

Minerals North 2009 Fort St. James

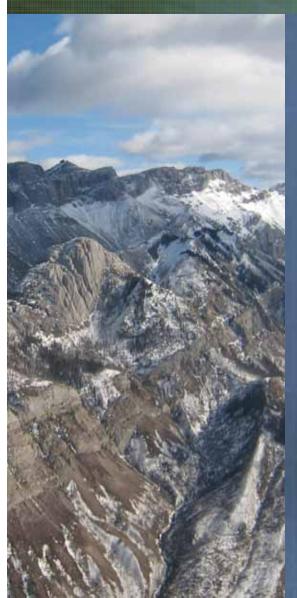
Geoscience BC Update & 2009 Planned Activities

Geoscience BC:
British Columbia's
Exploration Centre of Excellence





Geoscience BC



- Industry-led, industry-focused, nongovernment research organization:
 - collection, interpretation and delivery of applied geoscience data and expertise
 - promoting investment in resource exploration and development in BC
 - complementing the work of the B.C. Geological Survey and GSC
 - supporting and enhancing the critical mass of exploration expertise in BC
 - BC's Exploration Centre of Excellence
- Geoscience BC Team:
 - Volunteer Board of Directors
 - Volunteer Technical Advisory Committees
 - Project Team and Staff (NEW)



Projects To-Date

- 47 Partnership Projects
 - GBC: \$6.6 Million
 - Matching: \$5.6 Million
 - 19 projects completed
- 3 Major Regional Projects all in partnership with Northern Development Initiative Trust
 - QUEST
 - QUEST-West
 - Nechako Seismic



GBC's Contributions to the Provincial Geoscience Knowledge Base

New Geophysical Data:

- >50,000 line-km airborne gravity (2 km spacing) QUEST and Q-W
- > 25,000 line-km of time-domain EM (4 km) QUEST and Q-W
- Detailed TEM over 7 deposits, + ZTEM test QUEST and Q-W
- 330 line-km Vibroseis seismic data Nechako Basin
- High Res Airborne Mag + Radiometrics Bonaparte Lake
- 1:250K HRAM Jennings River sheet

New Geochemical Data

- > 11,000 re-analyses of archived, drainage sediment samples
- > 7,500 new drainage sediment samples collected and analyzed
- Orientation studies over covered deposits

Student Training

- Numerous student theses projects and undergraduate training
- 21 graduate student scholarships awarded

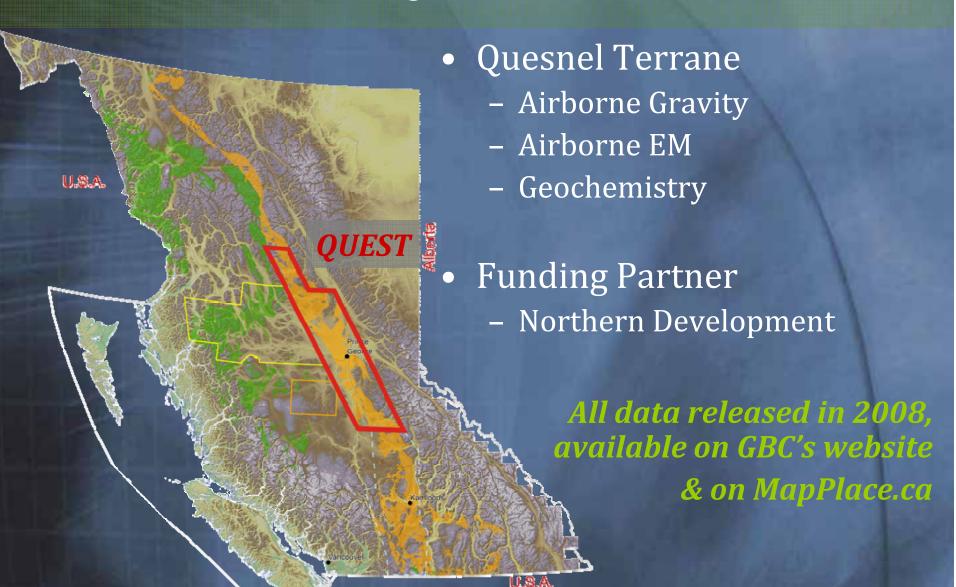
Industry Investment

 Over 1 Million hectares of mineral claim staking stimulated by GBC projects and data releases





QUEST

















- Northern Development
- Regional Districts
- BC Geological Survey



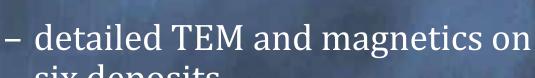




- Airborne Gravity
- Airborne TEM and Magnetics
- Geochemistry

six deposits

• Case Studies:

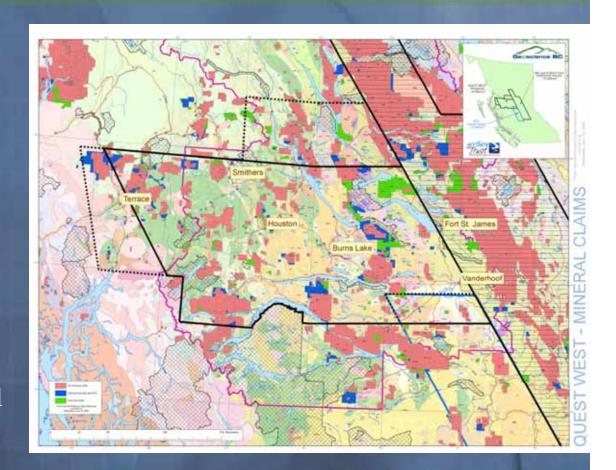








- Strong community support
- Northern Development Initiative Trust grant to extend surveys to north and west
- Airborne surveys complete, Sander and Aeroquest
- Geochem survey complete, samples at lab for analysis, Noble Exploration and EcoTech Labs
- Partnership with BCGS on till geochemistry in Babine Lake area, data just released
- RFP for follow-up projects issued April 8



QW Airborne Gravity

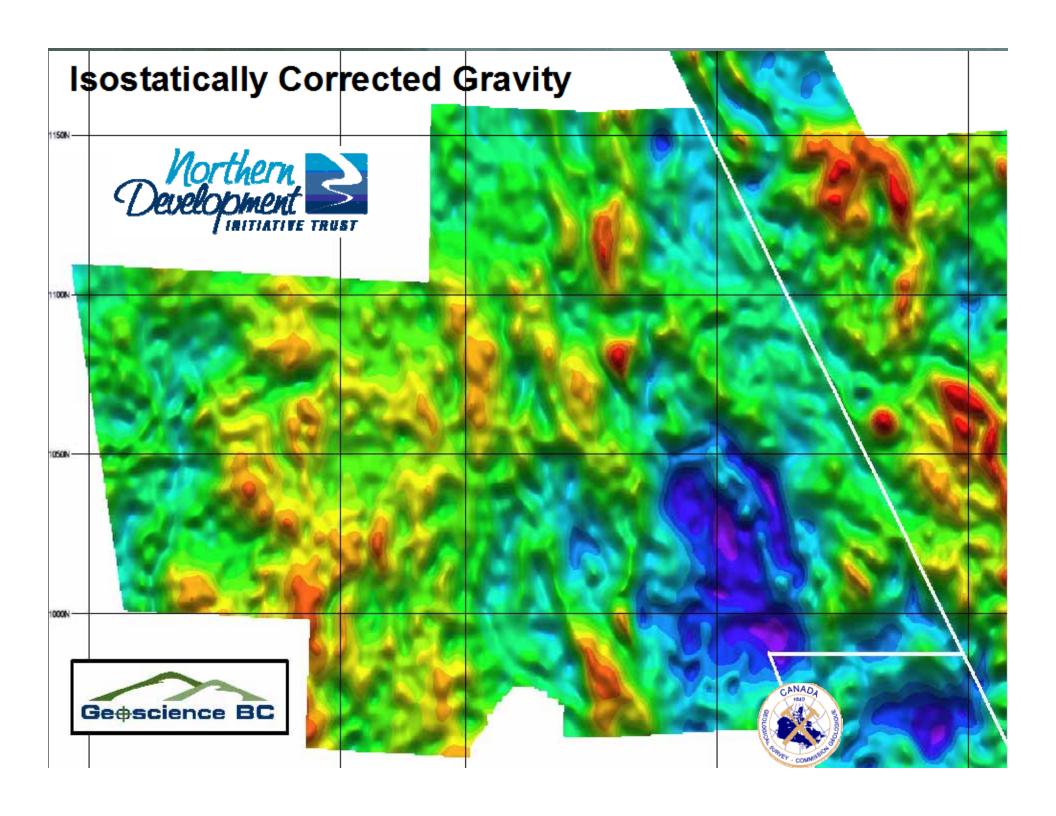
-photos courtesy of Owen Peterson, Sander Geophysics

Contract to Sander Geophysics for
 23,000 + line-km of airborne gravity



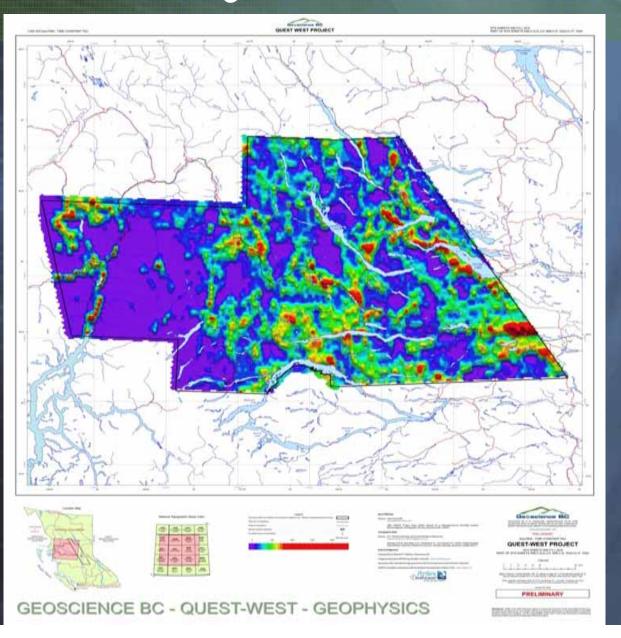








QUEST-West TEM



regional survey at 4 km line-spacing, plus detail over 6 deposits, flown by Aeroquest International
Data inversion coming "soon"

•Gary Tipper, Aeroquest

Image generated by BW Mining

QUEST-West: Aeroquest 'AeroTEM' System





- Aeroquest's Time Domain Electromagnetic system, AeroTEM III, plus aeromagnetic sensor
- Helicopter-mounted
- Two systems on the survey
- Crew based out of a number of communities in the area: Smithers, Terrace, Houston, Burns Lake, Fort St James



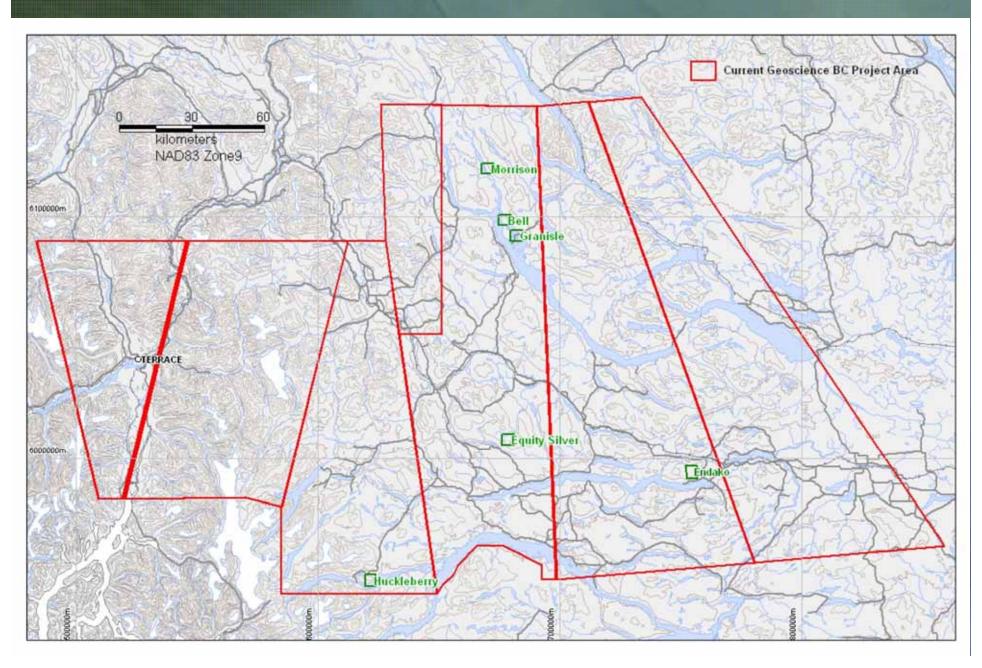


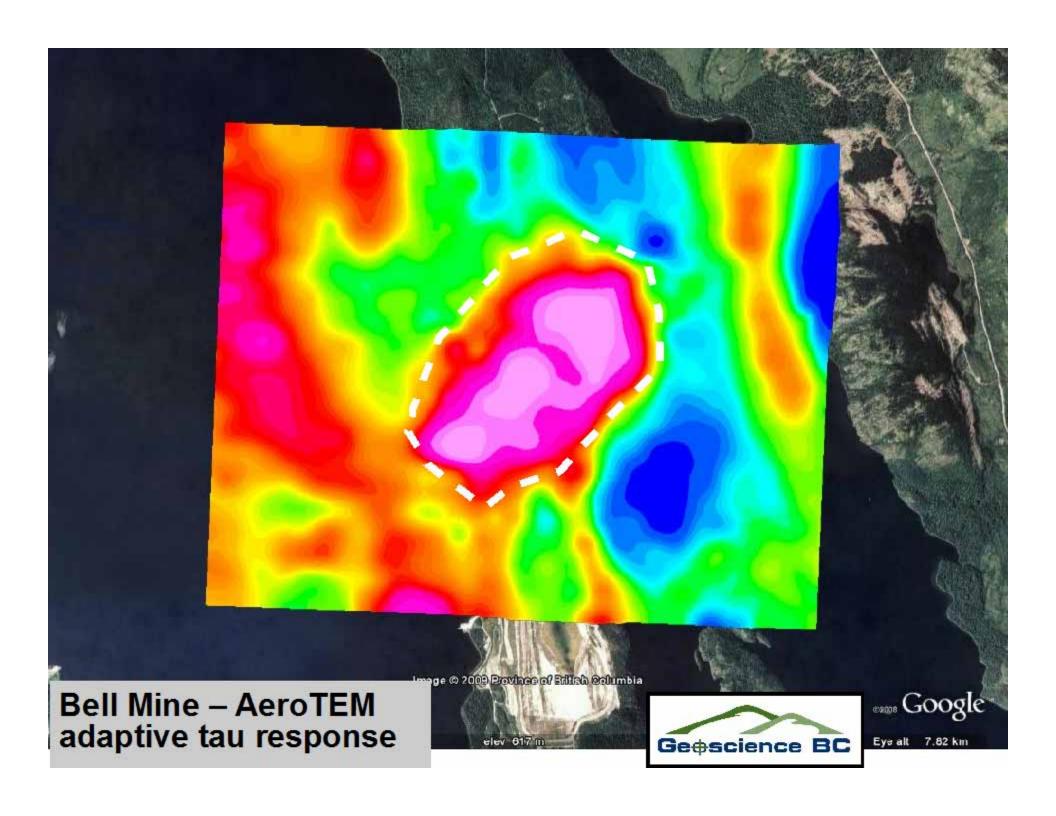
QUEST-West TEM

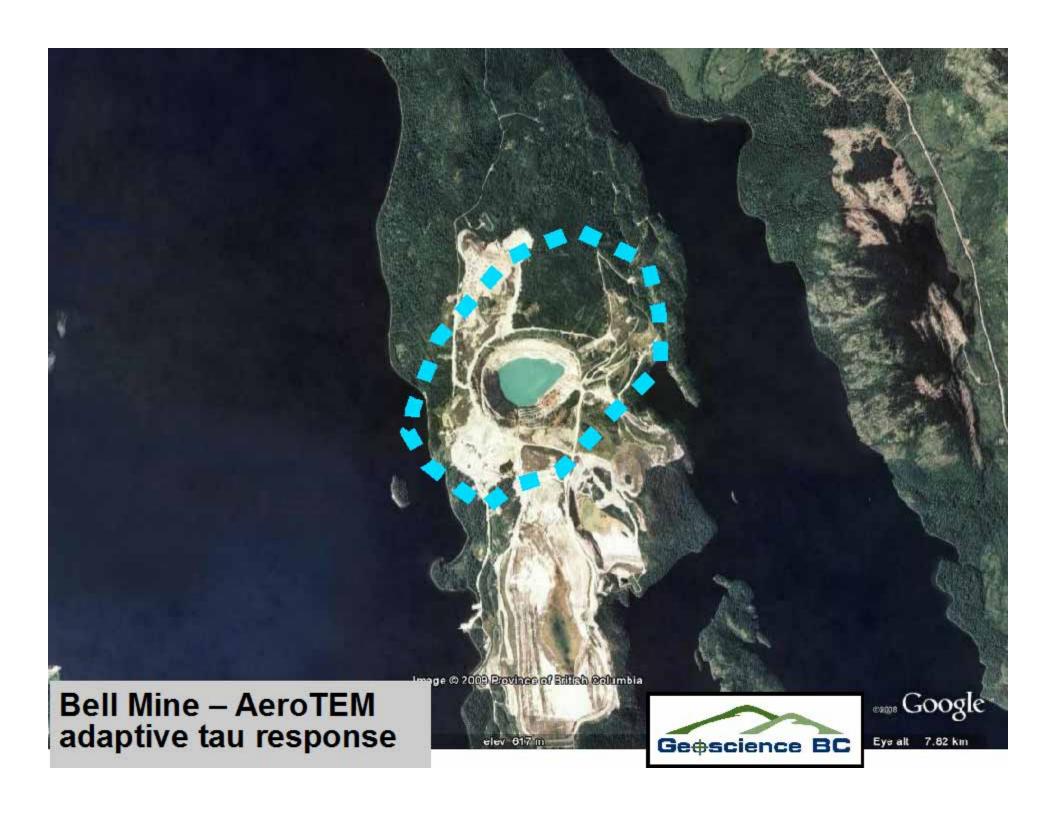
- •Detailed Airborne TEM data collected over six deposits (producers, past-producers and developing prospect):
 - Bell
 - Granisle
 - Morrison
 - Endako
 - Equity Silver &
 - Huckleberry
- plus detailed VTEM and ZTEM at Mt Milligan
- •GBC using these case studies to develop guides to interpretation of regional data

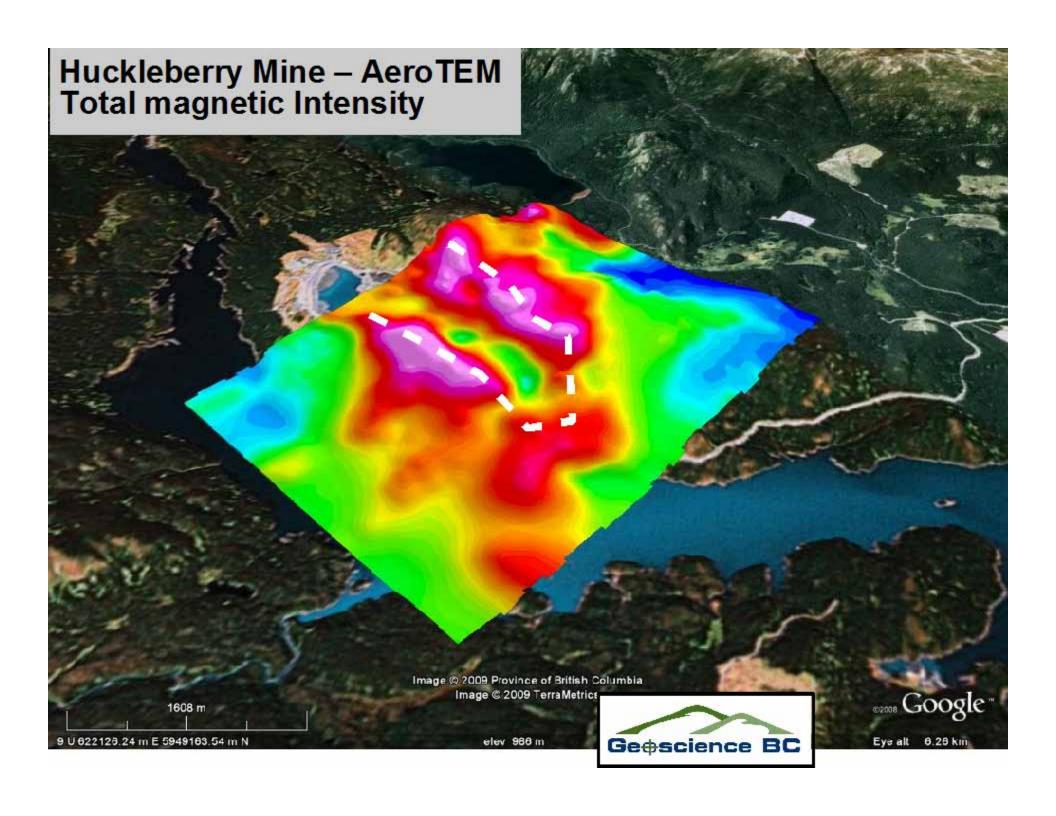
Locations of six detailed AeroTEM case studies in QUEST-West









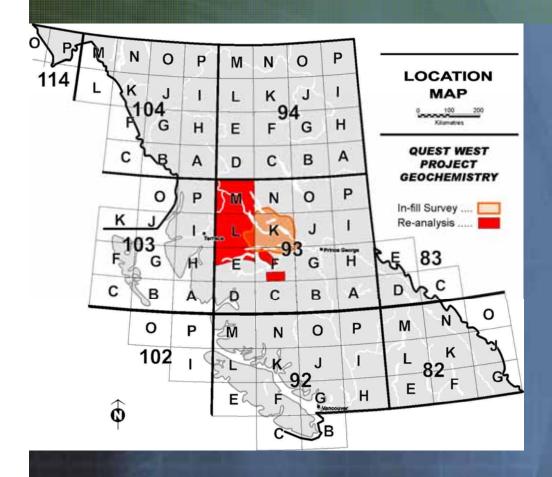








QUEST-West Geochem



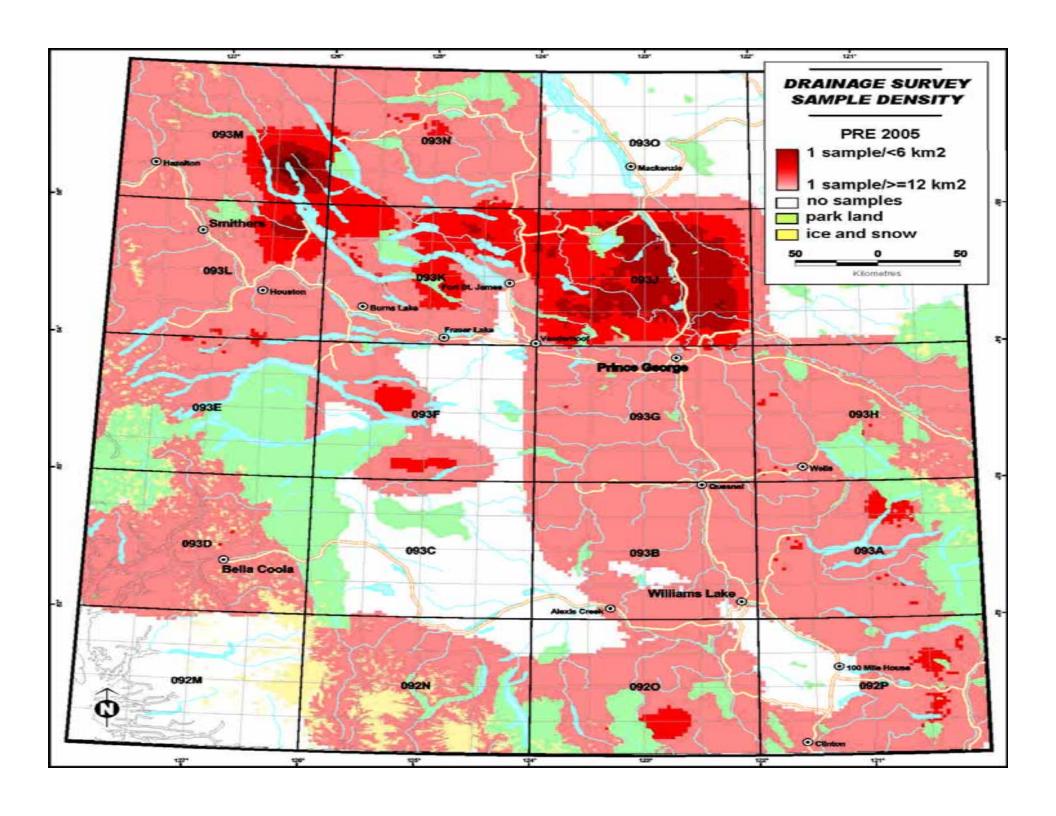
Geochem reanalyses: published in Geoscience BC Report 2009-05

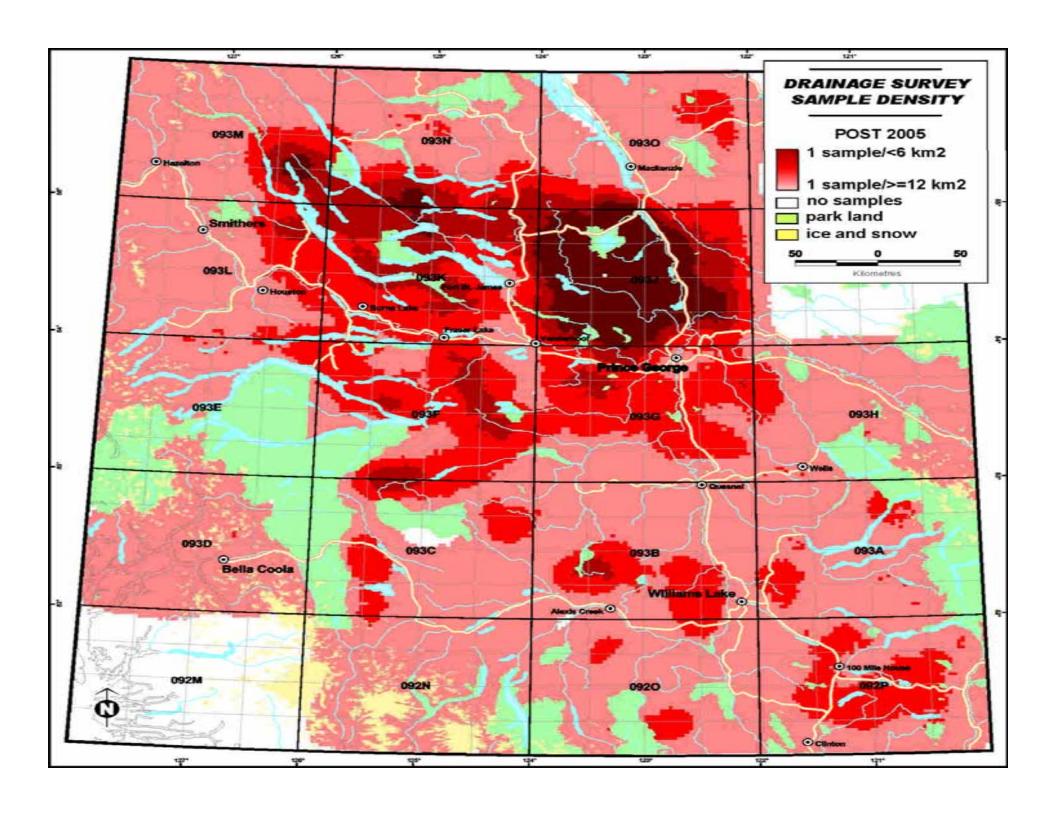
Report includes ICP-MS results for a total of 3479 stream and lake sediment samples, parts of NTS map sheets 93E, F, L, and M

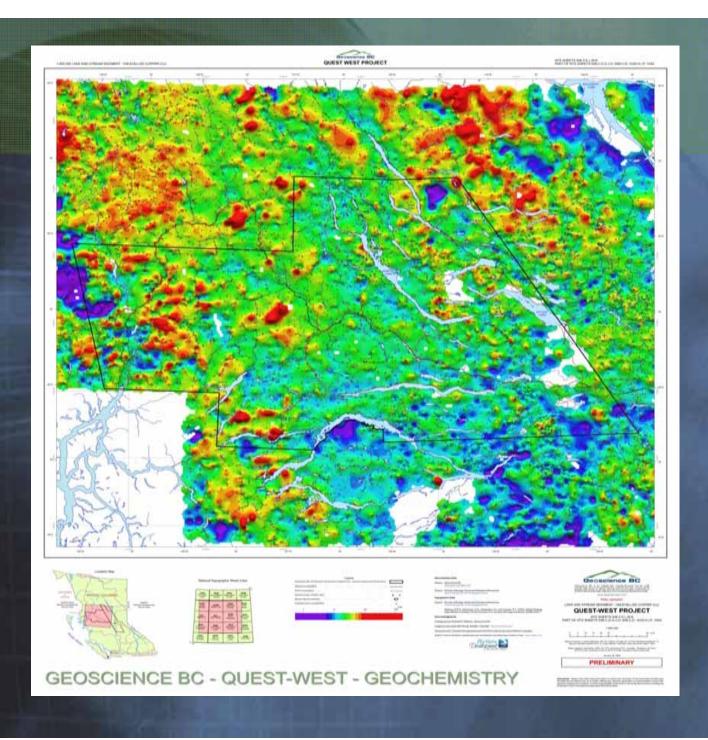
These surveys were originally conducted by government from 1983 to 1996 (Lett, 2005)

New infill sampling conducted in 2008. Results to be available soon

Recent data release of till geochem around Babine Lk – joint project with BCGS









Geochem reanalysis sample coverage: unleveled copper.

Image and contouring by BW Mining

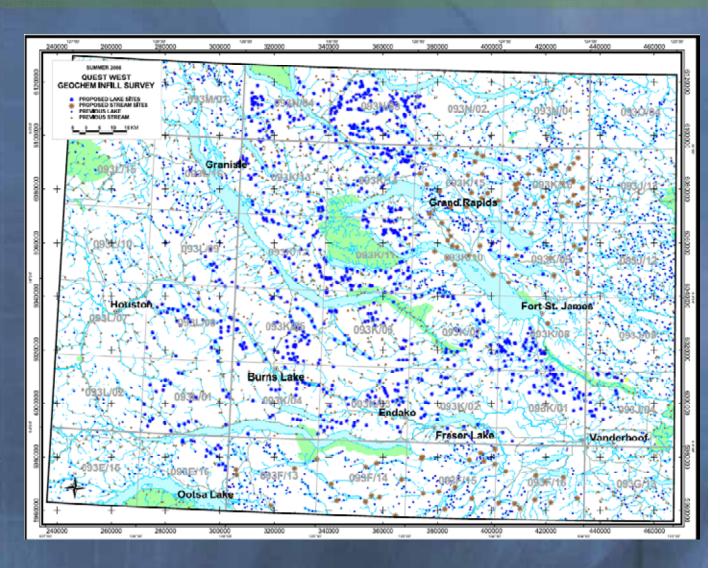


Q-W Upcoming Data Release

New QUEST-West in-fill lake (905) and stream (102) sediment samples with ICP and INA results, from an area close to 12,000 sq km

Data to be released in mid-May

(Hint: several unstaked anomalies in new data set.)

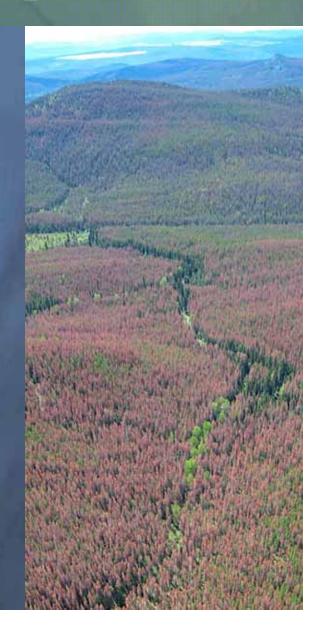




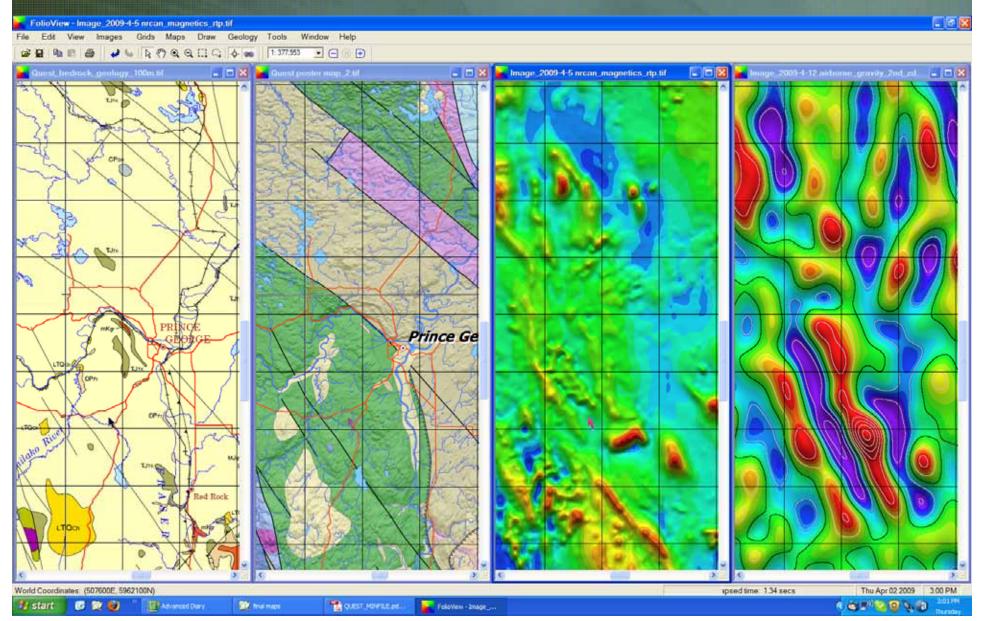
QUEST Follow-up

"Value added" projects for the QUEST Project Area:

- Two projects focus on geochemistry
 - BW Mining Neural Networks
 - CSIRO Self-organizing maps
- Geophysical Data
 - Mira Geoscience inversions and interp
- Update of Minfile and Property File
- Drift prospecting project Ward
- GIS compilation Williams
- Google Earth Data Explorer query tool for geochem
- ZTEM test survey over Mt Milligan
- BC GeoMap Update QUEST Area, with BCGS and GSC

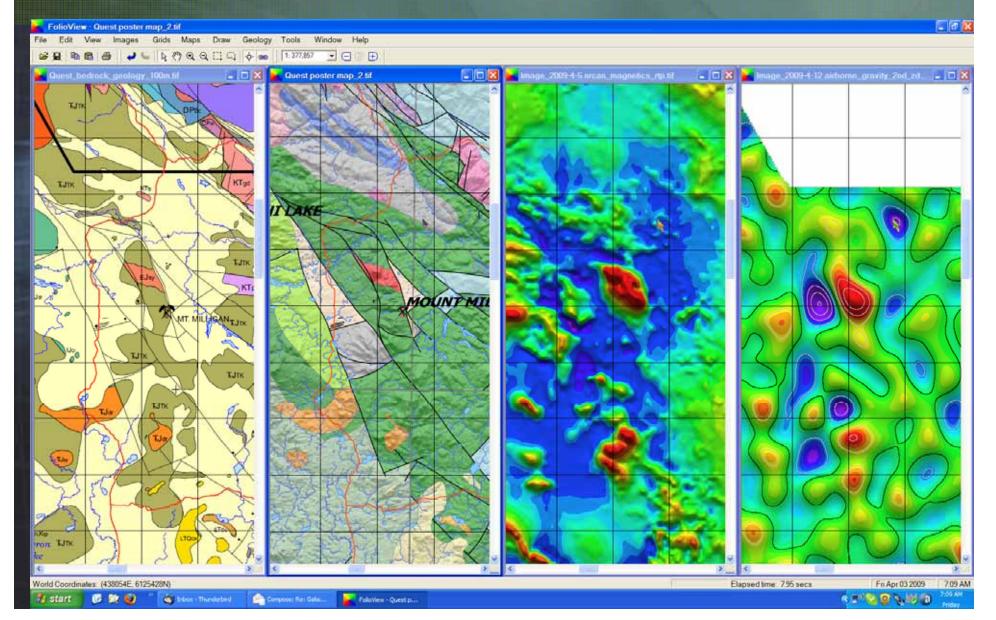


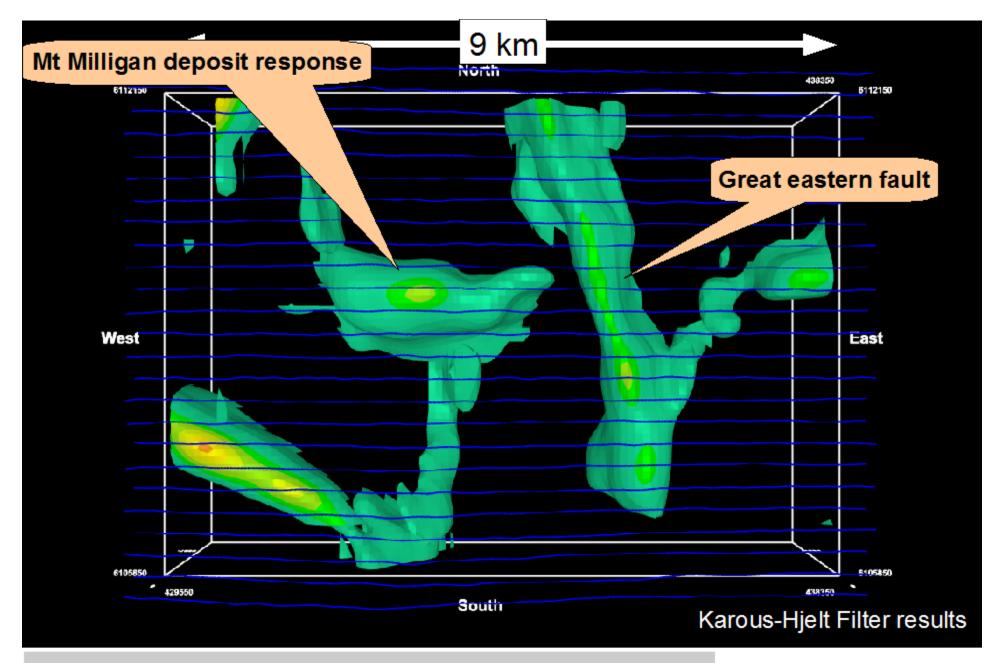
BC GeoMap Update - QUEST Area Geoscience Geology Under Cover: Prince George



BC GeoMap Update - QUEST Area Geoscience Geology Under Cover: Mt. Milligan







Mt. Milligan ZTEM test survey – NS & EW features. 200 meter flight line separation



2009 New Projects

- Geophysical case studies from deposits in QUEST and QUEST-West
- Nicola Arc Lithogeochemistry, QUEST area
- Mapping in Grand Forks Area, SE BC

REQUEST FOR PROPOSALS!!!

- Issued April 08, 2009
- Analysis and Follow-up of QUEST and QUEST-West Project Geoscience
- Deadline for submission is noon (Pacific) on Monday April 27th, 2009.



NEW: QUEST-South

Phase 1

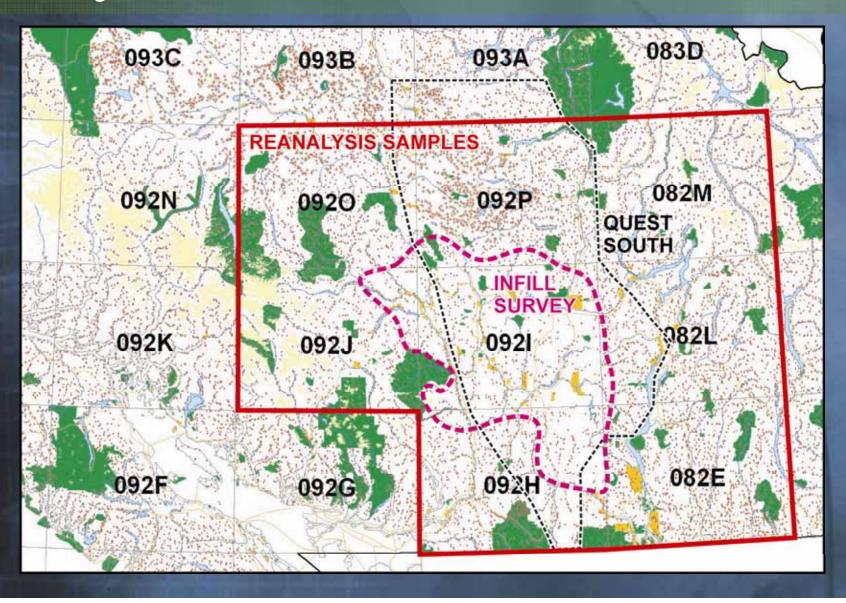
- Geochemical reanalysis: over 9000 samples, NTS sheets 82 E, L, M, 92 H, I, J, P, O
- New stream sediment and soil sampling: over 1000 new samples, area of focus 92 H & I, Princeton – Merritt – Ashcroft areas

Phase 2

 New geophysics: techniques and target areas - TBD after more analysis of QUEST and QW geophysics results by our Project Team and Technical Advisory Committee



QUEST - South Phase 1: Geochem



For More Information: See our Booth, call us, or visit our website www.geosciencebc.com

