

TSX-V: NIM  
OTC: HUSIF  
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# Advancing Discovery

*New Craigmont Project's  
High-grade Copper Potential*

April 2024 Presentation



**NICOLA**  
MINING INC

[NICOLAMINING.COM](http://NICOLAMINING.COM)

# LOCATION

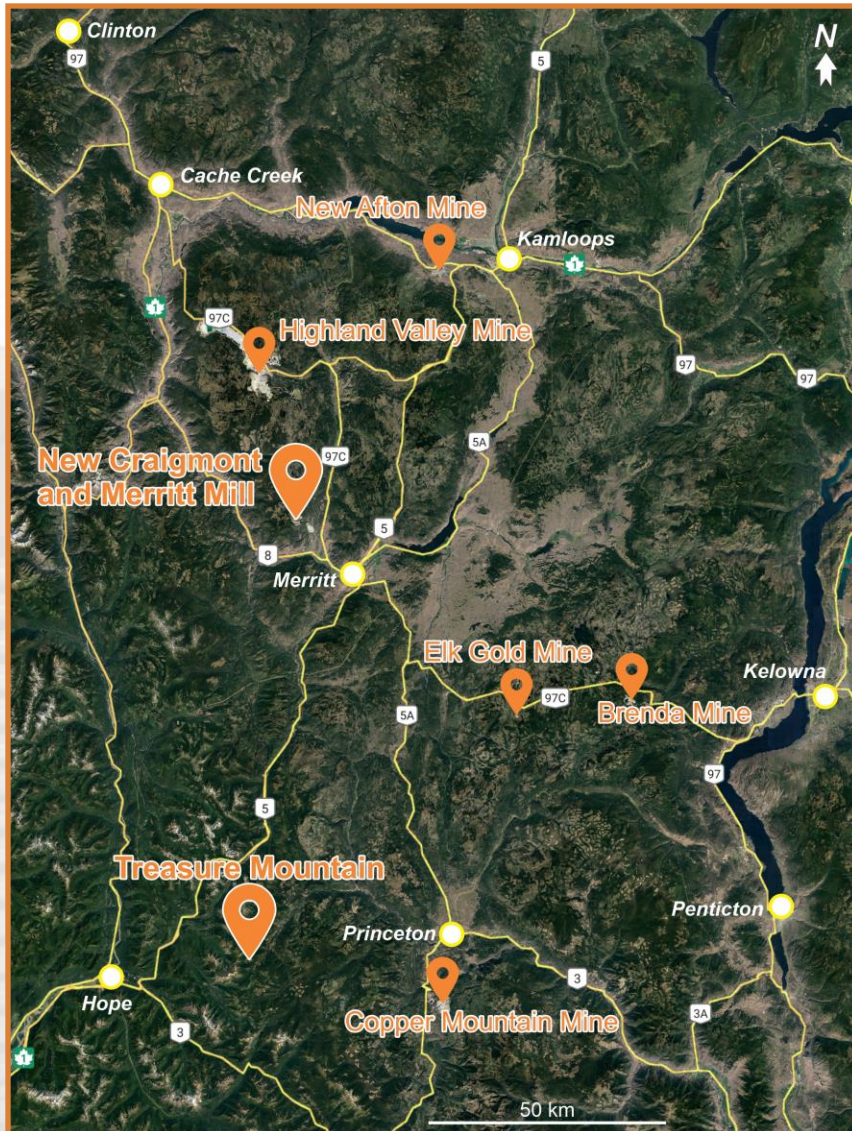


## Right jurisdiction:

- Major producing mines
- Connected to Highway 8
- Connected to Power grid
- Water permits in place
- Near major cities



# LOCATION



- Brownfield site of the former Craigmont Mine
- Located 14 kilometers northwest of Merritt, BC.
- Highway access via Highway 8 and Aberdeen Road.
- In the heart of the Okanagan mining districts.
- Site is fully serviced by hydro power with 1.7kva available.
- Daily water permit draw of up to 1,300,000 gallons per day.
- Fully lined tailings facility.

# THE CRAIGMONT MINE

## Operations over numerous years

- **First Showing 1897**
  - Limited shipments of copper before being abandoned.
- **Reactivation in 1916**
  - 1,261 tonnes (1,400 tons) @ 7% Cu
- **1928- Re-opened**
  - Problems with flooding in mine.
  - 9 ounces (280 g) Au, 761 ounces (2,400 g) Ag, and over 390,000 lbs (177,000 kg) Cu.
- **Early 1960's (Torwest Resources Ltd.)**
  - 60 tonnes (67 tons) @ 12% Cu produced and Shipped (Ron Senshaw).

Source: The Craigmont Story - Murphy Shewchuk, Published 1983.



Craigmont Corundum Mill. Circa 1908



Craigmont Mine, Robillard Mountain. 1913



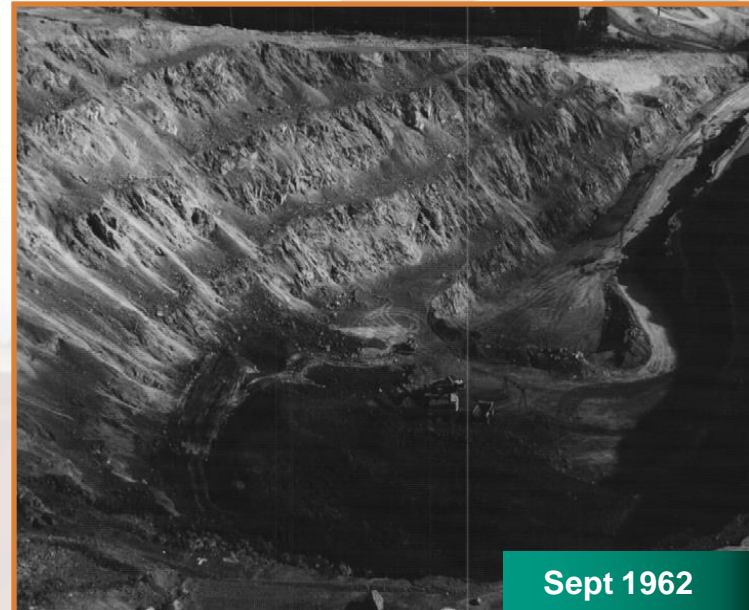
# THE CRAIGMONT MINE

Both open pit and underground mining was used to extract copper and magnetite from 1958-1982. Mining ceased due to copper price of ~\$0.60/lb.



Aug 1961

- 1961-1982, Craigmont produced 34Mt ore @ 1.3% Cu both from underground and open pit.
- Historic cut-off grade is 0.7% Cu.
- Body No. 3 remains in situ.



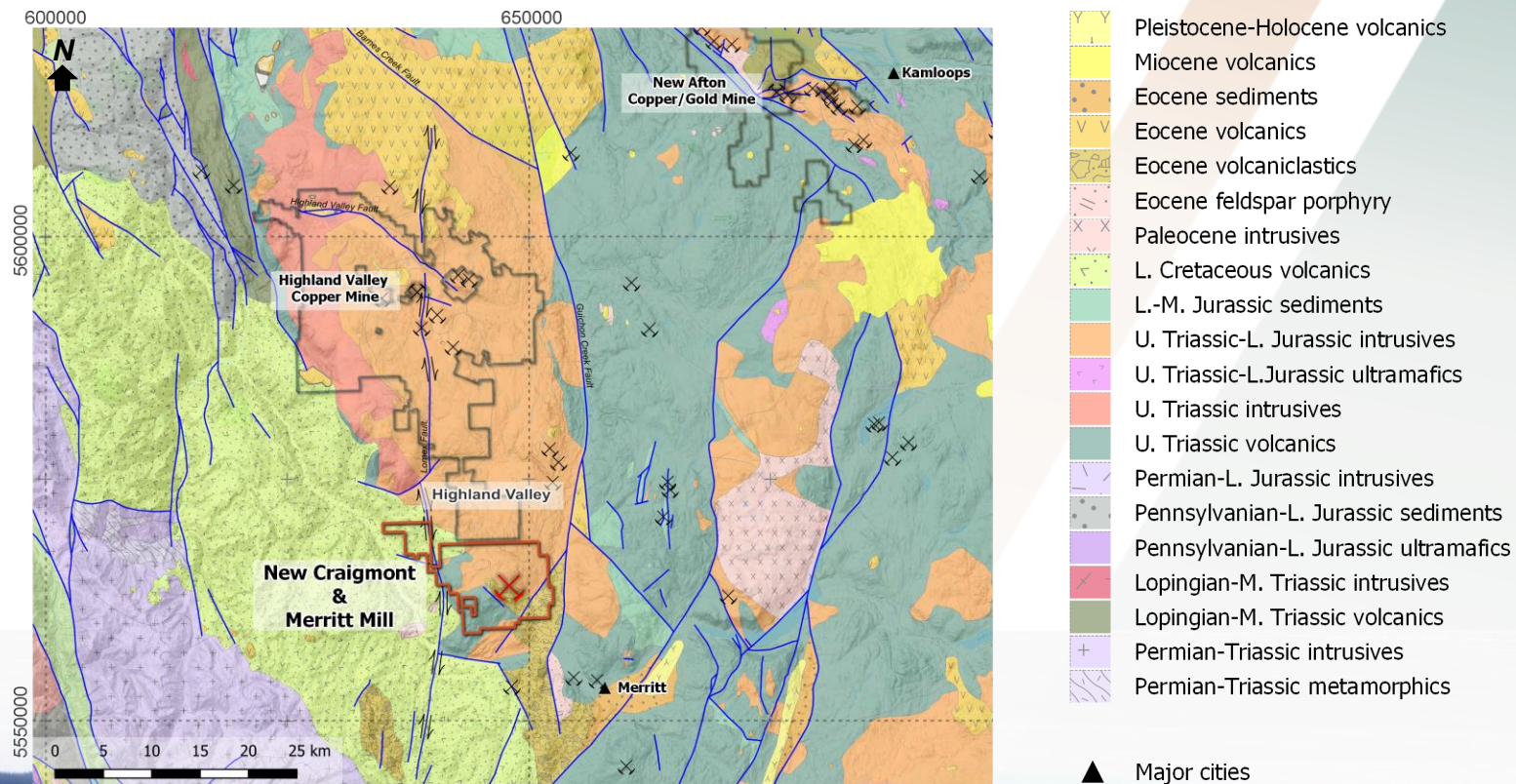
Sept 1962

- 1993-2014, magnetite produced by re-processing of Craigmont Mine tailings.
- Canada's leading producer of high-grade magnetite.

Image source: BC Property Files

# REGIONAL GEOLOGY

Shares the regional geologic environment with TECK's Highland Valley Copper District, the largest copper producer in Canada.





# PROJECT GEOLOGY

## LITHOLOGY

Upper Triassic Nicola Group intruded by Late Triassic Guichon Creek batholith. The western portion is overlain by the Cretaceous Spences Bridge Group. Two plugs related to the Triassic Coyle Stock found on the southern part of the property.

### Guichon Creek batholith

- Highland Valley Phase granodiorite
- Border Phase quartz diorite

### Coyle Stock

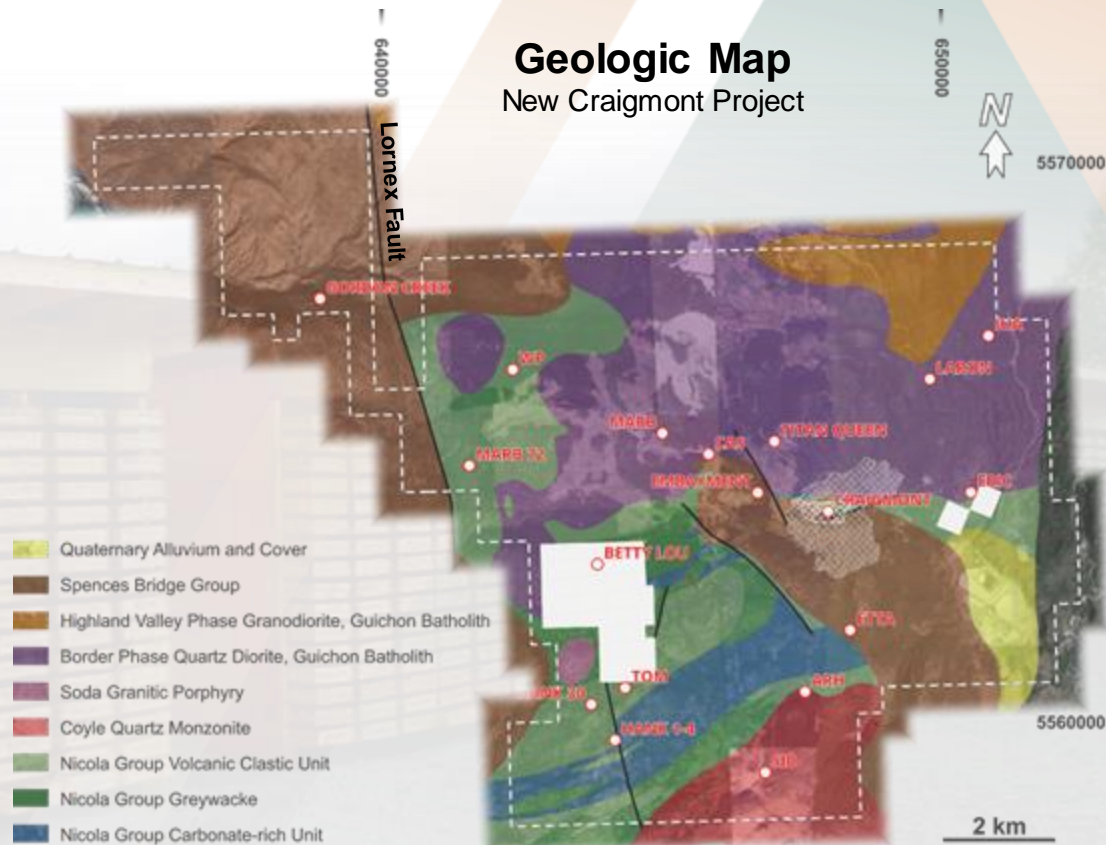
- Quartz feldspar porphyry plugs

### Nicola Group

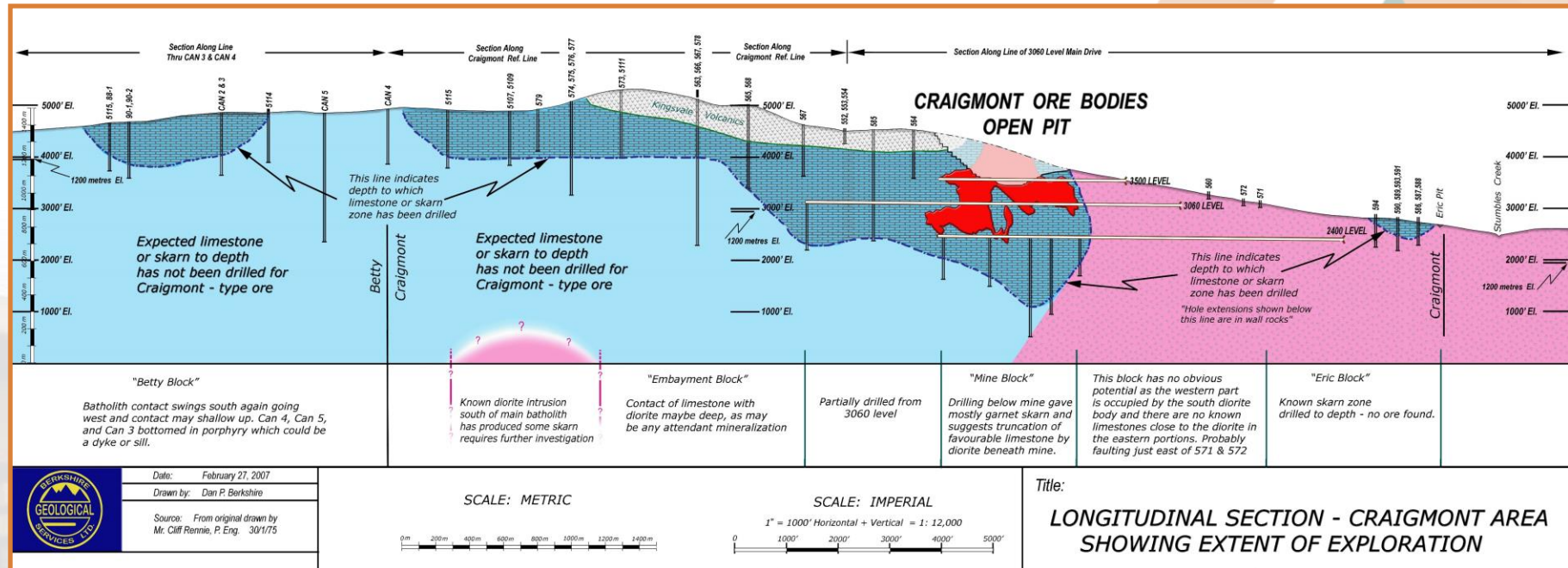
- Rhyolitic to andesitic volcaniclastic rocks
- Quartz-Feldspathic sedimentary rocks
- Carbonate-rich sedimentary rocks (limey sandstone and mudstone, main host of skarn)
- Limestone

### Spences Bridge Group

- Basaltic and andesitic volcanic flows
- Basal sandstone
- Conglomerate and agglomerate



# PROJECT GEOLOGY



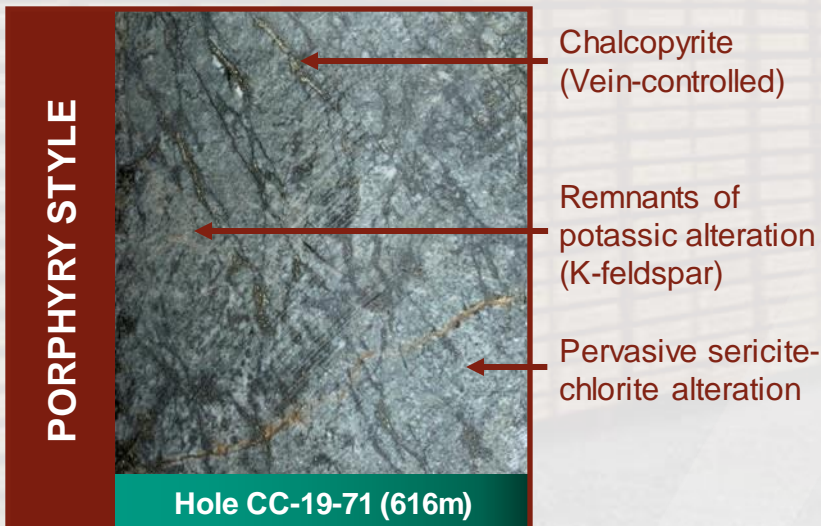
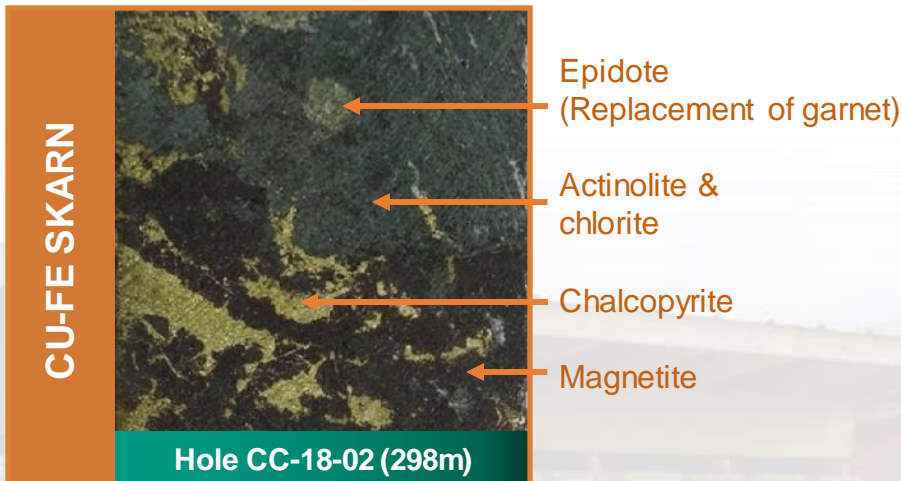
- Guichon Pluton intruded the Nicola Group rocks and the contact is near vertical and steeply south dipping within the property. The property is partially overlain by Spences Bridge Group rocks.
- Approximately two-thirds of the Craigmont ore body occurs within skarn, hosted by limey sandstone, limey siltstone, and quartz-feldspathic siltstone of the Nicola Group. This skarn is confined to a narrow, steeply south-dipping zone, inferred to parallel the contact between the Nicola Group and the Guichon Pluton.



# PROJECT GEOLOGY

## MINERALIZATION

Porphyry and skarn mineralization occurring on the property.



### Cu-Fe Skarn

Stratigraphic-hosted malachite, chalcopyrite, chalcocite, azurite and bornite along fractures or stratigraphically hosted within Nicola Group rocks.

Iron ore minerals consist of specular hematite and magnetite.

### Porphyry Mineralization

Disseminated and vein/fracture/fault-controlled chalcopyrite, bornite and chalcocite hosted in the quartz diorite.

Commonly associated with pervasive sericite-chlorite alteration and potassic alteration.

# EXPLORATION



## HISTORIC EXPLORATION INSIGHTS

Focused on targeting limy\* units for additional skarn (strata-bound). Geophysical methods struggled with thick overburden and Kingsvale Group. Largely unsuccessful in adding new resources. Suppressed copper prices caused the eventual closure of the Craigmont Mine.



## CURRENT EXPLORATION INSIGHTS

Compared to copper skarns worldwide, the historic production grade and tonnage of Craigmont suggests it is like that of Cu porphyry-related skarns than non-porphyry related skarns. Additional skarn mineralization was obscured to historic geophysical techniques by thick overburden. Copper mineralization is not controlled by lithology but is related with alteration. Land package currently held is larger than that held by Craigmont Mines.

**The combination of ownership consolidation (Nov. 2015) and receipt of the MYAB Permit (Nov. 2022) allows Nicola to conduct extensive exploration on never-before-drilled high priority targets.**



\* Limy units are rocks containing significant proportions of carbonate minerals such as limestones

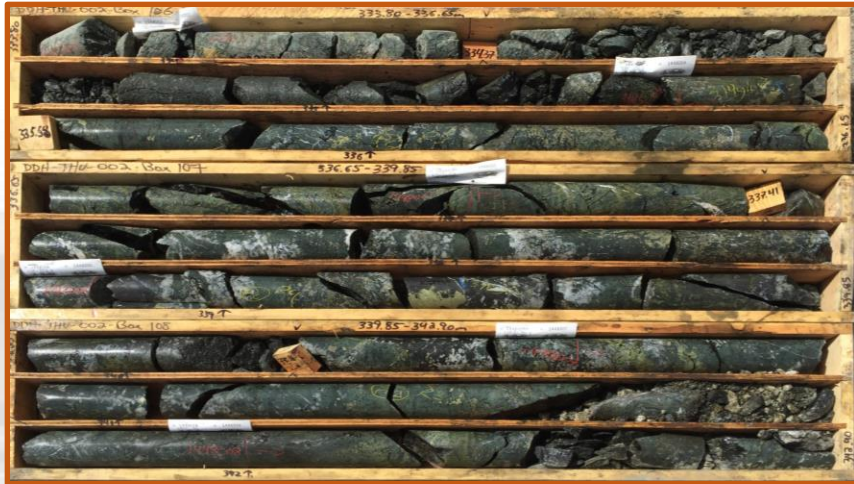


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# EXPLORATION

High-grade copper mineralization has been found near the historic Craigmont Mine and in the new-discovered Embayment Zone.



## RECENT DRILLING HIGHLIGHTS

**DDH-THU-002: 85.6m @ 1.11% Cu**

Sep 7, 2016, news release (SEDAR Oct. 4, 2016)

**S-100: 116.7m @ 0.54% Cu (re-sampling)**

Jan 23, 2017, news release (SEDAR Apr. 7, 2017)

**NC-2018-03: 100.6m @ 1.30% Cu**

Apr 2, 2018, news release (SEDAR Apr. 2, 2018)

**NC-2018-01: 71.4m @ 0.60% Cu**

Feb 28, 2018, news release (SEDAR Feb. 28, 2018)

**CC-18-02: 73.6m @ 1.05% Cu**

Sept 25, 2018, news release (SEDAR Sept. 25, 2018)

**CC-19-72: 34.0m @ 0.40% CuEq  
and 44.0m @ 0.56% CuEq**

July 24, 2019, news release (SEDAR Jul. 24, 2019)

# EXPLORATION

## 2023 DRILLING SUMMARY

- Six holes were drilled north and east of the historic Craigmont pit<sup>1</sup>.
- NC23-001 interacted with exoskarn in the Nicola Group's limey sedimentary rocks east of the historic pit.
- NC23-005 and NC23-006 revealed extensive potassic and propylitic alterations, along with chalcopyrite veinlets in the Guichon Quartz Diorite.
- **Never-before observed molybdenite coinciding with chalcopyrite was observed in Guichon diorite along with potassic alteration, indicating the presence of a porphyry system**, which is currently being studied by the Mineral Deposit Research Unit at the University of British Columbia<sup>2</sup>.



<sup>1</sup>See the Company's news release dated [December 21<sup>st</sup> 2023](#).

<sup>2</sup>See the BC Porphyry Research Project website: <https://www.mdru.ubc.ca/projects/bc-porphyry-project/>



# 2024 EXPLORATION

**Look into the Guichon Quartz Diorite: breccia pipes, endoskarns and porphyry targets.**

**3D IP Survey followed by drilling!**

## MARB

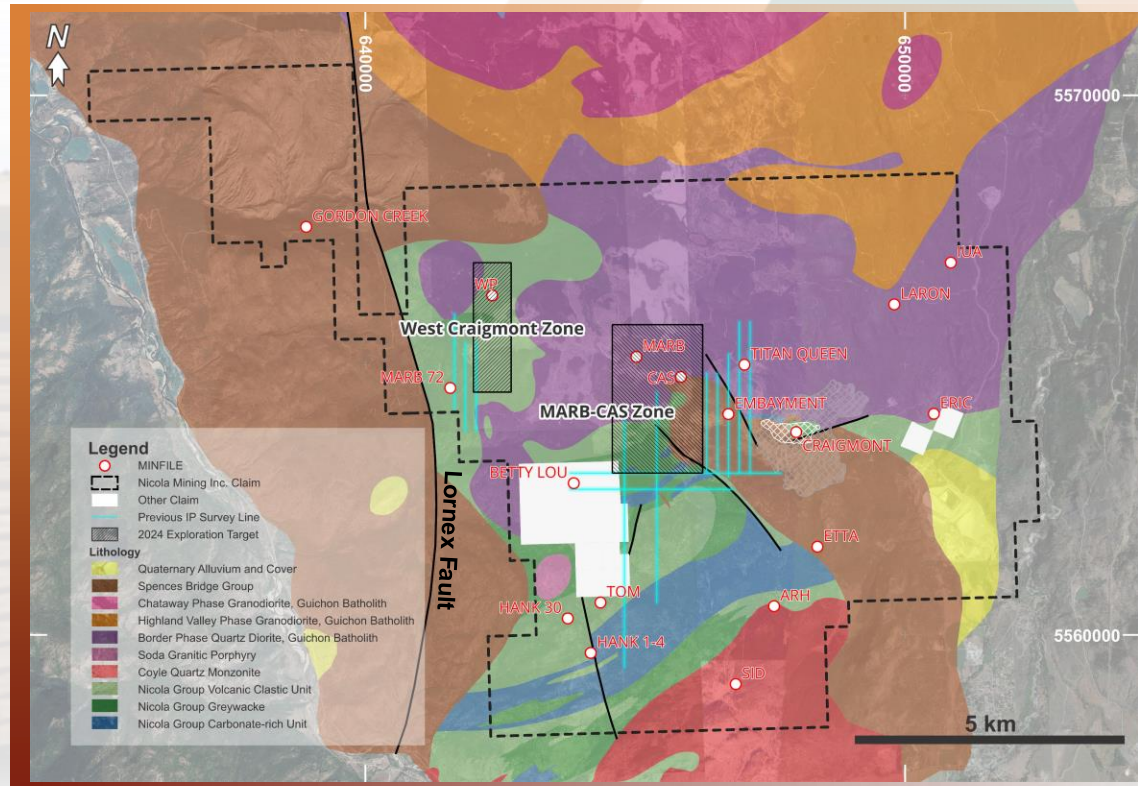
- A breccia zone of quartz diorite
- Chalcopyrite, pyrite and pyrrhotite occurs as fine disseminations and veins hosted in the epidote-chlorite-actinolite altered quartz diorite.
- Hydrothermal breccia pipe target.

## CAS

- Magnetite breccia and magnetite-chalcopyrite mineralization associated with garnet-epidote skarn hosted in calc-silicate altered quartz diorite.
- Skarn target.

## WP

- Copper oxide minerals observed along some fractures in quartz diorite.
- Quartz veins with K-feldspar halo.
- Porphyry target.



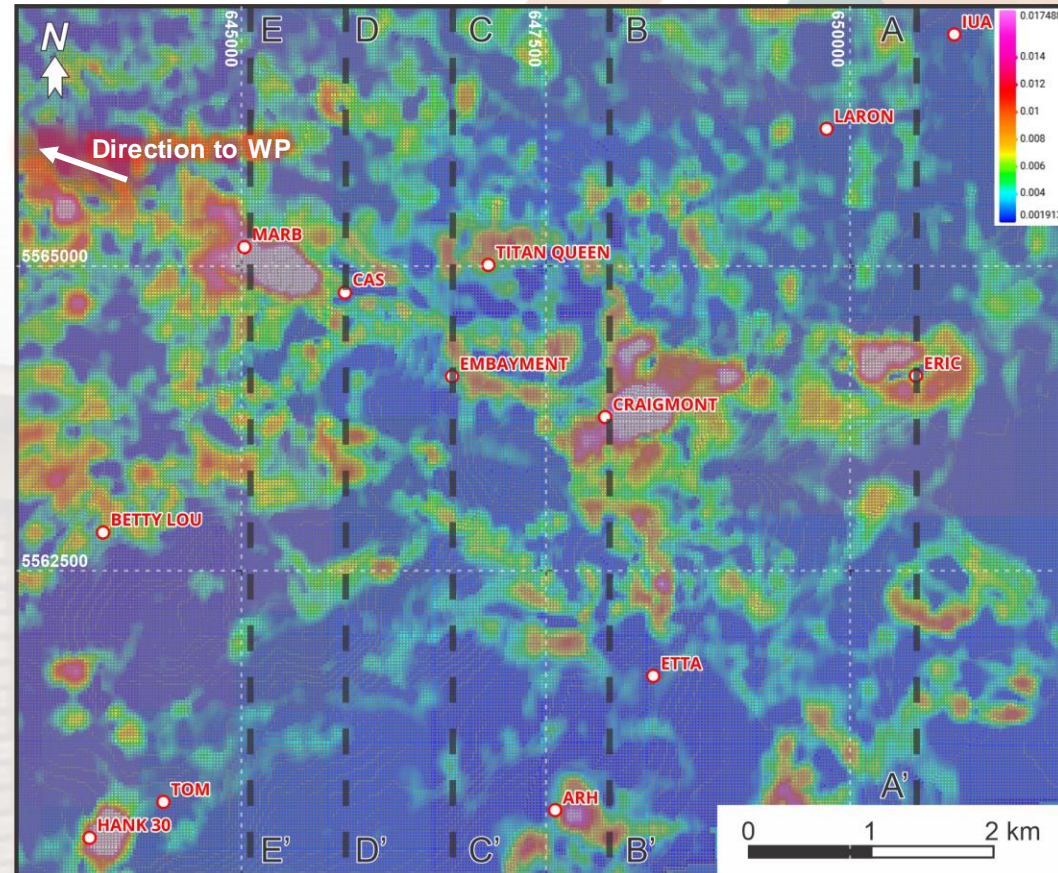


# MARB-CAS ZONE

## AEROMAGNETIC ANOMALIES

There appears to be an EW striking magnetic anomaly trend that includes known mineralization found in the Embayment, Craigmont, and Eric zones. However, the MARB-CAS Zone remains largely unexplored and lacks drill data.

The Craigmont anomaly is the host of the historic mine, while the Eric Zone hosts high grade mineralization, but on smaller scale. The Company has successfully drilled the Embayment Zone, with multiple intercepts grading greater than 1% copper.



MAG-MVI MODEL SURFACE VIEW

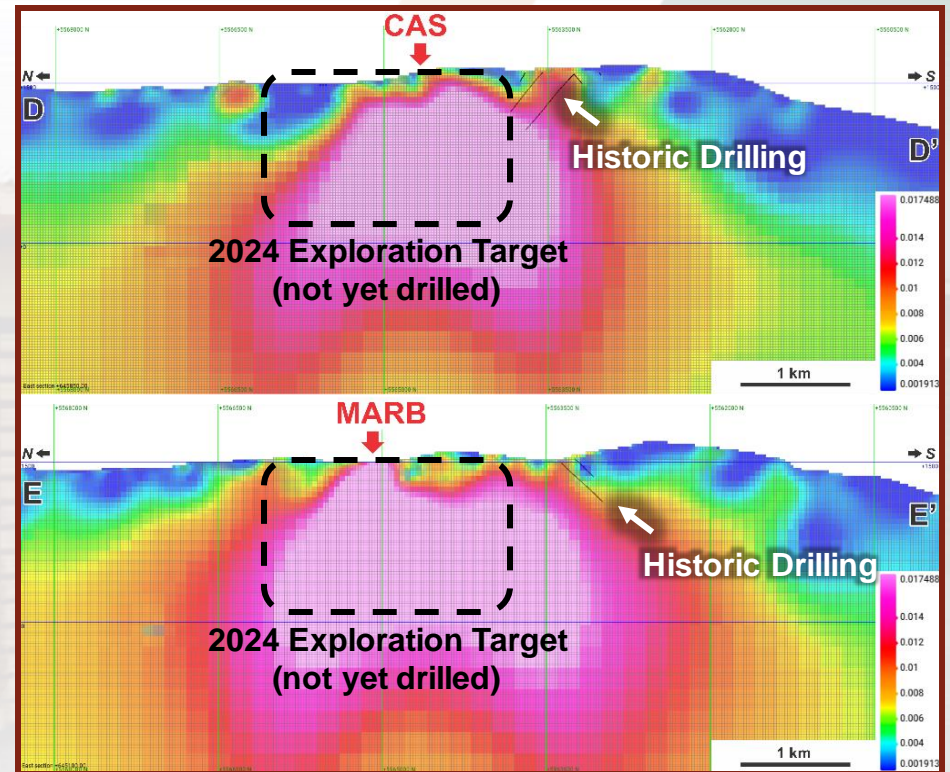
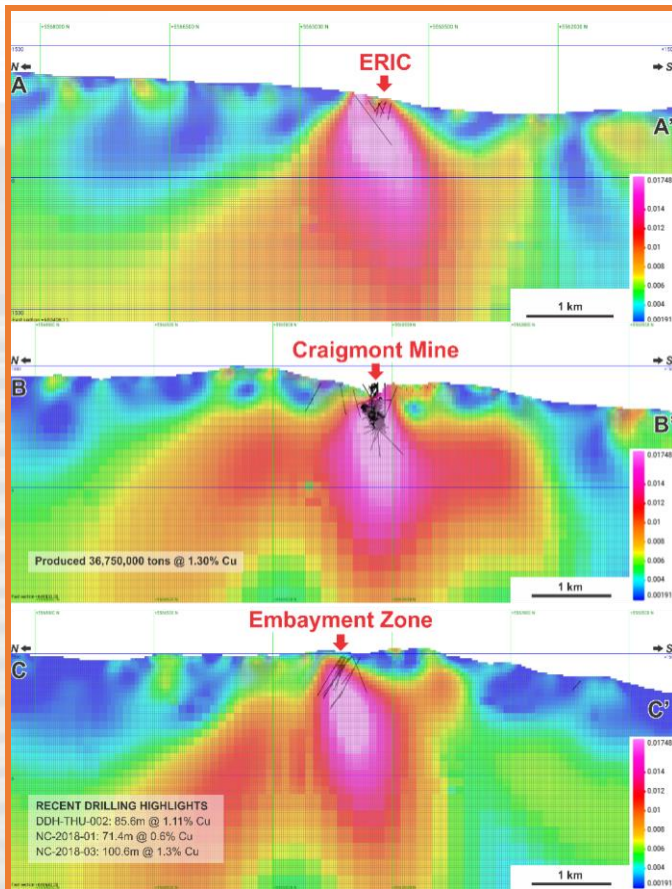
New-discovered mineralized outcrop at CAS.



# MARB-CAS ZONE

## AEROMAGNETIC ANOMALIES

Aeromagnetic MVI cross-sections illustrating proven mineralization at Eric (A-A'), Craigmont (B-B') and Embayment (C-C') corresponding with high magnetic anomalies and observed mineralization on surface at CAS (D-D') and MARB (E-E') also corresponding with high magnetic anomalies.



MAG-MVI 3D MODEL



# WEST CRAIGMONT ZONE

## WEST CRAIGMONT ZONE – A PORPHYRY TARGET

Porphyry-style mineralization and alteration has recently been found in Guichon Quartz Diorite outcrop at WP.



Copper oxide minerals observed along some fractures in quartz diorite.



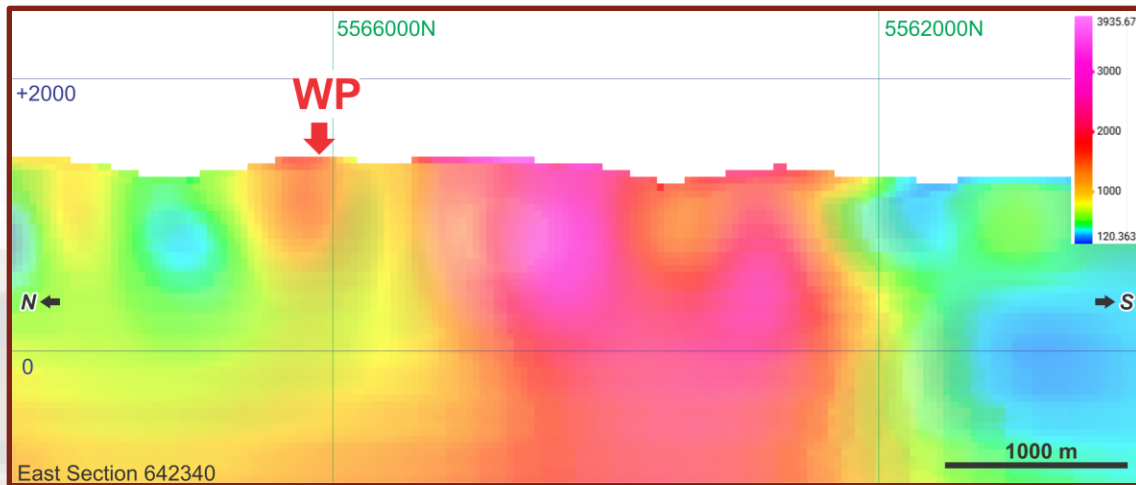
Quartz veins with potassic alteration halo.



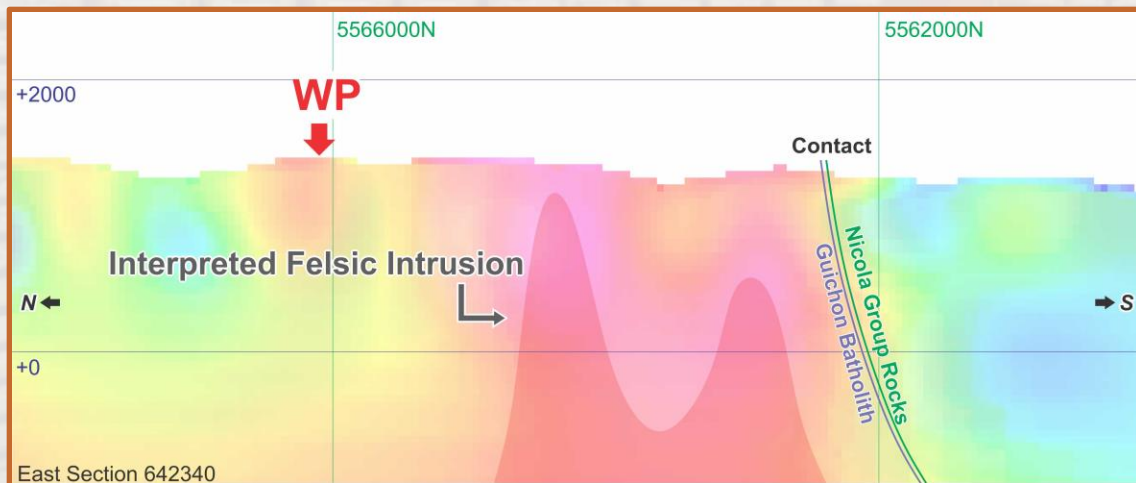


# WEST CRAIGMONT ZONE

## ZTEM SURVEY - RESISTIVITY ANOMALIES



2022 ZTEM survey detected an oval-shaped resistivity high feature that coincides with magnetic high anomaly in the West Craigmont Zone.



The geophysical anomaly in the West Craigmont Zone is interpreted to be a felsic intrusion associated with porphyry mineralization.

# MYAB

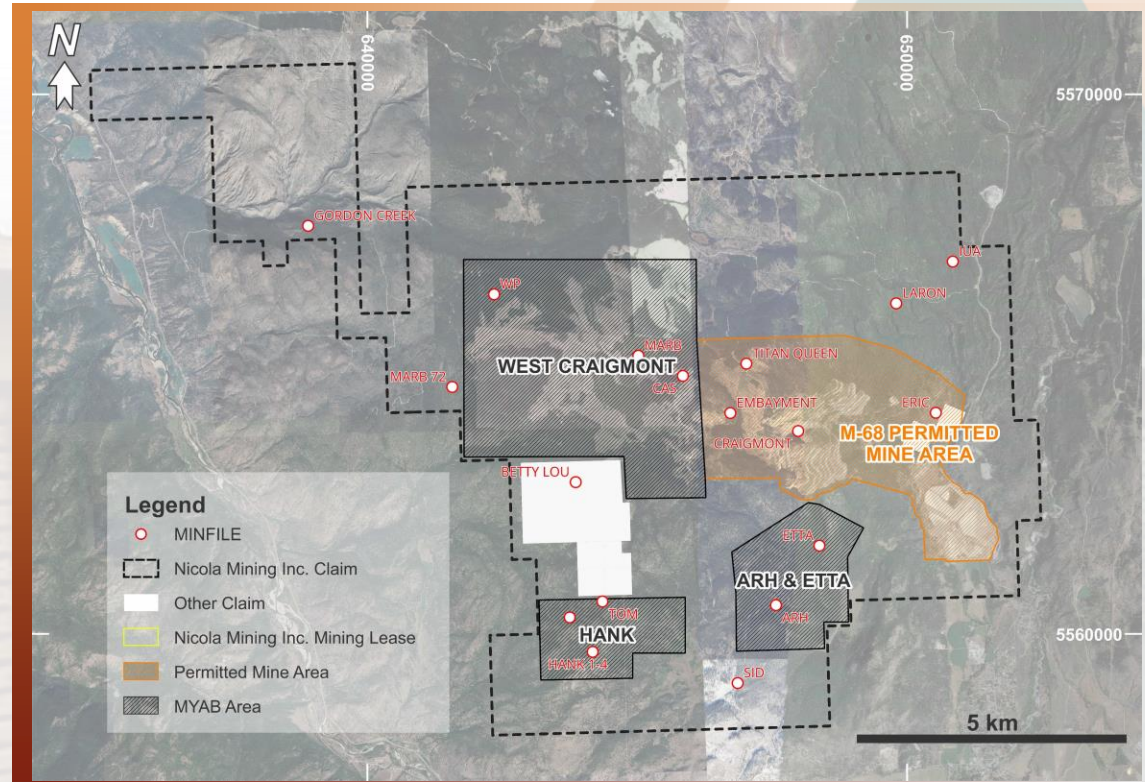
**For the first time ever, New Craigmont Copper can benefit from property-wide exploration project over the next five years**

## MYAB

**Multi-year Area-based Permitting  
An Exploration Game Changer**

The MYAB Permit allows the Company to complete the following key exploration activities:

- Geophysical survey with exposed electrodes
- 190 diamond drill holes
- 12 km of trenching/bulk sampling [6 ha disturbance]





# DUMP RESOURCE ESTIMATION

A Technical Report was prepared in accordance with National Instrument 43-101- Standards of Disclosure for Mineral Projects (“NI 43-101”) supporting the Inferred Copper Resource for the Southern Dump and 3060 Portal Dump.

Southern Dump		Portal Area		Inferred Mineral Resource	
Tonnes	Cu	Tonnes	Cu	Tonnes	Cu
(1000's)	(%)	(1000's)	(%)	(1000's)	(%)
18,465	0.13	204	0.23	18 669	0.13

In 2024, the Company will conduct additional testing with the intention of increasing both resource and grade.

**Southern Dump**

**Portal Area**

1 km



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<sup>1</sup> TOMRA Sorting Mining is owned by Norwegian company TOMRA Systems ASA, which is listed on the Oslo Stock Exchange. Founded in 1972, TOMRA Systems ASA has a turnover around €750m and employs over 3,500 people. For more information on TOMRA Sorting Mining, visit [www.tomra.com/mining](http://www.tomra.com/mining).





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To Learn More:  
[info@nicolamining.com](mailto:info@nicolamining.com)  
778-385-1213

TSX-V: NIM  
OTC: HUSIF  
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[NICOLAMINING.COM](http://NICOLAMINING.COM)

