



**LATIN METALS INC.**



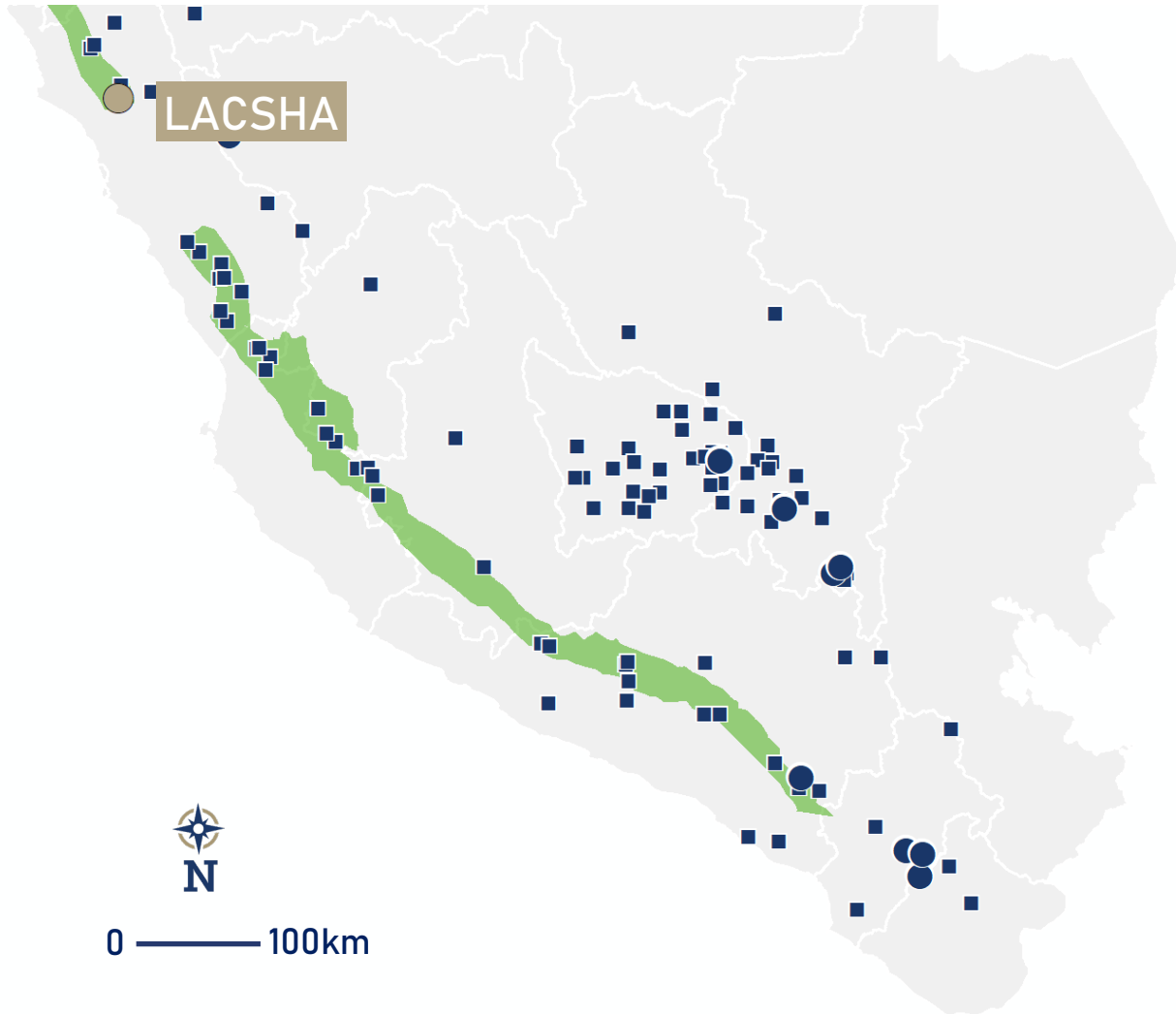
Q1 2024

# LACSHA PROJECT

TSX.V: LMS  
OTCQB: LMSQF

- Project is 100%-owned by Zafiro Mining SAC (subsidiary of Latin Metals Inc.)
- Lacsha is located 130km north of Lima city – excellent infrastructure (port, power, road)
- Current 4-year agreement with local community
- Fully permitted for drilling – 21 drill pads approved under FTA
- Extensive exploration completed to define drill targets – approx. \$850,000 to date
  - Talus sampling defines key copper-moly centers with peripheral zinc-lead anomalies
  - Channel sampling over priority anomalies include 136m @ 0.24% copper, 179ppm moly
  - incl. 52m @ 0.38% copper, 237ppm moly
  - Ground magnetic and induced polarization data over key targets

# Cretaceous Porphyry Belt



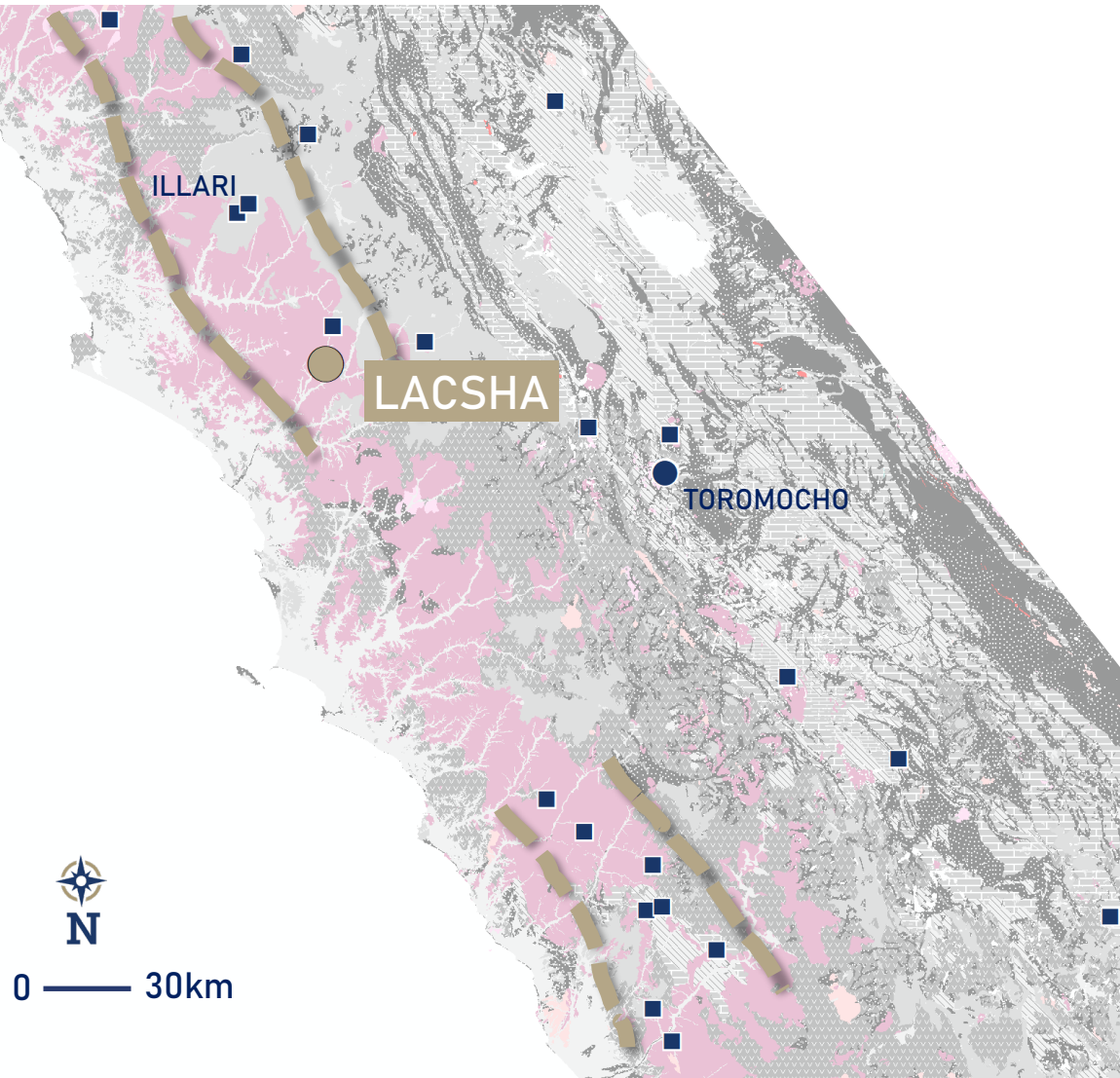
- Cretaceous porphyry belt of Peru was historically recognized between Ica and Arequipa but now extended north of Lima following the discovery of Illari deposit and subsequent exploration successes.
- This belt hosts copper-molybdenum and copper-gold-molybdenum porphyries.

- Cretaceous Porphyry Belt
- LMS Porphyry/Skarn projects
- Porphyry Mines
- Porphyry/Skarn early or advance stage projects



# Principal Mineralizing Events

- Upper Cretaceous (66-100 Ma) Angostura(68 Ma), Puquío (76 Ma), Illari (79 Ma), Pucacorral Sur (82 Ma), Marchahui, Durazno, Cuco, Aguas Verdes, Lara, Lacsha (78Ma)
- Lower Cretaceous (100-145.5 Ma) Porphyry EL Yaral (106 Ma), Pucacorral Norte (112 Ma) , La llave (115 Ma), Erika (128Ma), Campanero – Part of Zafranal cluster (141 Ma),



Regional Geology by INGEMMET

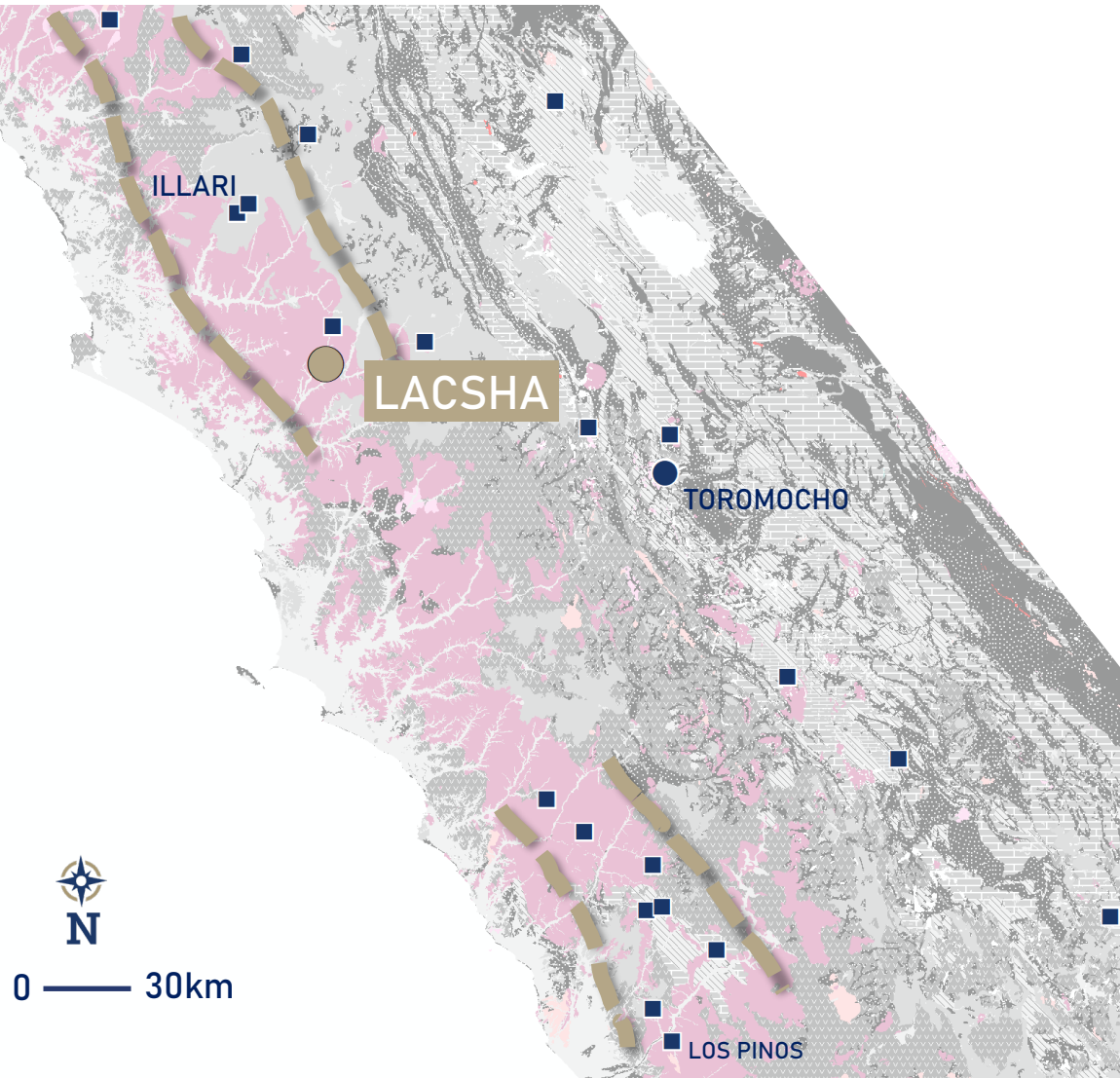
- LMS Porphyry project
- Porphyry Mines
- Porphyry/Skarn exploration projects
- Quaternary Material
- Cenozoic Volcanic Package
- Cretaceous Calcareous Package
- Cretaceous Fine Sediments
- Mesozoic Sedimentary Package
- Cretaceous Coastal batholith

(\*) from Buenaventura web page, (\*\*) from MMG web page



# Copper Endowment

- Illari Project drill highlights include 293m @ 0.54% copper and 0.28 g/t gold
- Northern portion of the belt is underexplored; many of the projects are early-stage discoveries awaiting drill testing
- Lacsha is fully drill permitted

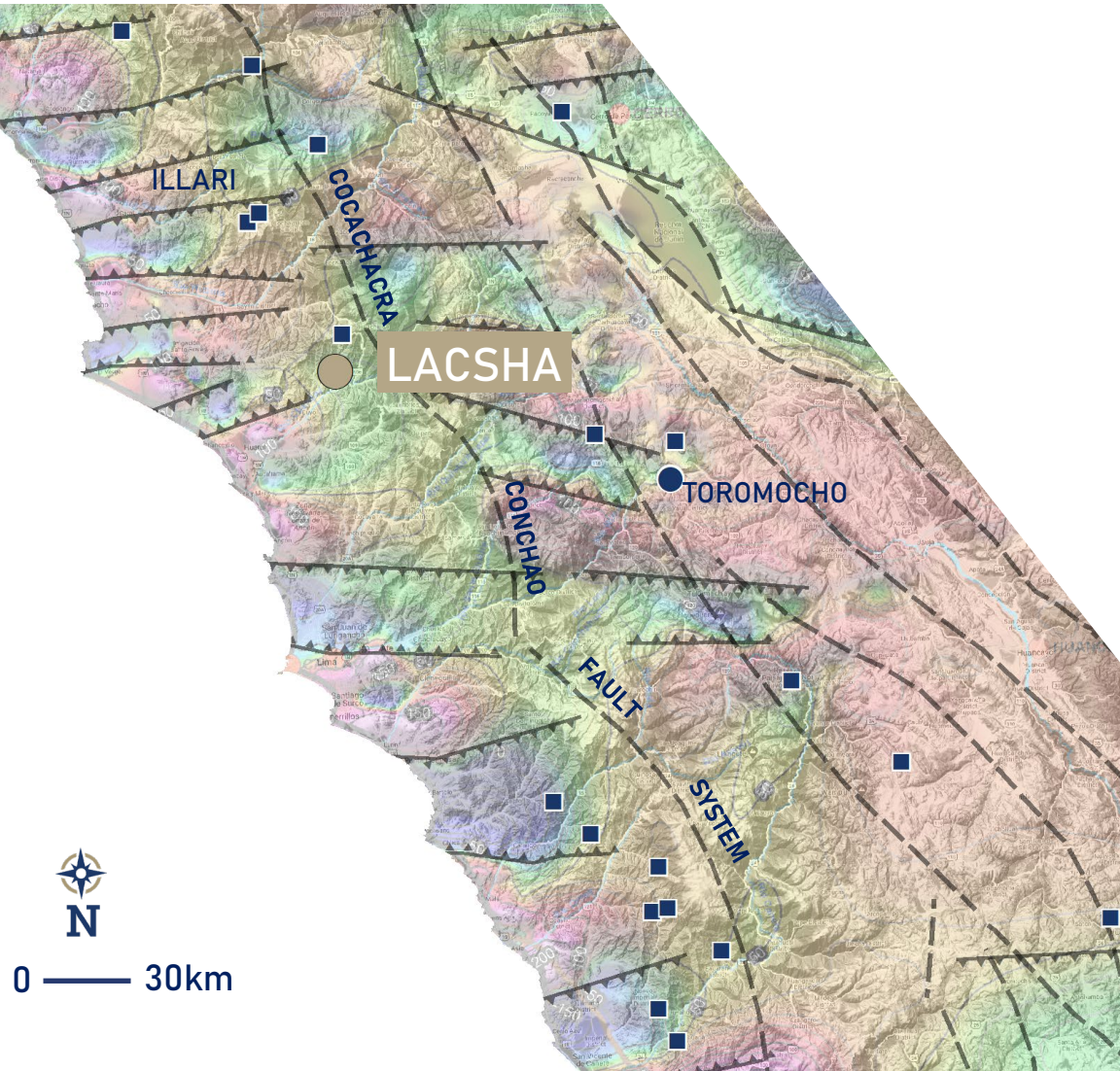


Regional Geology by INGEMMET

- LMS Porphyry project
- Porphyry Mines
- Porphyry/Skarn exploration projects
- Cenozoic Material
- Cretaceous Volcanic Package
- Cretaceous Calcareous Package
- Cretaceous Fine Sediments
- Mesozoic Sedimentary Package
- Cretaceous Coastal batholith

(\*) from Proexplo conference

# Structural Framework

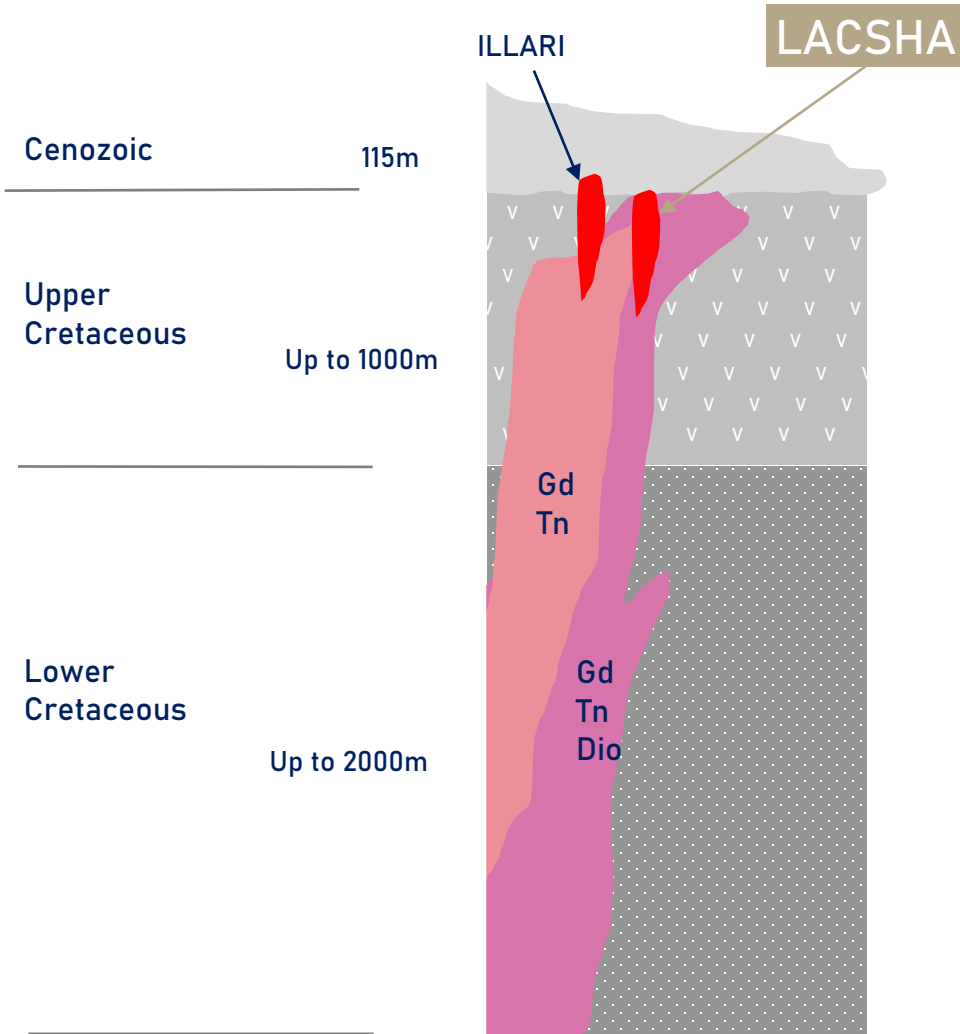


- Deposits are strongly controlled by the intersection of major structural trends:
  - East-west low magnetic trends recognized by airborne magnetic surveys and;
  - major mapped fault systems trending northwest-southeast
- Possible relationship to deep structures controlling secondary porosity

- LMS Porphyry project
- Porphyry Mines
- Porphyry/Skarn exploration projects
- - - Structural corridors Interpreted by Geology
- ▲ Structural corridors Interpreted by Geophysics

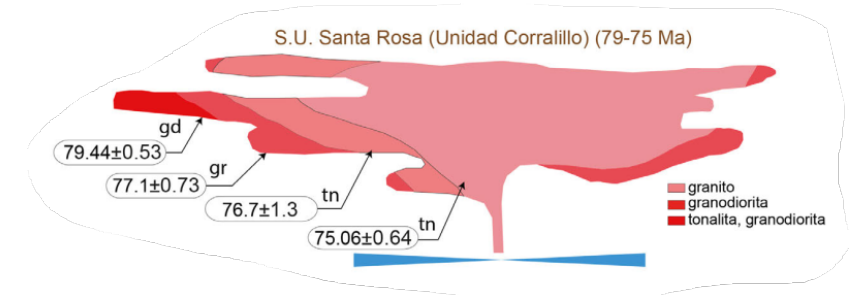
\*Regional MAG interpretation by Peru Petro

# Stratigraphic Column

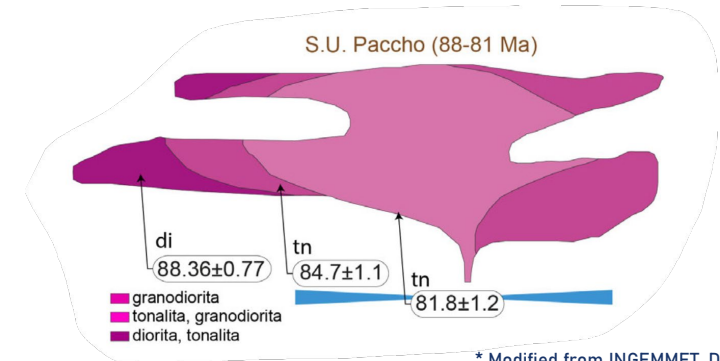


Calipuy volcanics

Gpo Casma. ( Andesites, Basalts Volcanic and volcaniclastics)



Gpo. Morro Solar. (Sandstone, Siltstone)

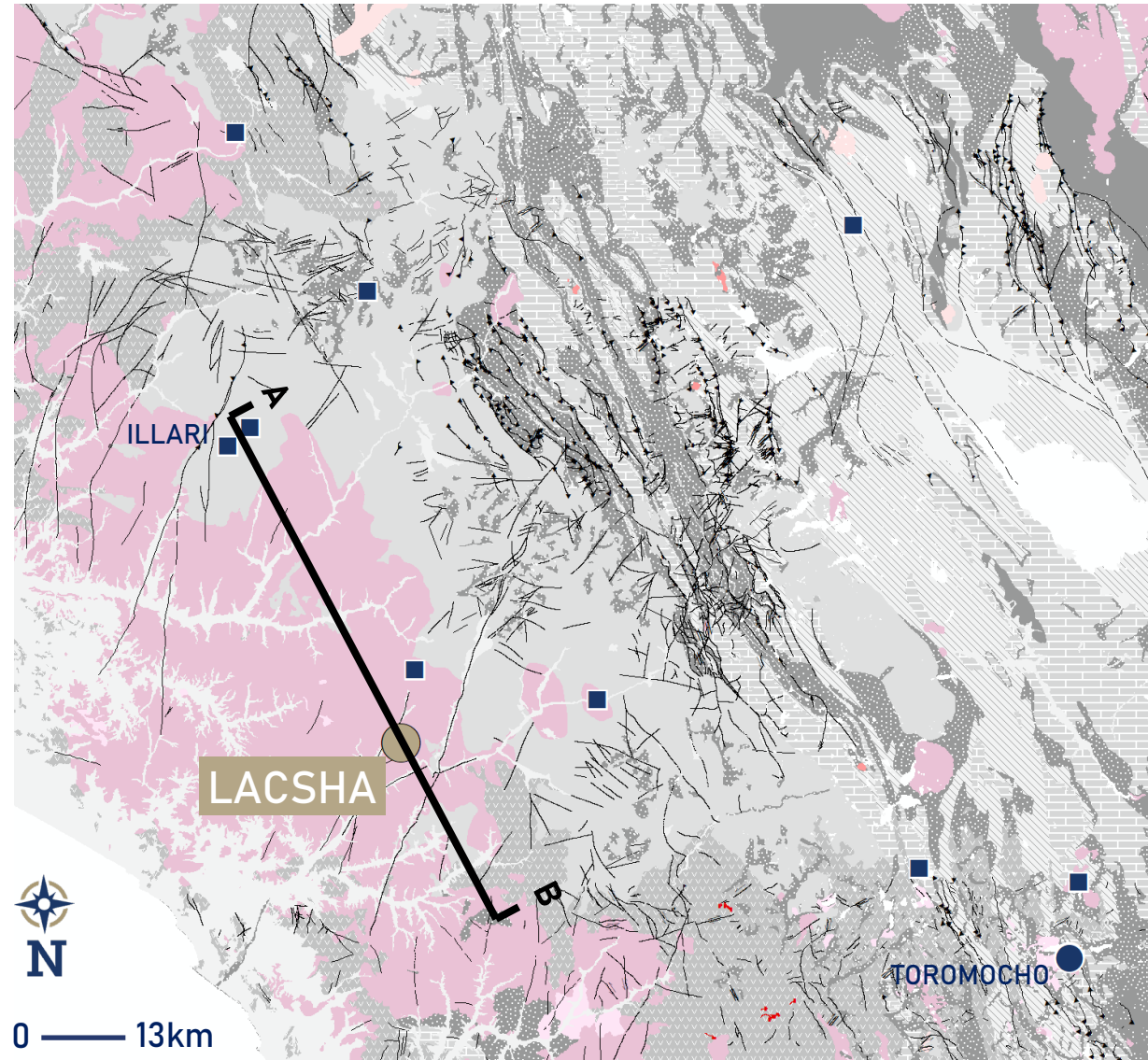
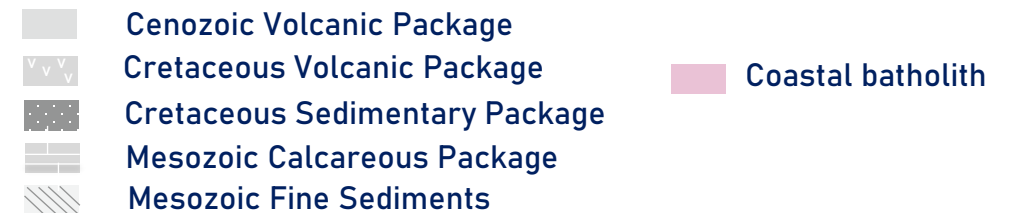


\* Modified from INGEMMET ,D039 ,2023

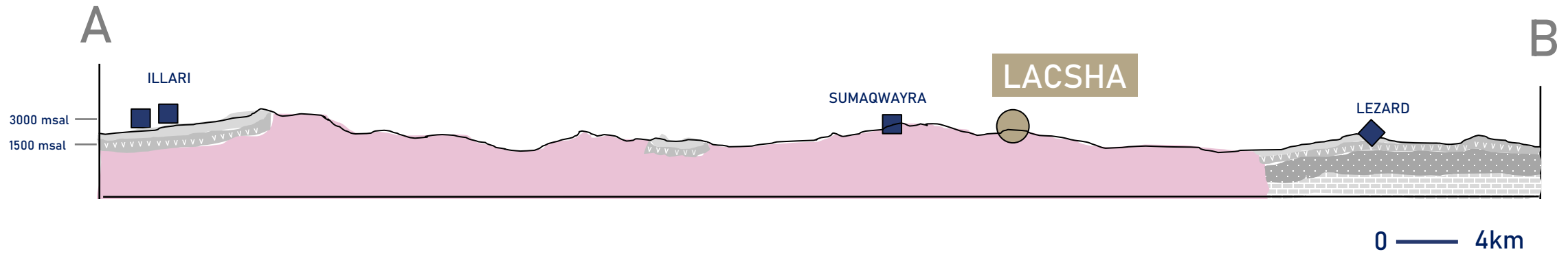


# District Geology

- Costal batholith in the Lima segment consists of various super units with ages between 66 Ma to 100 Ma, and it is directly related to the CASMA basin.
- Several prospective zones are been actively exploring in this area.
- Illari (porphyry), Sumaqwayra (porphyry), Lezard (VMS), and Elida (porphyry) are the principal discoveries.
- Most of the prospects are located at the east margin of the Coastal Batholith, related to the Andean Conchao Cocachacra fault system.



# Schematic Section



- Cenozoic Volcanic Package
- Cretaceous Volcanic Package
- Cretaceous Sedimentary Package
- Mesozoic Calcareous Package
- Mesozoic Fine Sediments

Coastal batholith

- LMS Porphyry/Skarn project
- Porphyry Mine
- Porphyry/Skarn exploration projects
- VMS exploration projects

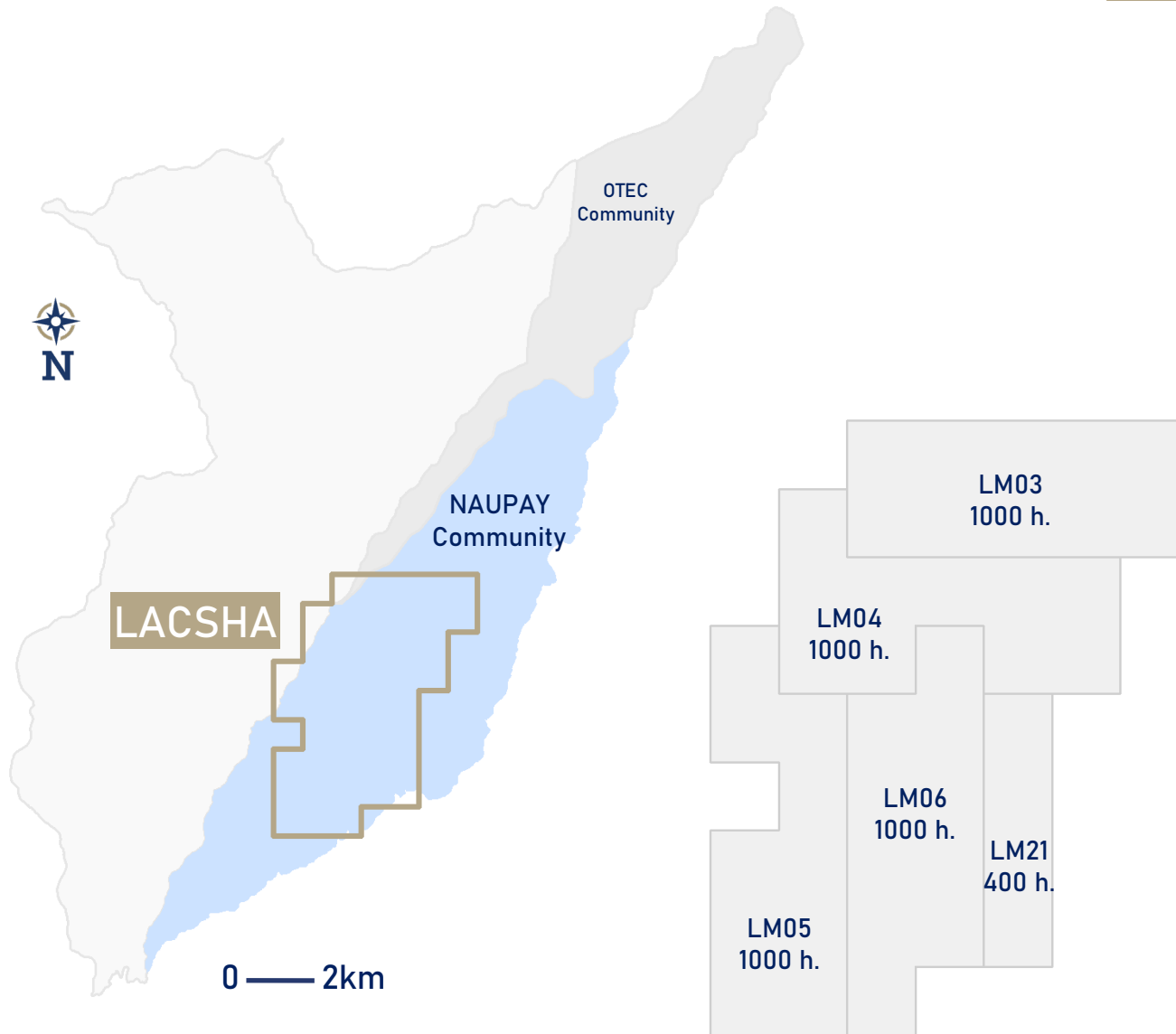
# Infrastructure & Access



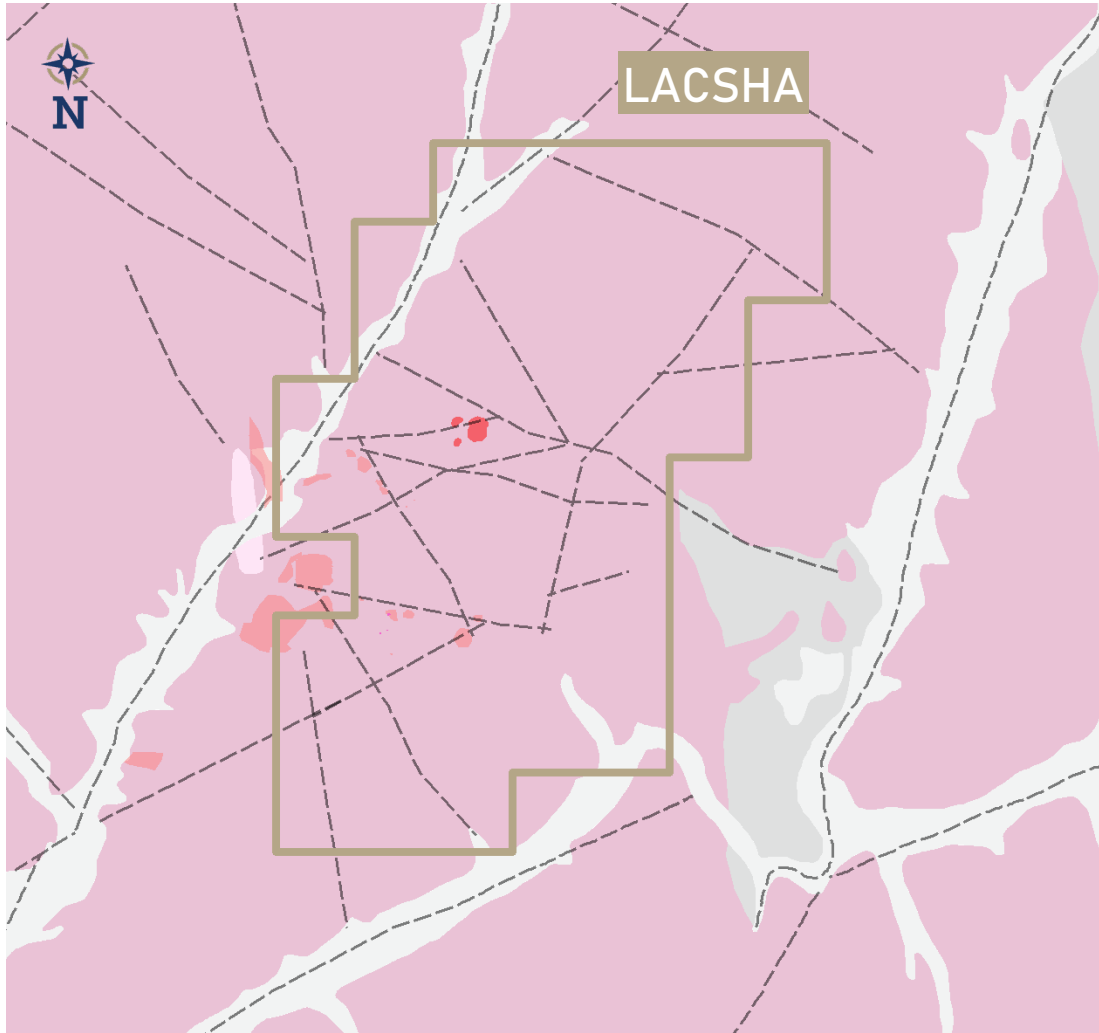
- The project is located in Lima department, Huaral Province.
- There is a road to the property from Huaral providing access by truck to the edge of the property.
- Travel time from Lima to Huaral to Q. Totoral is approximately 2.5hrs.



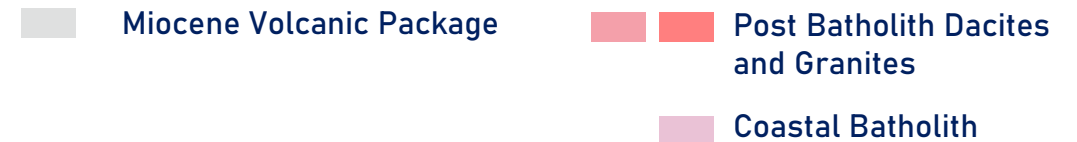
# Stakeholder Engagement



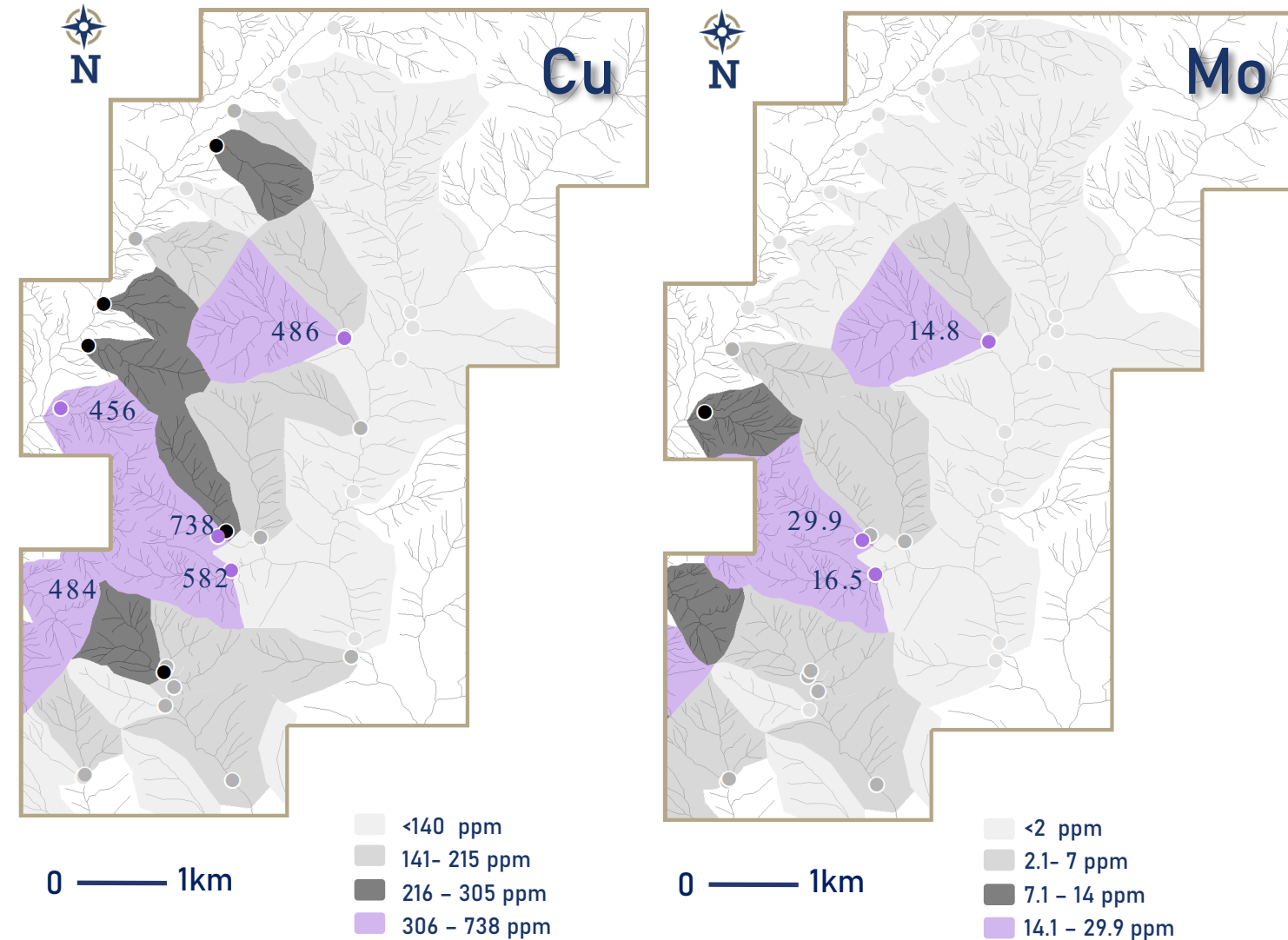
- The Lacsha project is within the Naupay community territory.
- LMS has signed a Servidumbre agreement (agreement required to get a drill permit) to explore the area of the Naupay community for 4 years. The payment for Year 2 has recently been completed.
- The property totals 4400 hectares - 5 mining properties all with mining titles under the name of Zafiro Mining SAC (100% subsidiary of Latin Metals Inc.)
- All properties in good standing.



- Favorable structural setting with a favourable northwest-southeast displacement, perpendicular to the regional northeast-southwest regional geophysical and geological trends.
- The area is dominated by the coastal batholith with the principal super units Santa Rosa and Paccho



# Stream Sediment Sampling

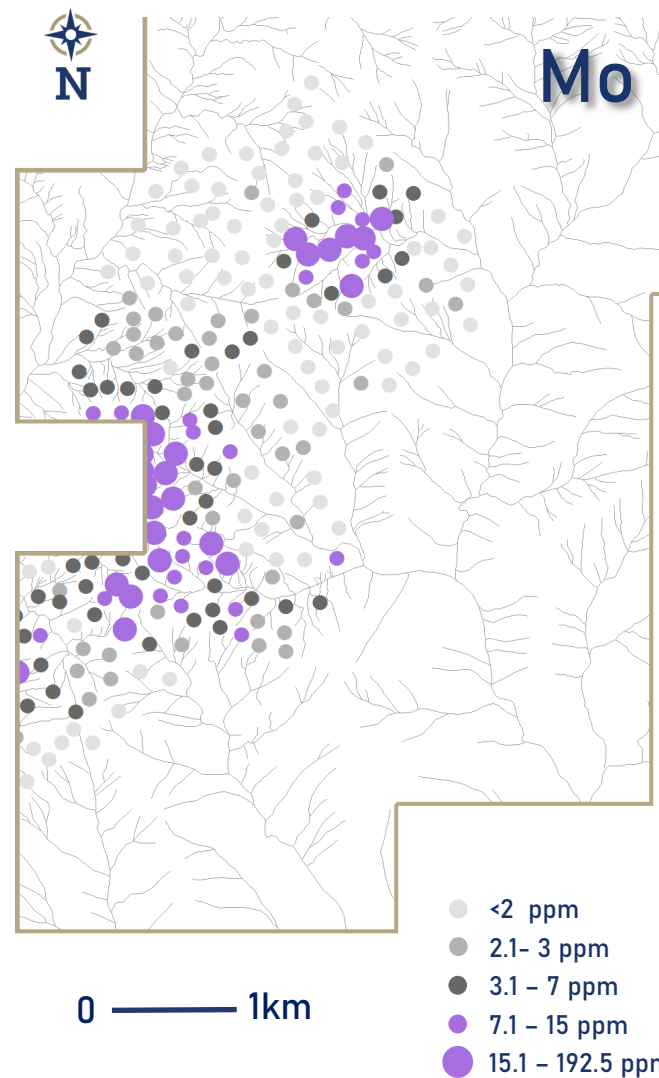
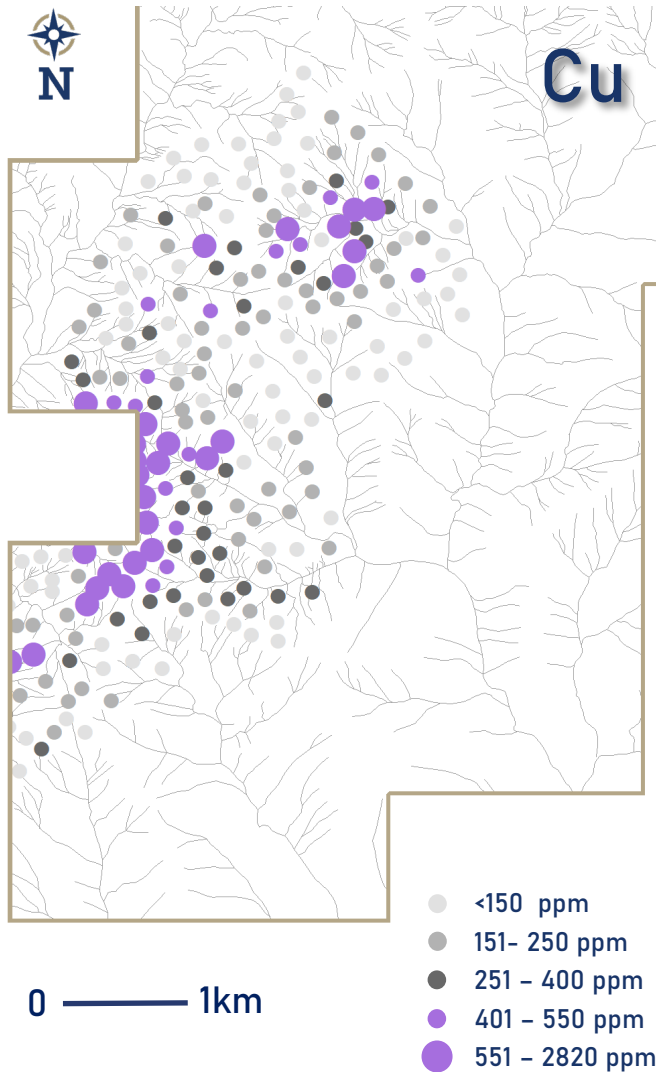


- 41 samples were collected in the survey area.
- Principal correlation in the survey was copper-moly-silver-selenium
- Values in excess of 150 ppm copper are usually considered anomalous in this portion of the belt – Lacsha anomalies considerably higher than this.
- Latin Metals focused the follow up survey on values greater than 300 ppm copper.

Correlation	Cu ppm	Ag ppm	Mo ppm	Se ppm
Cu ppm	1	0.75	0.64	0.86
Ag ppm	0.75	1	0.5	0.75
Mo ppm	0.64	0.5	1	0.79
Se ppm	0.86	0.75	0.79	1



# Talus Sampling



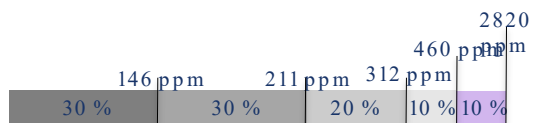
- 241 samples were collected in the survey.
- Principal correlation in the survey was copper-moly-silver
- Stream sediment sample anomalies were confirmed.
- With additional geochemical resolution, reduction in target area to:
  - Lacsha North 2.5 km x 1 km zone.
  - Lacsha South 1 km x 0.8 km zone.

Correlation	Cu ppm	Mo ppm	Ag ppm
Cu ppm	1	0.66	0.68
Mo ppm	0.66	1	0.74
Ag ppm	0.68	0.74	1

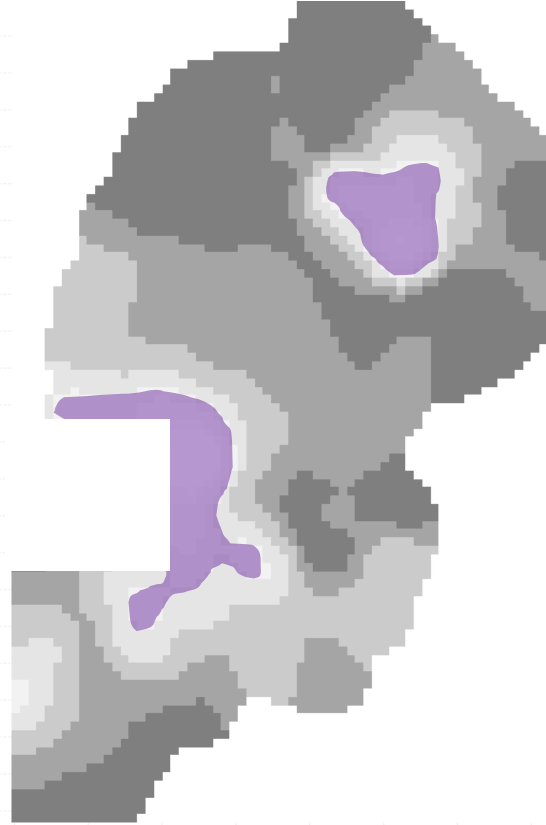
# Talus Sampling



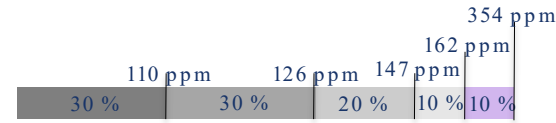
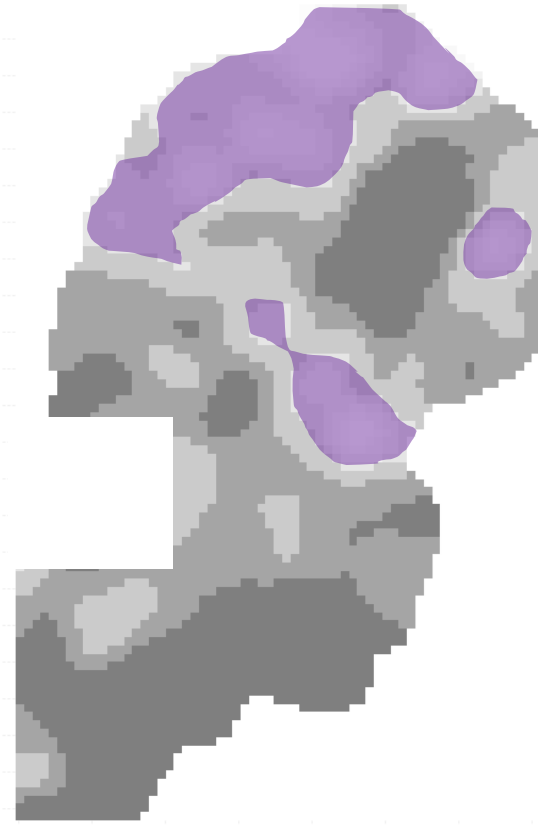
**Cu**



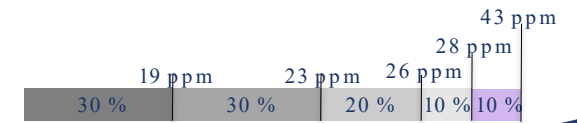
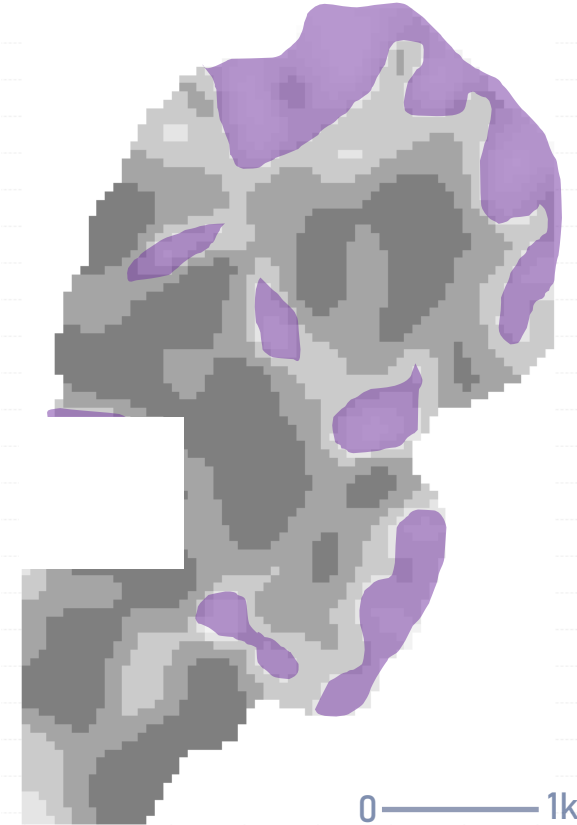
**Mo**



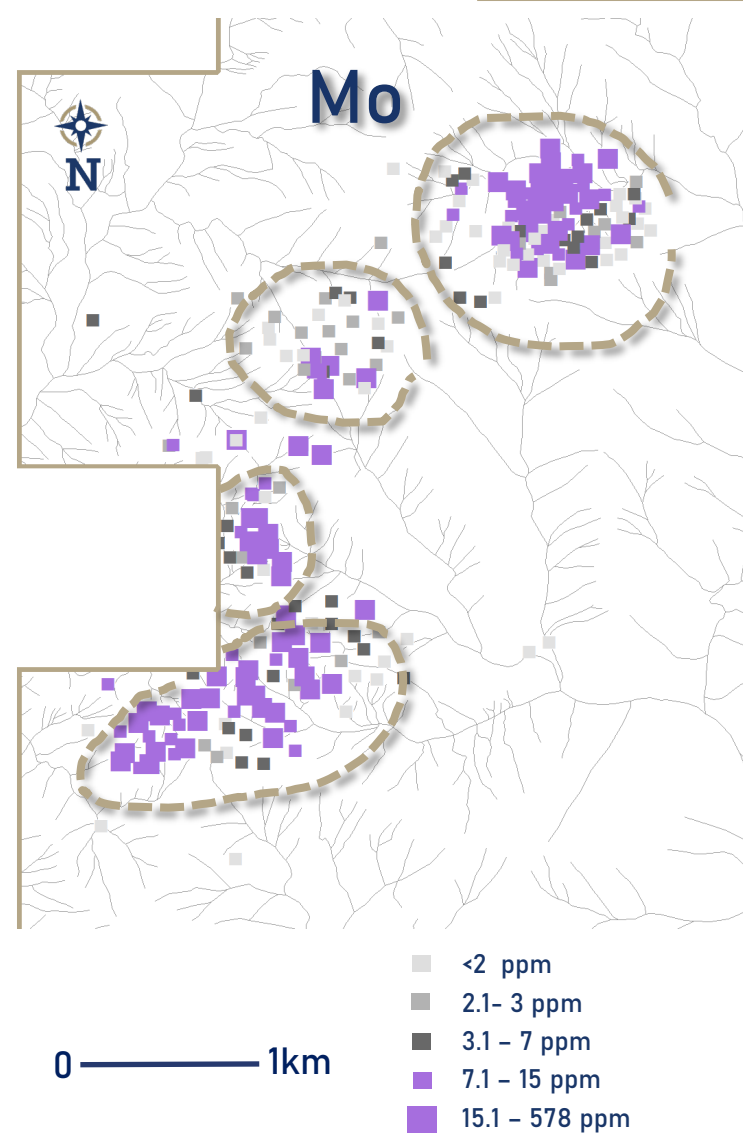
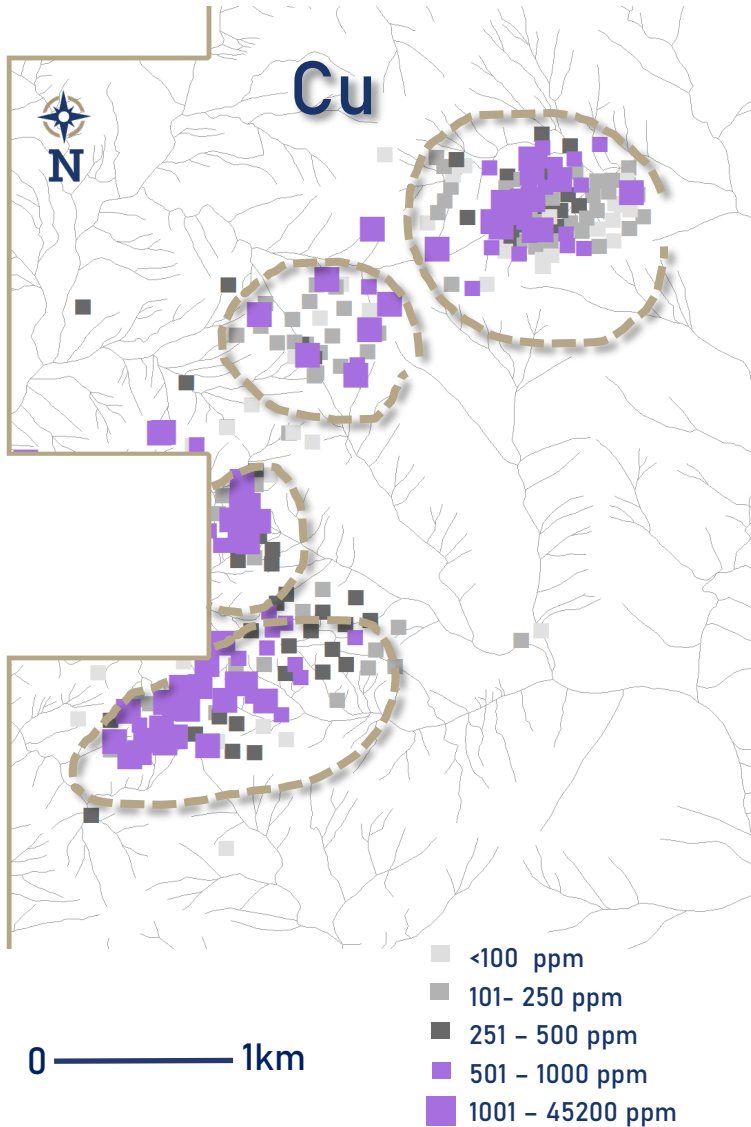
**Zn**



**Pb**



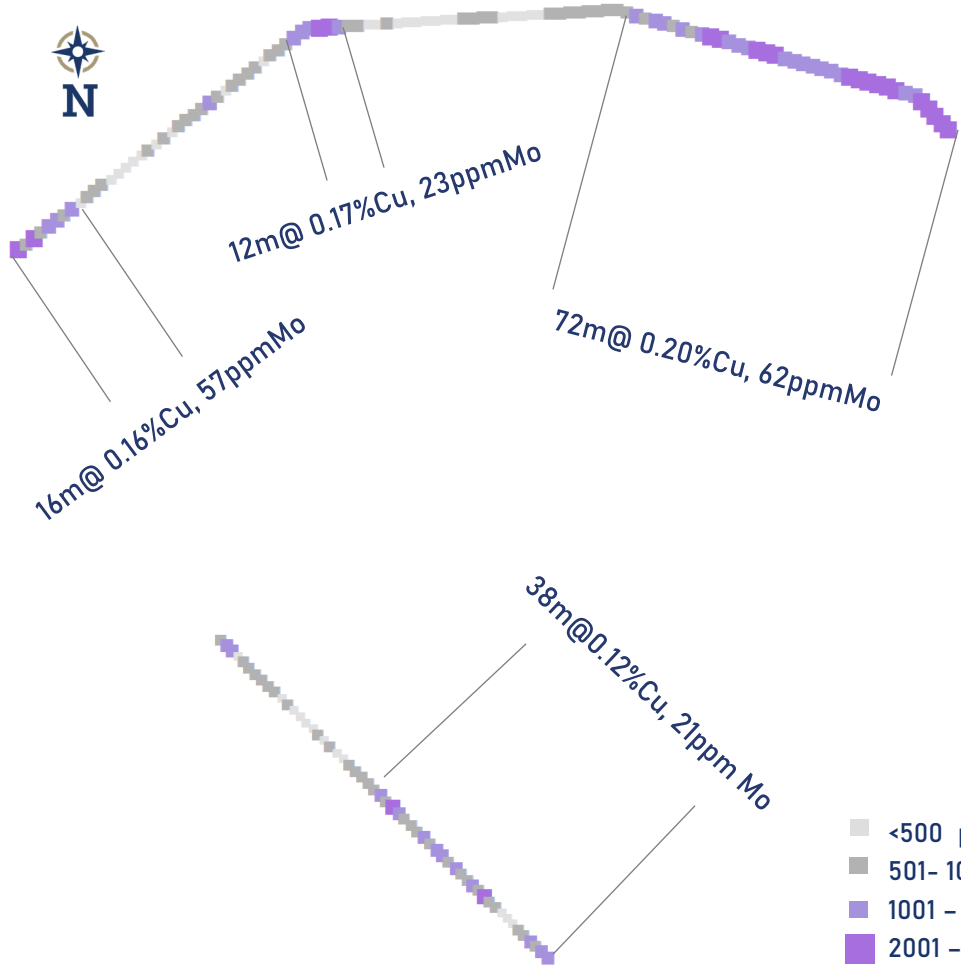
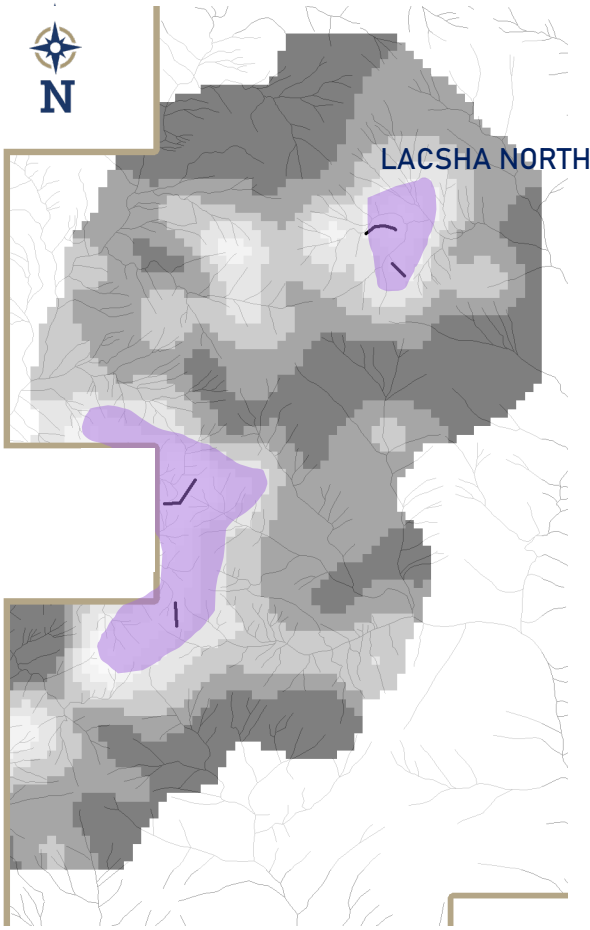
0 ——— 1km



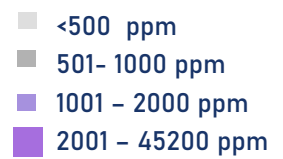
- 259 samples were collected in the survey.
- Talus anomaly confirmed.
- New areas identified :
  - Lacsha North 1 km x 1 km zone.
  - Lacsha South 0.5 km x 0.5 km zone.
  - Lacsha Central 0.8 km x 0.8 km zone
  - Lacsha Southwest 1.5 km x 0.8 km zone.



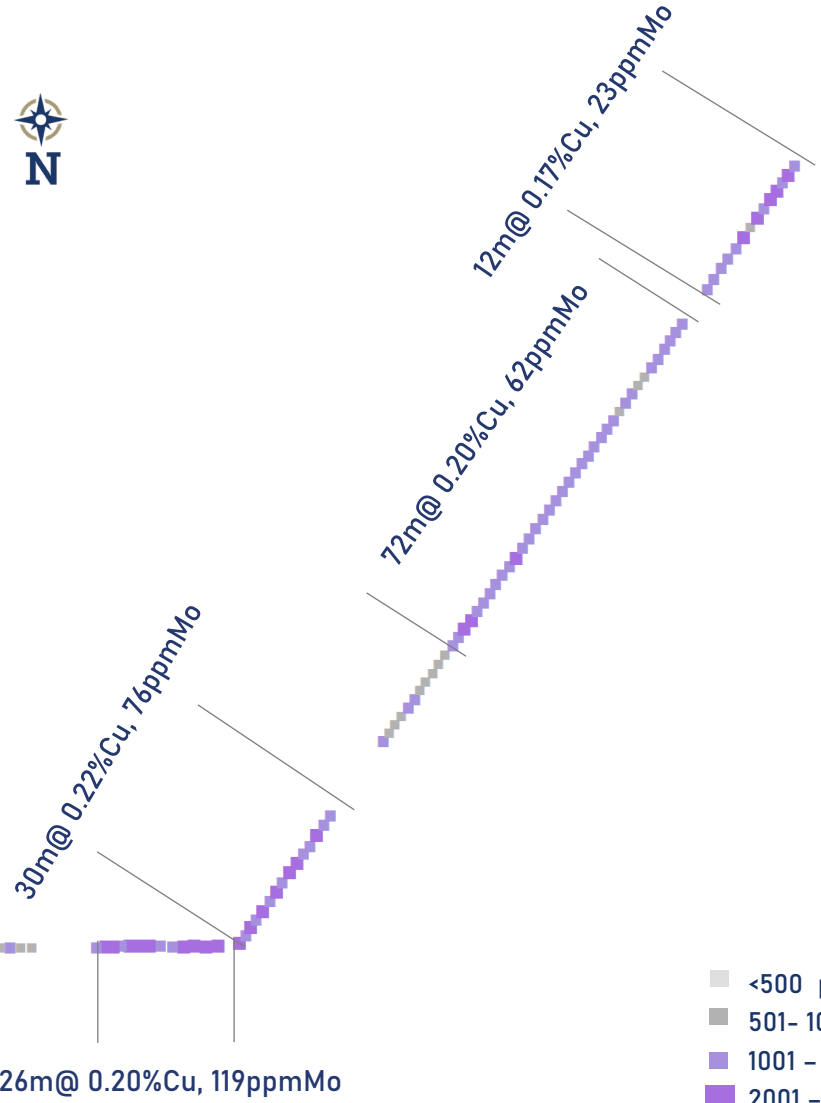
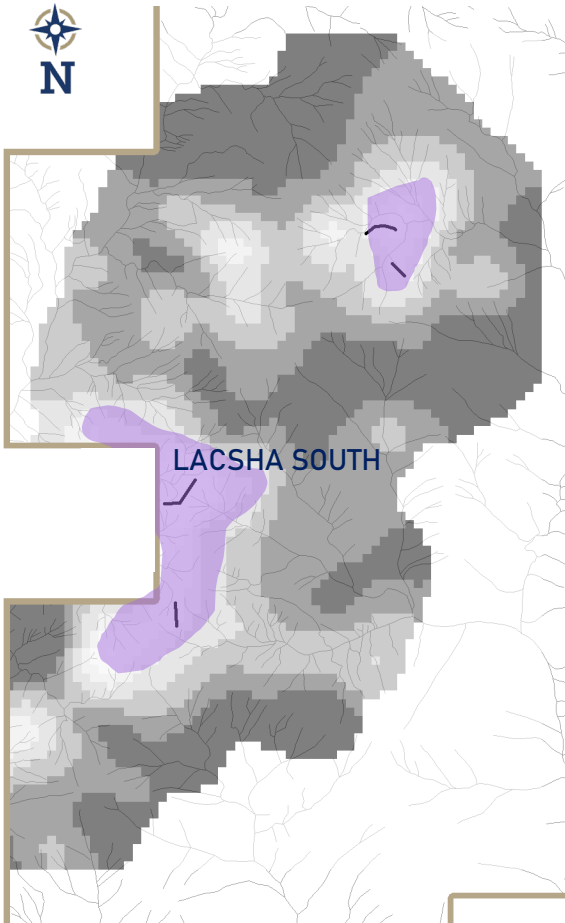
# Channel Sampling Lacsha North



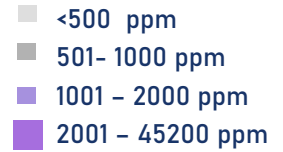
- Highlights:
  - 38m @ 0.12% Cu, 21ppm Mo
  - 16m @ 0.16% Cu, 57ppm Mo
  - 12m @ 0.17% Cu, 23ppm Mo
  - 72m @ 0.20% Cu, 62ppm Mo



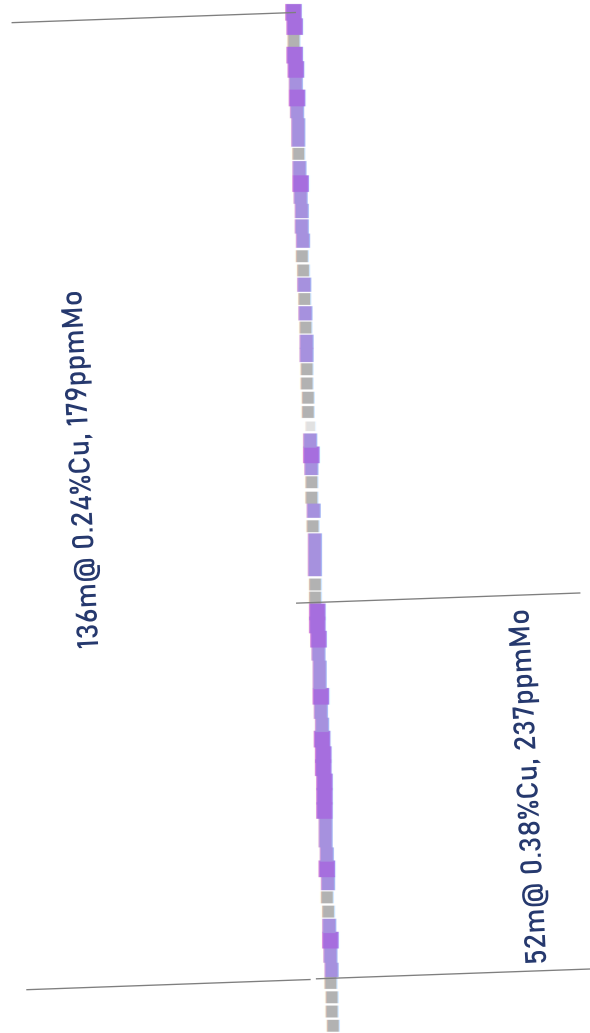
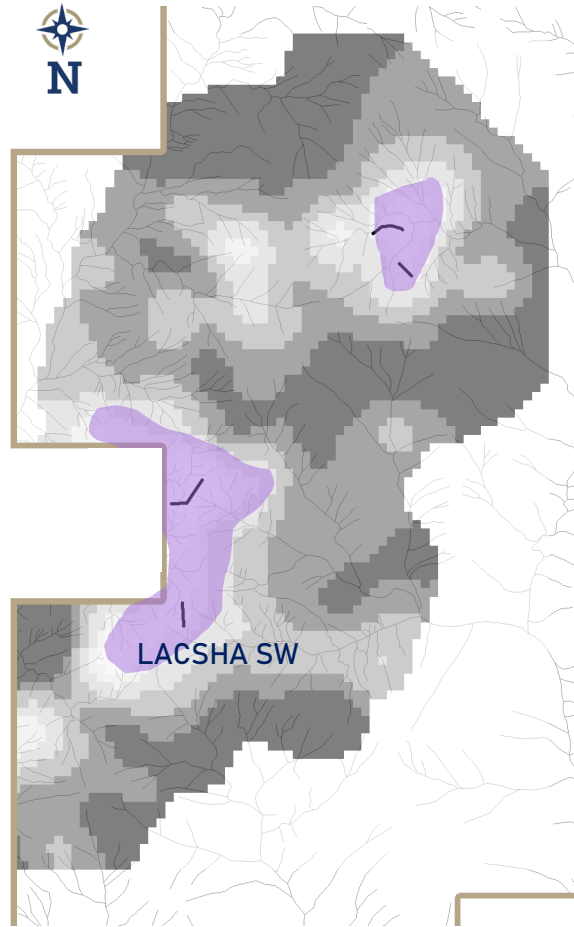
# Channel Sampling Lacsha South



- Highlights:
  - 28m @ 0.17% Cu, 44ppm Mo
  - 74m @ 0.14% Cu, 47ppm Mo
  - 26m @ 0.20% Cu, 119ppm Mo
  - 30m @ 0.22% Cu, 76ppm Mo

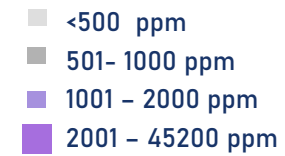


# Channel Sampling Lacsha Southwest

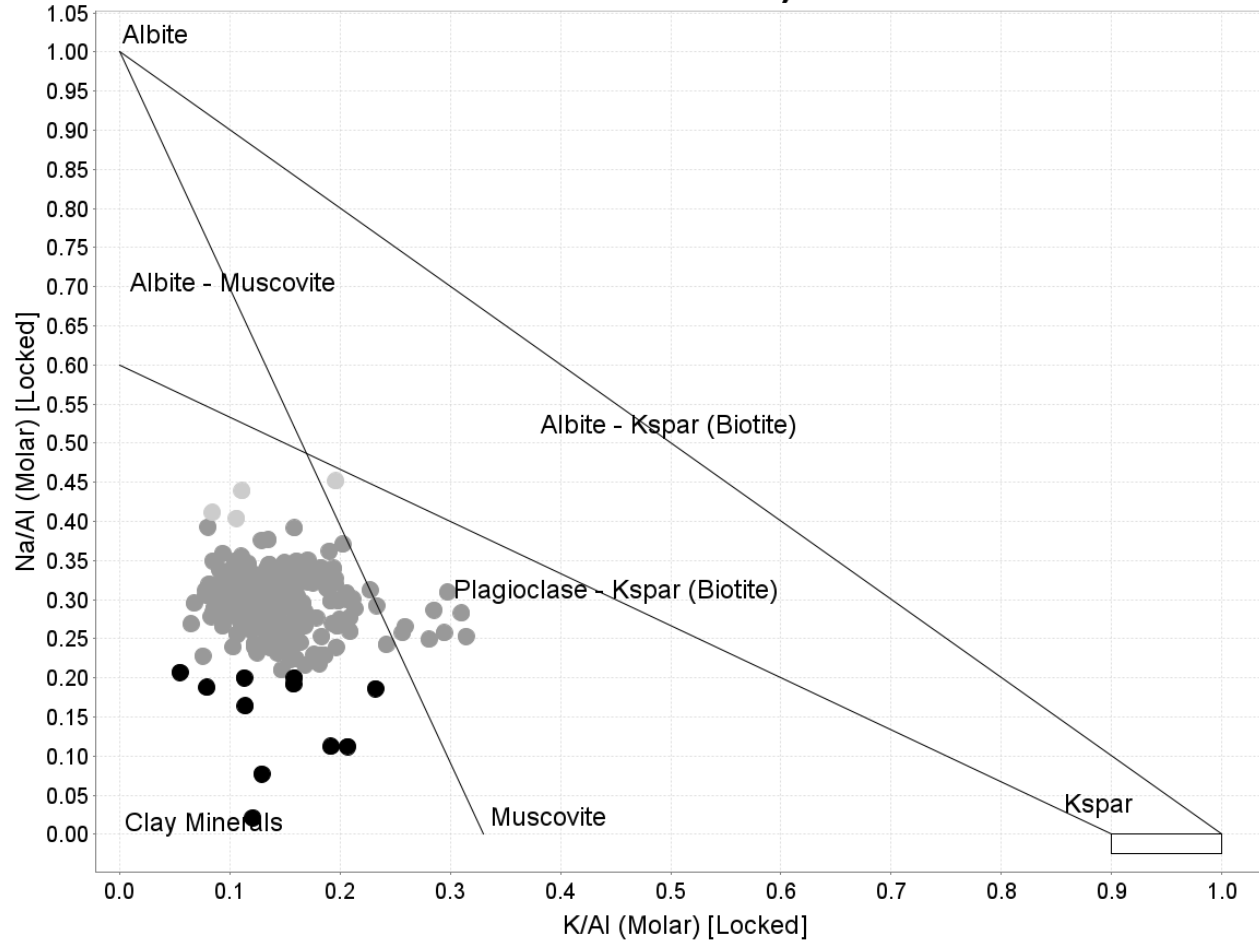


## Highlights:

- 136m @ 0.24% Cu, 179ppm Mo
- Incl. 52m @ 0.38% Cu, 237ppm Mo



Na/Al vs K/Al Molar Ratio Diagram (modified from Davies & Whitehead 2006)

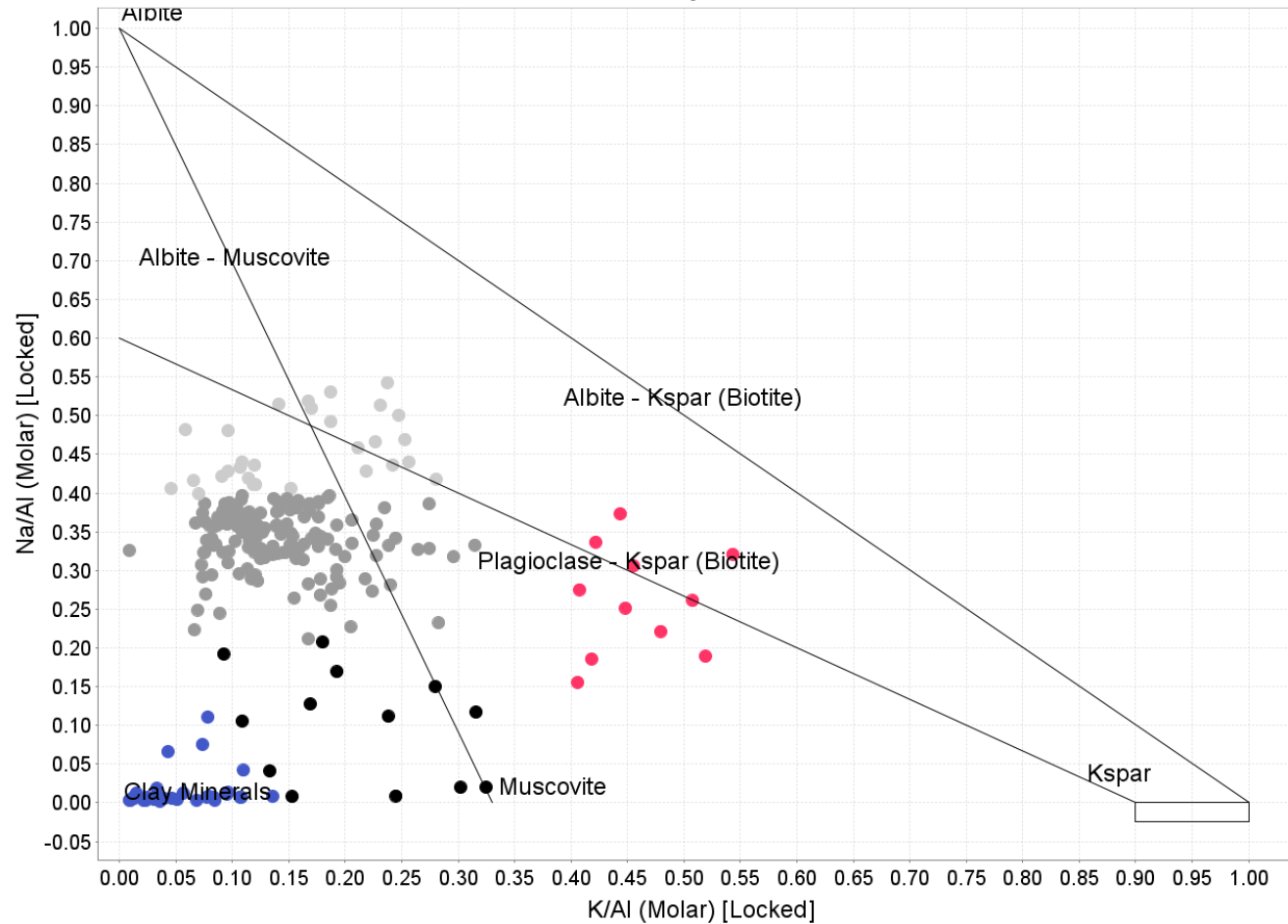


- Sericite Alteration is the most important in the talus sampling database
- Using the diagram zones with major to lower intensity of this alteration can be identified

- Strong Sericite
- Moderate Sericite
- Sericite-Chlorite



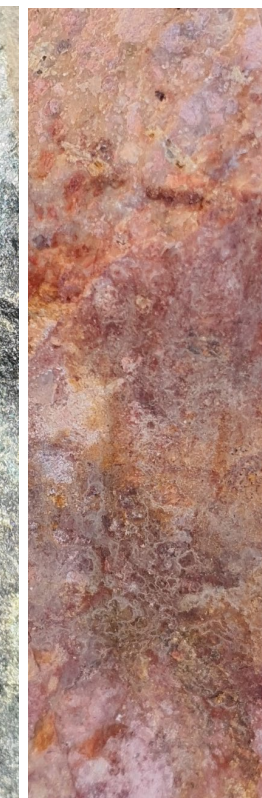
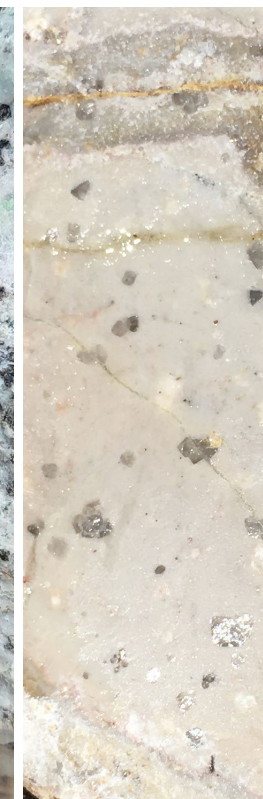
Na/Al vs K/Al Molar Ratio Diagram (modified from Davies & Whitehead 2006)



- Rock chip sampling data confirms the presence of strong to moderate sericite as well as identifying zones with potassic alteration and argillic zones, probably after sericite.

- Strong Sericite
- Moderate Sericite
- Sericite-Chlorite
- Argillic?
- Secondary biotite





Super Unit Paccho

Tonalite

Granodiorite

Granite

Super Santa Rosa  
Granodiorite

Post Coastal Batholith Mineralization Event

Porphyry Diorite

Porphyry Diorite to Rhyodacite

Post Mineralization event

Andesitic dike

Rhyolitic dike

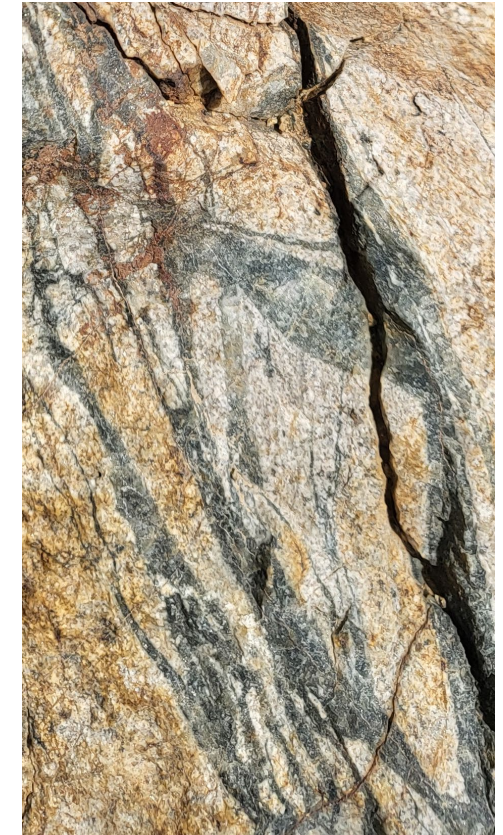




**Type C**  
Oxidized, hosted in the granodiorite,  
kilometrical expression around zones with copper oxides

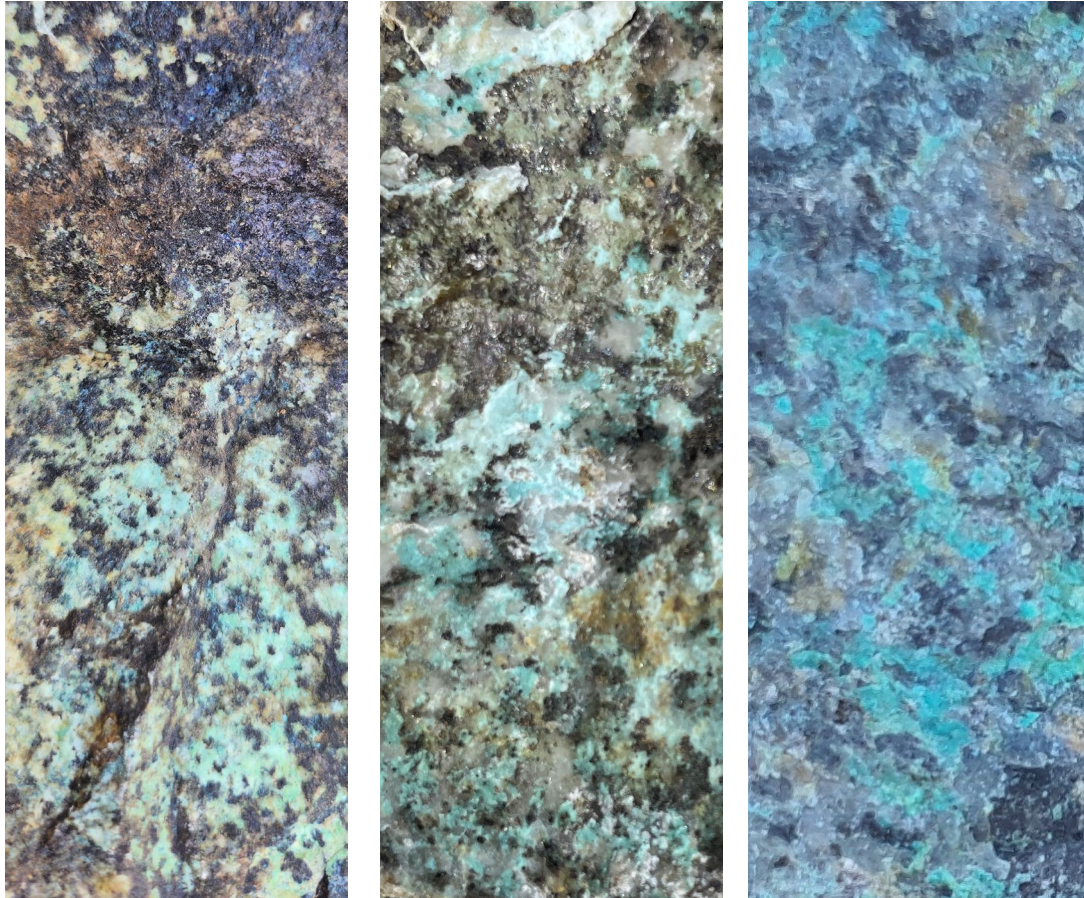


**Type A**  
Tabular  
focused in the porphyritic rocks



**Type B**  
Sinuous  
focused in the porphyritic rocks





Oxides

Copper mineralization hosted in the granodiorite country rock



Secondary Mineralization  
Chalcolite replacing Chalcopyrite  
in porphyritic rocks

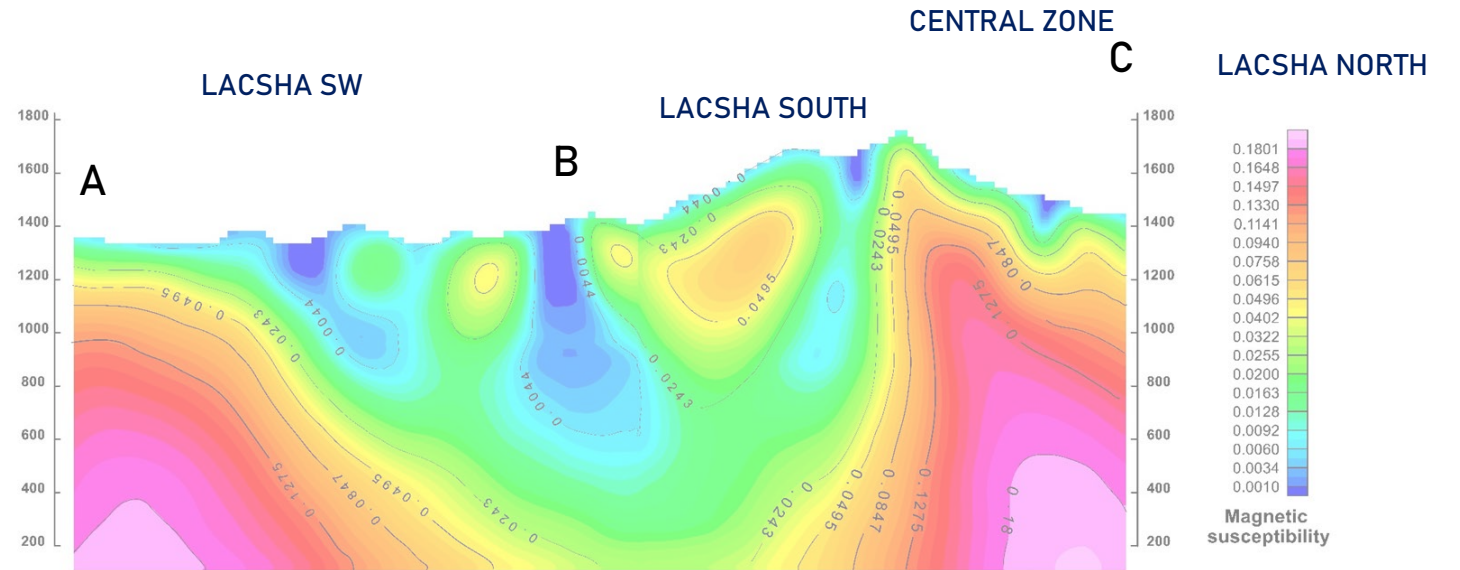
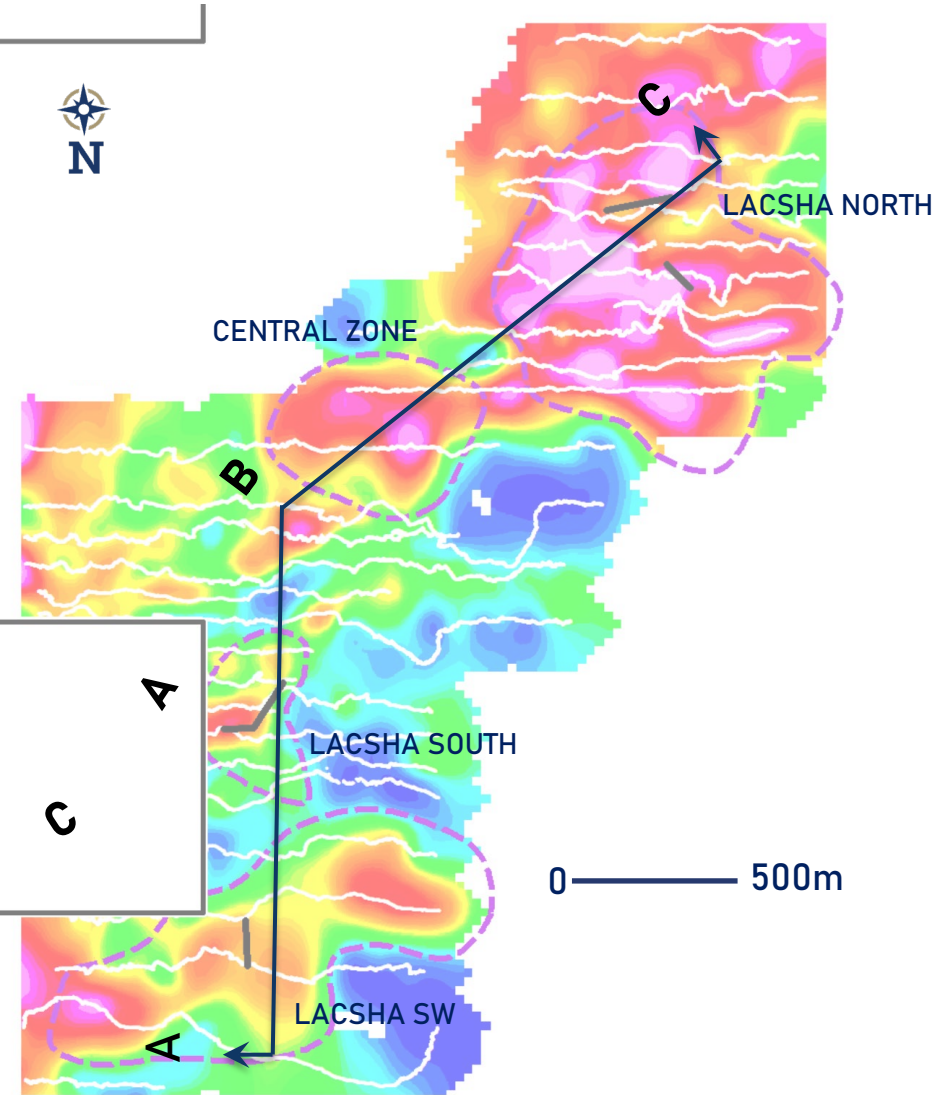


Primary Mineralization  
Chalcopyrite in porphyritic rocks

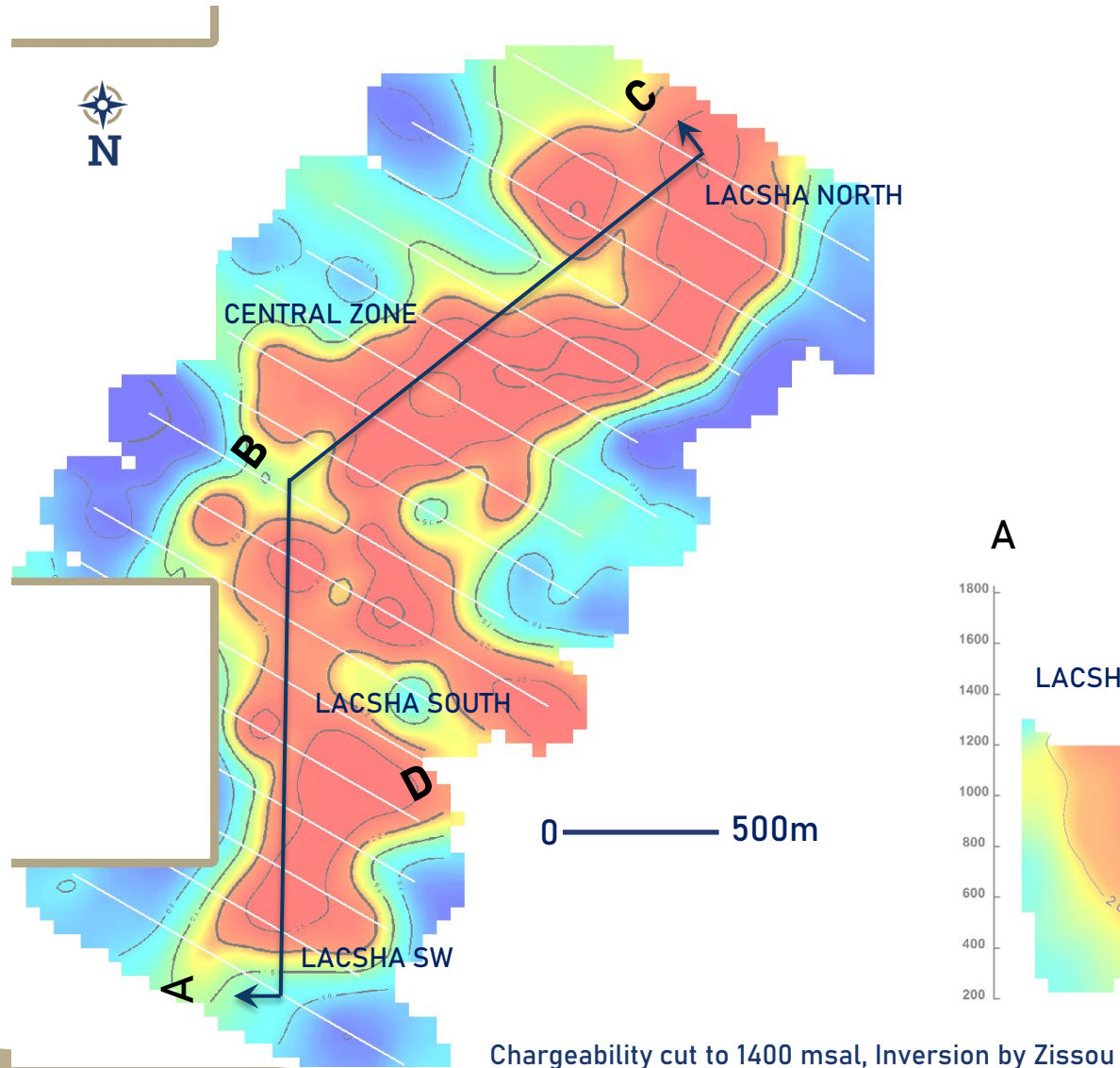


# Ground Magnetic Survey

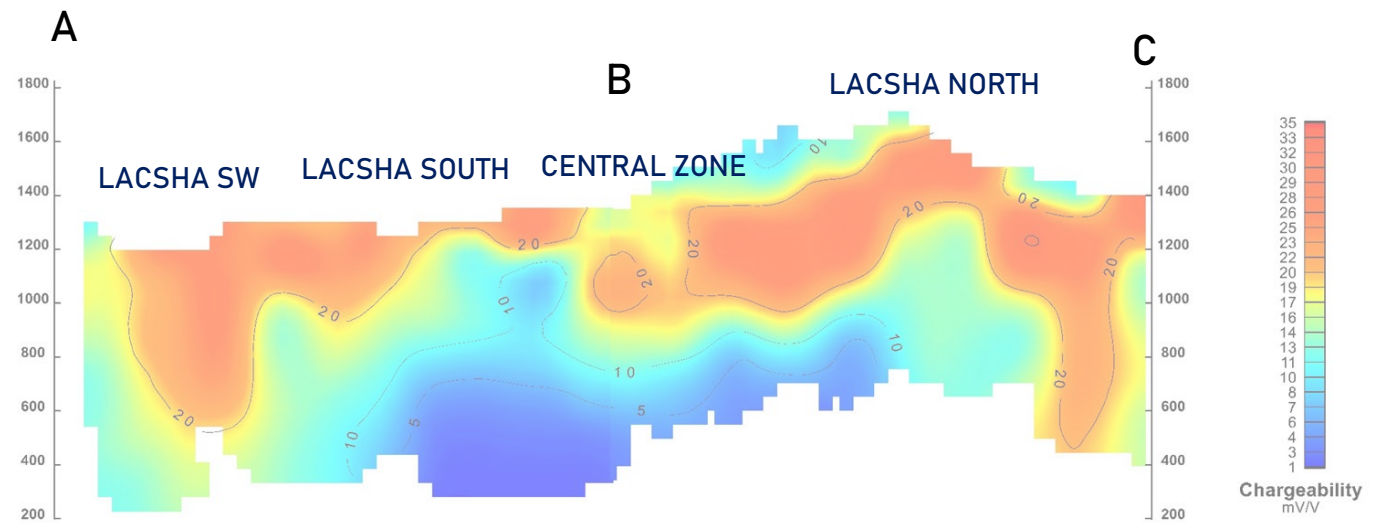
- 28 lines were surveyed, east-west direction
- Line-spacing 200m to 100m



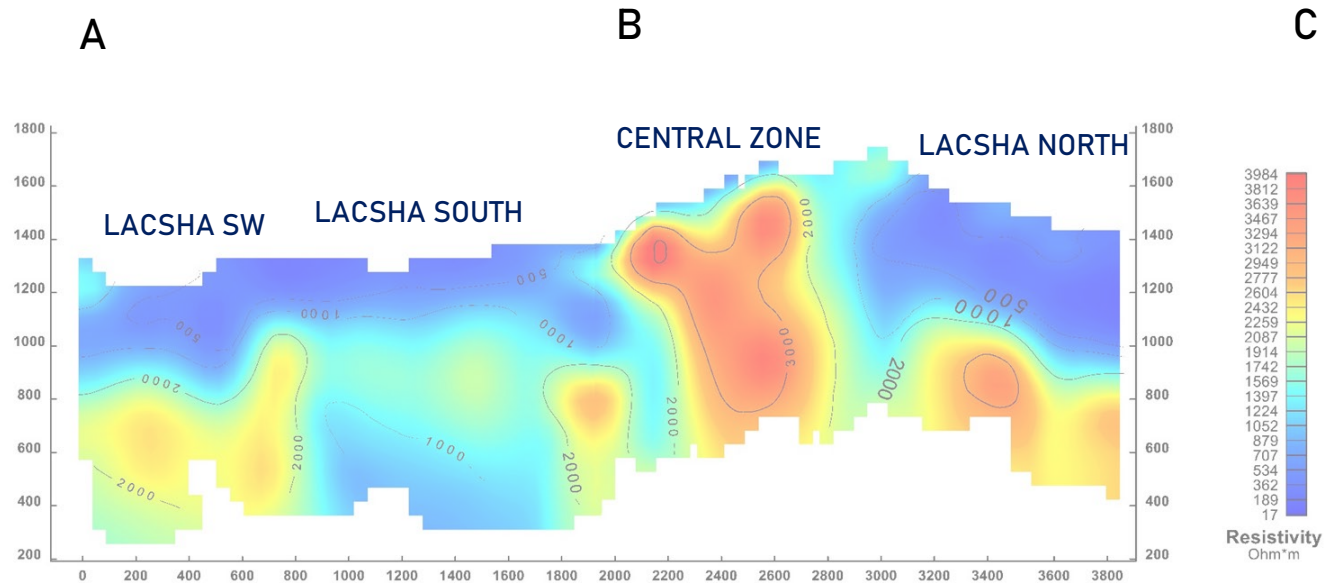
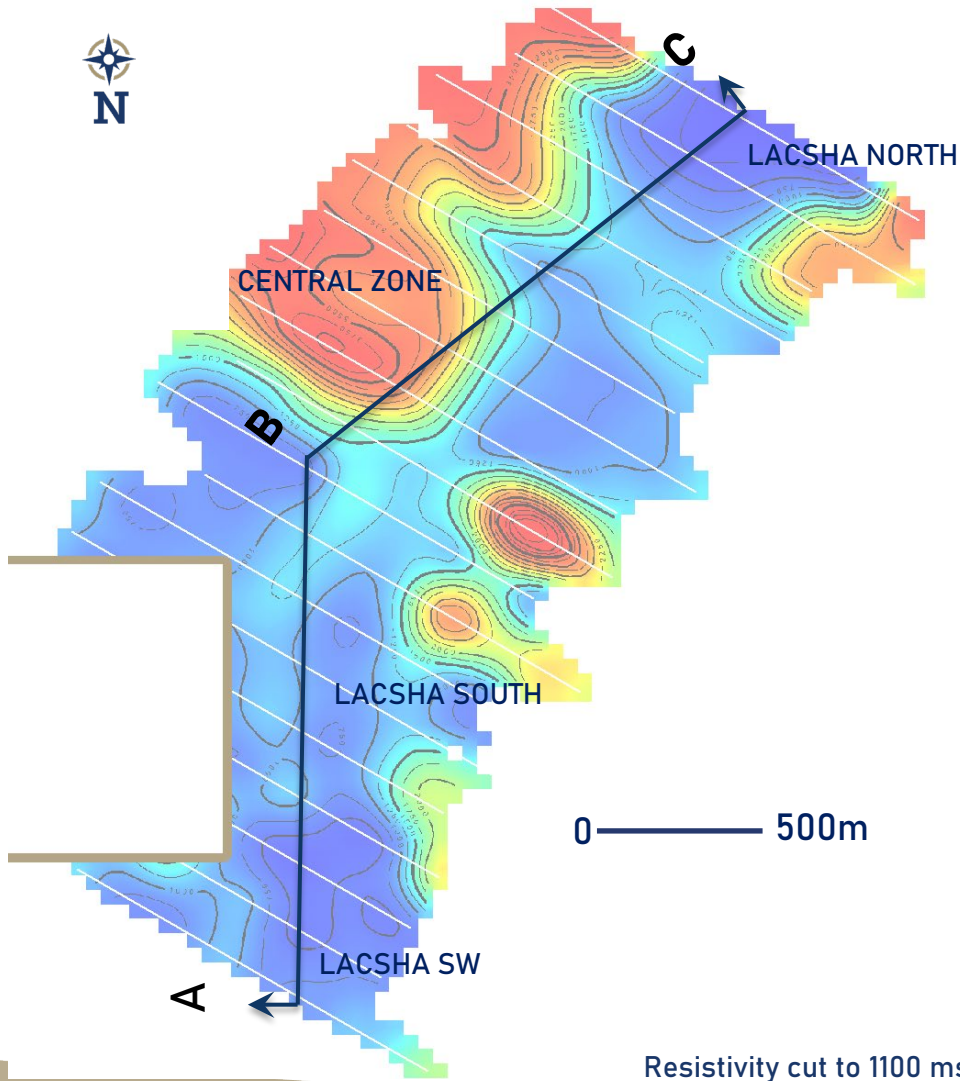
Reduce to Pole , Ground MAG, Inversion model by Zissou



- 18 lines were surveyed, northwest-southeast direction
- Very significant anomalies with high chargeability in the principal areas of exploration
- Correlating well with surface geochemistry.



- 18 lines were surveyed, northwest-southeast direction
- Faults imaged with strong contrasts



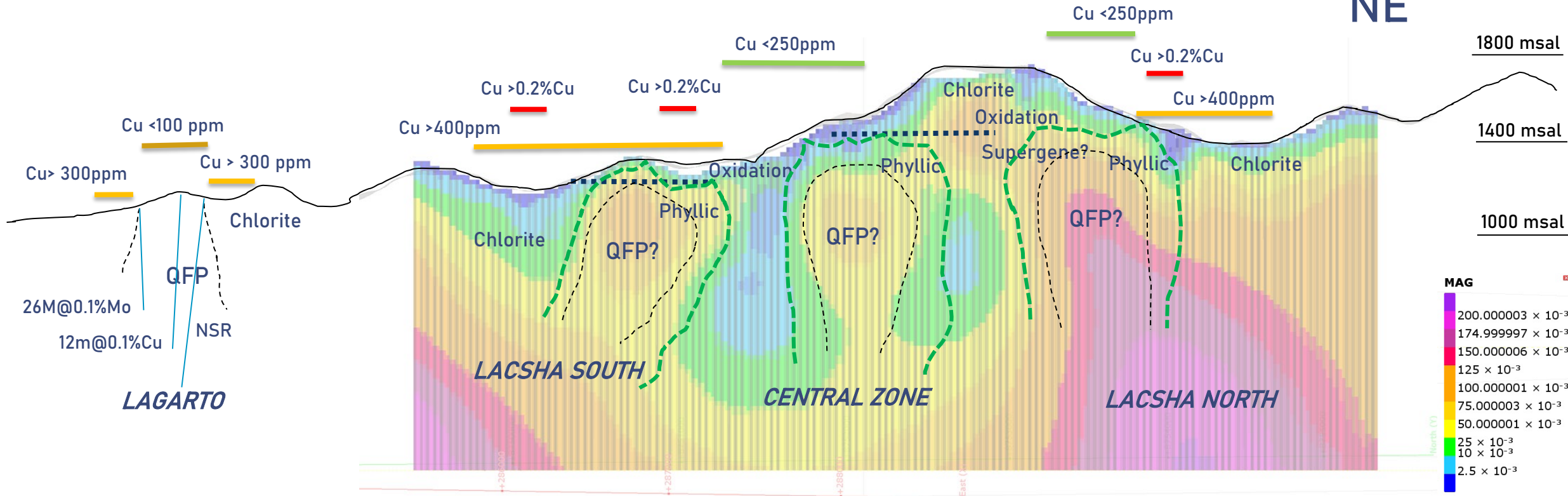
Resistivity cut to 1100 msal , inversion by Zissou



# Magnetic Interpretation

SW

NE



Lagarto area has historical drilling

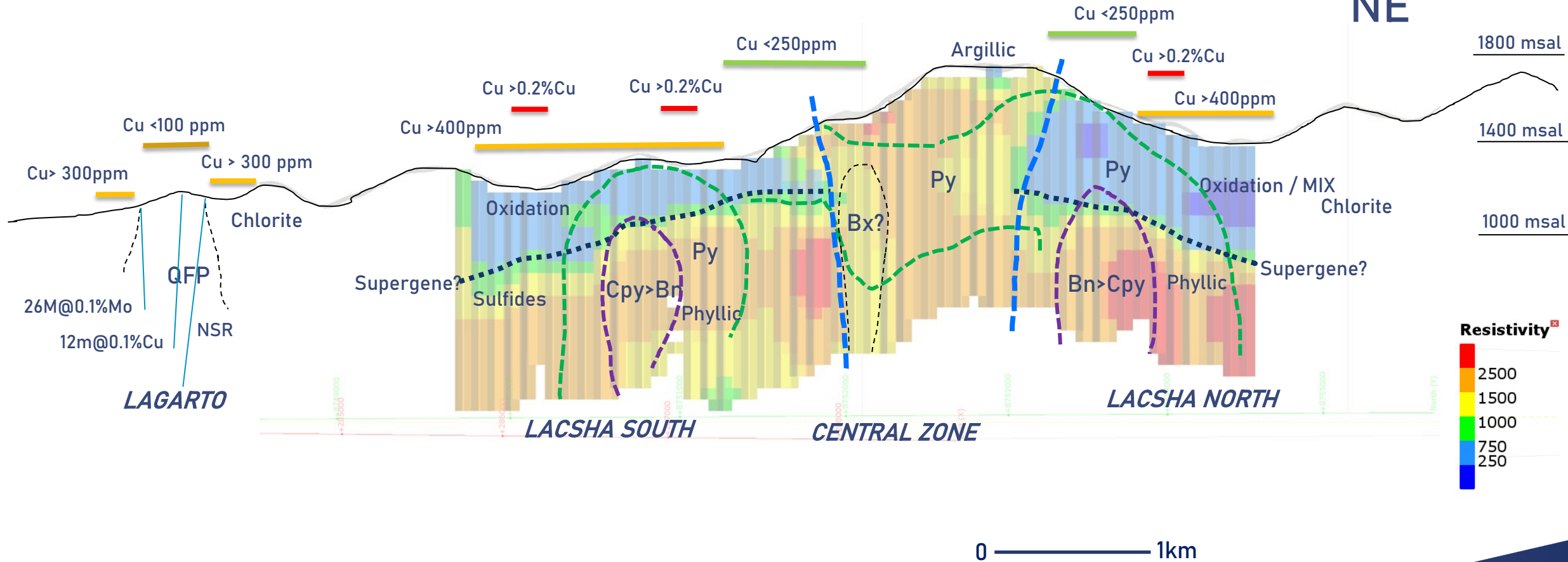
0 ————— 1km



# Resistivity Interpretation

SW

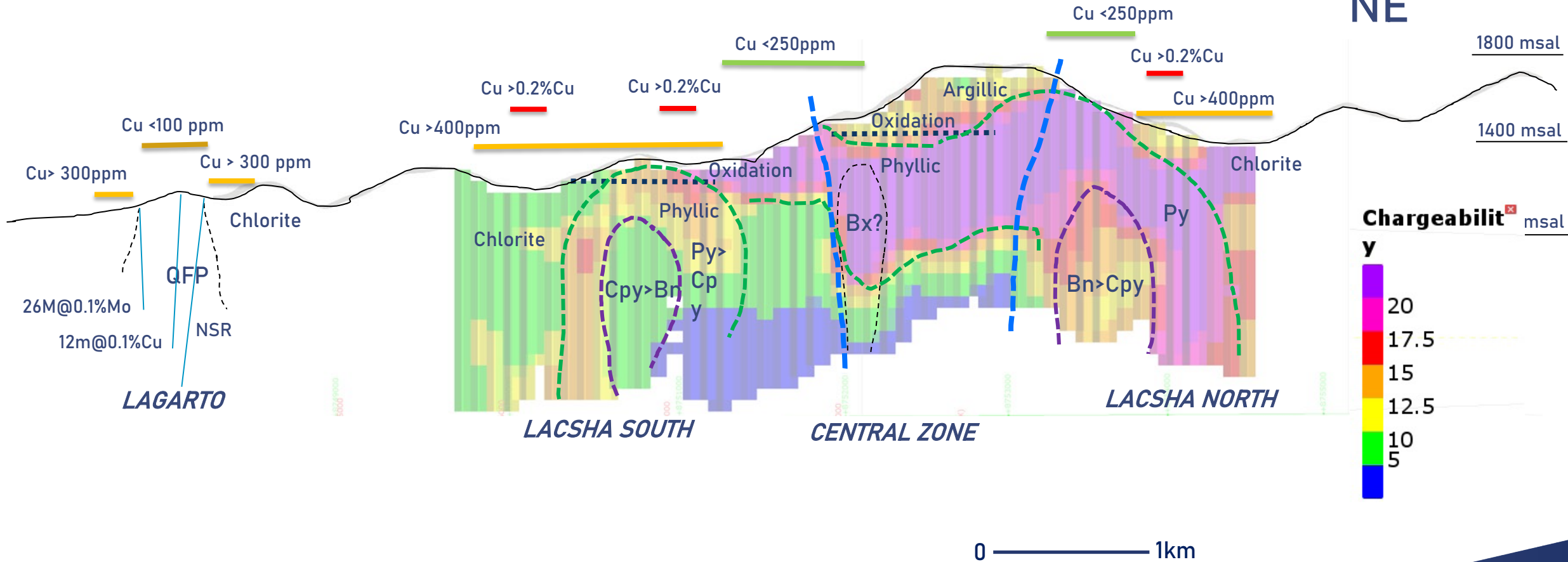
NE



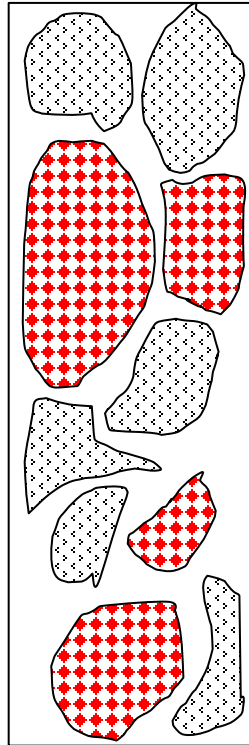
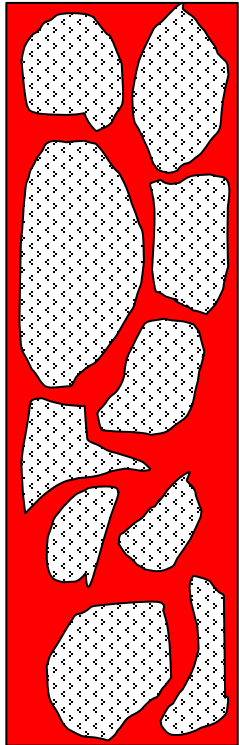
# Chargeability Interpretation

SW

NE



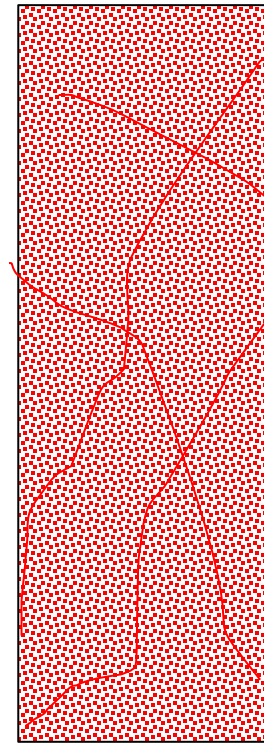
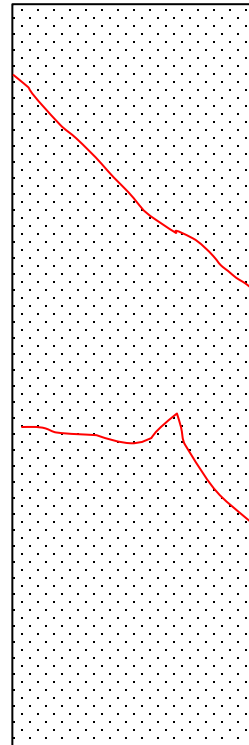
# Mineralization Styles & Target Model



**Breccia**

Sulfide Matrix:  
High CHARGABILITY  
(Cu-Fe Content )  
Low MAGNETIC (Strong  
Alteration).

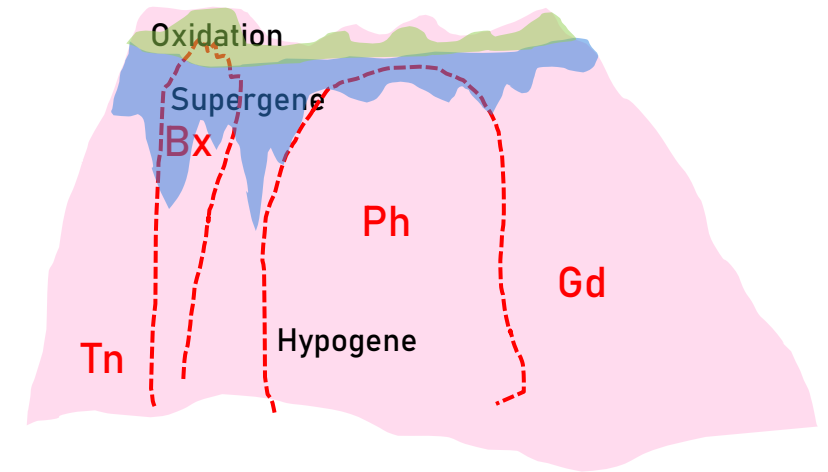
Clast with disseminated  
sulfides:  
Moderate CHARGABILITY  
(disseminated content)  
High MAGNETIC  
(Moderate Alteration)



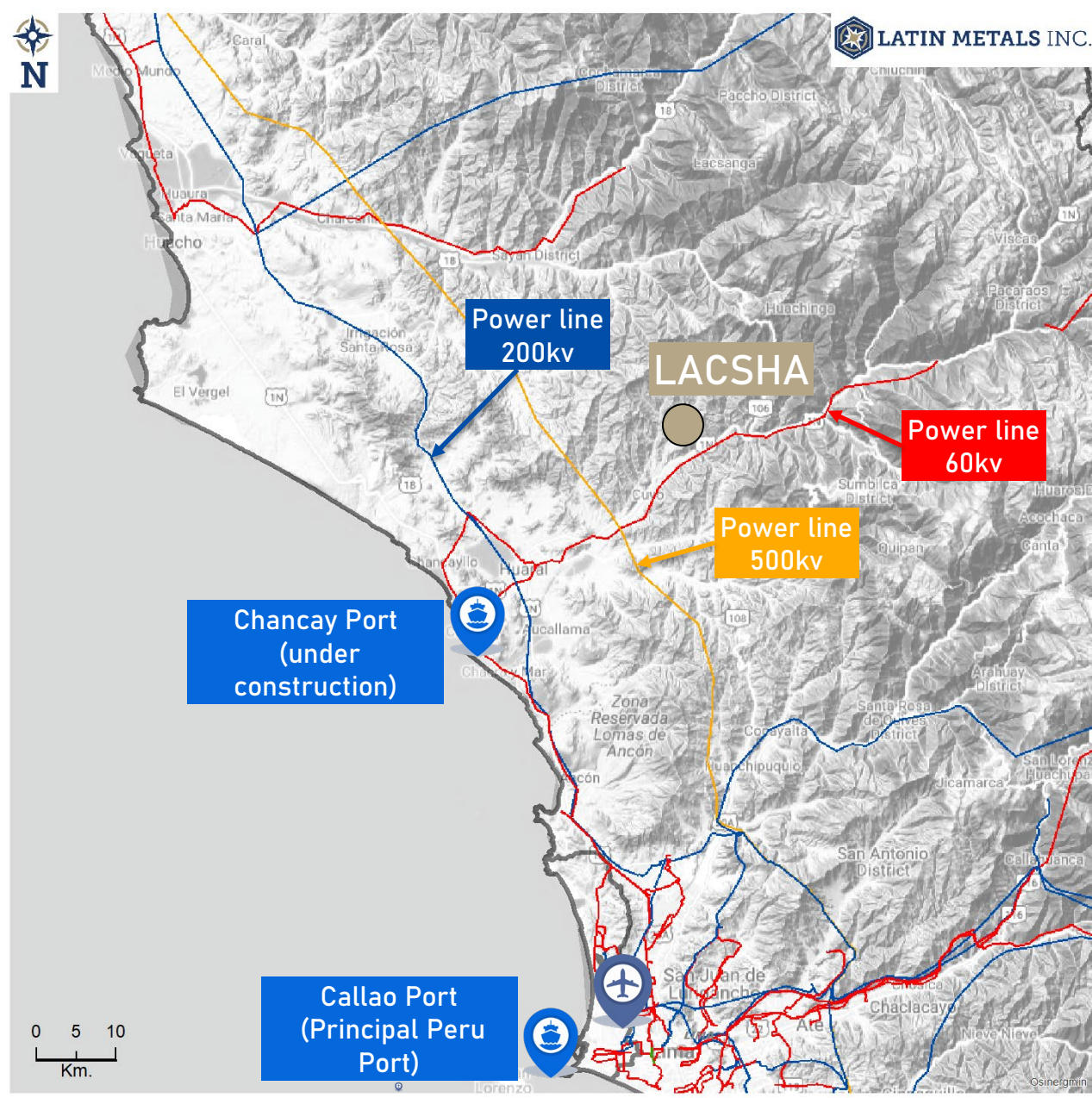
**Veinlets & Stockwork**

Granodiorite:  
Moderate  
CHARGIABILITY  
High MAGNETIC

Porphyries:  
Moderate to High  
CHARGIABILITY  
HIGH MAGNETIC



**Model** Bx = Breccia  
Ph = Porphyry  
Gd / Tn = Granodiorite / Tonalite

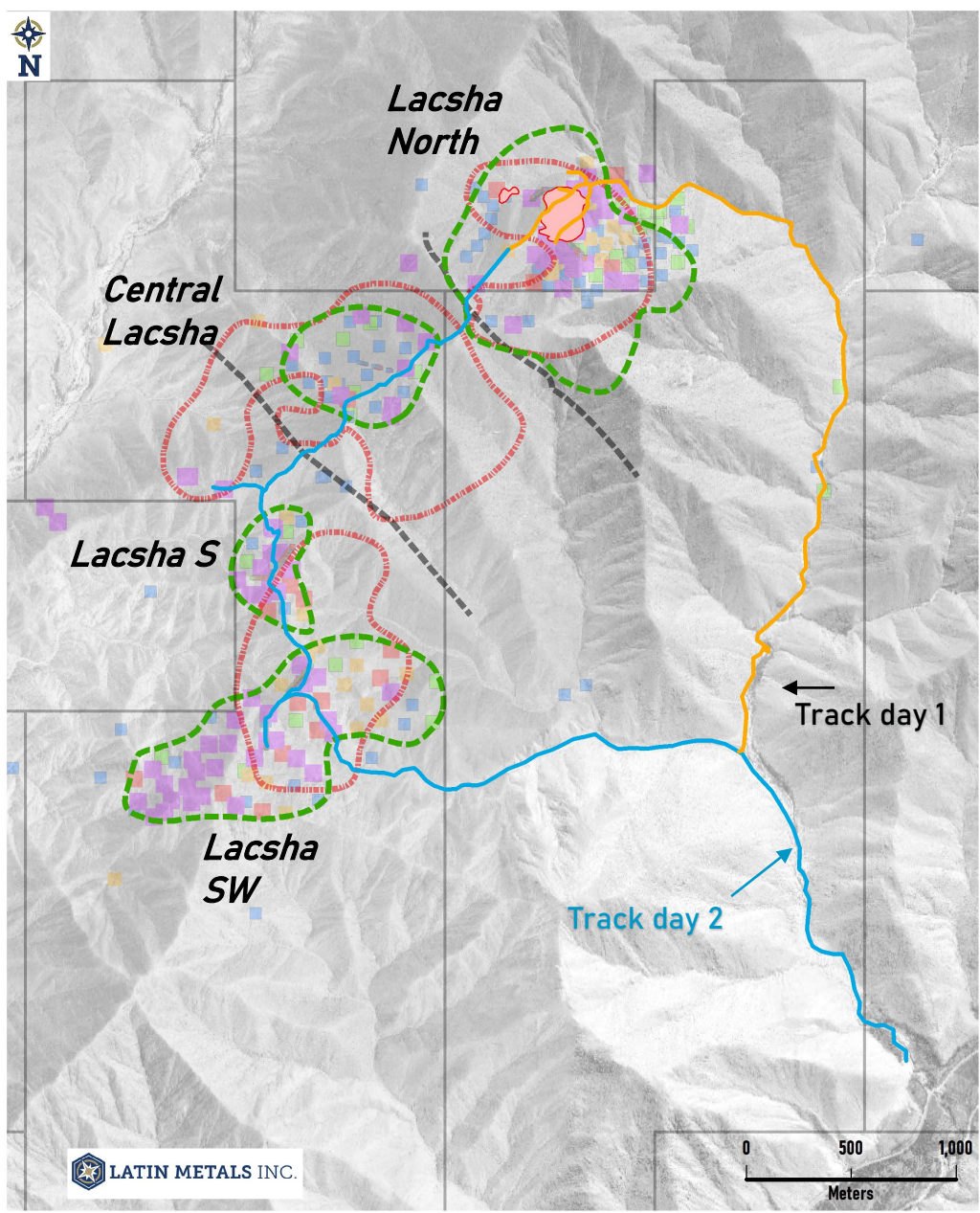


- Favorable location
- 90km north of Lima
- 40km east of the new port of Chancay – 70% complete
- <5km from a 60kv power line and 12km from a 500kv power line





# Field Visit Itinerary



## Day 1

Starting visit from Totoral stream.  
Visiting Lacsha Southwest  
Lacsha South  
Ending in Totoral stream.

## Day 2

Starting in Totoral stream.  
Full day in Lachsa North.  
Ending in Totoral stream.

### Lithology

 Porphyritic Dacite With Qz stockwork

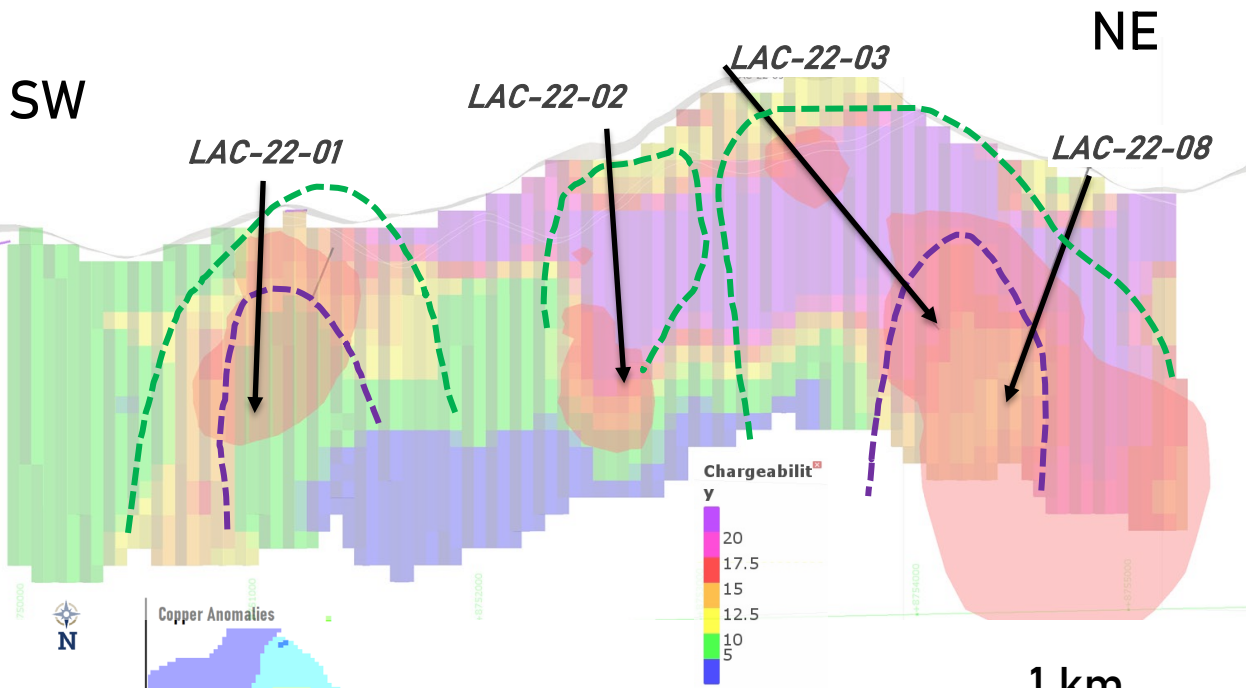
### Geophysics

-  High Chargeability
-  Resistivity Breaks
-  High-Moderate Ground MAG

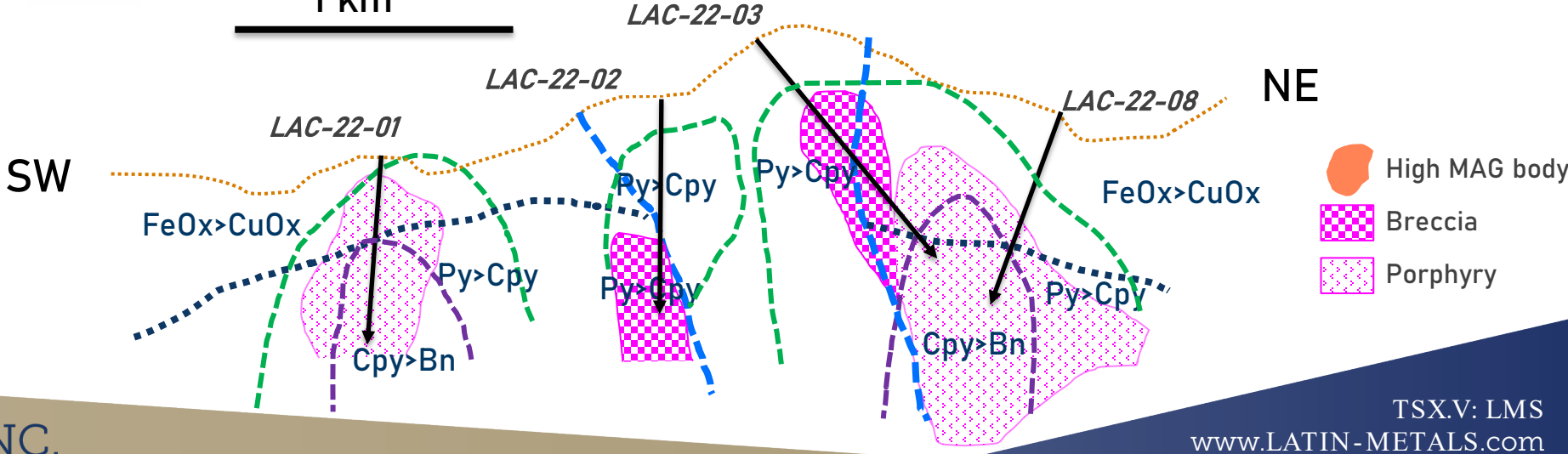
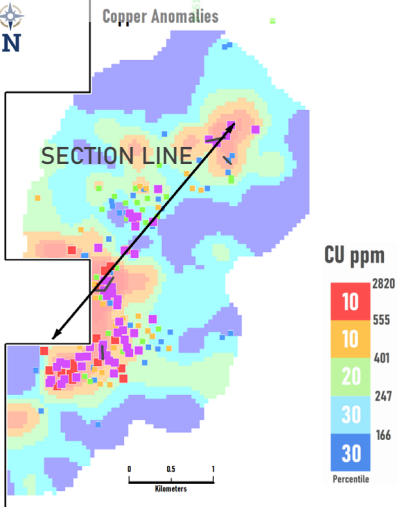
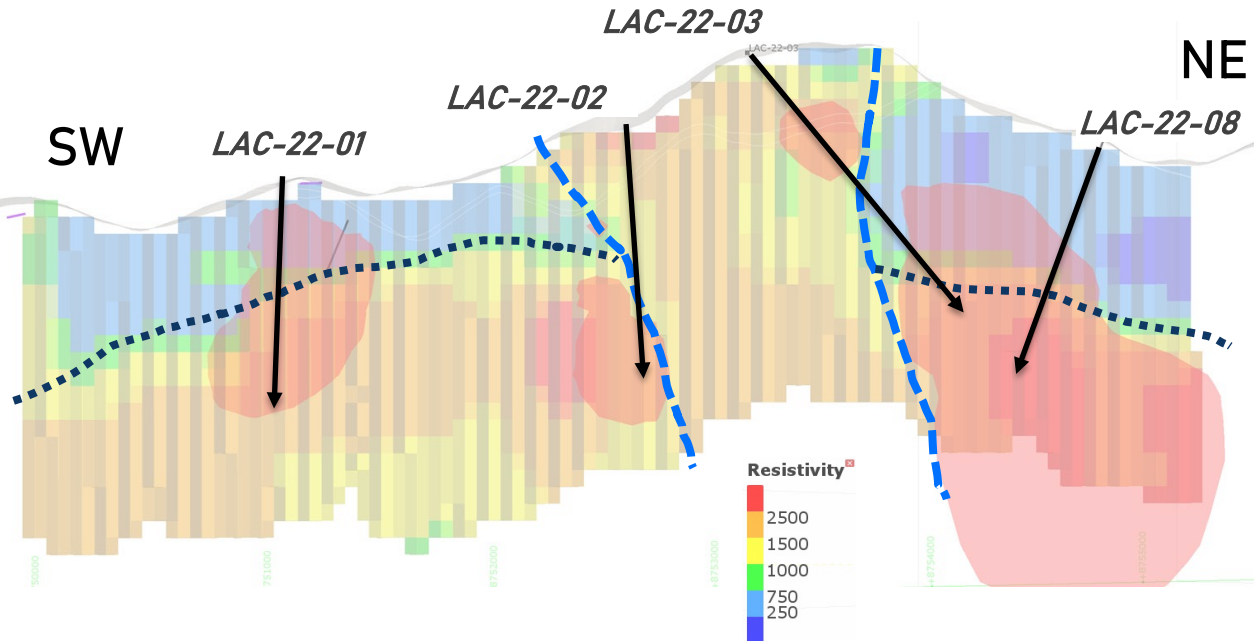
# Appendix – Schematic Sections / Drill Targets

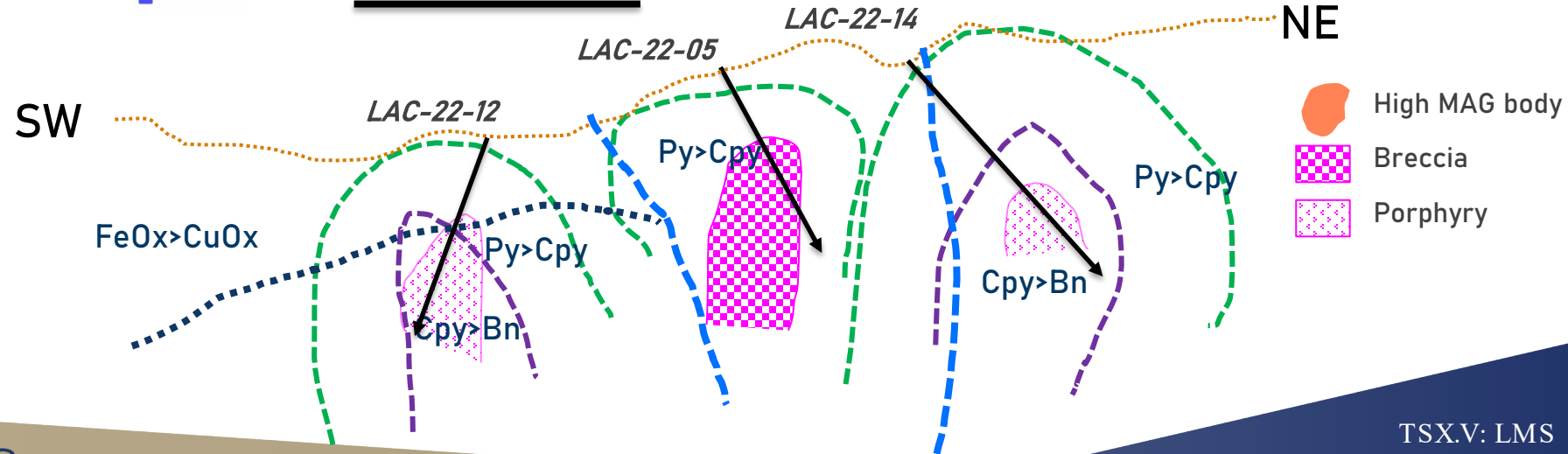
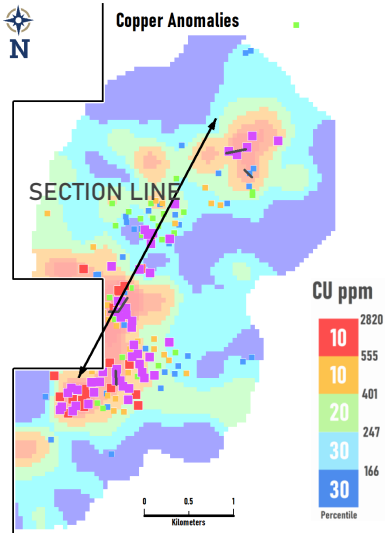
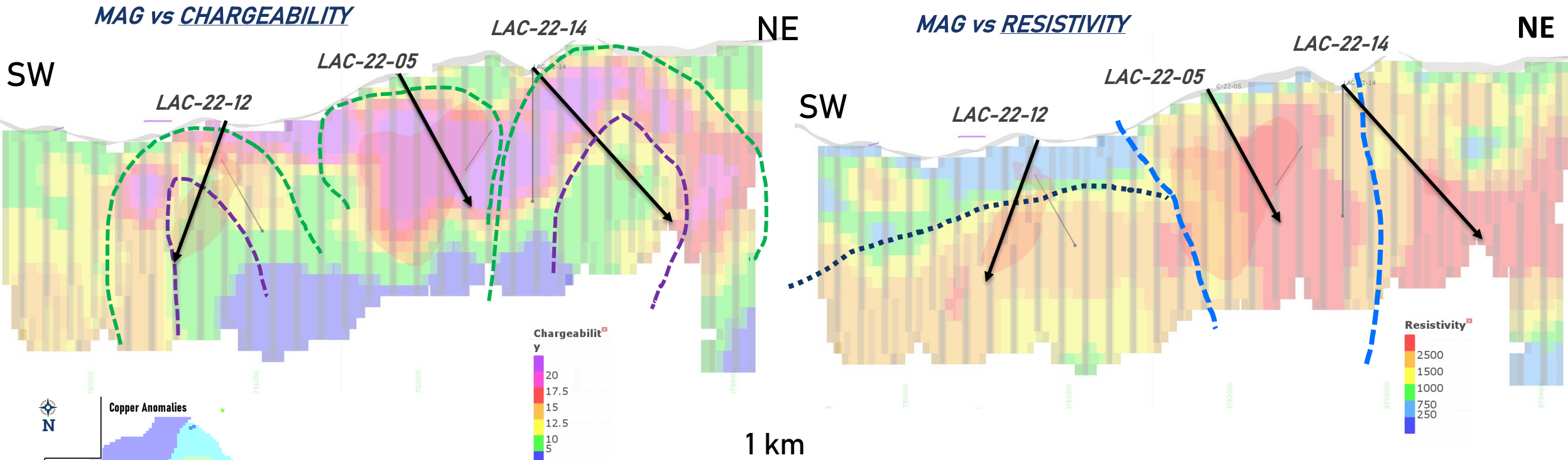
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**MAG vs CHARGEABILITY**



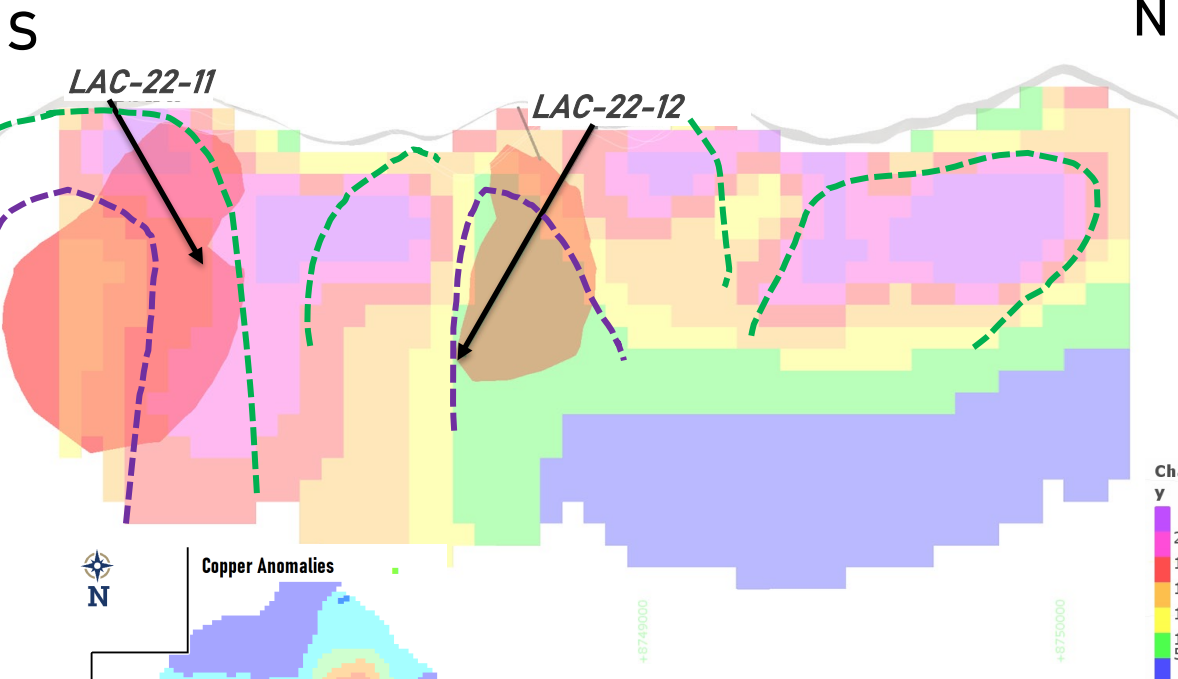
**MAG vs RESISTIVITY**



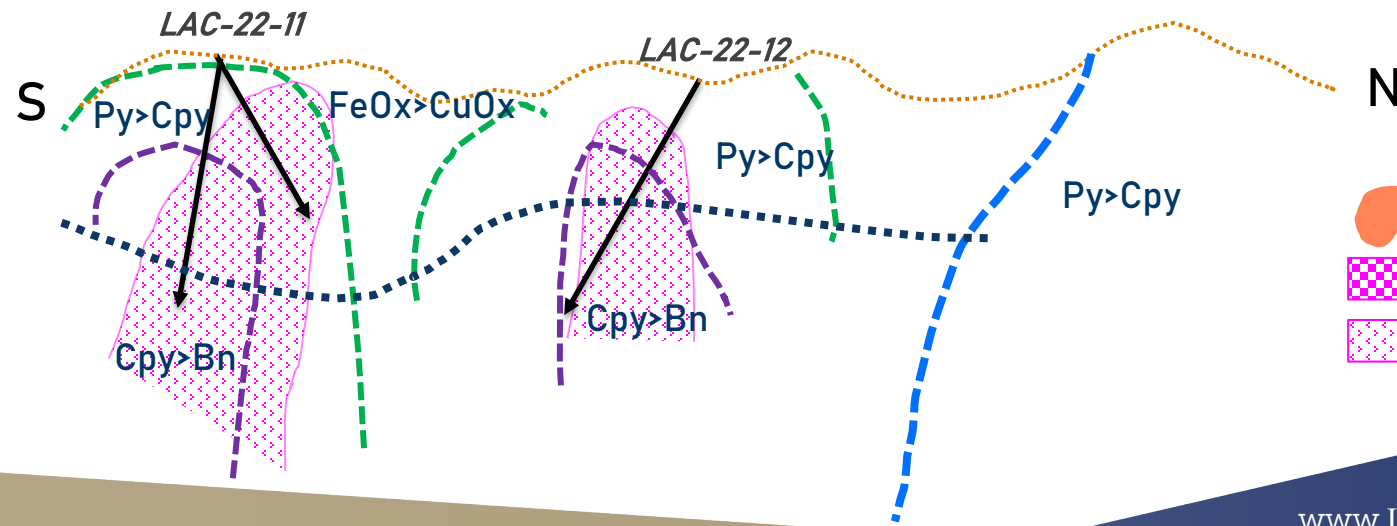
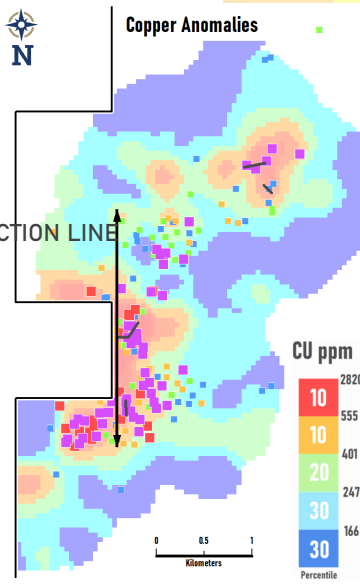
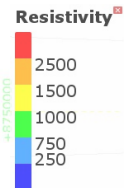
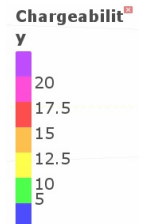
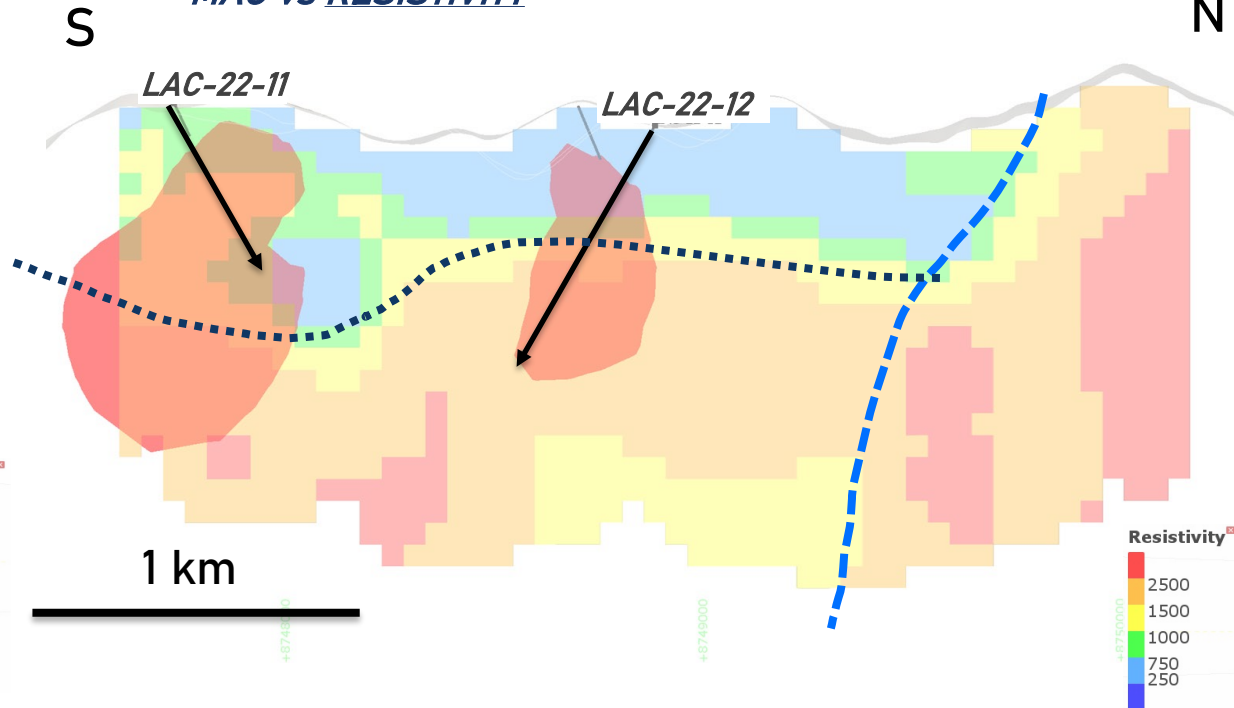




**MAG vs CHARGEABILITY**



**MAG vs RESISTIVITY**

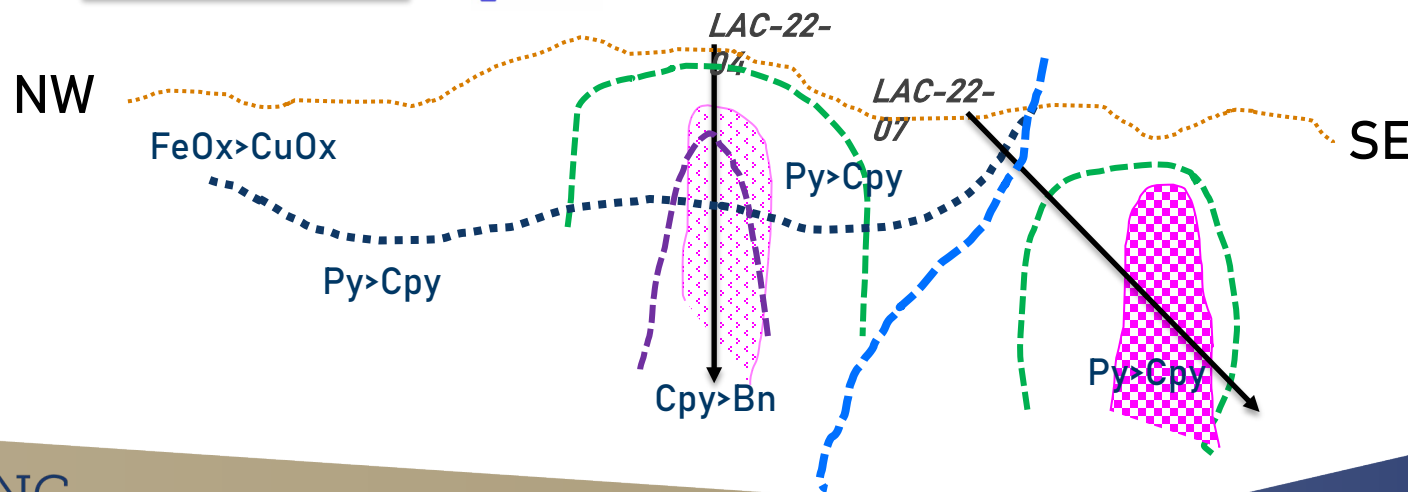
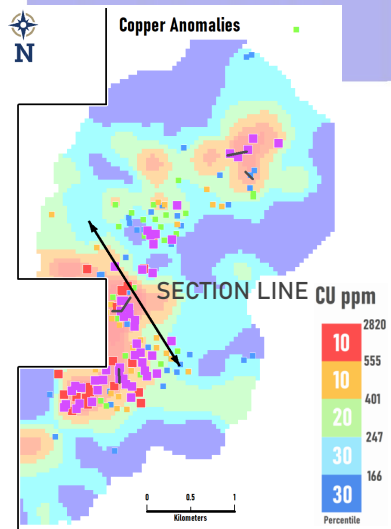
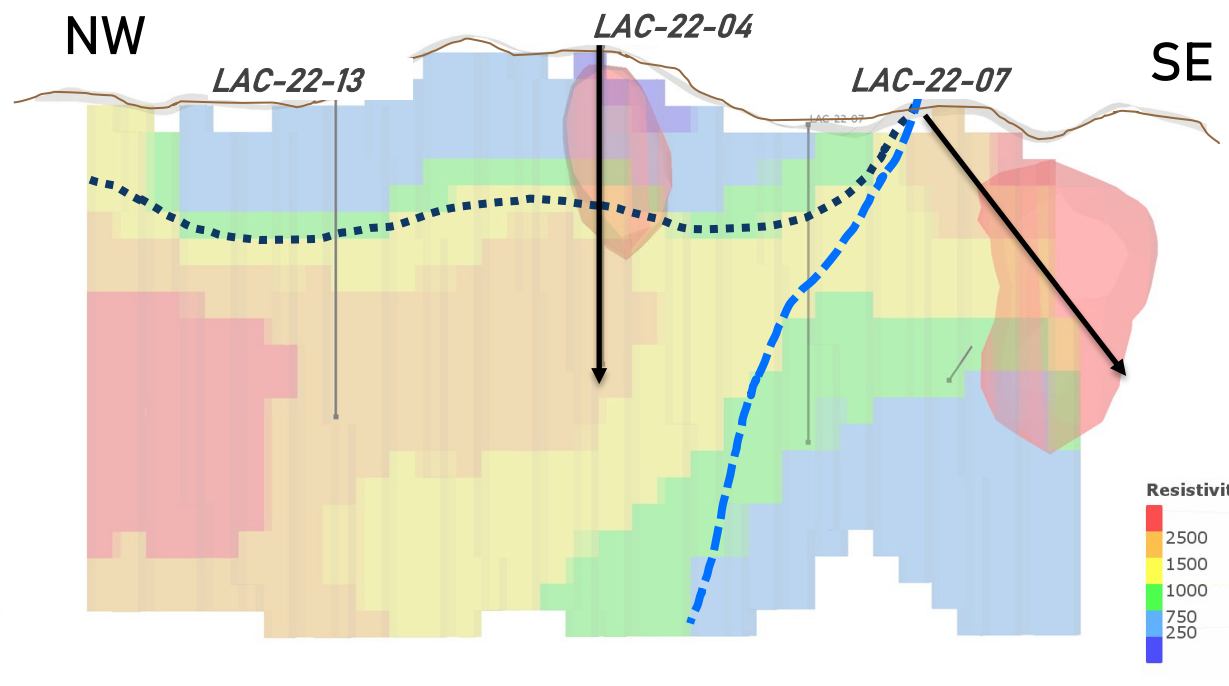
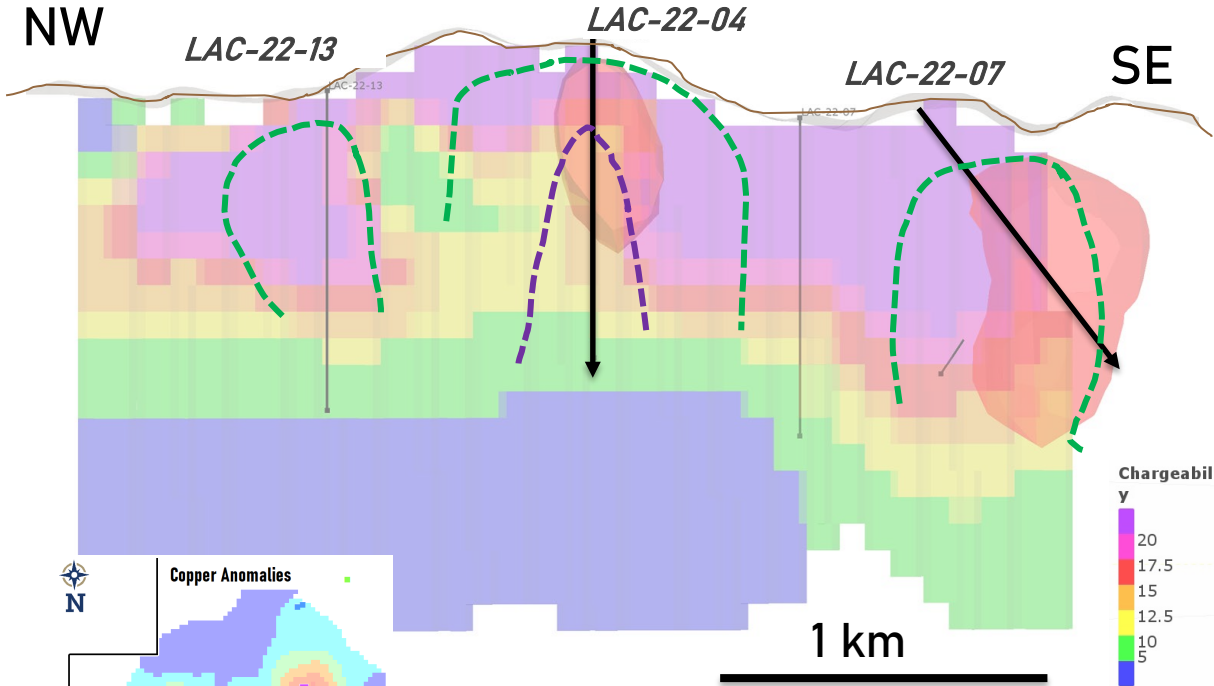


- High MAG body
- Breccia
- Porphyry



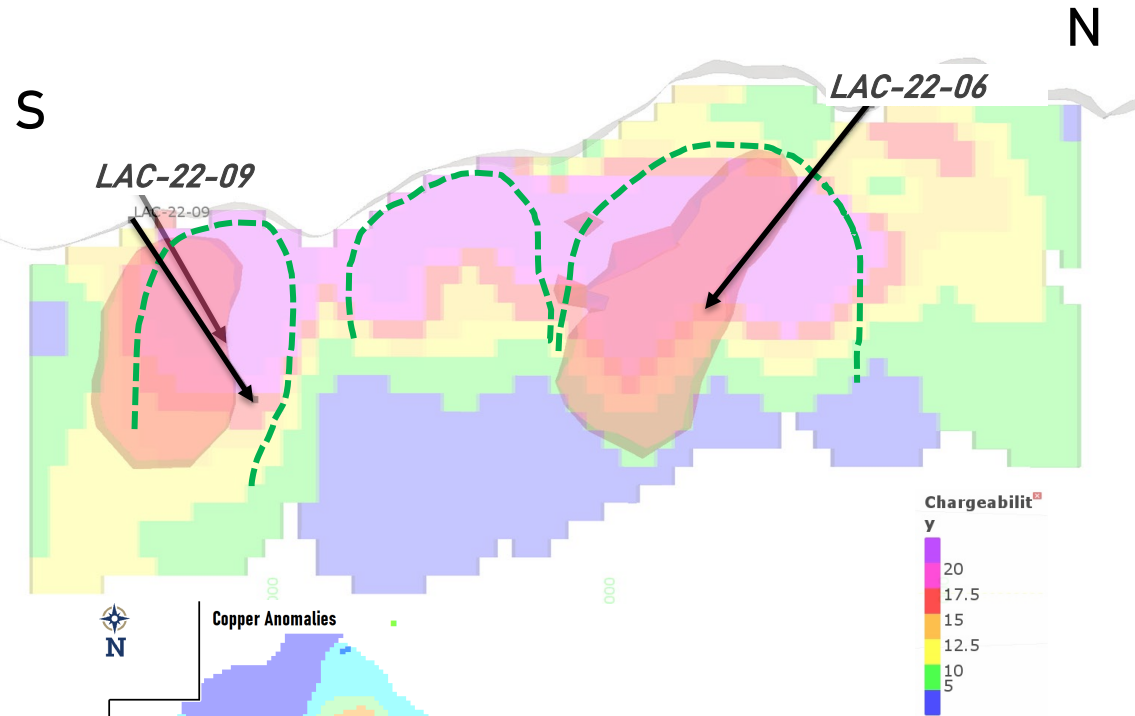
**MAG vs CHARGEABILITY**

**MAG vs RESISTIVITY**



- High MAG body
- Breccia
- Porphyry

**MAG vs CHARGEABILITY**



**MAG vs RESISTIVITY**

