
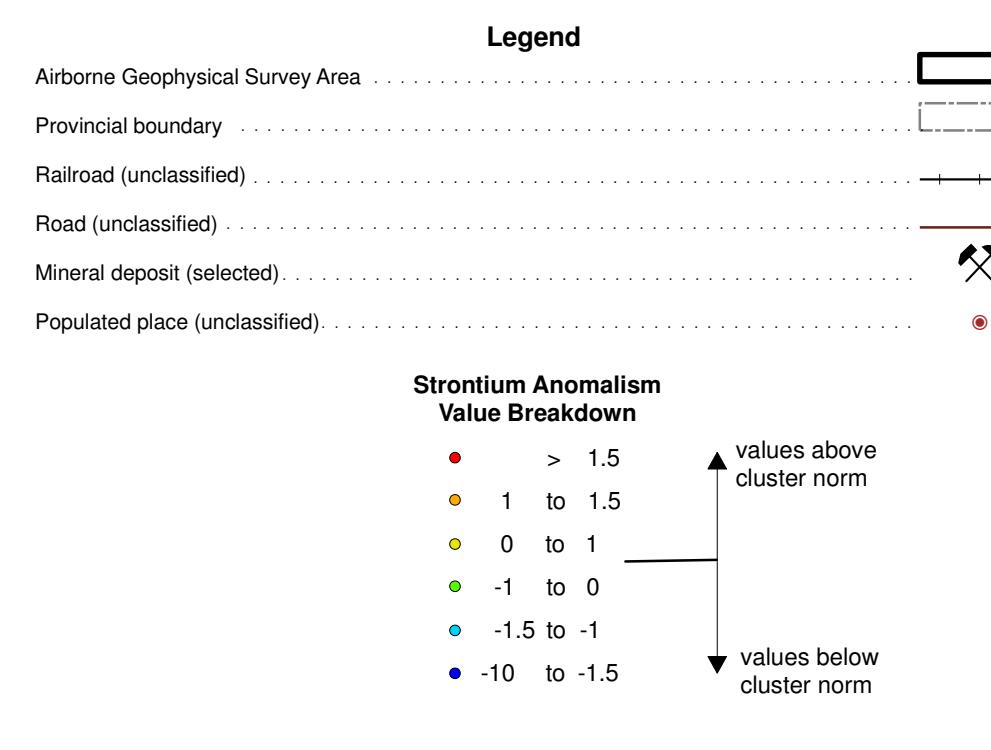


# GEOSCIENCE BC - QUEST - GEOCHEMISTRY - CSIRO SOM ANALYSIS



Location Map



## QUEST Geochemistry CSIRO SOM Analysis - Cluster-Normalized Element Anomalous

The located 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 CSIRO procedure assigns each sample to a best-matching unit (BMU) and samples that are similar tend to be assigned to the same or nearby BMUs. These are then clustered using K-means to produce 20 classes. Field samples have been coloured according to the cluster they belong to.

"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 numbers appear large. The mean normally only presents a small amount in a set of samples assigned to a cluster, then the normalization process applied here will make the higher values in that cluster group anomalous.

## Data Analysis

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## Geochemistry Data

Levelled Data

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## Topographic Data

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## Data Sources

Geoscience BC [www.geosciencebc.com](http://www.geosciencebc.com)

## Acknowledgments

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Numerical analysis by CSIRO Australia [www.csiro.au](http://www.csiro.au)

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Geoscience BC Geoscience BC is an industry-relevant, industry-focused not-for-profit society that works to attract research and job investment to British Columbia through creation and marketing of geoscience data. [www.geosciencebc.com](http://www.geosciencebc.com)

MAP 2009-14-37

## GEOCHEMISTRY - CSIRO SOM ANALYSIS

### Cluster-Normalized Strontium Anomalous

## QUEST PROJECT

1:250 000 NTS SHEETS 93A,B,C,F,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

1:500,000  
Universal Transverse Mercator Projection, Zone 10  
Horizontal Datum: North American Datum 1983  
Mean magnetic declination: 19.28° E, decreasing 1.6° annually. Readings vary from 17° to 22° E in the southeast through the northeast corner of the map.

September 16, 2009  
Citation: Geoscience BC (2009) QUEST Project - Geochemistry - CSIRO SOM Analysis: Cluster-Normalized Strontium Anomalous; Geoscience BC, Map 2009-14-37, scale 1:500,000.