

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.



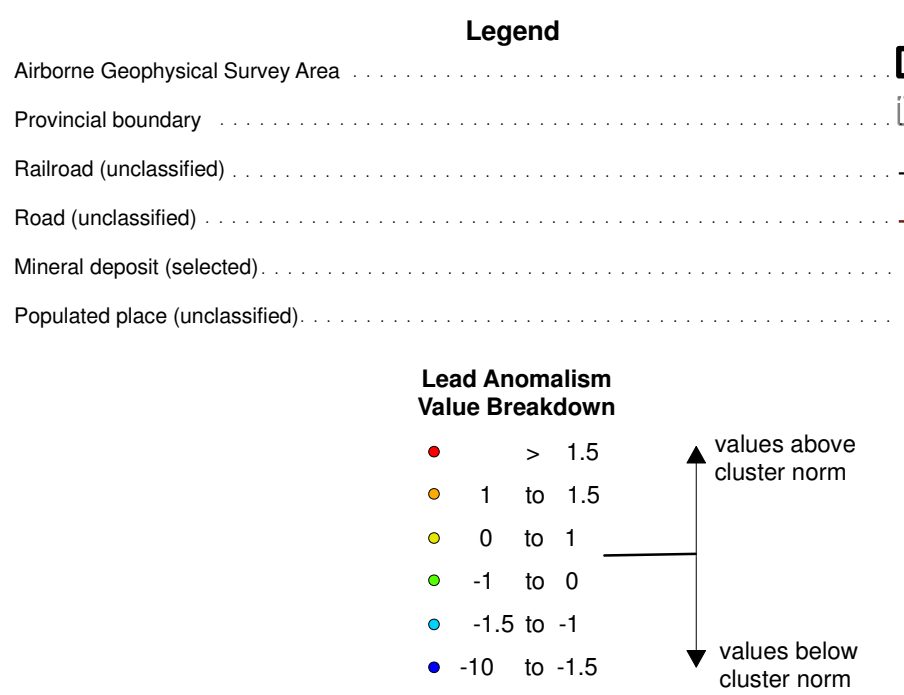
National Topographic System Index

[illegible]

Survey Location Map



Legen



QUEST Geochemistry CSIRO SOM Analysis - Cluster-Normalized Element Anomalies

The levelled and imputed element grids (Barnett and Williams, 2009) were intersected by the sample locations and the values assigned to the sample point. Note, missing element values have been imputed.

The SiroSOM procedure assigns each sample to a best-matching cluster (BMU) and samples that are similar tend to be assigned to either the same BMU or nearby BMUs that are close on the self-organized map. To assist with interpretation the SOM-derived BMU "vectors" were analyzed using K-means to produce 20 classes. Field samples have been coloured according to the cluster – assignment of their particular BMU.

"Cluster-Normalized" element anomaly maps have been produced with samples normalized to the mean and standard deviation of the K-means cluster to which a sample's BMU belongs. Users are cautioned that normalization by the K-means cluster mean may make intrinsically small values appear more anomalous, if they are not normally present in small amounts in a set of samples assigned to a cluster, but the normalization process applied here will make the higher values in this low valued group anomalous.

Data Analysis

Fraser, S.J., and Hodgkinson, J.H., (2009): An Investigation Using SiroSOM for the Analysis of QUEST Stream-Sediment and Lake-Sediment Geochemical Data. September 2009, Geoscience BC, Report 2009-14: CSIRO Exploration and Mining Report 2009/963. 64 p.

Geochemistry Data

Barnett, C. T. and Williams, P. M. (2009): Using geochemistry and neural networks to map

Original Date:

Jackaman, W. (2008): Regional Stream Sediment and Water Geochemical Data, Pine Pass, British Columbia (NTS 930); Geoscience BC, Report 2008-7

Jackaman, W. (2008): Regional Lake Sediment and Water Geochemical Data, Northern Fraser Basin, Central British Columbia (parts of NTS 93G, H, J, K, N & O); Geoscience BC, Report 2008-5

Jackaman, W. (2008): QUEST Project Sample Reanalysis; Geoscience BC, Report 2008-3

Jackaman, W. (2007): Regional drainage sediment and water geochemical data, South

Lett, R.E.W. and Blumel, B. (2006): Re-analysis of regional geochemical survey stream

Jackaman, W. (2005): Regional drainage sediment and water geochemical data. Anahim

Letti, R.E.W. (2005): Regional Geochemical Survey Database on CD. BC Ministry of Energy.

Topographic Data

Massey, N.W.D.
Map of British C

Data Sources

Geoscience BC Ministry of Energy, Mines and Petroleum Resources

www.geos

Acknowledgments

Cartography by Fion Ma, Geoscience BC

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

National Research
FLAGSIPS
Minerals Down Under

 **CSIRO**

Northern
Development
INITIATIVE TRUST



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 2009-14-30

GEOCHEMISTRY - CSIRO SOM ANALYSIS
Cluster-Normalized Lead Anomalism

1:250 000 NTS SHEETS 93A,B,C,F,G,H,I,J,K,N,O,P

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

1 : 500,000

0 5 10 15 20 25 50 kms

Universal Transverse Mercator Projection, Zone 10
Horizontal Datum: North American Datum 1983

Mean magnetic declination 2009, 19°26' E, decreasing 16.6' annually. Readings vary from 17°42' E in the southeast corner to 20°47' E in the northwest corner of the map.

September 16, 2009

Citation: Geoscience BC (2009): QUEST Project - Geochemistry - CSIRO SOM Analysis: Cluster-Normalized Lead Anomalism; Geoscience BC, Map 2009-14-30, scale 1 : 500 000.

GEOSCIENCE BC - QUEST - GEOCHEMISTRY - CSIRO SOM ANALYSIS