



# High-Grade Silver in Northern Ontario

**Corporate Presentation**

**June 2024**



# FORWARD LOOKING STATEMENTS



## DISCLAIMER

Neither the TSX Venture Exchange nor its Regulation Service Provider (as that term is defined in the policies of the TSX Venture Exchange) accepts responsibility for the adequacy or accuracy of this material.

This presentation may contain forward-looking statements including but not limited to comments regarding mineral resources and the timing and content of upcoming work programs, geological interpretations, receipt of property titles, potential mineral recovery processes, etc. Forward-looking statements address future events and conditions and therefore, involve inherent risks and uncertainties. Actual results may differ materially from those currently anticipated in such statements. The Company does not undertake to update any forward looking information in this presentation or other communications unless required by law.

## QUALIFIED PERSON

The technical information in this corporate presentation was reviewed and approved by Nord Precious Metals Mining Inc. President and Chief Operating Officer Matt Halliday, P. Geo., who is a Qualified Person in accordance with National Instrument 43-101.

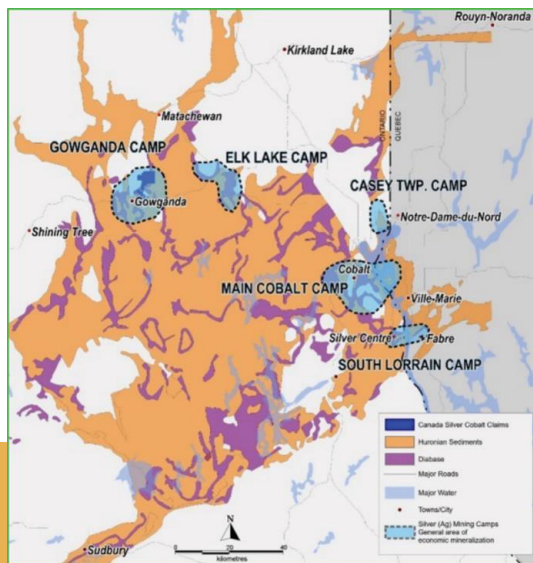
# THE COBALT CAMP



## BIRTHPLACE OF CANADIAN HARD ROCK MINING

Located along the Abitibi Greenstone Belt, the Castle Mine produced 9,500,000 oz silver with 300,000 lbs cobalt in the 1900s

TSX-V NTH | OTCQB CCWOF | FF 4T9B



## SILVER AND COBALT

The Castle Mine was among the highest grade silver producers in the Camp



**HISTORIC PRODUCTION:**  
**500,000,000 oz SILVER**  
**30,000,000 lbs COBALT**

# WHAT WE ARE WORKING ON



## CASTLE MINE

Past producing high-grade Silver mine with Cobalt byproduct



## CASTLE EAST

High-grade Silver-Cobalt discovery with gold mineralization



## TTL

Bulk processing facility and Assay Lab open for business



## RE-20X

Hydrometallurgical process with validated recovery results

**LEADING THE WAY IN REVITALIZING THE SILVER-COBALT CAMP IN NORTHERN ONTARIO**

# NEXT STEPS TOWARDS PRODUCTION



## FURTHER DRILLING

AT CASTLE EAST TO EXPAND  
THE NUMBER OF VEINS

## BULK SAMPLE

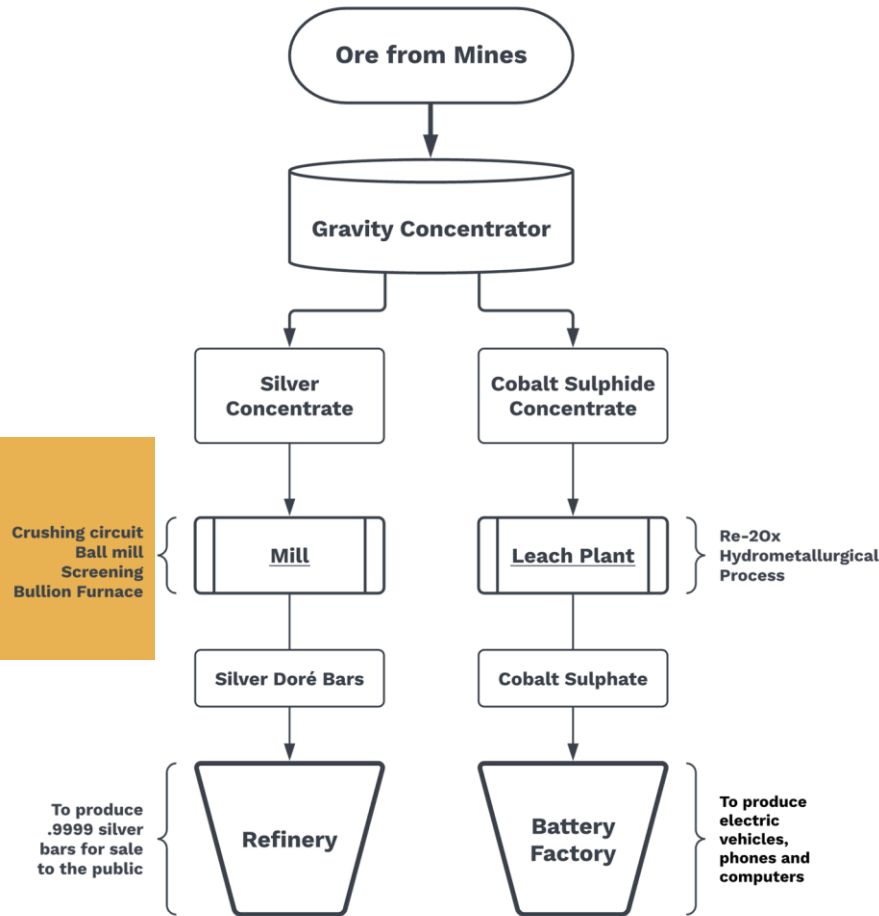
FOR PROCESSING AT THE TTL  
HIGH-GRADE MILL

## PILOT PLANT

SIZE PLANT-SCALE EQUIPMENT  
AND TEST TAILINGS



90% Silver Doré bars  
processed at TTL



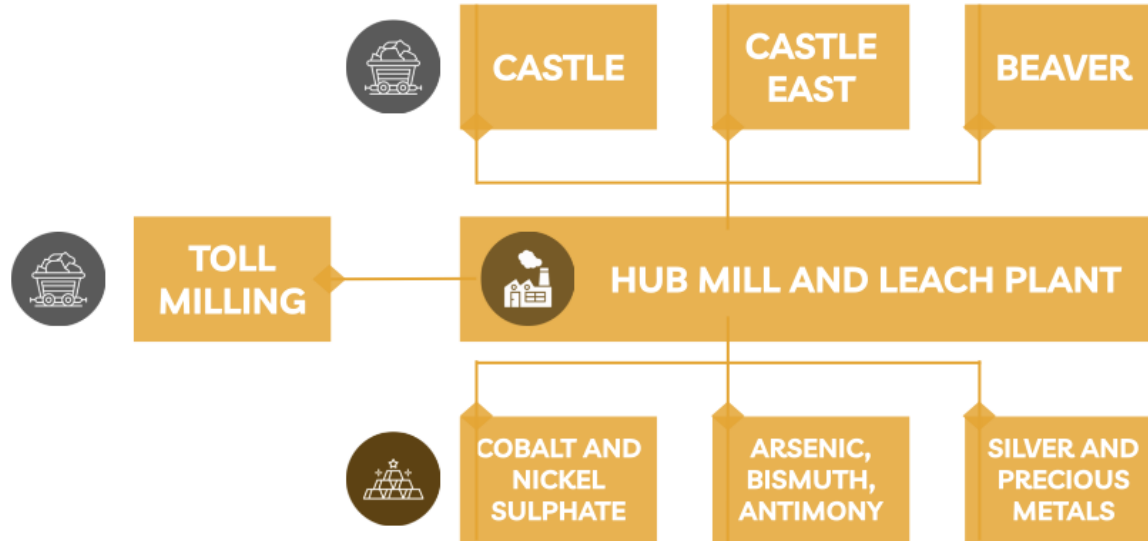
## THE PROCESS

The input material would be fed for separation into a gravity concentrator

The silver-gold concentrate would go to the mill to produce doré bars

The cobalt concentrate would go to the leach plant to produce cobalt sulphate and other critical minerals as by-products such as nickel, arsenic, bismuth and antimony





# HUB AND SPOKE

This system would produce silver and cobalt primarily, but also critical metals such as nickel, arsenic, antimony and bismuth.

Material from producing mines, remediated tailings, and waste piles could be transported to a central processing hub.



FULLY FUNCTIONAL ASSAY LAB  
OPEN FOR BUSINESS



HIGH-GRADE MILL READY FOR BULK  
SAMPLING AND PROCESSING,  
INCLUDING A BULLION FURNACE  
CAPABLE OF POURING 2 MILLION  
OZ OF SILVER DORÉ BARS PER YEAR

# TEMISKAMING TESTING LABS



# RE-2OX PROCESS

## CLOSED LOOP

The hydrometallurgical process produces low-carbon metals

## RECOVERY

Rates of 99% Cobalt recovered from gravity concentrate

## VALIDATION

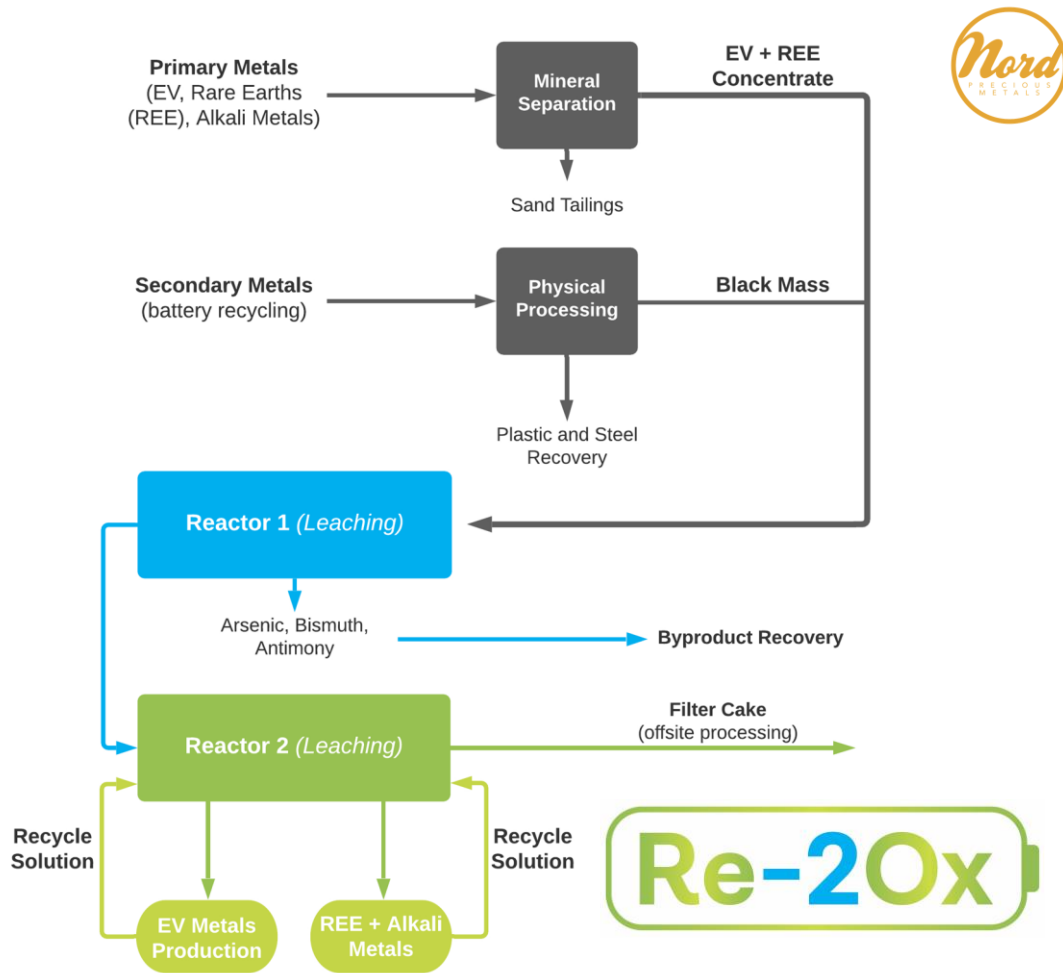
Produced 22.6% Cobalt sulfate on specification for Sumitomo

## SUSTAINABLE

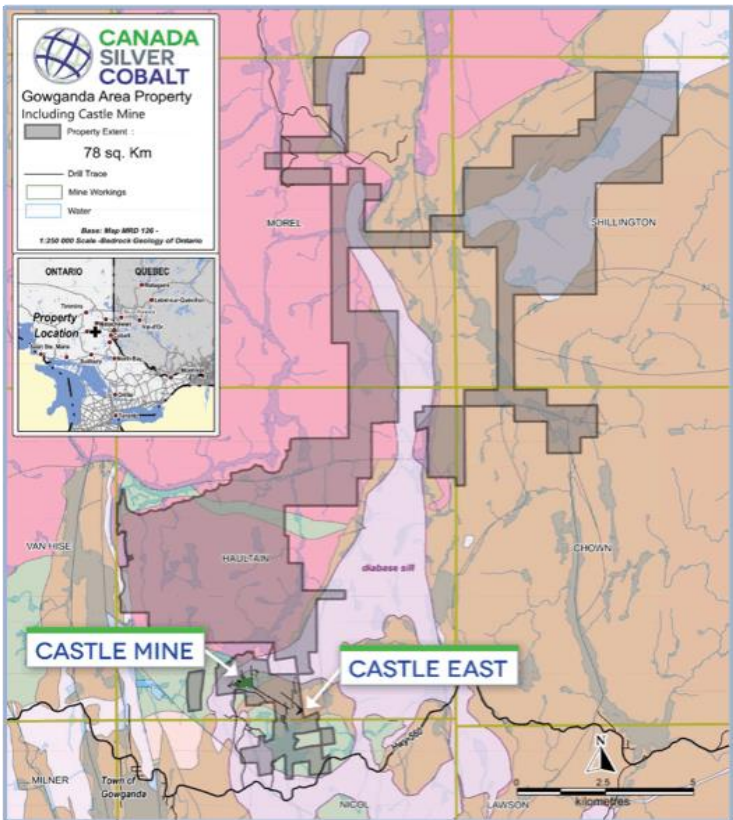
No smelting required, and no discharge left behind

## PILOT PLANT

Being built at SGS Lakefield, Ontario



# THE CASTLE PROJECT



## EXCELLENT INFRASTRUCTURE

LOCATED IN AN ESTABLISHED MINING DISTRICT

## PREVIOUSLY PRODUCING MINE

INCLUDES ADIT AND ALL THREE FORMER EXISTING MINE SHAFTS

## FIRST NATIONS

STRONG RELATIONSHIP WITH ALL AGREEMENTS IN PLACE

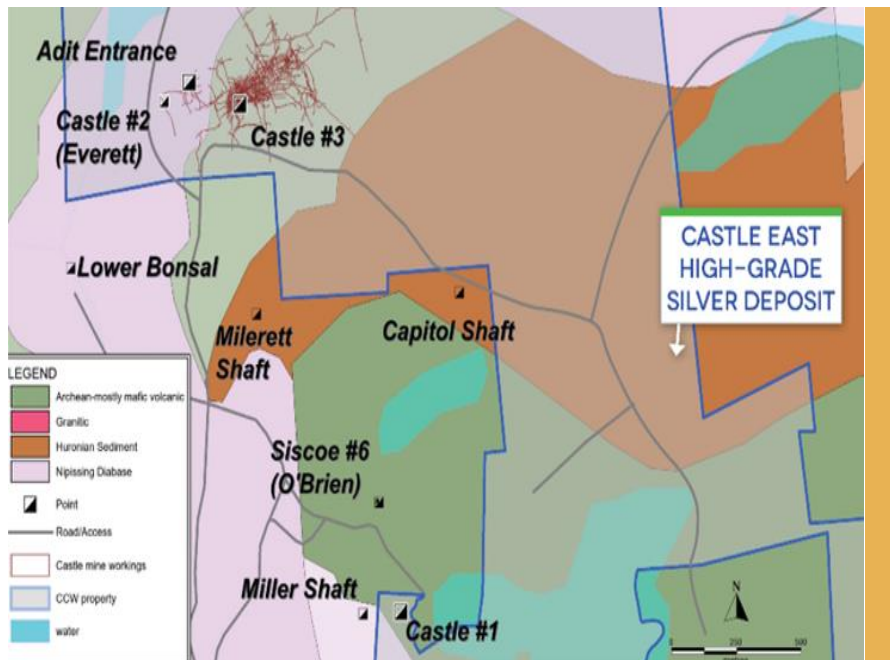
## EXPLORATION POTENTIAL

IN THE PROLIFIC MILLER LAKE BASIN, WHERE ONLY THE PERIPHERY HAS BEEN EXPLORED

# CASTLE EAST DISCOVERY



## HIGHEST SILVER GRADES IN THE WORLD



Castle East drill Intercepts:

Up to **89,859 g/t Ag (2,621 oz/ton)** over 0.30m

Multiple high-grade structures discovered including new zone near Capital Shaft

Results consistent with early 1900s discoveries in the Camp

Past mining in the area produced more than 50 million ounces silver

# CASTLE EAST DRILLING HIGHLIGHTS



**70,380 g/t Ag**

**(2,263 oz/t Ag) + 2.61% Co over 0.30m**

**Gold Equivalent<sup>1</sup>: 33.65 oz/t AuEq**

**50,583 g/t Ag**

**(1,626 oz/t Ag) + 0.3% Co over 0.60m**

**Gold Equivalent<sup>1</sup>: 24.19 oz/t AuEq**



**89,853 g/t Ag**

**(2,621 oz/t Ag) over 0.30m**

**Gold Equivalent<sup>1</sup>: 38.97 oz/t AuEq**



1. AuEq is a conceptual comparison of in-situ values, and the deposit's primary metal is silver not gold. No metallurgical recovery parameters have been applied. AuEq was calculated based on US\$27.625/oz Ag and US\$1,857.80/oz Au. Co values are not included in the calculation. Intervals are core length. See [May 2021 Technical Report](#), filed on SEDAR for additional data on drill results, including QAQC and collar locations

# FIRST EVER RESOURCE IN THE CAMP



## MINERAL RESOURCE ESTIMATE AT CASTLE EAST (43-101)

	Tonnes	Ag g/t	Co g/t	Cu g/t	Ni g/t	AgEq g/t	Ag oz	AgEq oz
Zone 1A	8,100	7,960	946	349	790	8,042	2,073,000	2,094,200
Zone 1B	19,300	8,843	2,308	325	336	8,998	5,487,200	5,583,200
Zone 2A	5,500	38	5,673	2,101	453	426	6,800	75,300
<b>Total</b>	<b>32,900</b>	<b>7,149</b>	<b>2,537</b>	<b>628</b>	<b>467</b>	<b>7,325</b>	<b>7,567,000</b>	<b>7,752,700</b>

**Average Silver Grade: 8,582 g/t (250 Ag oz/ton)**

**Total: 7.5 m oz Inferred Resource**

Mineral resources that are not mineral reserves do not have demonstrated economic viability. For full details, see the following report filed on Sedar and on the Company's website: NI 43-101 Technical Report Update for Castle East, Ontario, Canada, Effective date: 30 April, 2021 Issue date: 25 May, 2021 prepared by GoldMinds Geoservices Inc. by Independent QP Merouane Rachidi, P. Geo., Ph.D in accordance with National Instrument 43-101. Mineral Resource is reported with mineable shape cut-off grade equivalent to 125\$USD (258 g/t AgEq) including mining, shipping and smelting cost with recovery of 95%.

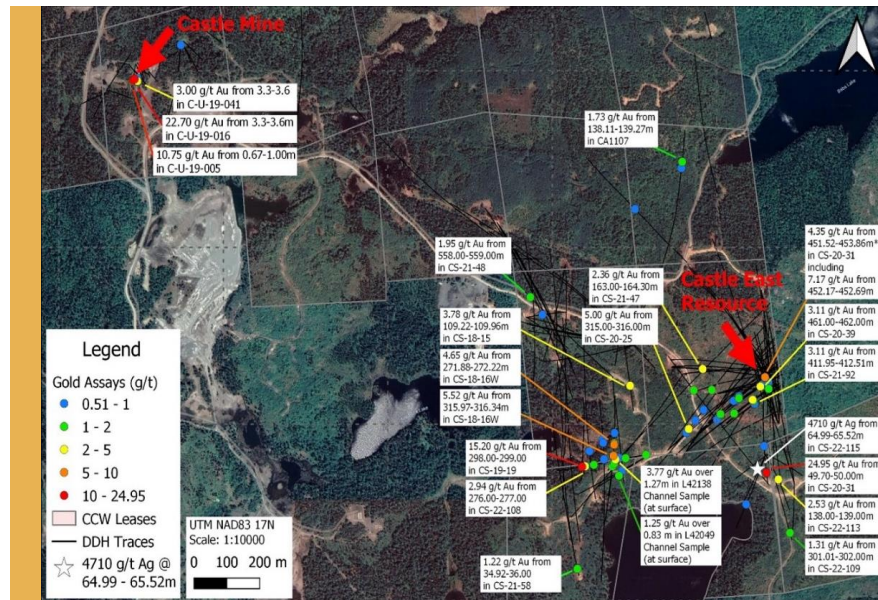
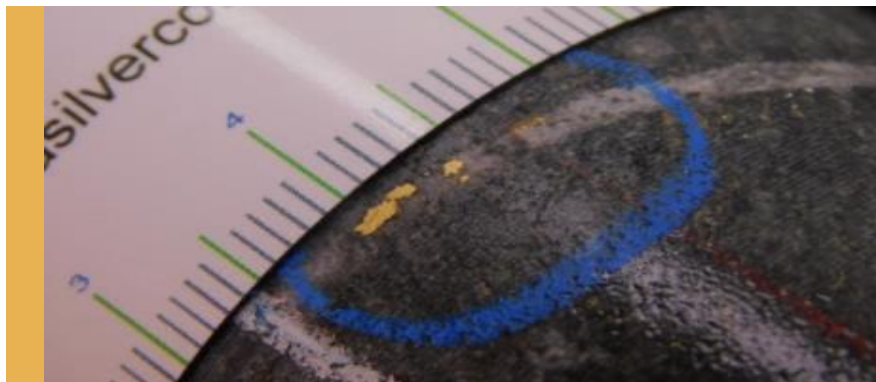


# CASTLE EAST: GOLD DISCOVERY



At-surface channel samples of 3.77 g/t gold over 1.27m, 1.16 g/t gold over 0.78m, and 1.25 g/t gold over 0.81m

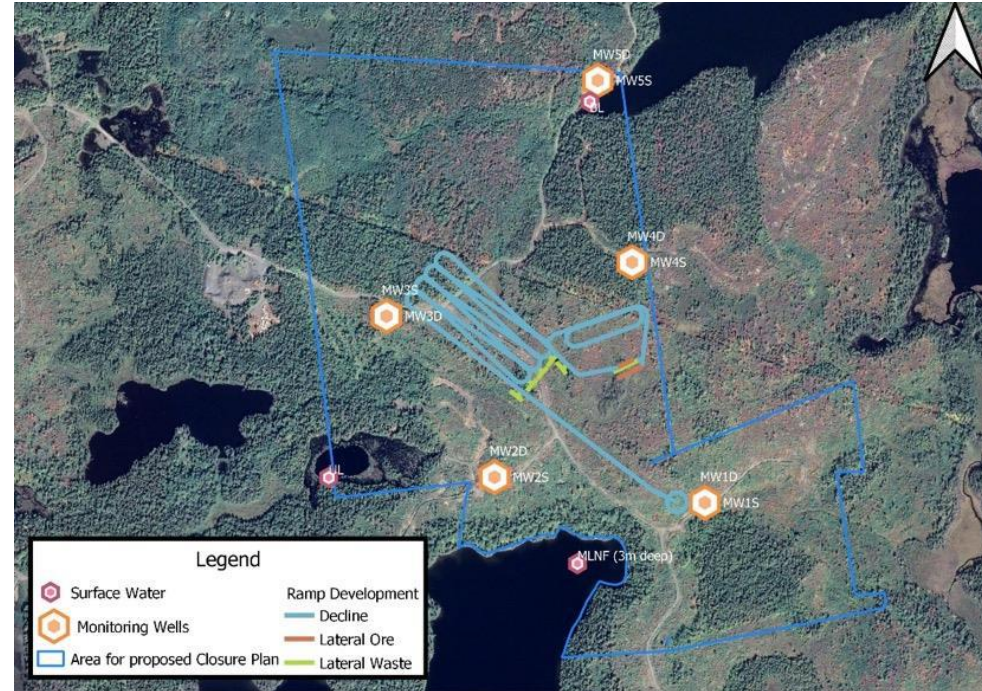
Near-surface drill intercepts up to 24.95 g/t gold over 0.30m from 49.70-50.00m with visible gold



## GOLD MINERALIZATION IMPROVES ECNOMICS

# RAMP TOWARD PRODUCTION

- Conceptual schematic diagram of proposed ramp
- Includes location of water monitoring wells required for permitting
- Existing near surface silver and at-surface gold mineralization should improve development economics of the ramp
- Future drilling and field work may further improve design





Matt Halliday (Left), Frank Basa (Right)

## TECHNICAL TEAM

### MATT HALLIDAY P.GEO

President and COO, 15+ years of exploration and development worldwide including narrow-vein deposits (SGS, Kirkland Lake Gold, First Cobalt)

### FRANK BASA P.ENG

CEO and Chief Metallurgist, 40+ years of exploration, milling, and metallurgy

### DIANNE TOOKENAY B.Admin M.P.A.

First Nations Consultant, is involved in and supports critical consultations with First Nations



# CAPITAL STRUCTURE

Shares outstanding 302,994,963

Warrants (\$0.05 - \$0.55) 116,355,377

Options (\$0.05 - \$0.70) 9,760,000

**MARKET CAPITALIZATION \$11,000,000**



- (1) Share numbers approximate, as of March 31, 2024
- (2) Market capitalization based on share price of \$0.035 June 4, 2024.

# CONTACT



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