

Critical and Precious Metals Exploration in Canada

▶ XTM – TSXV |

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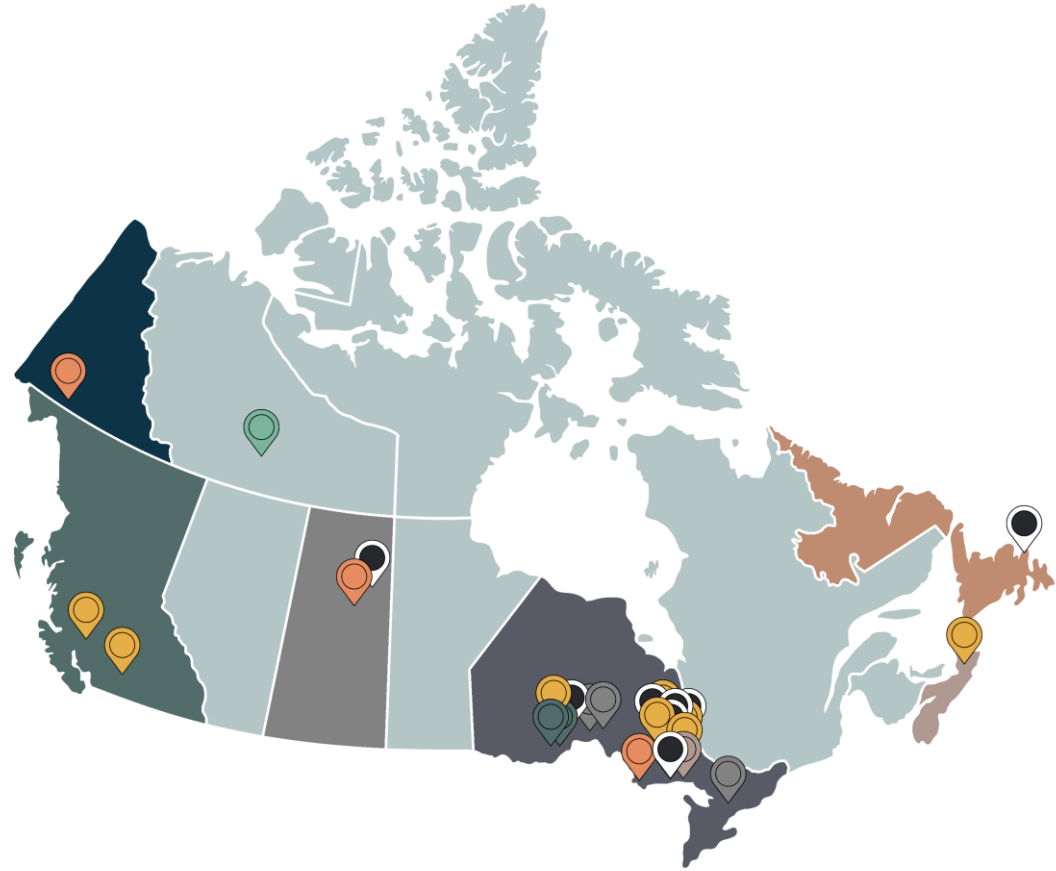
Multi Commodity Portfolio

Exploration Projects Across Canada



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- Gold
- Copper
- PGM
- Nickel
- Tungsten
- Uranium
- Royalty



of assets by commodity



Over 25 projects & royalties in mining friendly jurisdictions across Canada

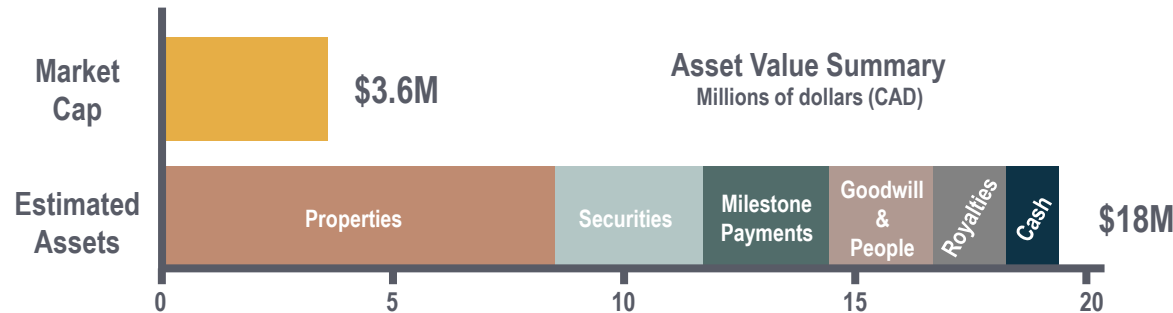
Asset Portfolio

Cash, Property, Investments and Royalties



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Trading below cash with tight capital structure



Capital Structure*

Shares Outstanding:	71.5M
Options/Warrants/DSUs/RSUs:	13.3M
Fully Diluted:	84.8M
Market Cap:	\$4.0M
Cash & Securities:	\$3.8M

* As of Jan 7, 2025

\$10.7M raised (\$0.17/share avg)

Marketable securities owned valued at \$3.2 million *



Demand For Critical Metals

Creates New Opportunity for Value Creation

“Critical minerals are the building blocks for the green and digital economy. There is no energy transition without critical minerals: no batteries, no electric cars, no wind turbines and no solar panels. The sun provides raw energy, but electricity flows through copper. Wind turbines need manganese, platinum and rare earth magnets. Nuclear power requires uranium. Electric vehicles require batteries made with lithium, cobalt and nickel and magnets. Indium and tellurium are integral to solar panel manufacturing.”

– Canadian Critical Minerals Strategy excerpt

Pike Warden Cu-Au



Transition Metals is currently focused on advancing two of its critical minerals projects in Canada: Pike Warden (Yukon) and Saturday Night (Ontario).

Saturday Night PGM-Ni-Cu

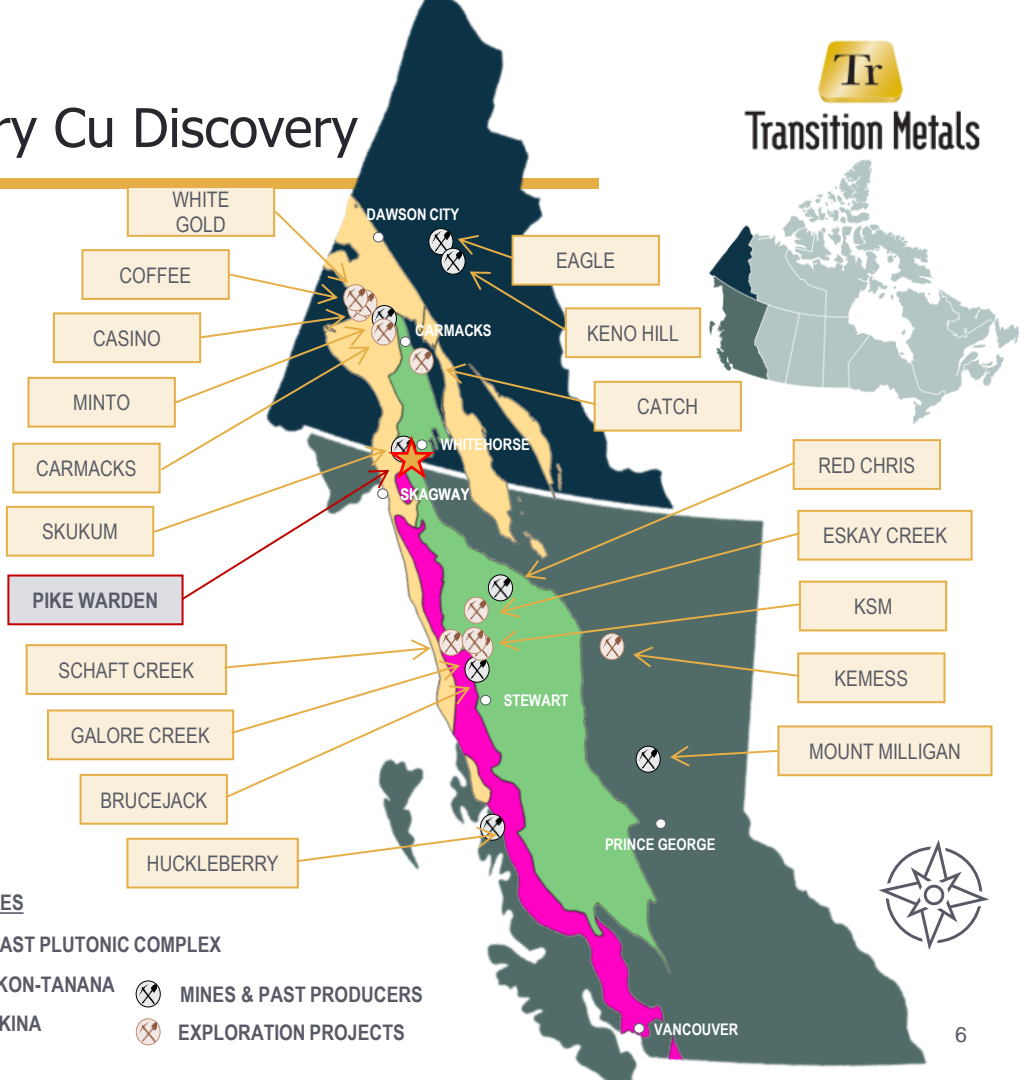


Pike Warden: Location

Polymetallic Precious Metal & Porphyry Cu Discovery



- New polymetallic **epithermal** precious metal and **porphyry** copper discovery in the Yukon, **Pike Warden** is located near the Yukon-BC border.
- **Northwest** of BC's **Golden Triangle** in an **underexplored gap** on the margin of the Cordilleran Intermontane Belt, which hosts numerous deposits including:
 - Galore Creek, Shaft Creek, Red Chris – **Porphyry** Cu, Au, Mo
 - Eskay Creek, KSM, Brucejack – **Epithermal** Au, Ag
- **Southeast** of the Dawson Range, **along trend** in similar geology, which hosts numerous deposits including:
 - Casino, Minto, Carmacks, Catch – **Porphyry** Cu, Au
 - Coffee, White Gold, Skukum – **Epithermal** Au, Ag



TERRANES

- COAST PLUTONIC COMPLEX
- YUKON-TANANA
- STIKINA

MINES & PAST PRODUCERS (circle with X)

EXPLORATION PROJECTS (circle with cross)

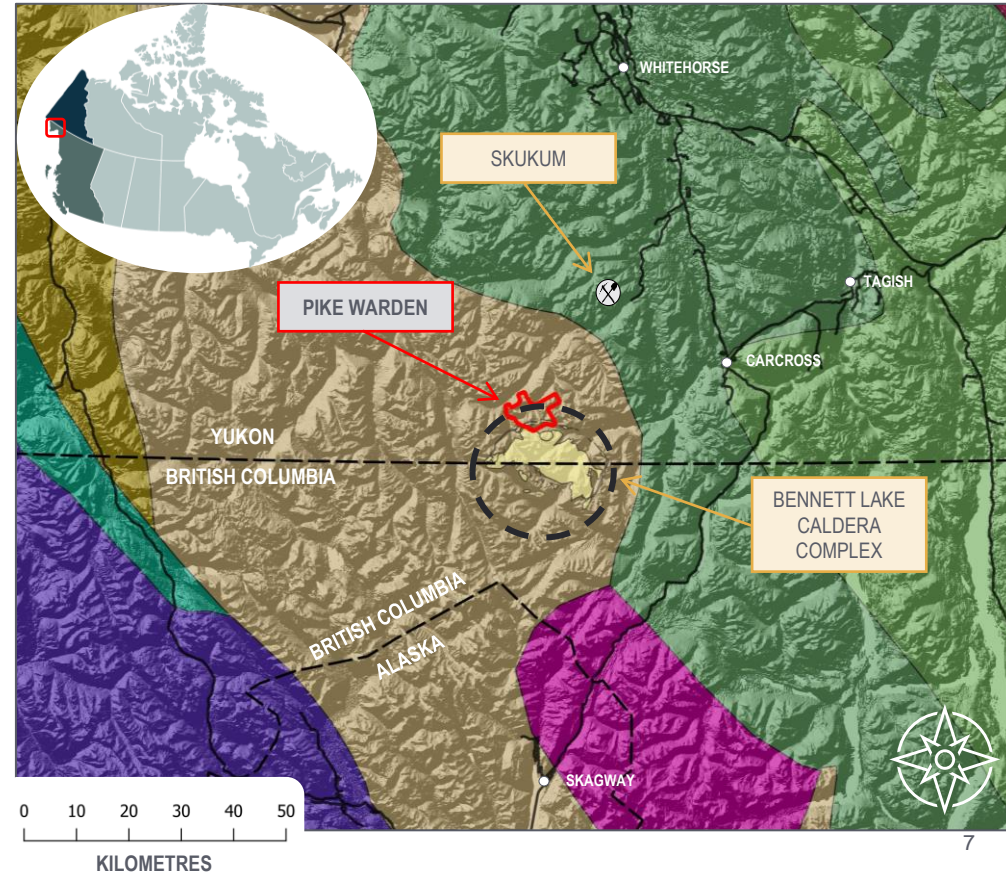
Pike Warden: Story

Giant Collapsed Caldera

- On the northern margin of the Eocene **Bennett Lake Caldera**, one of the **largest collapsed caldera** structures in Canada.
- Favourable **geodynamic environment** for hosting large scale polymetallic **epithermal Au-Ag** and **porphyry Cu-Mo** systems.
- Close to **Whitehorse**, with road **infrastructure** to deep-sea port in Skagway, Alaska.
- Transition Metals recently confirmed the presence of both high sulphidation **epithermal Ag-Au** and **porphyry Cu-Mo** systems.

TERRANES

	ALEXANDER		COAST PLUTONIC COMPLEX
	WRANGELLIA		YUKON-TANANA
	KLUANE SCHIST		CACHE CREEK
			STIKINA





Pike Warden: Robust Data Sets

Define Patterns at System Scale

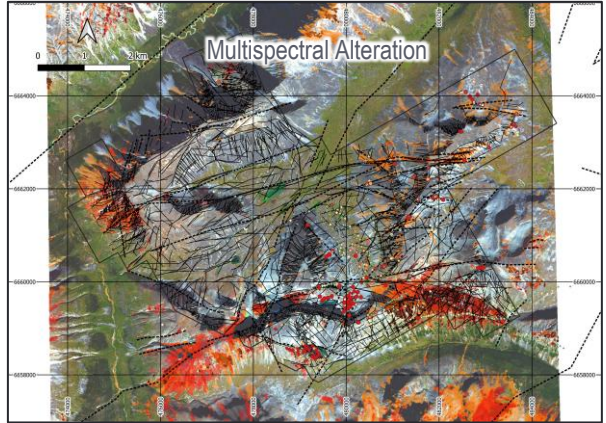
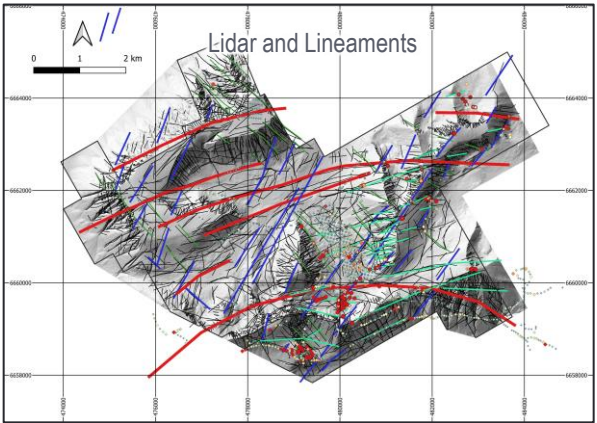
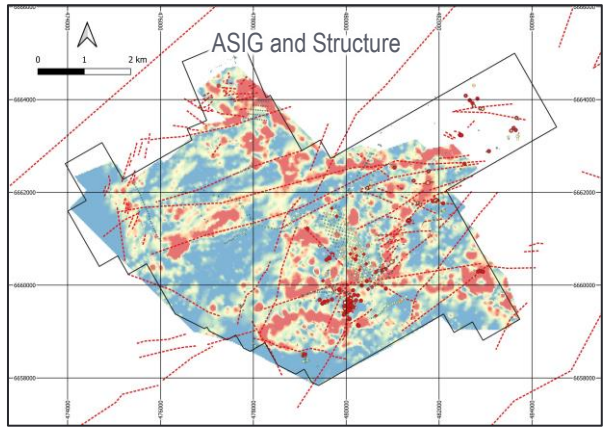
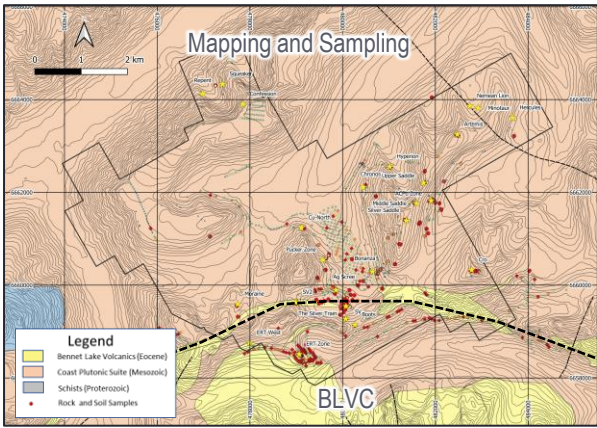
- Rocks & soils highlight elevated trends in Au, Ag, Cu and Mo through over 1,800 data points.

- >25 polymetallic showings, returning values up to:

- 48.1 g/t Au,
- 11,270 g/t Ag,
- 7.49% Cu,
- 2.37% Mo

- High density LiDAR = high quality DEM.

- Lineaments from LiDAR, orthophotos, and geophysics.



- High resolution magnetics, VLF and radiometric data plus >600 line-km of ZTEM.
- Alteration mapping utilizing AI-deep learning of Worldview 3 multispectral band data.
- Spectral mineralogy done on 810 pulp samples.
- Trends of argillic alteration associated with higher Au-Ag.
- Petrography highlights phyllic and potassic alteration associated with Cu-Mo.

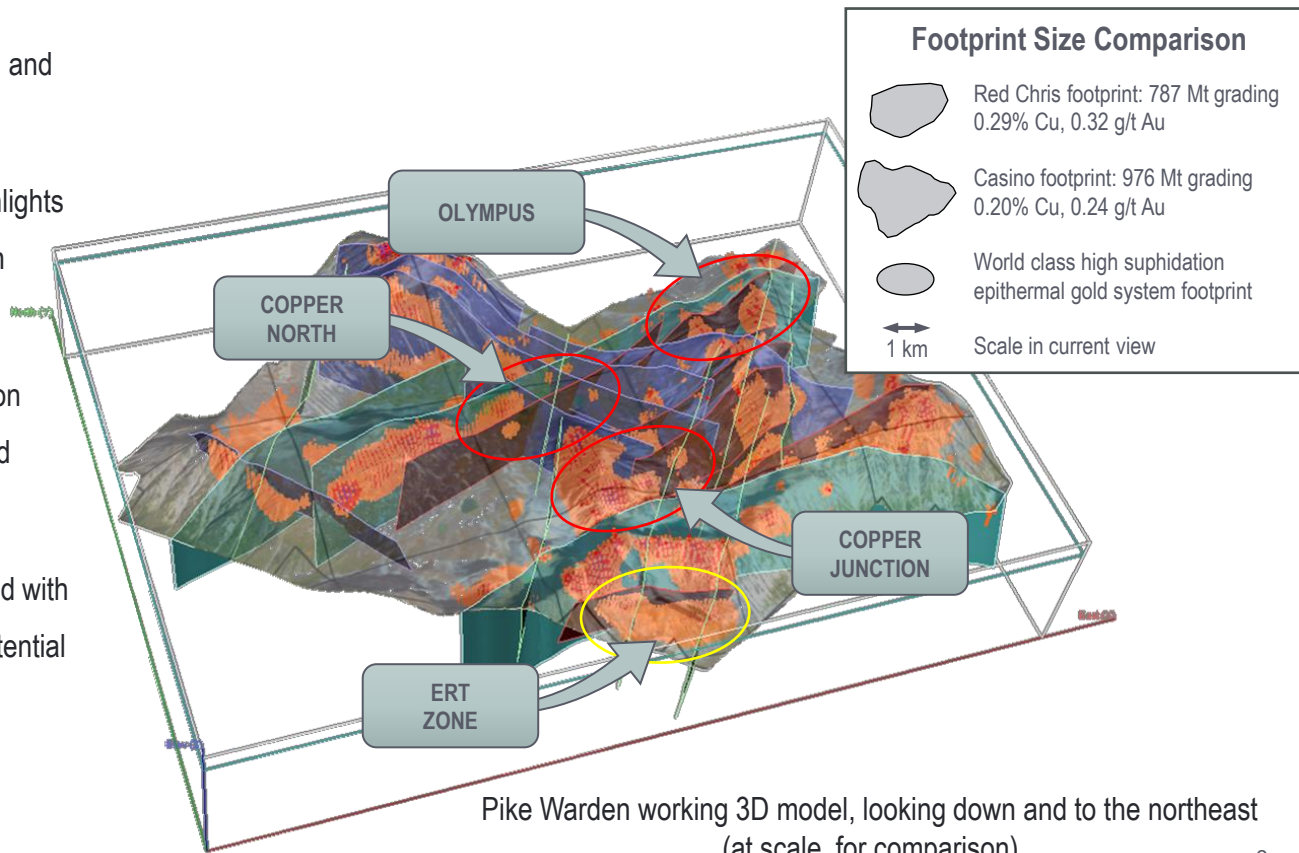
Pike Warden: Compelling New Evidence

Stacked Porphyry Cu-Mo & Au-Ag Epithermal Systems



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- **Widespread** occurrence of **high-grade** Au-Ag and Cu-Mo mineralization.
- Rock sample trace element geochemistry highlights both **epithermal** and **porphyry** style alteration signatures.
- Petrography supports late **epithermal** alteration **overprint** of an earlier (hotter) Cu-Mo enriched **porphyry** style alteration.
- Confirmation of **potassic alteration** associated with high grade Cu-Mo mineralization, supports potential **subcropping/near surface** porphyry system.

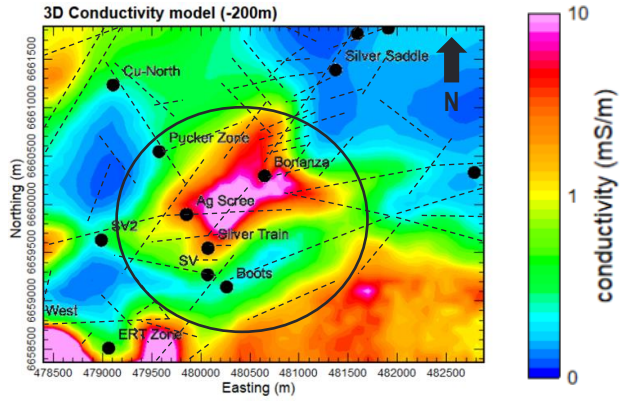
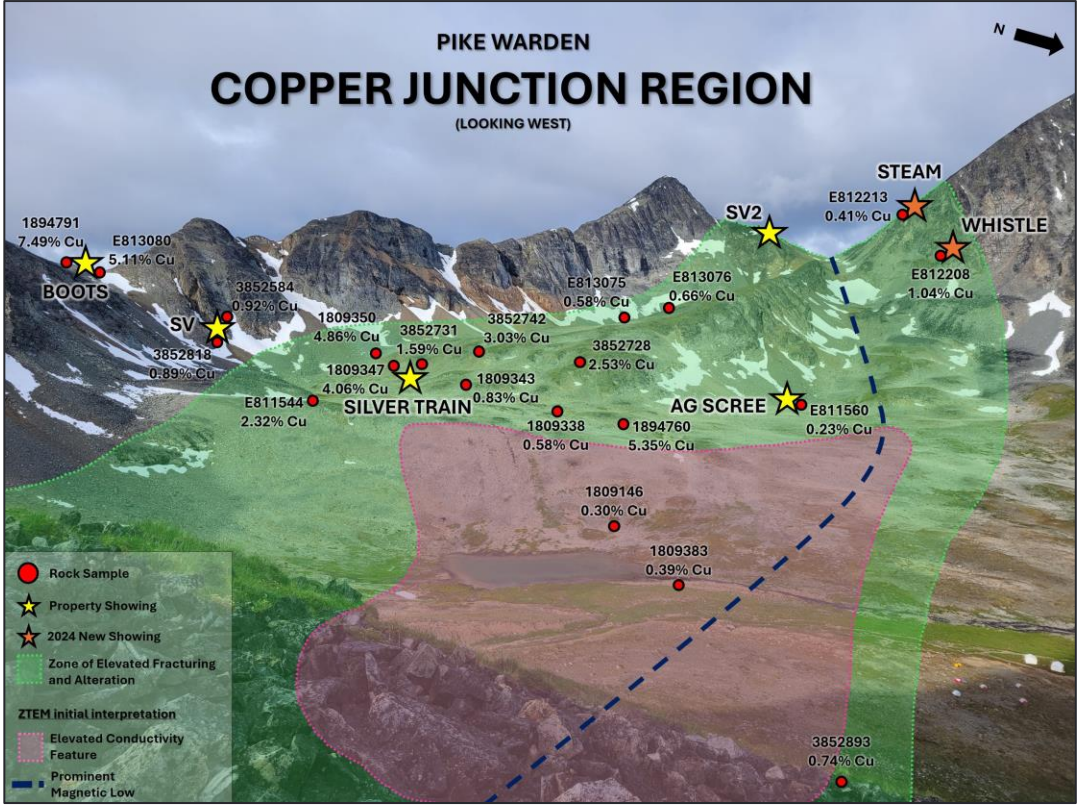


Pike Warden: Copper Junction Target

Large Coincident Conductivity Anomaly



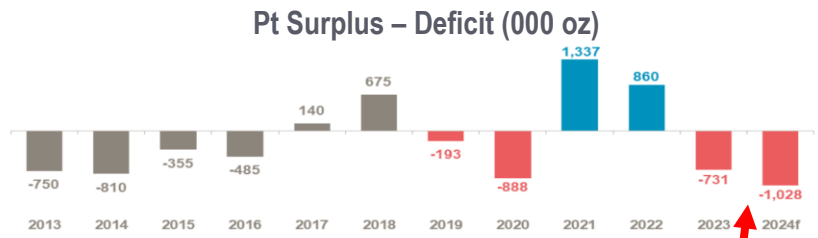
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Geological, geophysical, and geochemical data continues to support and highlight Copper Junction as a strong target:

- ZTEM survey shows elevated conductivity feature.
- aiSIRIS™ spectral mineralogy of Copper Junction samples with strong Cu mineralization demonstrates their proximal position to a porphyry centre.
- Petrography provides evidence for high temperature, prospective alteration within this (grano)dioritic system.
- Geological mapping notes elevated fracturing, strong alteration, and intersecting major lineaments within Copper Junction area.

Pt & Pd Demand – Supply Balance

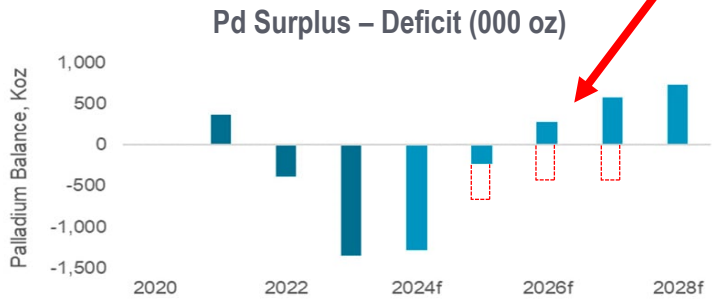


Strong PGM Fundamentals

- Second consecutive annual PGM deficit.
- Above ground stocks to deplete by 37% in 2024.
- Risk to supply from Russia & SA.
- Higher and longer automotive demand for PGMs.
- China making significant investments in PGMs.
 - 250 koz in 2024
- PGMs lagging behind other precious metals (Au, Ag).
- **PGM sanctions against Russia should prolong Pd deficit**

Source: WPIC Research

Consecutive annual deficits

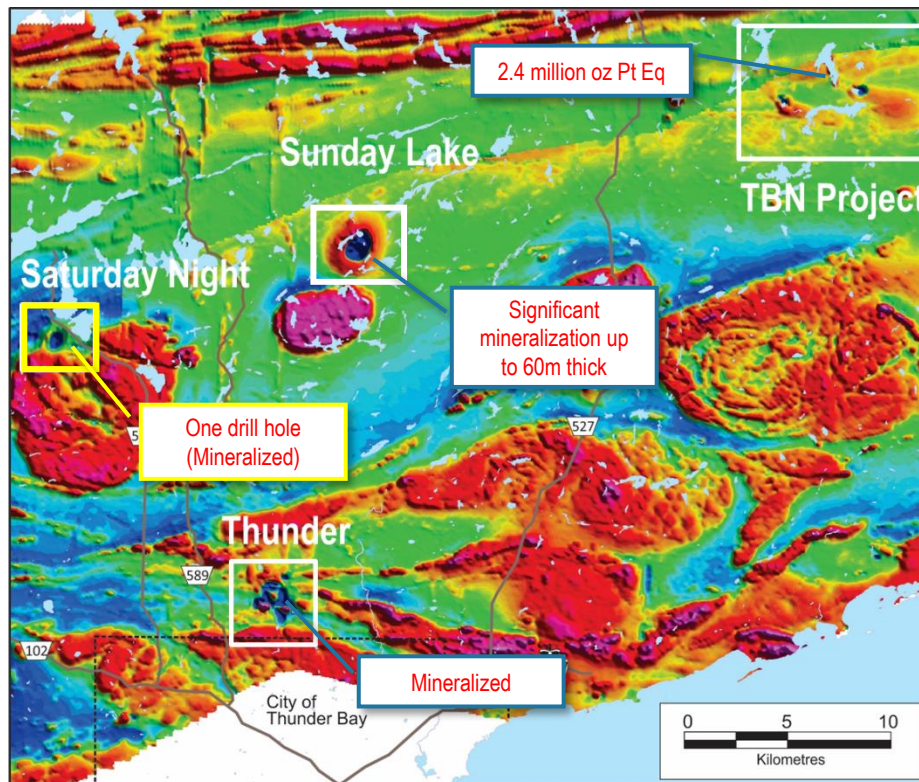


Saturday Night: Thunder Bay Area

Early Midcontinent Rift Intrusions



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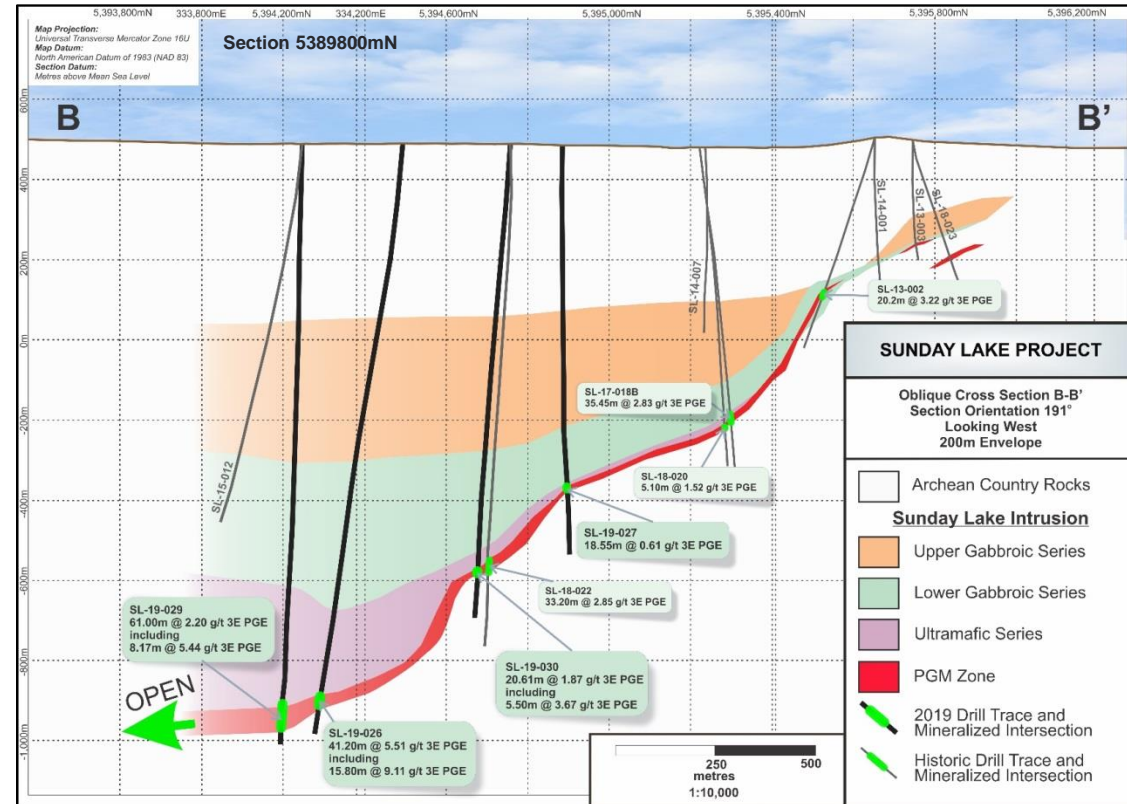


Thunder Bay Area Early MCR Intrusions

- Sunday Lake & Saturday Night are two of the largest known “early” Midcontinent Rift related intrusions in Thunder Bay area.
- Similar age to Lundin’s **Eagle** mine in Michigan, Talon Resources’ **Tamarack** project in Minnesota, and Clean Air Metals’ **Thunder Bay North** (TBN) deposit in Ontario.
- Early Rift Intrusions have specific geophysical, geochemical, lithological and age date signatures.
- TBN, Sunday Lake, and Saturday Night form a trend that is associated with the Croc Lake Fault.
- Sunday Lake is well developed with 43 drill holes totaling 34,157 metres.
- Saturday Night has 1 drill hole, totaling 601 metres.

Sunday Lake

Drill Results



DDH	From (m)	To (m)	Length (m)	Pt g/t	Pd g/t	Au g/t	PGM g/t	Cu wt.%	Ni wt.%
SL-13-002	395.00	415.20	20.20	2.11	0.95	0.16	3.22	0.26	0.11
SL-14-003	526.00	541.00	15.00	1.80	0.92	0.12	2.84	0.22	0.09
SL-15-010	723.00	738.00	15.00	1.25	0.75	0.08	2.08	0.20	0.08
SL-15-013	849.70	892.60	42.90	1.92	1.40	0.11	3.43	0.44	0.17
including	871.40	881.50	10.10	3.18	2.28	0.16	5.62	0.71	0.28
SL-17-18B	667.70	703.15	35.45	1.65	1.09	0.09	2.83	0.41	0.16
including	684.50	703.15	18.65	2.43	1.49	0.13	4.05	0.48	0.17
SL-18-021	863.50	899.35	35.85	2.40	1.32	0.18	3.90	0.43	0.17
including	875.05	898.35	23.30	3.34	1.83	0.26	5.43	0.60	0.21
with	890.85	897.35	6.50	5.17	2.62	0.55	8.34	1.08	0.36
SL-18-022	1039.00	1072.20	33.20	1.68	1.03	0.13	2.84	0.34	0.12
including	1056.00	1066.90	10.90	3.08	1.65	0.25	4.98	0.51	0.14
SL-19-026	1392.00	1433.20	41.20	3.22	2.08	0.21	5.51	0.57	0.19
including	1417.40	1433.20	15.80	5.42	3.35	0.34	9.11	0.88	0.24
with	1418.85	1427.15	8.30	7.67	4.97	0.42	13.06	1.23	0.32

*Select intercepts from drilling at Sunday Lake

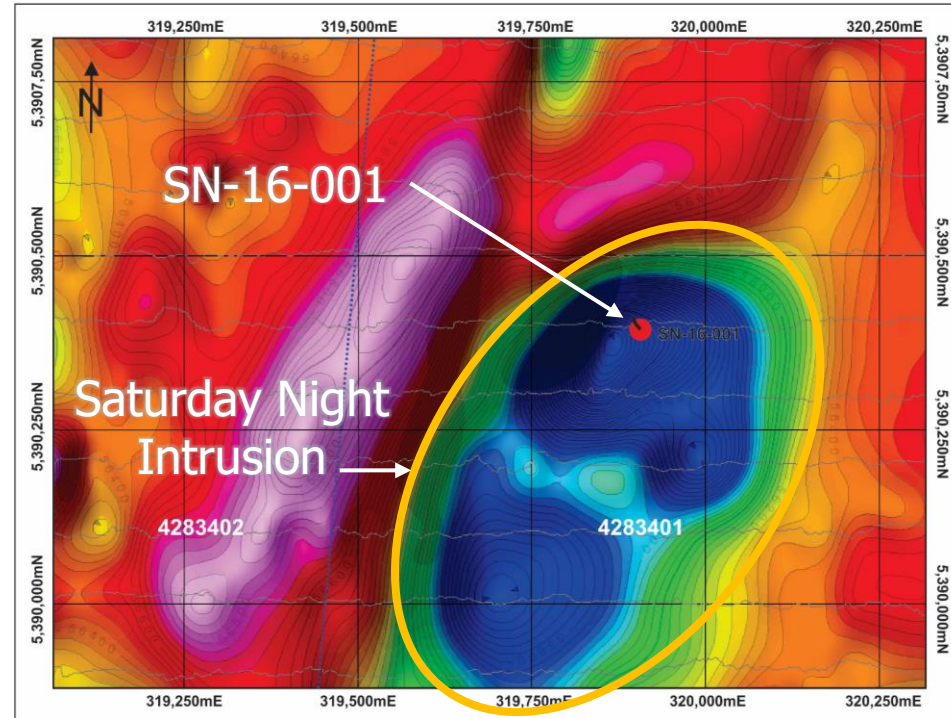
- Semi continuous zones of mineralization at the base of the Sunday Lake intrusion carrying grades between 5-8 g/t combined PGMs (Pt+Pd+Au) over 5-10 metres
- Occur within more continuous zones with grades ranging from 2-3 g/t PGM over 10-60 metres thick
- Best intersection:

41.2 metres @ 5.51 g/t PGM including
8.3 metres @ 13.06 g/t PGM

Saturday Night Discovery

2016 Drilling Confirmed Mineralization

- **2016 drillhole SN-16-001:** (601 m, Az: 030°, Dip: -89°)
- Intersected a buried mafic to ultramafic layered intrusion over a core length of 225.25 metres.
 - from 287.7 m to 513.25 m
- Geochemically, the intersected intrusion is **identical** to both the Sunday Lake and Thunder Bay North Intrusions.
- Hanging wall lithologies are **intensely altered, brecciated, and strongly magnetic.**
 - Comparable in size and intensity to the Sunday Lake Intrusion.
- Near the base of the intrusion, **elevated PGM-Cu-Ni mineralization** associated with disseminated and blebby sulphides was encountered .
- Highlight results of **6.25 m @ 1.07 g/t PGM** (Pt+Pd+Au).
 - Including **0.30 m @ 4.0 g/t PGM** and **0.56% Cu.**
- **Grades comparable to discovery holes of other MCR intrusions.**

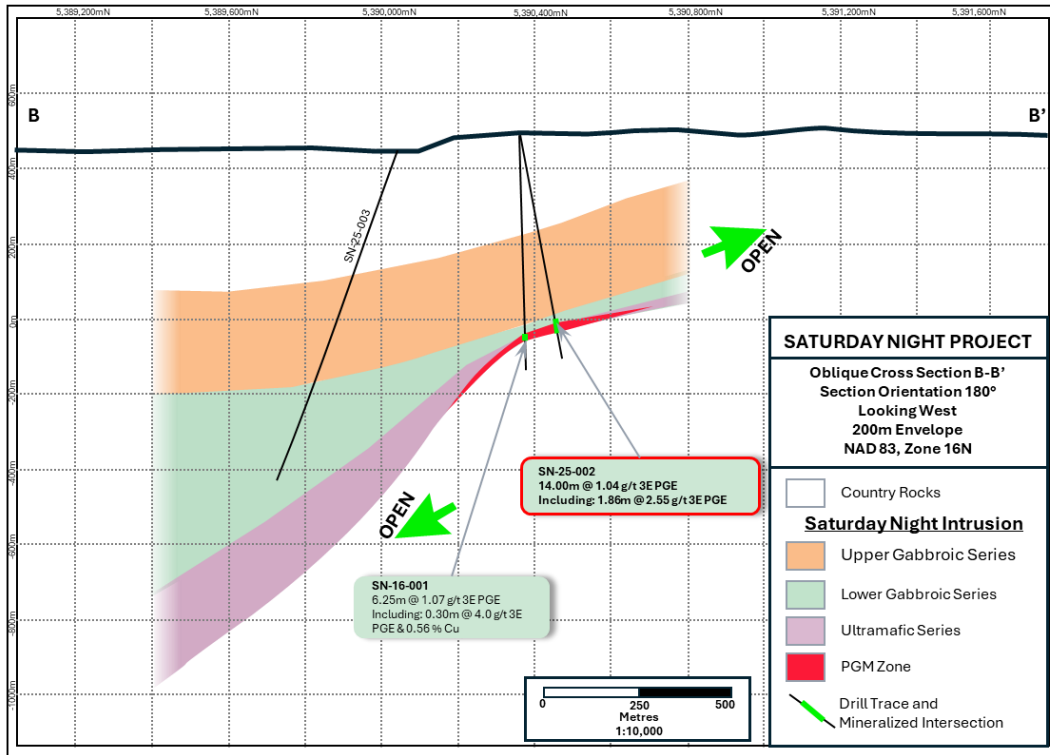


Saturday Night

2025 Drilling Results



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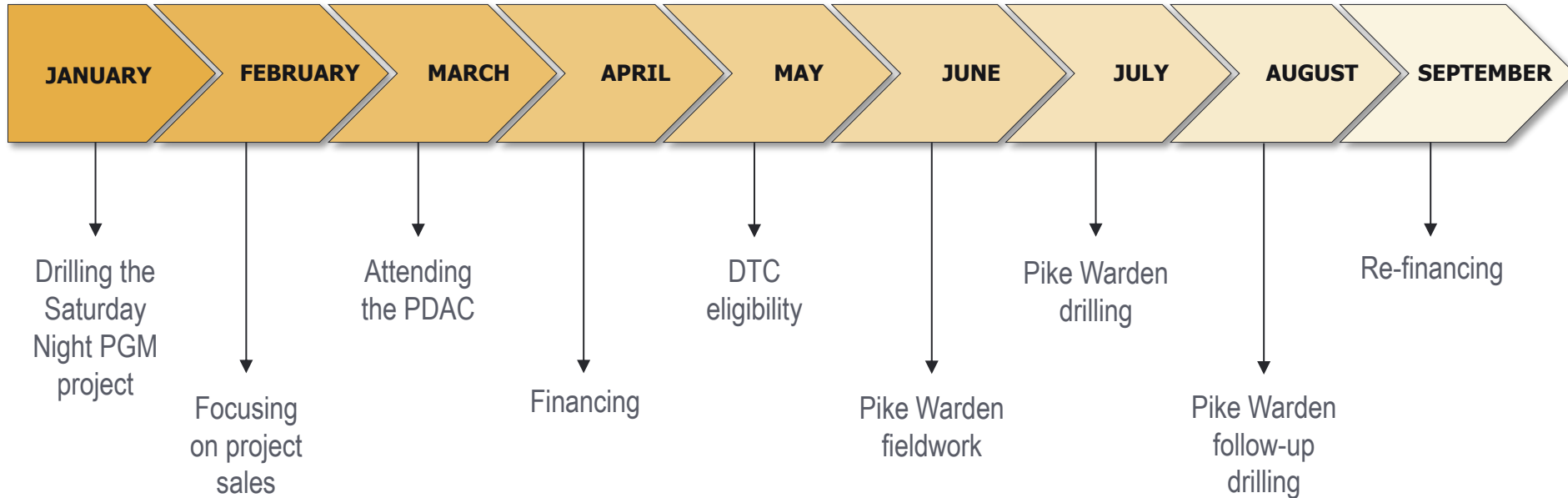
Hole	From	To	Length	Au (g/t)	Pt (g/t)	Pd (g/t)	Ni (%)	Cu (%)	3E PGM
SN-16-01	507.00	513.25	6.25	0.10	0.60	0.37	0.08	0.18	1.07
Incl.	509.78	510.08	0.3	0.33	2.21	1.46	0.19	0.56	4.00
SN-25-02	485.00	499.00	14.00	0.09	0.59	0.36	0.07	0.19	1.04
Incl.	496.00	497.86	1.86	0.21	1.44	0.90	0.12	0.46	2.55
Incl.	496.00	497.86	1.86	0.21	1.44	0.90	0.12	0.46	2.55

*Highlight Intervals from the first two holes at Saturday Night

- Hole SN-16-01 intersected 6.25m grading 1.07g/t PGM's including **4.0 g/t PGM** and **0.56% Cu** over a core length of **0.30m**
- Hole SN-25-02 intersected 14m grading 1.04 g/t PGM including **5.86m grading 1.87 g/t PGM, 0.36% Cu and 0.11% Ni**
- Drilling confirms Saturday Night Intrusion to be large mineralized system potentially larger in scale that the Company's nearby Sunday Lake Discovery

Upcoming Catalysts

Plans for 2025





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Appendix: Additional Material

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