



**60 NORTH GOLD**

**Mon Gold Property near Yellowknife, NWT, Canada**

**High-Grade Gold Mining:  
Restarting a Past Producing  
Gold Mine**



# Cautionary Statement



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Sixty North Gold Mining Ltd. is a British Columbia company ("the Company"). All statements in this presentation are made as November 14, 2022. This presentation contains "forward-looking statements" within the meaning of applicable securities laws, including statements relating to proposed or anticipated work programs, plans for development of the Mon Property, and/or anticipated financings. Actual results and developments may differ materially from those contemplated by these statements. Factors which may lead the Company to not proceed with anticipated work programs, construction or development projects and studies include factors such as analysis of the exploration results may lead to a determination that further exploration or development is not warranted, delays by weather and other constraints, insufficient funding, delays as a result of early or late onset of winter conditions, availability of personnel and equipment to conduct work programs, a decline in precious metals prices, permit reviews, information requests and other factors not within the Company's control, changes in market conditions, and insufficient financing to complete work programs. Factors that could cause the Company to not proceed with, or reduce or increase, anticipated financings include change in market conditions and changes in the Company's exploration and development plans.

If the Company is unable to complete future financings, the Company may have to delay or alter its operations plans. In addition, the proceeds of the future financings may not be sufficient for the Company to complete its earn in and acquire the Mon Gold Property. The Company will require additional financing to complete the acquisition, which may result in further dilution to investors. If the Company is unable to complete the earn in, it will lose its interest in the Mon Gold Property. The factors identified above are not intended to represent a complete list of the factors that could affect the Company. Although the Company has attempted to identify important factors that could cause actual actions, events or results to differ materially from those described in forward looking statements, there may be other factors that cause actions, events or results not to be as anticipated, estimated or intended.

There can be no assurance that forward-looking statements will prove to be accurate, as actual results and future events could differ materially from those anticipated in such statements. The Company does not undertake to update forward-looking statements, except where required by law. Readers should not place undue reliance on forward-looking statements.

No Mineral Reserves or Mineral Resources as defined within the meaning of NI 43-101 have been established on the Mon Gold Property. No Preliminary Assessment (PA), Preliminary Feasibility (PFS), or Feasibility Study (FS) has been completed on the property, and the Company does not anticipate that its work programs will result in the establishment of mineral resources, mineral reserves, or an economic study, on the Mon Gold Property. Readers are cautioned that, as not all risks may have been identified at the time of a production decision is made, mineral properties developed in the absence of a PFS and FS have a higher risk of failure. Investors should consider the investment in securities of the Company as a speculative investment.

Technical information in this presentation has been prepared and reviewed by Dr. Dave R Webb, Ph.D., P.Geol., P.Eng., who is a qualified person for the purposes of NI 43-101, and is the controlling shareholder of Giauque Holdings Ltd. (the royalty holder of the Mon Gold Property) and a principal of New Discovery Mines Ltd. (the vendor of the Mon Gold Property). The technical information in December 11, 2017 prepared on Form NI 43-101F1 by David Dupre, P. Geo, and Kevin Fitzpatrick, P. Eng., qualified persons for the purposes of NI 43-101 who are independent of the Company and the property vendor.

# Mon Gold Property



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- **Mon Gold Property is a high-grade past producing (1989–1997) gold mine, from which 15,000 oz. of gold was produced from 15,000 tons of ore.**
- Through Q3 - 2022, about \$5.4 million has been funded into the project, for purchase of mining equipment, camp, and supplies needed for mine development, drilling below old stopes, geophysics and surface exploration in VMS and shear zones.
- High grade samples up to 688 g/t gold over 0.5m have been recovered from the crown pillar.
- The mineralization identified in the Mon A-Zone appears to be a viable exploration target for a “Discovery Mine” type of deposit.
- **Land Use Permit and Water License for mining and milling production at 100 tpd are in place – the Mon is the only gold project in the NWT permitted for production.**
- Mining equipment and camp on site.
- Shear Zone hosted gold deposits (similar to Con and Giant Mines) have been identified on the property (7.22 gpt gold over 6.0 m). These have never been drill-tested.
- Precious metals-rich Volcanogenic Massive Sulphide (VMS) have been discovered on the property (203 gpt Ag, 1.0 gpt Au, over 0.45 m). These have advanced geophysical modeling completed. These have never been drill-tested.
- New Nickel-Cobalt PGM Zone (news release April 19, 2022), with grab samples returning >1% nickel and 0.19% cobalt. *This is the first reported nickel showing in the Yellowknife Gold Belt.*
- Optioned contiguous Hangstone property has shear zone, VMS, and bulk mineable potential.



# Yellowknife Gold Belt, Mines and Regional Exploration



- The Yellowknife Gold Belt extends in a north-south direction for over 100 km.
- The Con Mine (pp 6 million ounces at 16 gpt) and the Giant Mine (pp 8 million ounces at 16 gpt) are hosted in large shear zones
- The Discovery Mine (pp 1 million ounces at 32 gpt) and the Mon Mine (pp 15 k ounces at 32 gpt) are hosted in metasediments at metavolcanic boundaries.
- The region has come into focus again as multiple exploration companies are exploring again, like Rover Metals, GoldMining or Gold Terra Resource.





# Capital Structure



- SXTY is trading at the CSE Canadian Securities Exchange under the Symbol: SXTY
- also trading at OTC-Pink USA under the Symbol: SXNTF
- in Germany at Frankfurt and Tradegate Exchange under the Symbol: A2JKW2
- Market Cap : \$3.5 million CAD (2022-11-14)

2022-11-14	Shares, warrants and options issued
Shares	21,589,546
Warrants	10,020,202
Options	1,140,000
Fully Diluted	32,749,748
Note: Management and Directors hold 36.7% of outstanding shares	





# Directors and Management



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## Sixty North Gold Mining Ltd.

- John Campbell, MBA, CFA, CPA;  
Chairman of the Board & CFO
- Dr. Dave R. Webb, B.A.Sc., M.Sc., Ph.D.,  
P.Geol., P.Eng., President & CEO,  
Director
- Ronald L. Handford, B.A.Sc., MBA;  
VP Corp. Dev. & Corp. Secty.
- Grant Block, CPA, CA, CMA, CPA  
(Nevada) Director
- Andriyko Herchak, B.Comm., CPA, CA  
Director
- Brian Malahoff, P.Geo., Director

## New Discovery Mines Ltd. (Project Manager)

- Dr. Dave R. Webb, B.A.Sc., M.Sc., Ph.D.,  
P.Geol., P.Eng., Director
- Gerry V. Hess, President
- Rod McKay, Mine Manager



# Key Operations Personnel



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## Dr. Dave R. Webb, Ph.D., P.Geol., P.Eng.

has over 40 years of experience, completed his M.Sc. and Ph.D. in Yellowknife. He discovered four gold deposits in Yellowknife, developed the largest gold resource reported in Yellowknife in the past 50 years subsequently taken to feasibility, and the largest granitoid-hosted gold deposit in the NWT. He acquired the Mon Property in the late 1980's from Cominco Ltd. and developed it into production in the 1990's. He recently obtained operating permits for mining, processing, and storage of tailings at the Mon Property.

## Rod McKay

Mine Manager - Mon Gold mine project, has worked as a project superintendent on numerous underground mining projects, including responsibility for milling operations and exploration activities. He has more than 40 years of diversified work experience in all aspects of underground mine construction, operation and maintenance, including in the NWT.

## Gerry V. Hess

Operations Advisor, is a former Mine Manager of the Mon Mine, and underground superintendent at four other mines in the Yellowknife area. He has been an independent mine contractor installing several kilometres of underground workings at various remote sites and has been a former contractor at one of the NWT's diamond mines.



# Planned Dates for A-Zone Key Operational and Corporate Milestones 2023 - 2024



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## Q1 - Q2 2023

- Expand the underground development from 213 m AMSL to elevation 177 m AMSL to open up an expected 30,000 tonnes of vein below the previous stopes
- Initiate preliminary work to develop the next level below this to elevation 165m AMSL (another 45 m below the current development), targeting an additional 25,000 tonnes of vein.

## Q3 2023

- Acquire mill equipment and mobilize to Yellowknife

## Q1 2024

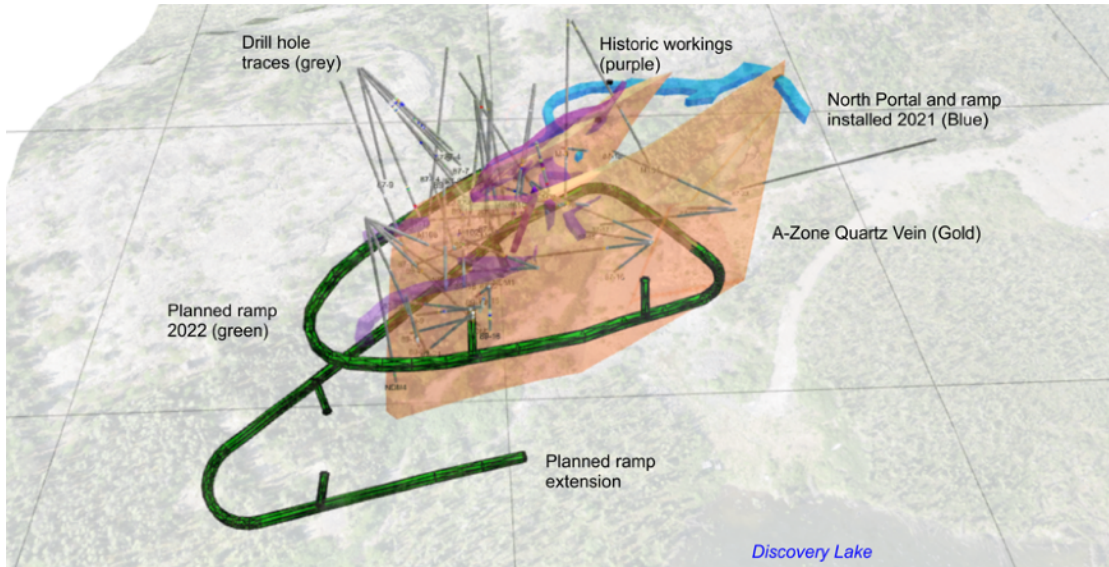
- Complete construction of winter road and haulage of mill and stores to site

## Q3 2024

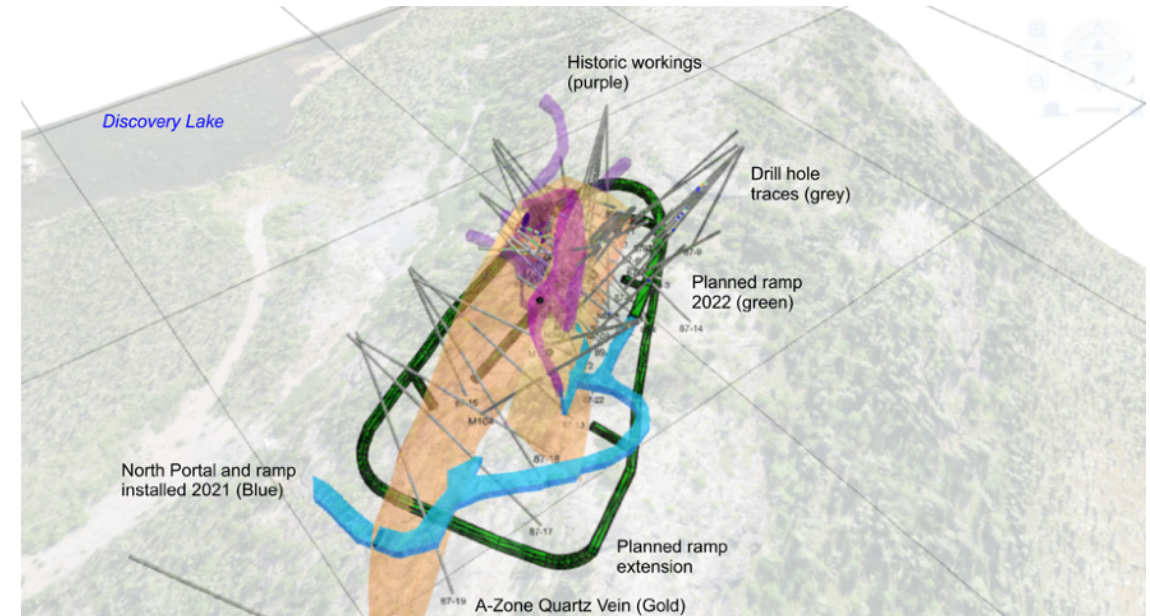
- Mill and mine fully operational
- First cash receipts expected from gravity gold sales



# Planned Restart of Operations



**View northwest**



**View southeast**

Three dimensional representation of the A-Zone (gold) with drill hole traces (dark grey), planned development 2022 and beyond (green), with existing workings (purple and blue)



# Investing in Junior Mining Companies



## Exploration

Takeovers from advanced explorers and producers will increase significantly in the next few years.

Valuation based upon NI 43-101 Resource/Reserve

Company	Ounces Reserve/ Resource	Value/Oz (Invested/oz)
New Found Gold	0	na
Gold Terra	1.2 million	<b>\$38 (\$32)</b>
Night Hawk	3.0 million	<b>\$25 (\$27)</b>
Gold Mining Inc	32.4 million	<b>\$9 (\$2)</b>

## Production

Takeovers of producers are currently high:

Company	Ounces Reserve/ Resource	Value/Oz
Pretium	4.2 million	\$833
Kirkland Lake	48 million	\$281
Victoria Gold	4.8 million	\$229



# Why not Explore?



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## Plan A.

- Exploration target must be within the target range for an acquisition (>1 million ounces).
- Represents a minimum of 15 million tonnes at 2 gpt.
- 50 m x 50 m x 10 m block represents 65,000 tonnes, or approximately 230 drill holes (all hitting), or about \$25 million investment.
- Value <\$40 million.

## Plan B.

- Mineable target must have >30,000 oz of high-grade and potentially profitable material.
- Accessible within 20 m of surface.
- Represents 30,000 tonnes at 30 gpt, requires 240 m UG development, 3 stopes, or about \$8 million investment.
- Contains \$2,300/tonne, >\$60 million.

# History of the Yellowknife Producers



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- 1936, Con, Negus, Rycon Mines Discovered
- 1937 Mon Gold Mine Discovered
- 1938 Con Mine starts at 100 tpd
- 1939 Negus Mines Starts at 100 tpd
- 1944 Giant Mine Discovered
- 1947 Discovery Mine Discovered
- 1948 Giant Mine starts at 235 tpd
- 1948 Discovery Mine starts at 100 tpd

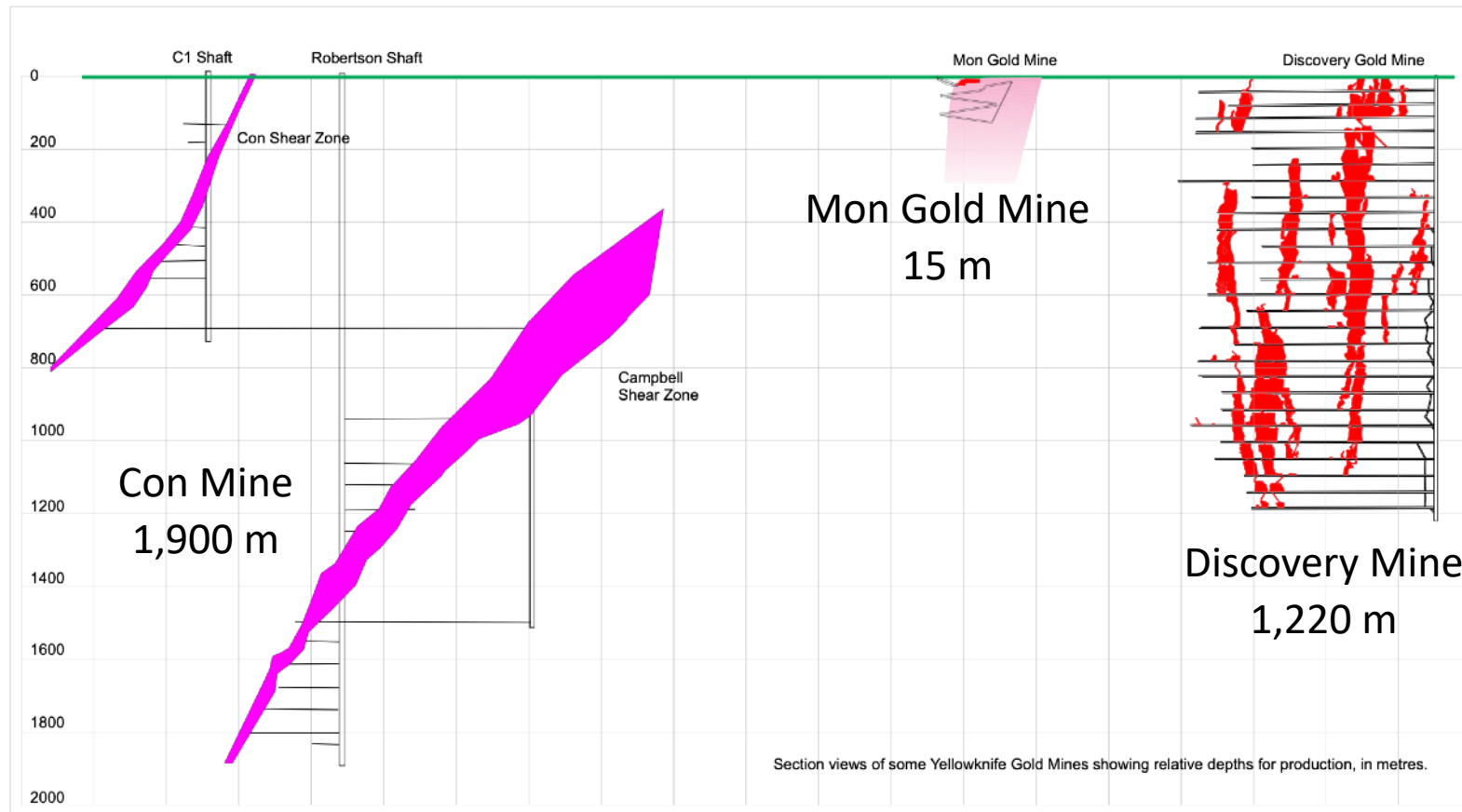




# Yellowknife Producers Mine Depths



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*Typical Yellowknife gold belt mine depths:  
substantial potential for Mon Gold*

# The Yellowknife NWT Region



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- Yellowknife was built on mining since the 1930's: Con, Giant and Discovery mines produced 15m oz. gold.
- Yellowknife is the capital of NWT, population est. 20,000+.
- It is a cosmopolitan city with high quality hotels, restaurants, entertainment and tourist support.
- Highway access 1,470 km from Edmonton, Alberta
- Yellowknife has experienced miners, geologists, mining and exploration suppliers, technical support companies, aviation companies – helicopters, float/ski planes.



Yellowknife city; source: [spectacularnwt.com](http://spectacularnwt.com)



Historical photo – Giant Mine headframe;  
source: [ykonline.ca](http://ykonline.ca), credit Kyle Thomas



# Access to the Mon Gold Property



- Easy 45 km to Mon Gold Property from Yellowknife: 15 minutes by helicopter, float or ski plane; options for crew daily commute or permanent camp. Gravity-recovered gold to be flown out.
- In winter, heavy equipment access by **winter road** heading to diamond mines 300 km north of Yellowknife, **to the Mon Gold project** (we share winter road costs on 16.5 km to Bluefish Hydro, and pay 100 % on further 29km to Mon).
- Gold concentrate from Mon Mine will go out by winter road.



Winter road to the Mon Property; hauling heavy equipment to site March 2021



Float plane at Discovery Lake on the Mon Property



Helicopter at southern end of The Mon Property



# Mon Gold Project: A-Zone North Portal, Camp and Aerial View



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# Operational Equipment and Camp

- Mining equipment, camp buildings and bulk supplies were purchased by Sixty North Gold and were trucked onto site from Yellowknife via the winter roads in March 2021 and March 2022.
- This equipment will be used for the bulk sample planned for 2023, and ongoing mining operations at 100 tonnes/day thereafter.



Two 2yd scooptrams



Electric/hydraulic jumbo



15 ton low-profile truck



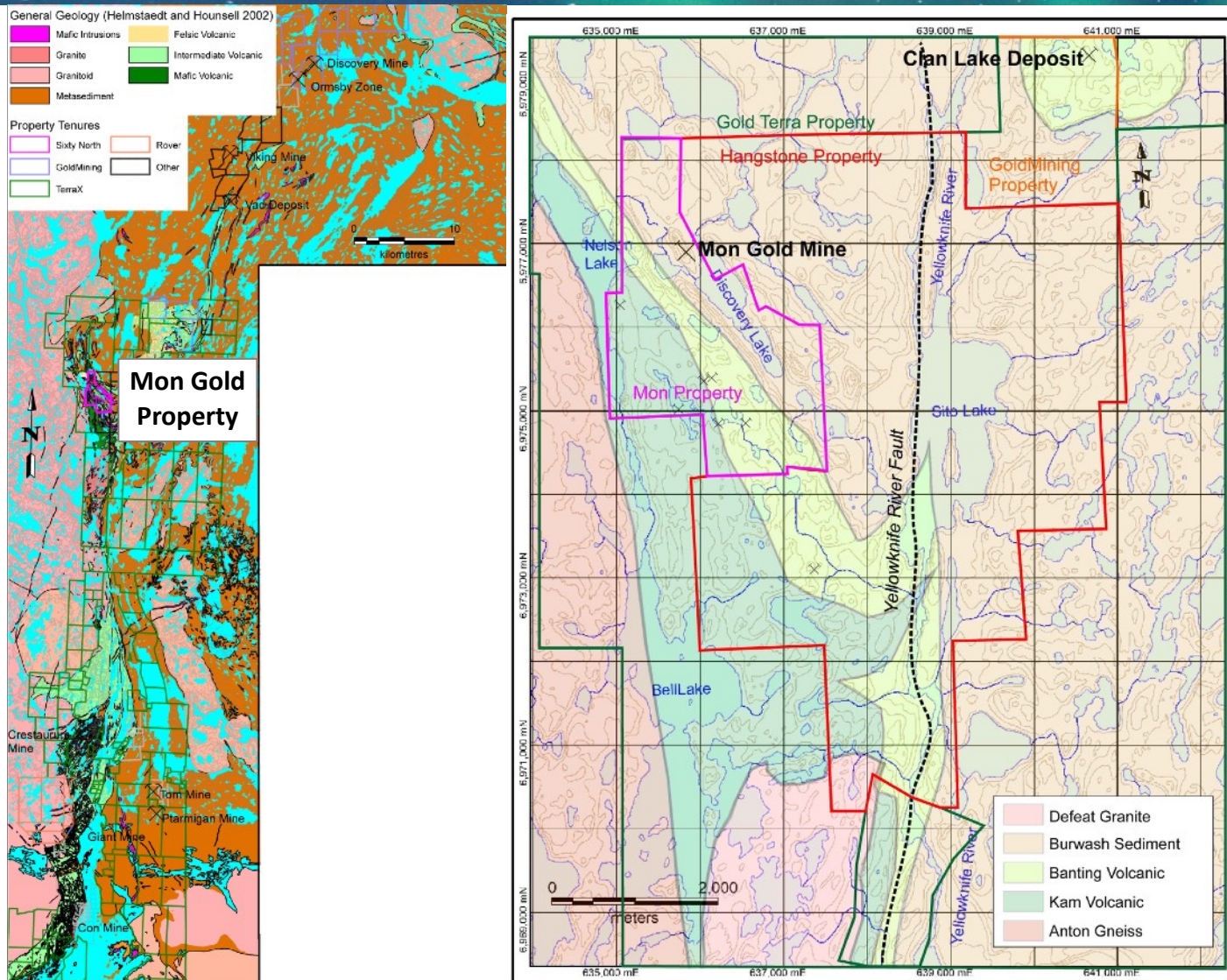
Camp from top of A-Zone



Camp, fuel tank, Discovery Lake



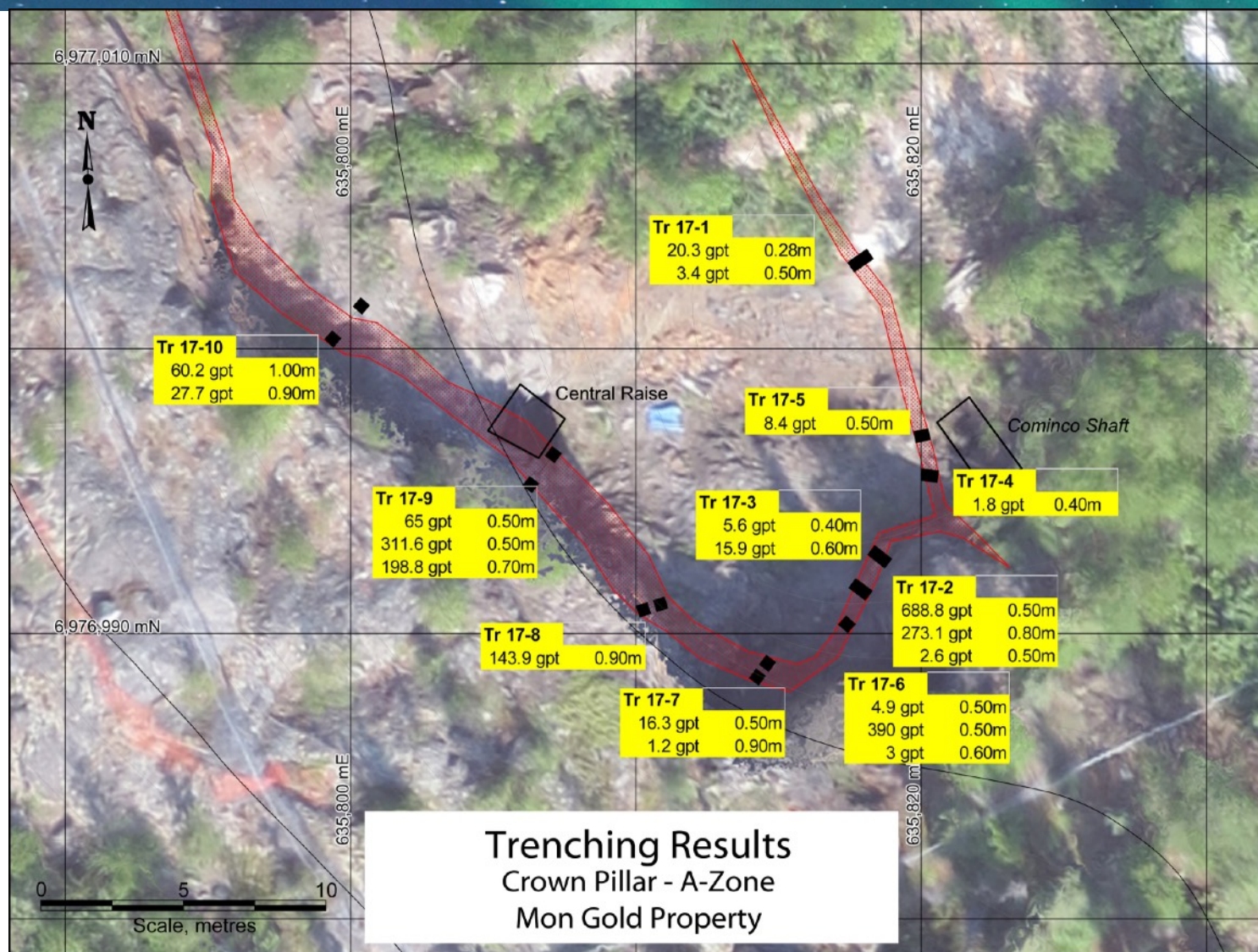
# Regional Geology, Claims and Leases



- The Mon Gold Property is located in the Archean-aged, Yellowknife Greenstone Belt, NWT, Canada.
- Past mining in this Belt exceeds 15 million ounces of gold at grades  $>0.5$  oz./tonne, including the Con (6 m oz.), Giant (8 m oz.) and Discovery Mines (1 m oz. at 1 oz./tonne, 1949-1969).
- The Mon Property is 622 ha in size and the recently optioned, contiguous Hangstone Property is 2,394 ha in size



# 2017 Prospecting Results Supports The High-grade Nature Of The Past Producing A-zone



- Samples from 1.20 gpt Au/0.90 m to 688 gpt Au/0.50 m
- A sixty-meter exposure of the crown pillar of the A-Zone was sampled by mechanical chipping in ten continuous chips across the width of the vein.
- Full details in news release August 7, 2018



# Metallurgical Testing 2018: Recoveries Avg. 98.8 %

Composite ID	Sample Weight Tested	Head Grade, g/t Au		Gold Recovery, % Au		
	kg	Measured	Calculated	Gravity	Flotation	Overall
Composite 1	75.6	17.4	16.6	79.9	18.0	97.9
Composite 2	83.8	266.8	314.8	73.2	26.0	99.3
Composite 3	83.6	170.7	128.9	75.7	23.5	99.2
<b>Composite 1+2+3</b>	<b>243.0</b>	<b>156.2</b>	<b>158.0</b>	<b>76.1</b>	<b>22.7</b>	<b>98.8</b>

- Three composite samples totaling a quarter tonne on the crown pillar of the A-Zone
- Simple gravity and flotation circuit averaging 98.8 % recovery on 158.0 g/t Au calculated head grade
- Environmental benefit:  
high recoveries without the use of cyanide leaching

One ounce button recovered from gravity test.





# Former Operations of the Mon Gold Mine



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Loading a round, 1990

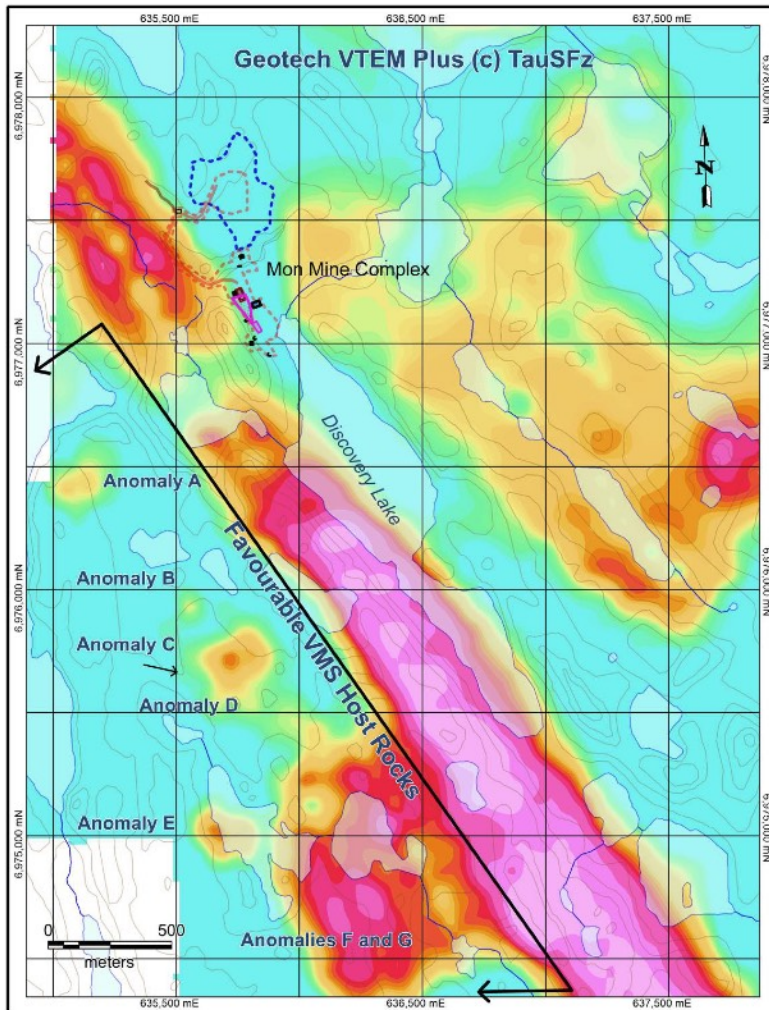


Mon Mine Site, 1992

Mon Mill, 100 tpd, 1992







## Volcanogenic Massive Sulfide (VMS)

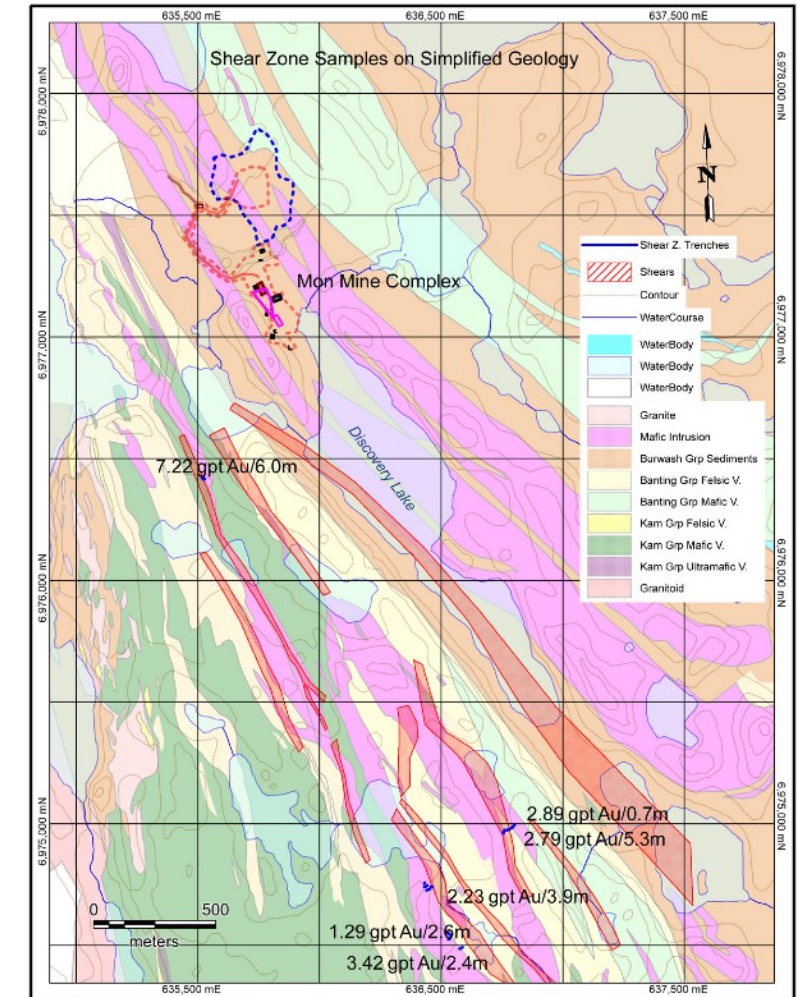
- VMS deposits account for 40% of Canadian silver production, 49% of its zinc, 27% of copper, 20% of its lead, and 3% of gold.
- 2018 exploration by SXTY led to discovery of a new 2,500 m long horizon hosting VMS mineralization enriched in silver, lead, zinc and gold.
- Grab samples in this zone (Anomaly C) graded up to 2.30 gpt Au, 360 gpt Ag, 3.83% Pb, and 1.94% Zn.
- Trench assays including 0.45m of 203 gpt silver, 1.0 gpt gold, 0.59% lead and 0.96% zinc.
- 2019/2020 airborne geophysics has identified at least seven isolated anomalies within favourable rocks. The strongest anomalies are not exposed. This has generated at least 4 drill targets.



# Exploration Potential – Shear Zones

## Shear Zones

- Yellowknife Greenstone Belt contains numerous Shear Zone-hosted gold deposits:
  - Giant Yellowknife Gold Mine – past production 8 million oz Au
  - Con Gold Mine – past production 6 million oz Au
  - Negus – Rycon Gold Mines – past production 0.9 million oz Au
  - Crestaurum Mine – part of Gold Terra resource
- Mon Property contains gold-bearing Shear Zones (multiple structures, some mineralized over 2 km), some of which have minor exposures.
  - Over 95% of the shear zones are not exposed, underlying lakes and swamps.
  - Trench results show potentially economic grades over potentially minable widths.
  - The Shear Zones extend onto the optioned Hangstone Property





# Exploration Potential – Nickel Cobalt PGM Zone



- **New IOCG (Iron oxide copper gold) Nickel-Cobalt PGM Zone (news release April 19, 2022). *This is the first reported nickel showing in the Yellowknife Gold Belt.***
- An unusual nickel-cobalt PGM (platinum group metals)-rich zone is associated with the 600 m thick Eastern Mafic Trend (“EMT”). A new discovery is located 1,800 m south of the A-Zone where a prospecting program following-up on some very anomalous biogeochemical samples produced grab samples returning >1% nickel and 0.19% cobalt, together with 0.43 gpt gold from a rusty gabbroic phase. Six follow-up samples collected this winter returned lower but very anomalous gold, nickel and cobalt values, plus very anomalous platinum (0.09 gpt) and palladium (0.08 gpt) values (see table below).
- The results compare favourably to several large tonnage nickel cobalt deposits and contain a material PGM component.

Sample	Gold gpt	Platinum gpt	Palladium gpt	Cobalt gpt	Nickel %
3195829	0.158	0.089	0.017	250	0.33
3195830	0.116	0.023	0.01	150	0.34
3195832	0.055	0.012	0.005	190	0.24
3195833	0.167	0.029	0.007	280	0.34
3195834	0.068	0.005	0.004	140	0.24
NDM WK-467 (discovery sample )	0.430	na	na	1,830	>1.0





1. High-grade gold mine, shallow past producer in a well defined gold belt with 15 million ounce production history
2. Permitted to re-commence production at 100 tpd. The mining equipment is owned, and on the property. The only gold mine in the NWT with this status.
3. Experienced management team with experience in dozens of mines, including the Mon Gold Mine.
4. Land package includes many well-defined, drill-ready targets.







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**FRANKFURT: 2F4**

**TRADEGATE: A2JKW2**

**OTC-PINK: SXNTF**



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