

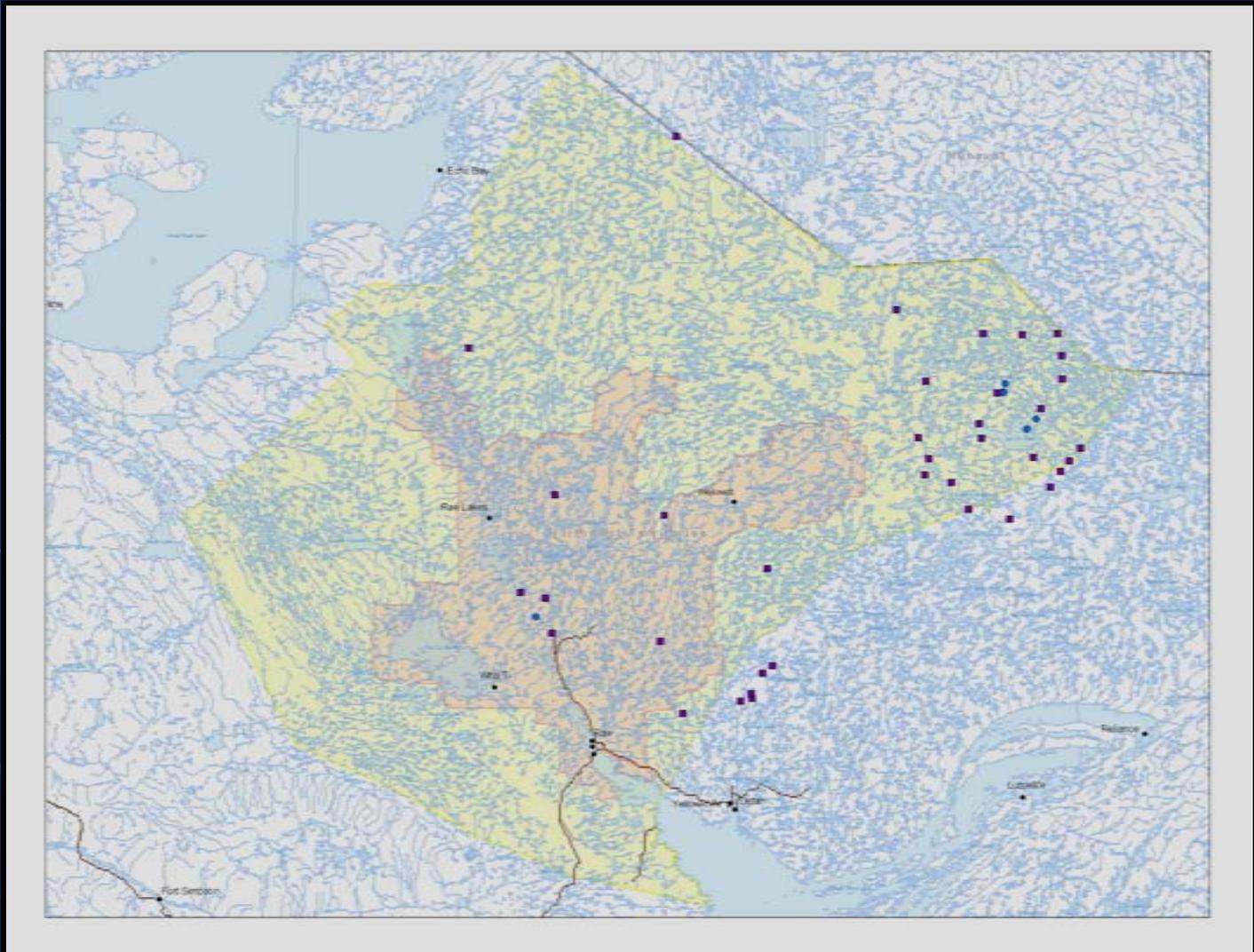
# Mineral Exploration in Wek'èezhìi

# Mineral Exploration in Wek'èezhìi

- 37 mineral exploration files, 25 different proponents
- Mostly land use permits
- Mostly private companies, some government mapping



# Mineral Exploration in Wek'èezhìi



# Mineral Exploration

- Goal: target an ore body for mining
- Activities include:
  - Sampling/Mapping
  - Geophysics Survey
  - Drill Program
  - Bulk Samples



# Triggers

- Camps, fuel, explosives, heavy equipment, and trails → LUP
- Water usage and waste deposition → WL



Fortune Minerals, Road



Peregrine Diamonds, Fuel

# LUP Triggers

- Camps:
  - 200 person days or more
- Fuel:
  - cache larger than 4000 litres
- Trails:
  - wider than 10m



# Water License Triggers

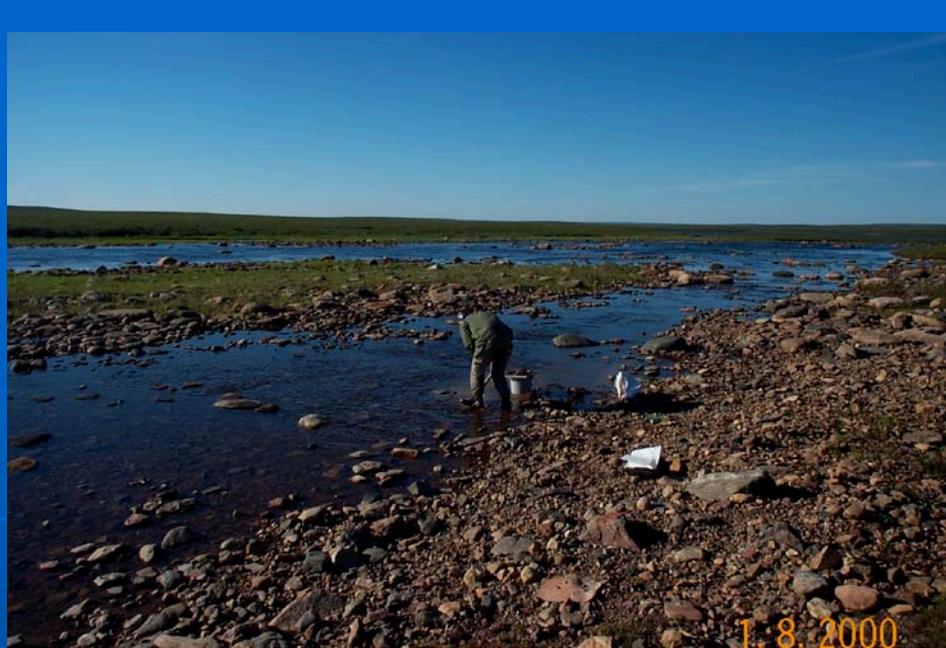
- Water Use:  $> 100$   $m^3$  of water is used
- Waste Disposal
- Major Stream Crossings or In-stream Works



# Geological Mapping/Sampling

- Examine rocks and land features, collect samples for examination and analysis
- Low impact
- LUP required if camp or fuel storage triggers met



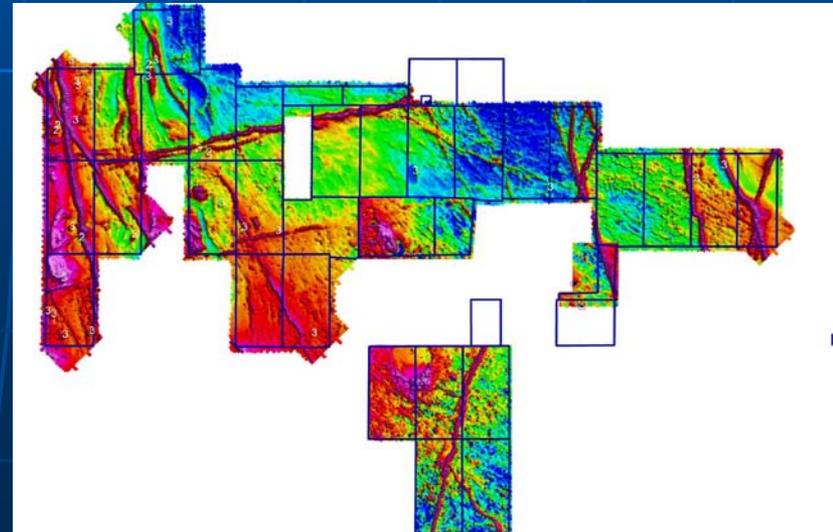


# GEOLOGICAL SAMPLING



# Geophysics Surveys

- Determine what is beneath the earth: magnetic, gravity, seismic, etc.
- LUP (camps, fuel cache, trails, line cutting, heavy equipment)
- WL if triggers are met



# GEOPHYSICS SURVEYS



19. 6. 2000



# DRILL PROGRAM

- Land Use Permit
- Water License



# LUP Conditions (Example)

- Dispose of all combustible waste petroleum products by incineration or removal.
- Recirculating drill if close to high water mark.
- Notify inspector of drill locations prior to drilling
- Non-toxic drill waste to a sump
- Toxic drill waste off-site
- All drill waste removed from ice surface

# Bulk Sampling

- Extract a large sample for analysis
- Determine quality and size of the ore body
- LUP & WL
  - Fortune Minerals' Nico Au-Co-Bi-Cu Project
  - Merc's Damoti Lake Gold Project



1 Tonne Sample Bags

# Water License Conditions (Example)

- Effluent criteria
- Water sampling requirements
- Plans (A&R, Minewater, Contingency)

