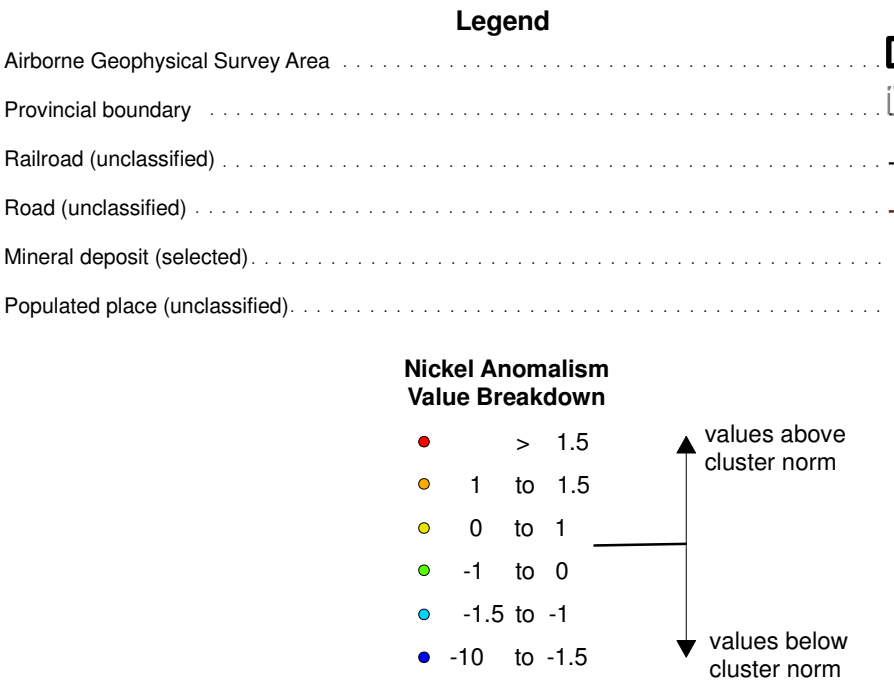


National Topographic System Index							
154F POODROCK RIVER	086E RIVER	086F WAVE	086G TRUTH	086H RIVER	086I RIVER	086J RIVER	086K RIVER
154S POODROCK CHL	086L CHL	086M RIVER	086N RIVER	086O LAKE	086P LAKE	086Q LAKE	086R LAKE
154P POODROCK RIVER	086S RIVER	086T RIVER	086U RIVER	086V RIVER	086W RIVER	086X RIVER	086Y RIVER
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154X POODROCK RIVER	086U RIVER	086V RIVER	086W RIVER	086X RIVER	086Y RIVER	086Z RIVER	086A RIVER
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154U POODROCK RIVER	086H RIVER	086I RIVER	086J RIVER	086K RIVER	086L RIVER	086M RIVER	086N RIVER
154V POODROCK RIVER	086O RIVER	086P RIVER	086Q				



QUEST Geochemistry CSIRO SOM Analysis - Cluster-Normalized Element Anomalism

The SimSOM procedure assigns each sample to a best-matching unit (BMU) and samples are simultaneously trained to be assigned to either the same BMU or nearby BMUs that are close on the 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 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 inordinately small anomalies in samples that are normally only present in small amounts. The assignment of samples assigned to a cluster, then the normalization process applied here will make the high 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 2009/983. 64 p.

Geochemistry Data

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Jackaman, W. (2008): Regional Lake Sediment and Water Geochemical Data, North Fraser Basin, Central British Columbia (parts of NTS 93G, H, J, K, N & O); Geoscience BC, Report 2008-7

Jackaman, W. (2007): Regional drainage sediment and water geochemical data, Skeena, Nechako Basin and Cariboo Basin, central British Columbia (parts of NTS 92N, O, P, 93A). Geoscience BC, Report 2007-6, 332 p.

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Jackaman, W. (2006): Regional drainage sediment and water geochemical data, An Lake and Nechako River, central British Columbia (NTS 93C & 93F); Geoscience BC, R 2006-4, 463 p.

Lett, R.E.W. (2005): Regional Geochemical Survey Database on CD, BC Ministry of Energy, Mines and Petroleum Resources, Geofile 2005-17.

Topographic Data

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Data Sources

Geoscience BC
www.geosciencebc.com

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

Acknowledgments

Numerical analysis by CSIRO, Australia - www.csiro.au

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National Research  Northern 

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www.geosciencebc.com

MAP 2009-14-28
GEOCHEMISTRY - CSIRO SOM ANALYSIS

QUEST PROJECT

QUEST PROJECT
1:250 000 NTS SHEETS 83A B C E G H I J K N O P

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

0 5 10 15 20 25 30 35 40 45 50 km

A horizontal scale bar for the Universal Transverse Mercator Projection, Zone 10. The bar is divided into 10 equal segments. Above the bar, the numbers 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10 are printed, corresponding to each segment. Below the bar, the text "Universal Transverse Mercator Projection, Zone 10" is printed.

Horizontal Datum: North American Datum 1983

Citation:

Geoscience BC (2009): QUEST Project - Geochemistry - CSIRO SOM Analysis: Cluster-Normalized Nickel Anomalism; Geoscience BC, Map 2009-14-28, scale 1 : 500 000.

GEOSCIENCE BC - QUEST - GEOCHEMISTRY - CSIRO SOM ANALYSIS