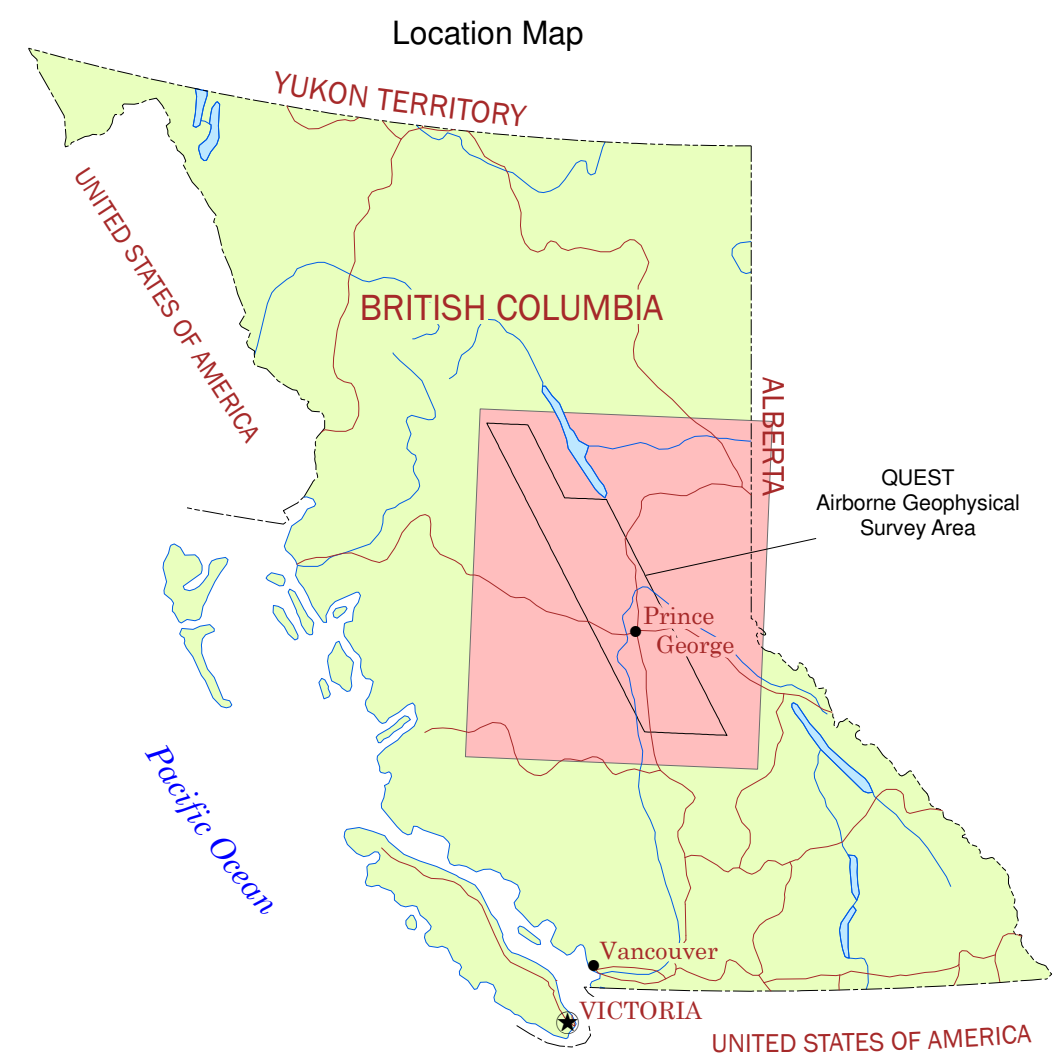
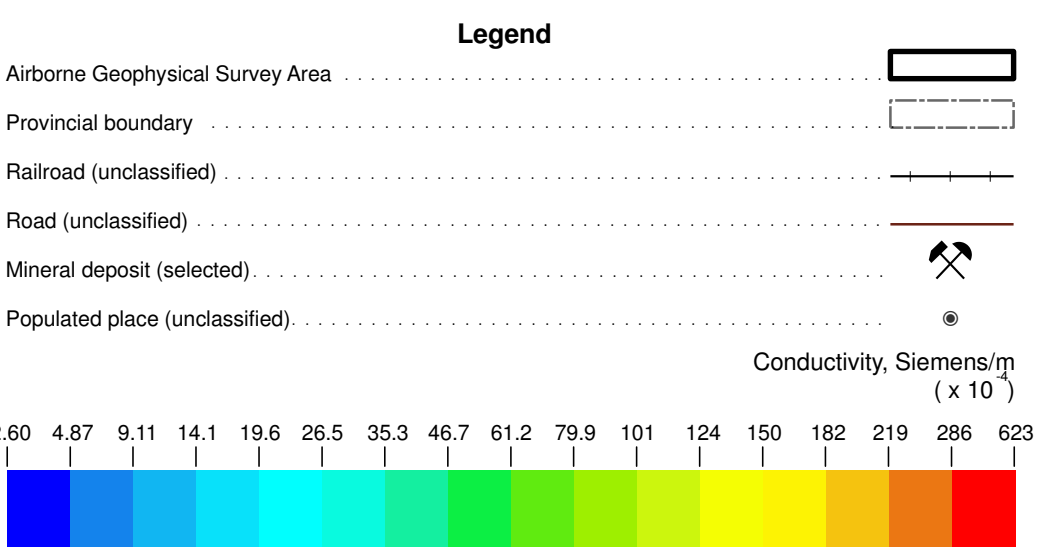


Disclaimer: While every effort has been taken to ensure the accuracy of the information in this map, the data are provided on an "as-is" basis, without any warranty, guarantee or representation of any kind, whether expressed or implied. It is the responsibility of the user to check the facts before entering any financial or other commitment based upon this information.



National Topographic System Index

15M SPATCO BAY	04E DOUGLASS RIVER	04F WILHELM RIVER	04G TROCH RIVER	04H BERTON RIVER	04I CHIRCHWA RIVER
15A BURNER LAKE	04C MCCORMELL CREEK	04D WILSON RIVER	04E DUBIE LAKE	04F CLEAR LAKE	04G CLEAR LAKE
02P NILES RIVER	02R HAZELTON RIVER	02S WILSON RIVER	02T PINE PASS	02U DUNCAN CREEK	02V PRINCE PAISS
02W TERNACE RIVER	02X SHERRARD RIVER	02Y FULTON RIVER	02Z MCDONALD LAKE	02A MCDONALD LAKE	02B MCDONALD LAKE
02C DOUGLASS CREEK	02D WILSON RIVER	02E MCDONALD LAKE	02F MCDONALD LAKE	02G MCDONALD LAKE	02H MCDONALD LAKE
15A BURNER LAKE	04C MCCORMELL CREEK	04D WILSON RIVER	04E DUBIE LAKE	04F CLEAR LAKE	04G CLEAR LAKE
02P NILES RIVER	02R HAZELTON RIVER	02S WILSON RIVER	02T PINE PASS	02U DUNCAN CREEK	02V PRINCE PAISS
02W TERNACE RIVER	02X SHERRARD RIVER	02Y FULTON RIVER	02Z MCDONALD LAKE	02A MCDONALD LAKE	02B MCDONALD LAKE



QUEST Geophysics 3D Inversion Analysis - Bedrock and Deep Overburden Conductivity

The QUEST Airborne EM data were inverted by Mira Geoscience for Geoscience BC using the UBC Layered Earth Inversion algorithm EM1D/2D. This map of the bedrock or deep overburden conductivity values was produced using spatial constraints to produce a result suitable for presentation in plan.

The data was acquired using the Geotech VTEM helicopter EM system. Flight line traverses were EM across the survey area. Flight lines were 4km apart and followed UTM northings divided by 4000 metres.

The conductivities are estimated from the late time response of the VTEM data. In regions of deep conductive overburden, the value shown represents the response of the overburden. In most areas, the value shown is the response of the bedrock.

Computed sections for each flight line have been produced which illustrate the conductivity response as a function of depth along the flight line traverse. These figures show much more local detail than this map. The user should refer to these for additional information in any particular locality.

The digital data this map is based upon and the conductivity depth sections referenced above are available for download at the Geoscience BC website.

Data Analysis

Mira Geoscience Ltd (2009). QUEST Project: 3D Inversion modelling, integration, and visualization of airborne gravity, magnetic, and electromagnetic data. BC, Canada: Geoscience BC Report 2009-15, 87 p.

VTEM Data

UBC QUEST Project Team (2008). QUEST Project VTEM Data and Report, Geoscience BC, 2008-4.

Topographic Data

Massey, N.W.D., MacIntyre, D.G., Desjardins, P.J. and Cooney, R.T. (2005). Digital Geology Map of British Columbia: Whole Province. B.C. Ministry of Energy and Mines, Geotile 2005-1.

Data Sources

Geoscience BC
www.geosciencebc.com
Ministry of Energy, Mines and Petroleum Resources
www.empr.gov.bc.ca/mining/geoscience

Acknowledgments

Cartography by Fran Ma, Geoscience BC
Image processing by Peter Kowalczyk, Geoscience BC
Geophysical 3D inversion analysis by Mira Geophysics Ltd. - www.mirageoscience.com
Geoscience BC is funded through grants from the Provincial Government of British Columbia.
QUEST is funded in partnership with the Northern Development Initiative Trust - www.nditrust.ca



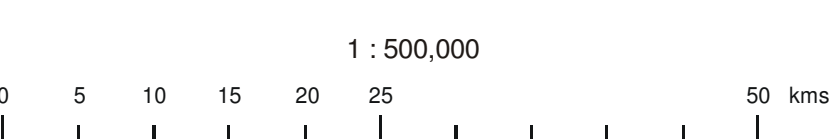
Geoscience BC is an industry-led, industry-focused not-for-profit society that works to attract mineral and oil and gas investment to British Columbia through collection and marketing of geoscience data.

MAP 2009-15-3

GEOPHYSICS - 3D INVERSION ANALYSIS
Bedrock and Deep Overburden Conductivity

QUEST PROJECT

1:250 000 NTS SHEETS 82M, 83D,E,L,M; 84D; 92M,N,O,P; 93D,E,L,M AND 94A,B,C,D
PART OF 1:250 000 NTS SHEETS 82M, 83D,E,L,M; 84D; 92M,N,O,P; 93D,E,L,M AND 94A,B,C,D



Universal Transverse Mercator Projection, Zone 10
Horizontal Datum: North American Datum 1983
Mean magnetic declination 2009: 10°18' E, decreasing 14.6' annually. Readings vary from 17°42' E in the southeast corner to 20°14' E in the northwest corner of the map.
September 16, 2009

Citation:
Geoscience BC (2009). QUEST Project - Geophysics - 3D Inversion Analysis: Bedrock and Deep Overburden Conductivity. Geoscience BC, Map 2009-15-3, scale 1:500 000.