



MIDLAND
EXPLORATION

TSX-V:MD

Eleonore Centre Project



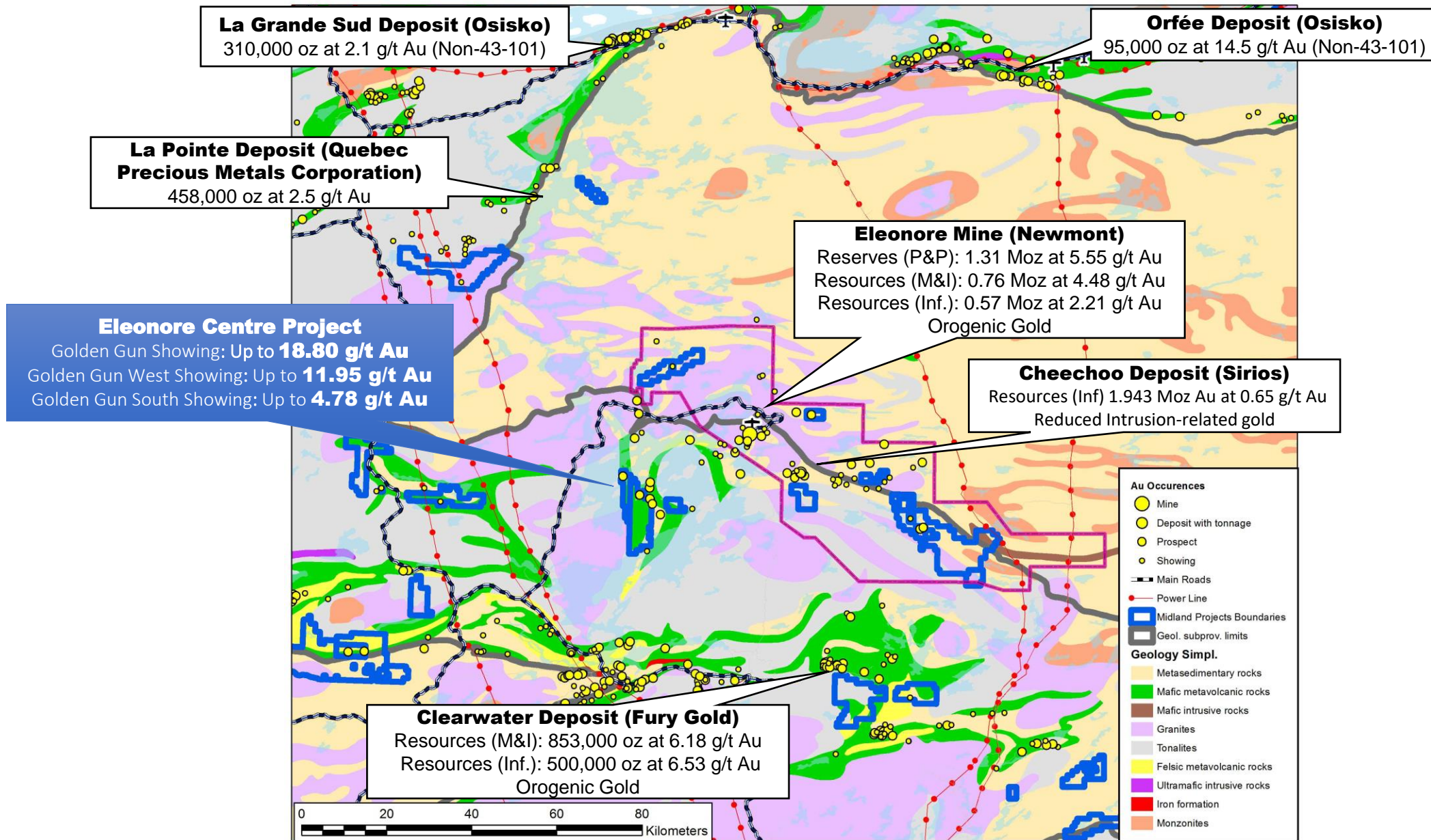
June 2024

Eleonore Centre Project Highlights



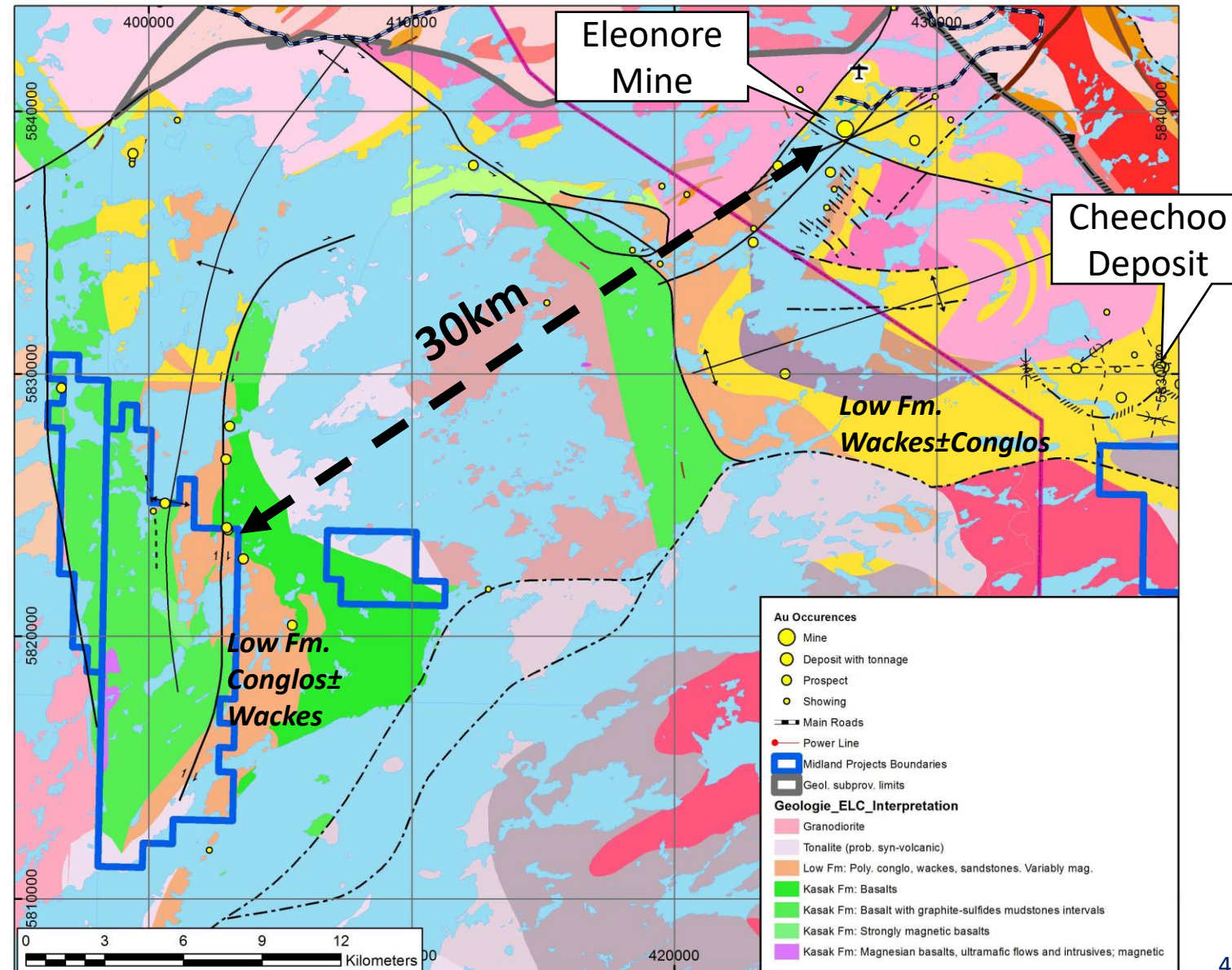
- ✓ Polymictic conglomerates, wackes (Low Formation) and mafic volcanics belt that are stratigraphically equivalent to the Eleonore mine sequence;
- ✓ Several major shear zones recognized to be gold-bearing; none ever drilled;
- ✓ Several gold showings, at sheared volcanics/conglomerates contacts → typical of major orogenic gold districts;
- ✓ Three mineralization types: 1) classic Qtz-Tml veins (Au-W association) 2) polymetallic sulfides with Ag-Au±As±Cu±Co±Zn, mostly at volcanics/conglomerates contacts 3) Cu-Mo-W-Ag-Au at tonalite - VSED contacts;
- ✓ The favorable volcanics/conglomerates contacts were never tested by drillholes; present over 20 km long on the project – No drillhole ever for gold on the project!
- ✓ Many IP anomalies remain untested, and IP coverage still partial, with much of the favorable structures and contacts not covered.

James Bay – Eleonore Centre Area Gold Prospects



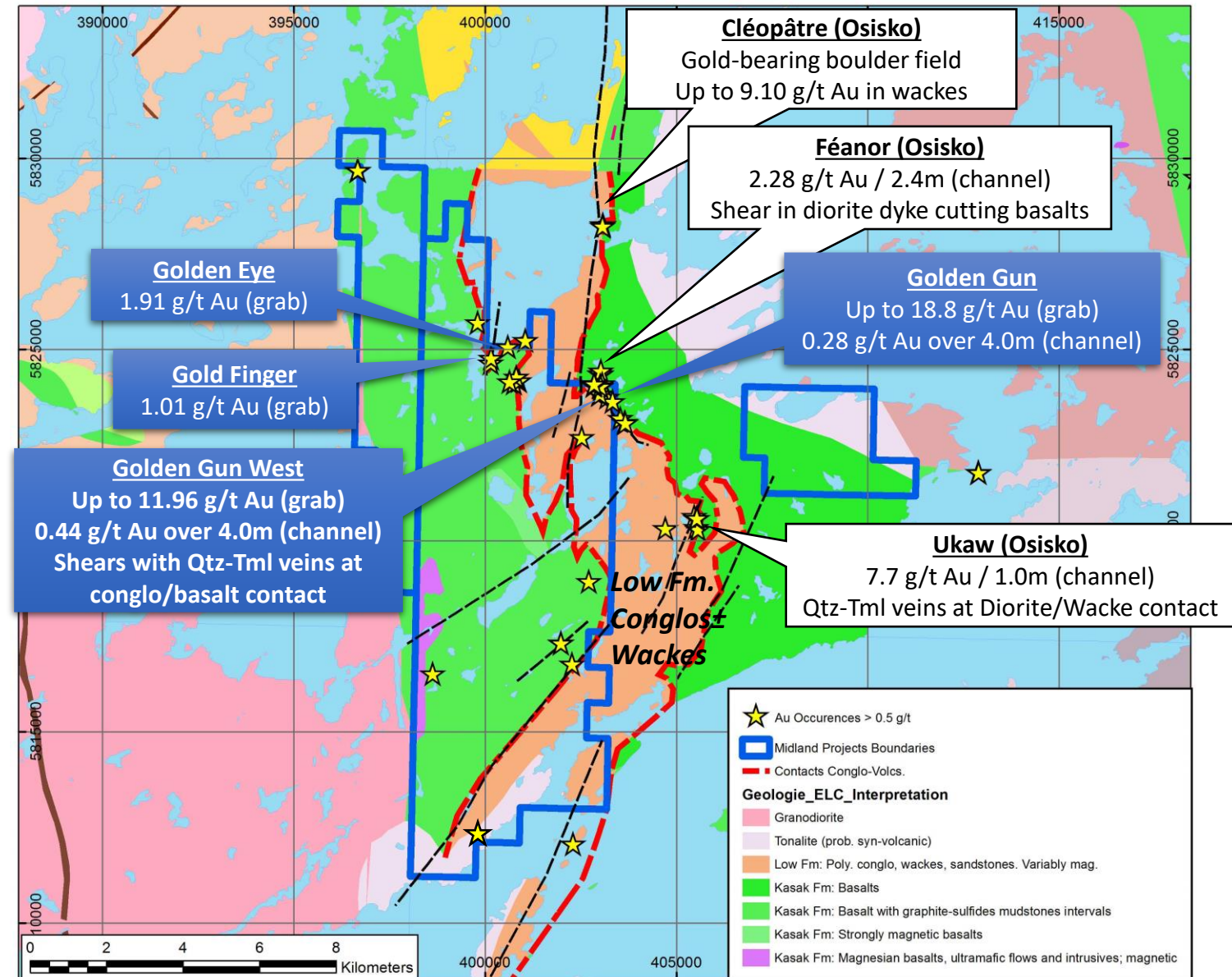
James Bay – Eleonore Centre Area Gold Prospects

- Eleonore Centre project located about 30 km SW of the Eleonore Mine
- Same stratigraphic setting as Eleonore Mine area, with **abundant Low Fm. polymictic conglomerates/wackes, in sheared contacts with mafic volcanics**
- Polymictic conglomerates more abundant at Eleonore Centre than Eleonore



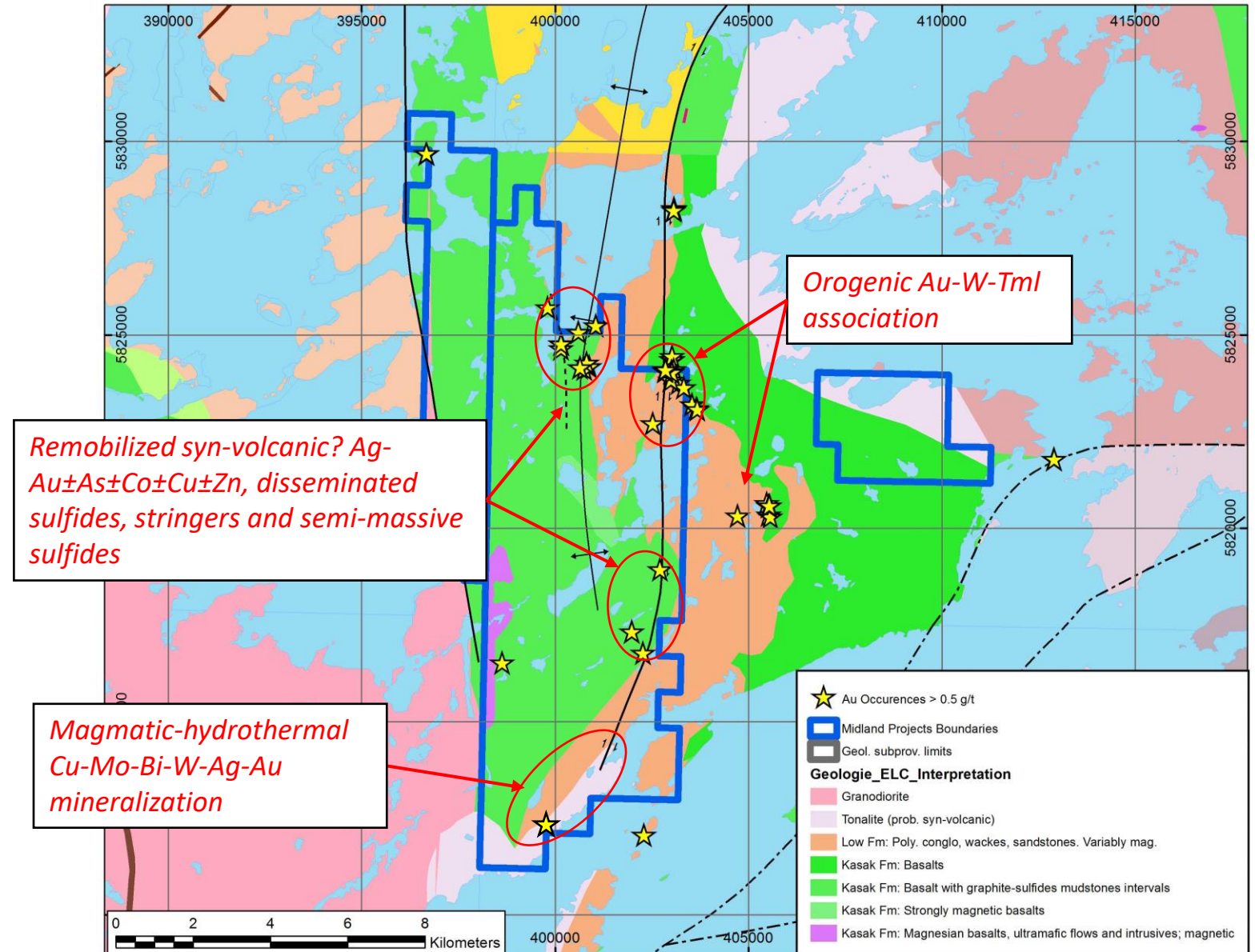
Eleonore Centre – Gold Showings

- Most gold showings on the project and on the adjacent Osisko project are located **at/near contacts between Low polymictic conglomerates and mafic volcanics (red)**
- Grassroots stage exploration; no drilling for gold ever done on the project



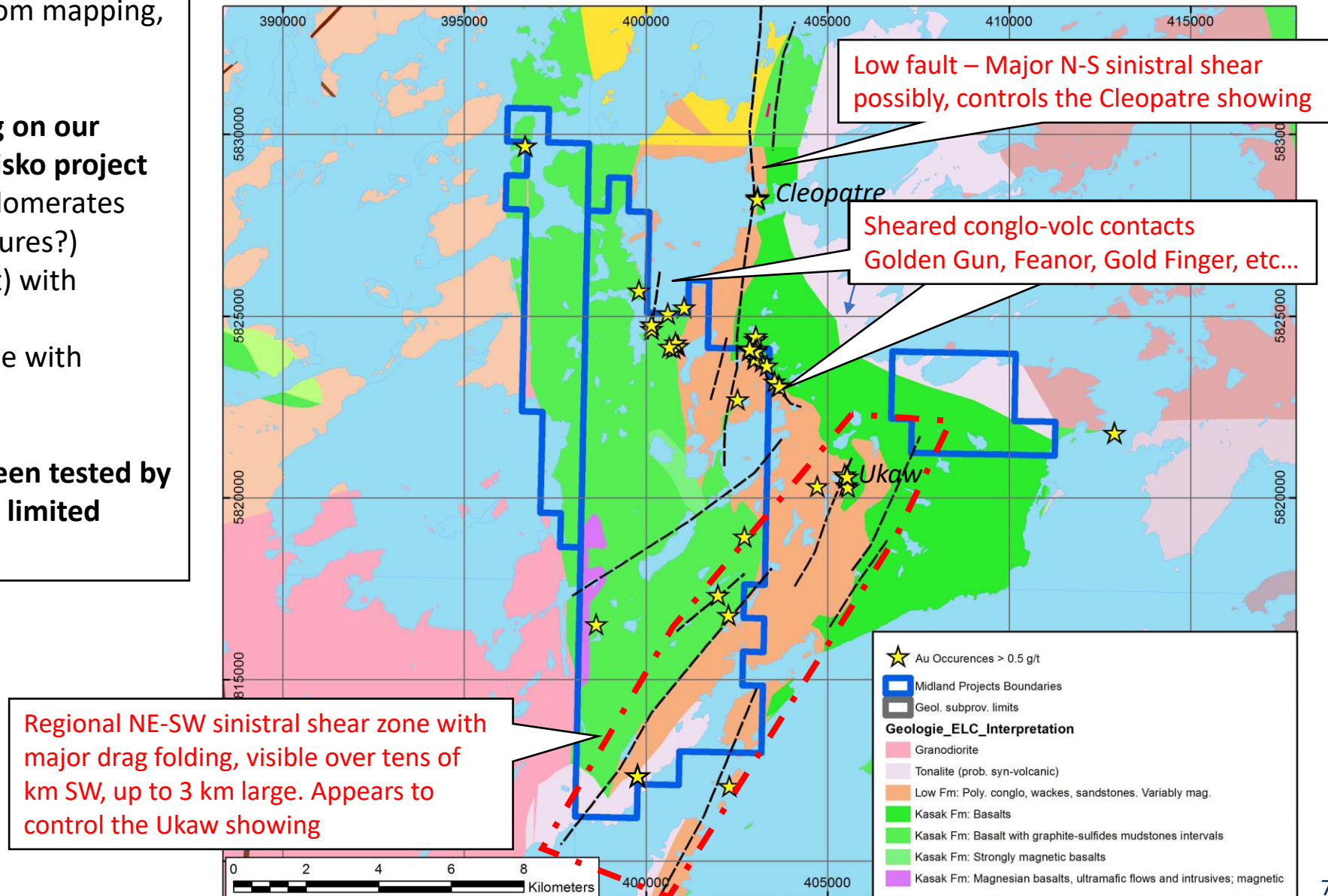
Eleonore Centre – Showings

- **Au-W in Quartz-Tourmaline±Scheelite** veins at sheared volcanics/conglos contacts. Low sulfides. Typical orogenic Au.
- **Ag-Au±As±Co±Cu±Zn**; disseminated sulfides, stringers and semi-massive sulfides in mafic volcanics/mudstones, near/at sheared contacts with conglomerates. Possibly remobilized syn-volcanic mineralization?
- **Cu-Mo-Bi-W-Ag-(Au) in Quartz-Tourmaline veins of probable magmatic-hydrothermal origin**, in or near the tonalite intrusion to the south.



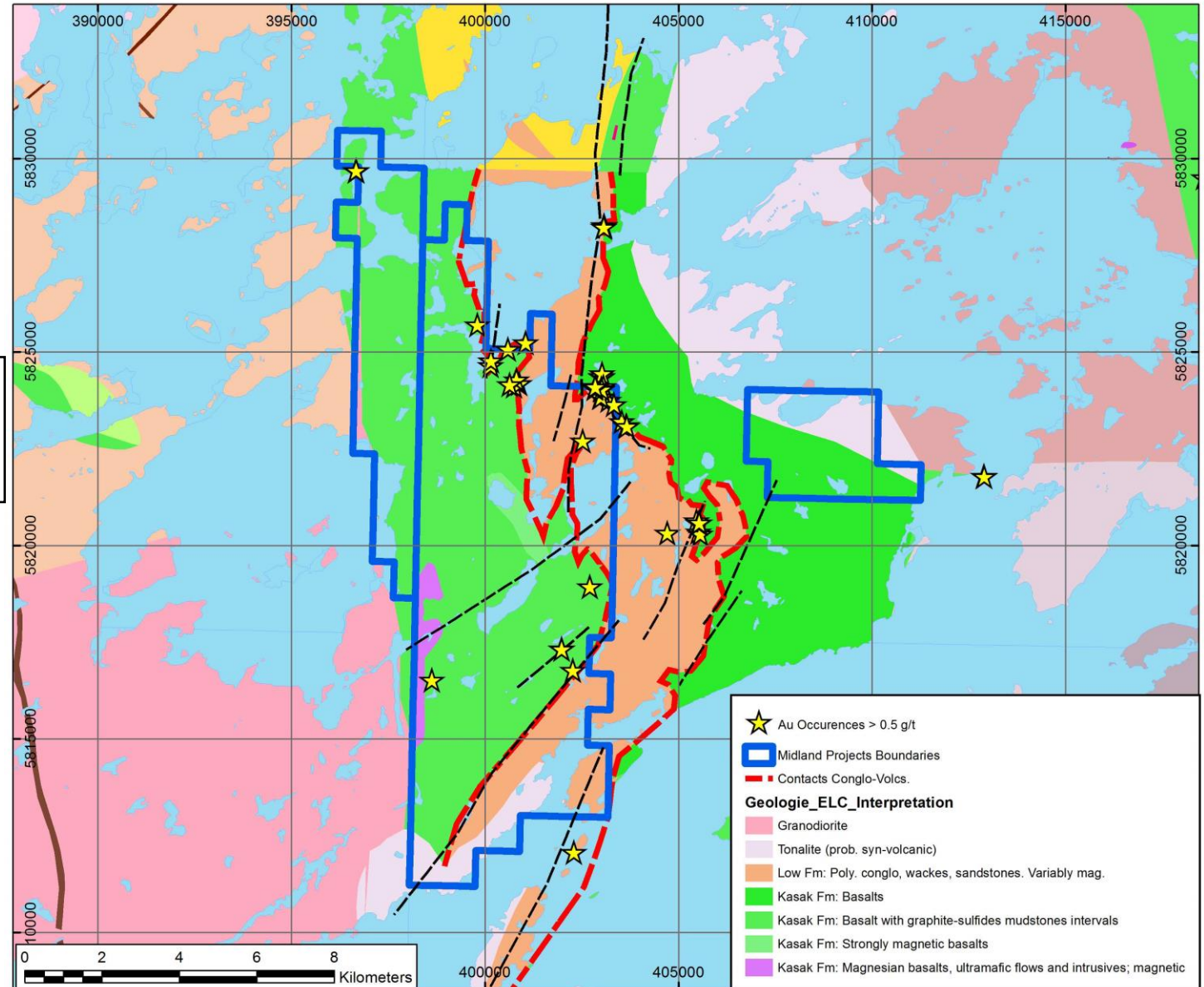
Eleonore Centre – Major Structures

- Several major structures identified from mapping, ground and airborne geophysics
- **Several are known to be gold-bearing on our project as well as on the adjacent Osisko project**
 - Sheared contacts between conglomerates and volcanics (third-order structures?)
 - Major N-S shear zone (Low Fault) with sinistral movement
 - Large, regional NE-SW shear zone with sinistral movement
- **These major structures have never been tested by drilling on our project, and have very limited outcrops**



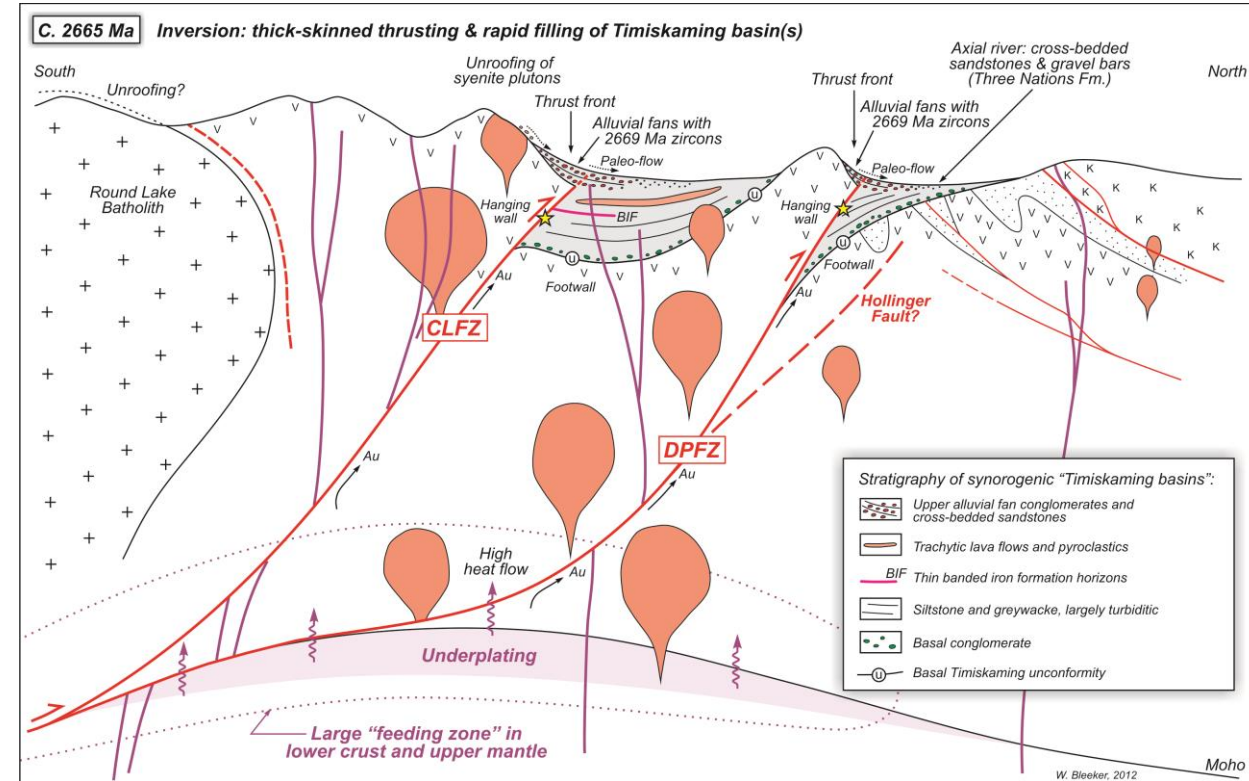
Favorable Conglo – Volcanics Contacts

- The favorable sheared conglomerates-volcanics contact (red) is present over more than 25 km in total on our project



Favorable Conglo – Volcanics Contacts

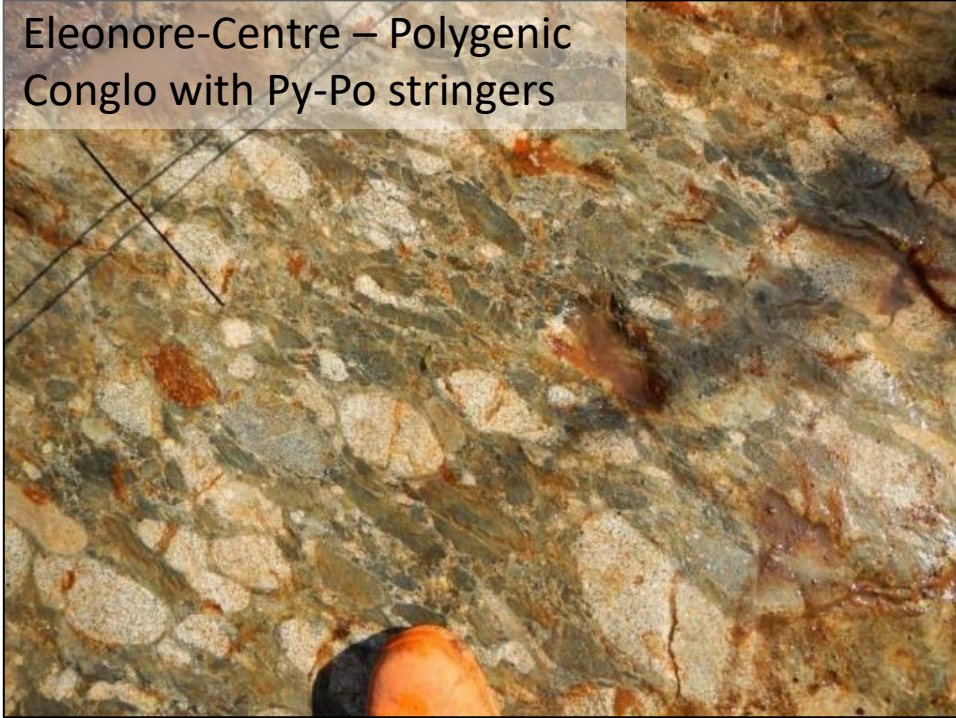
- Sheared contacts between younger polymictic conglomerates and older mafic volcanics are very common metallotects for gold in Archean greenstone belts
 - Ex: Timiskaming polymictic conglomerates/volcanics contacts that host very large gold deposits in the Southern Abitibi greenstone belt
- These contacts are often very important syn-sedimentary normal faults that are reactivated during regional compression --> become the focus for orogenic gold fluids



Inversion of normal faults and orogenic gold mineralization at polymictic conglos/volcanics contacts, southern Abitibi belt
From Bleeker, 2015

Polygenic Conglomerates

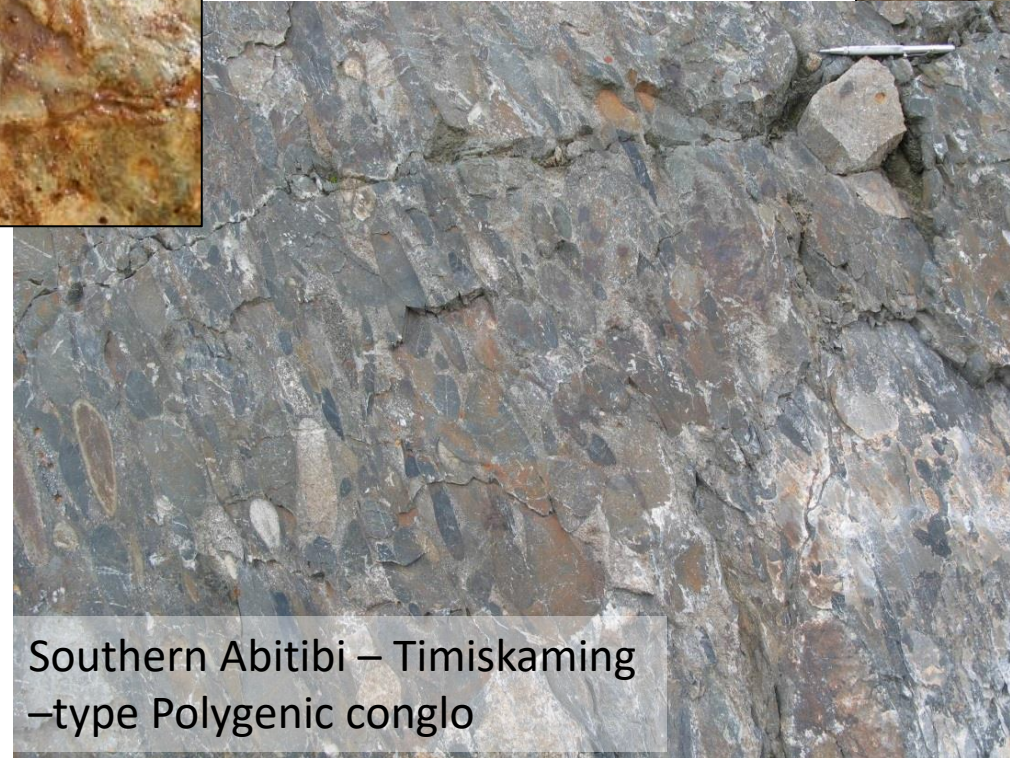
Eleonore-Centre – Polygenic
Conglo with Py-Po stringers



Eleonore – Polygenic conglo

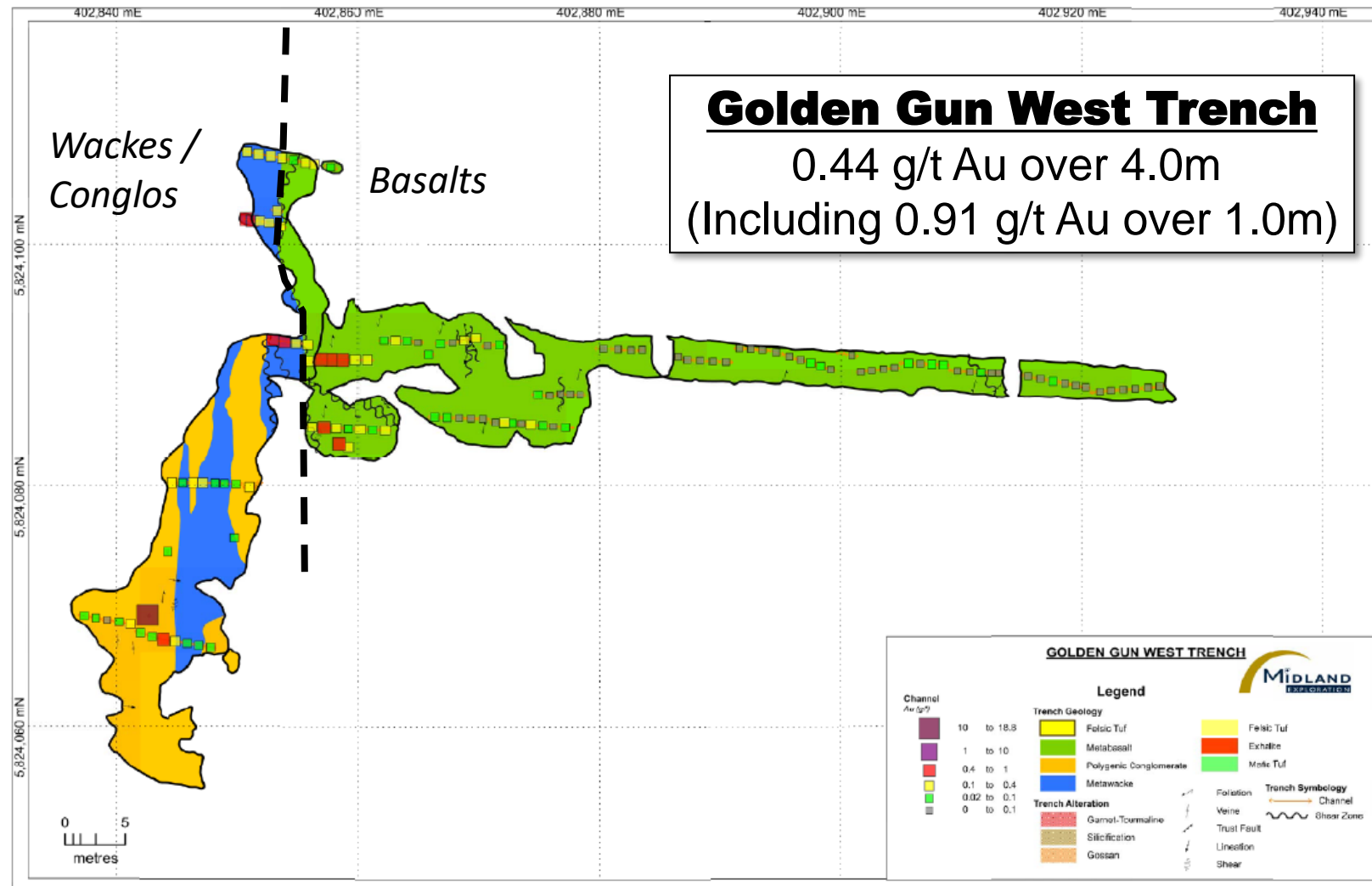


Southern Abitibi – Timiskaming
–type Polygenic conglo



Golden Gun West Showing

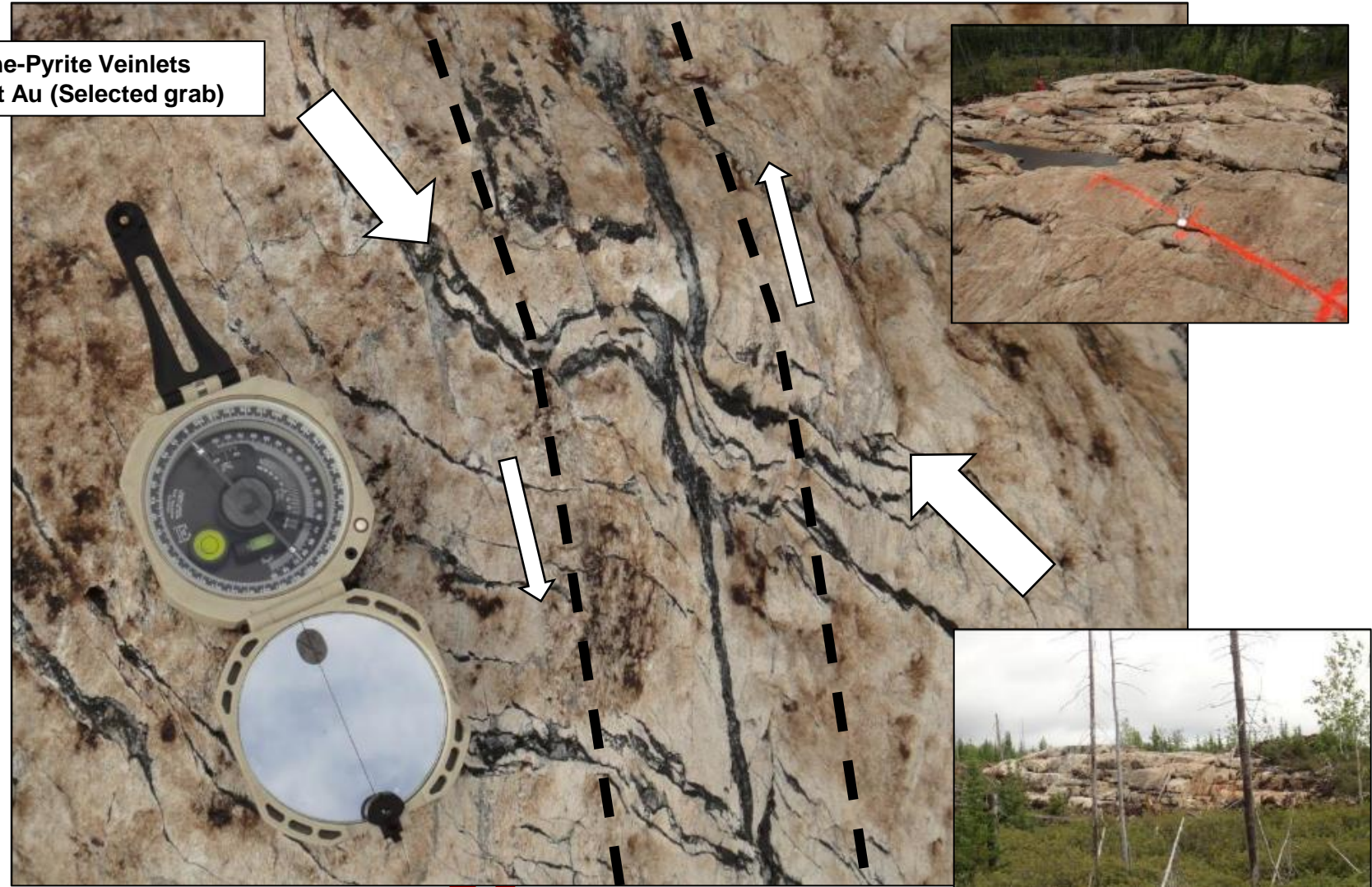
- Sheared and mineralized contact between old volcanics and young conglos; Qtz-Tml veinlets. **Typical orogenic Au.**
- Major mineralized structure that needs to be followed by DDH



Golden Gun South Showing

Tourmaline-Pyrite Veinlets
Up to 4.78 g/t Au (Selected grab)

- Series of subvertical, NW-SE tourmaline tension veinlets with fault-filling veinlets in a NNE-SSW sinistral shear
- Typical orogenic Au mineralization, emplaced in a transcurrent regime



Golden Gun South Showing

Quartz-Tourmaline-Scheelite
fault-filling + tension veinlets



Golden Gun South 2.75 g/t Au (grab sample)

Aston Martin Showing



**Fault-filling Quartz-Tourmaline-
Pyrite-Scheelite veinlets
1.63 g/t Au (Selected grab)**



Orogenic Gold Shear Zones

- In orogenic gold deposits, not all parts of gold-bearing shear zones are ore.
- Laterally, shear zones that contain economic orebodies (typically with abundant quartz veins) typically grade into low-grade, gold-anomalous shears (often with less veining)
- **Once a gold-bearing shear zone is identified, patience is required to locate economic orebodies along it**

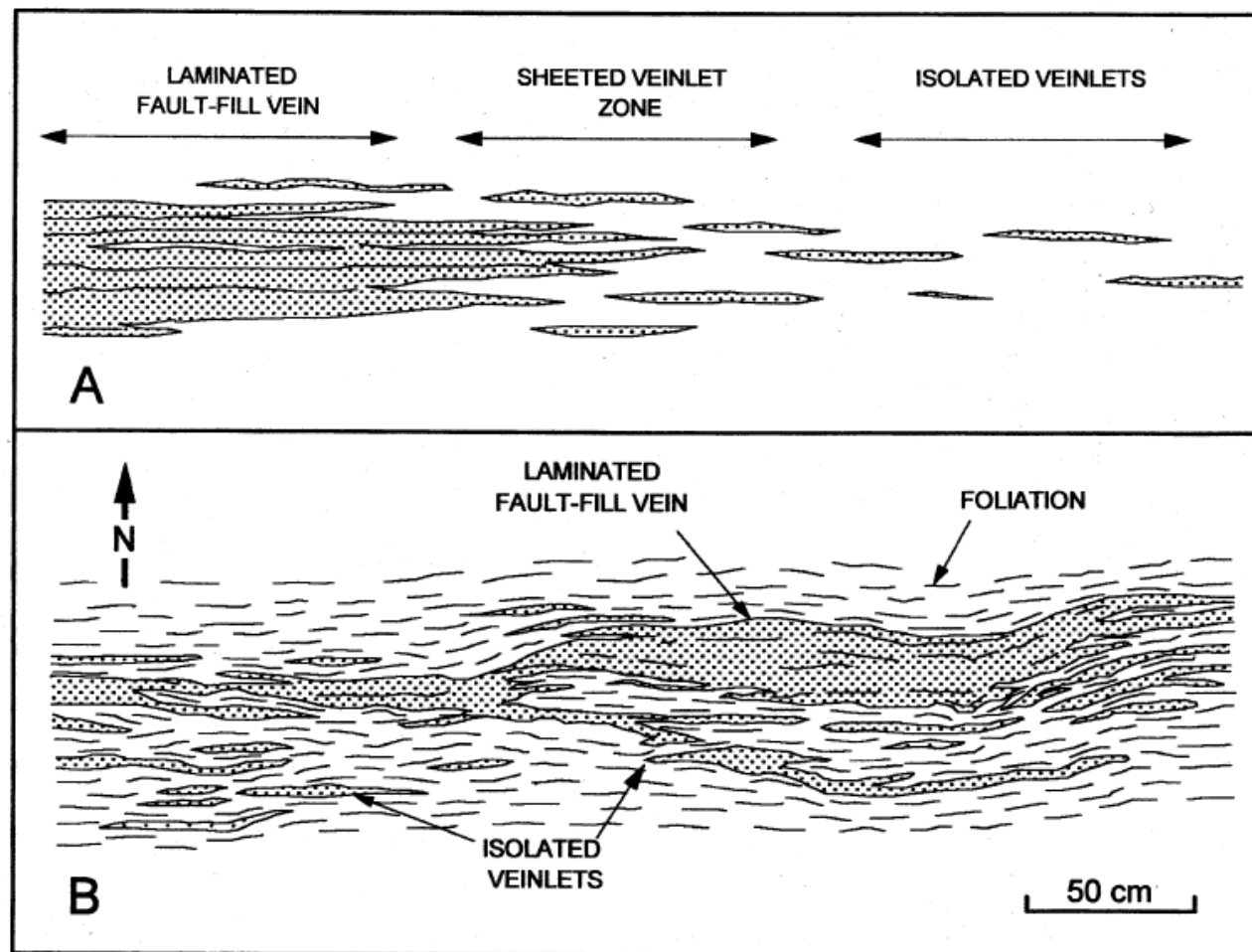
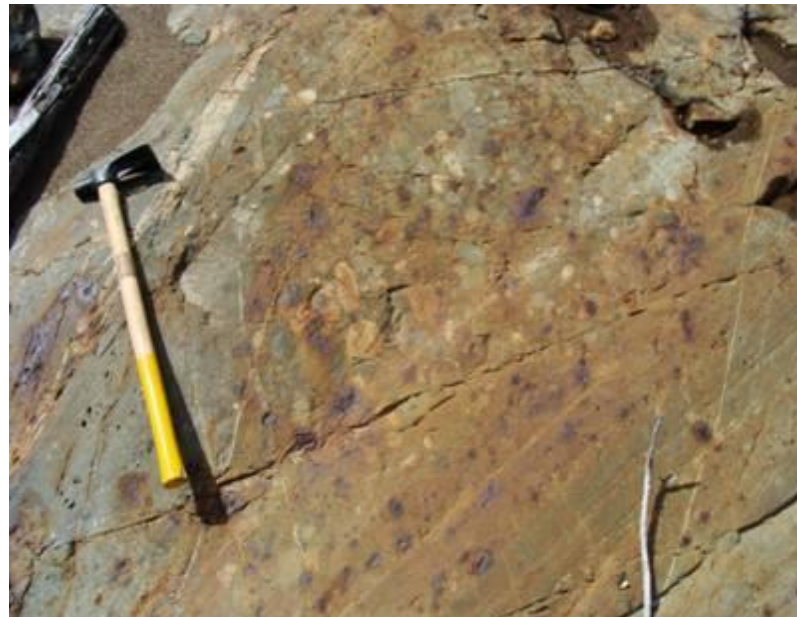


FIG. 17. Characteristics of fault-fill veins in shear zones. A. Schematic representation of lateral zoning in the proportion of vein to wall rock along a shear zone. B. Line drawing, plan view, of a fault-fill vein illustrating how individual veinlets amalgamate to form larger laminated quartz lenses (Sigma mine, Val d'Or).

Robert, 2001.

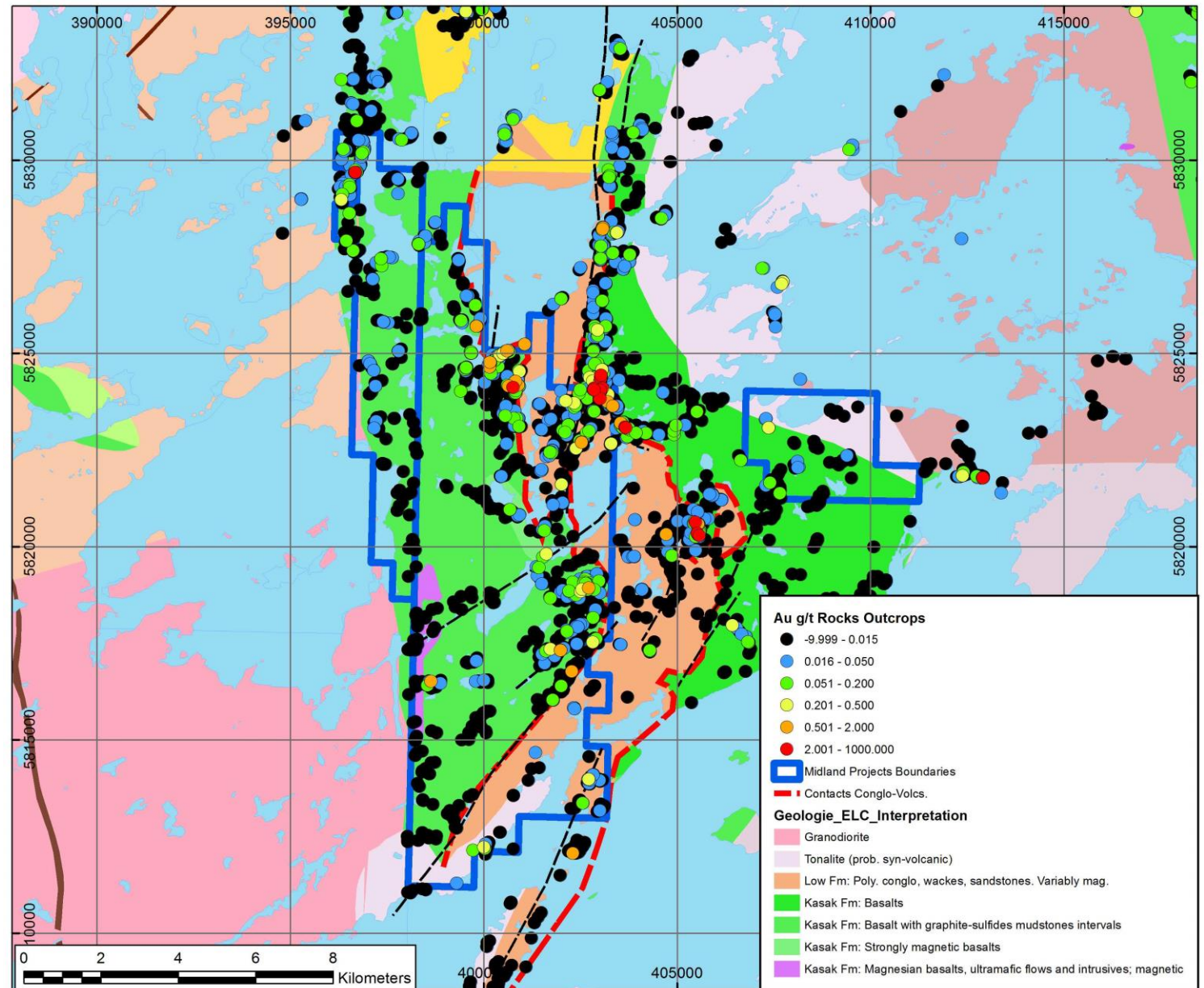
Golden Eye and Golden Finger

- Showings rich in sulfides, Ag, Cu, Zn (syn-volcanic?)
- **Clearly different from Quartz-Tourmaline-Scheelite veins**



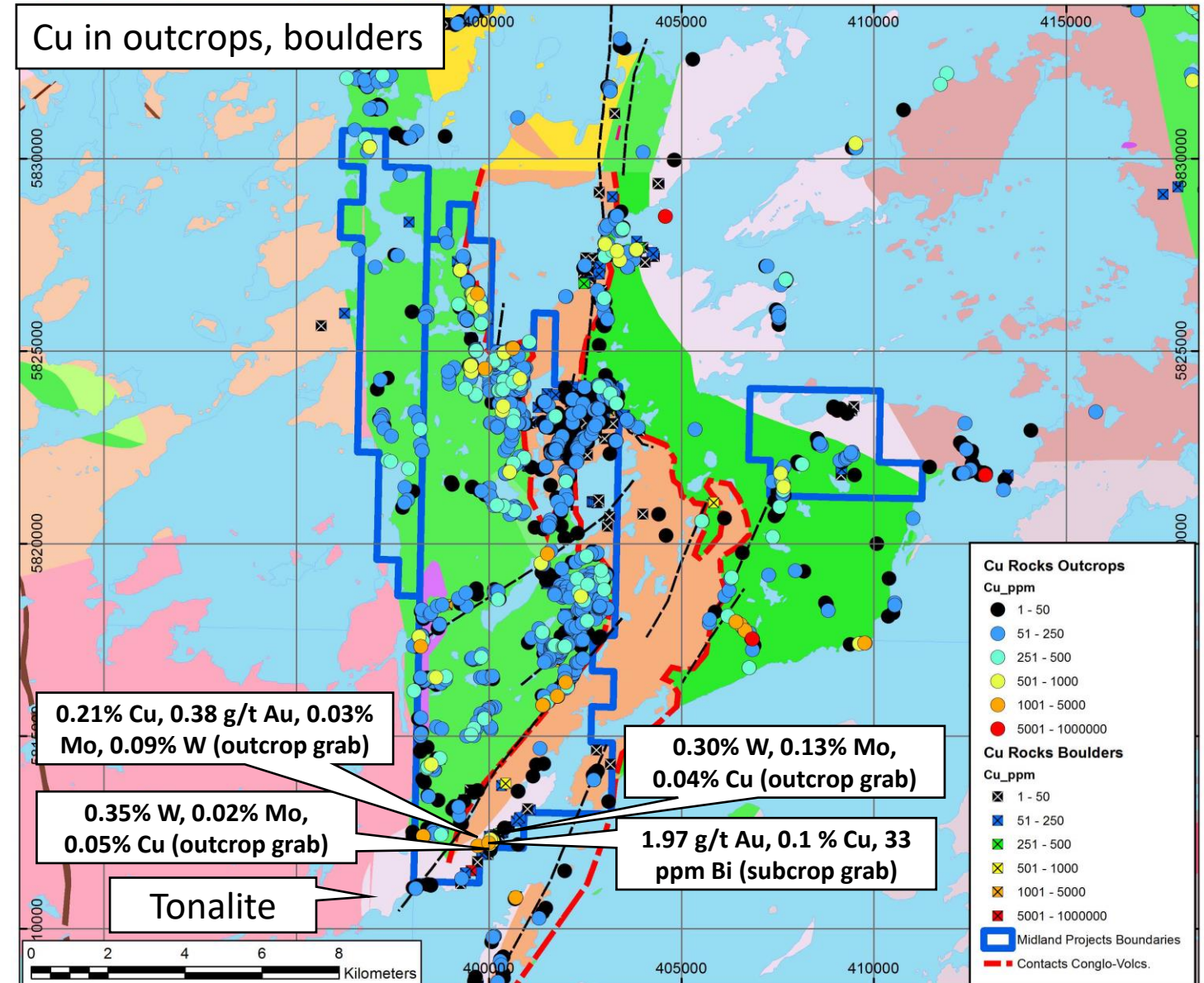
Au in Outcrop Rock Samples

- 225 samples of 2,655 (8.5%) grab samples of outcrops, boulders and channel samples have more than 0.1 g/t Au
 - Note: Midland samples only; map to the right also includes compilation from adjacent Osisko project
- **Strong Gold geochemical footprint**



Eleonore Centre – Cu-Mo-Bi-Au-Ag Mineralization

- Cu-Mo-Bi-Ag-W-(Au) in the tonalite or VSED near the tonalite to the south
- **Very Strong Mo-W-(Cu) geochemical footprint on a 2021 soil survey in that area (next slide)**



Eleonore Centre – W in B-horizon Soils

- Strong geochemical footprint in W-Mo-(Cu-Au) in a B-horizon soil survey in 2021 in the southern area - **2.3 km by 200m to 400m large geochemical anomaly**
- **This anomaly is still unexplained**
- By comparison, upper continental crust abundance of W is 1.9 ppm (Rudnick and Gao)

