

TSX-V:NOCR

[Norden Crown Metals](#)



**Exploration for Tier 1 USA  
Mineral Deposits to Fill the  
Copper Supply Gap**

**January 2025**





# Forward Looking Statement

This presentation may contain forward-looking statements which involve known and unknown risks, uncertainties and other factors which may cause the actual results, performance, or achievements to be materially different from any future results, performance or achievements expressed or implied by such forward-looking statements.

Forward looking statements may include statements regarding exploration results and budgets, resource estimates, work programs, strategic plans, market price of metals, or other statements that are not statements of fact.

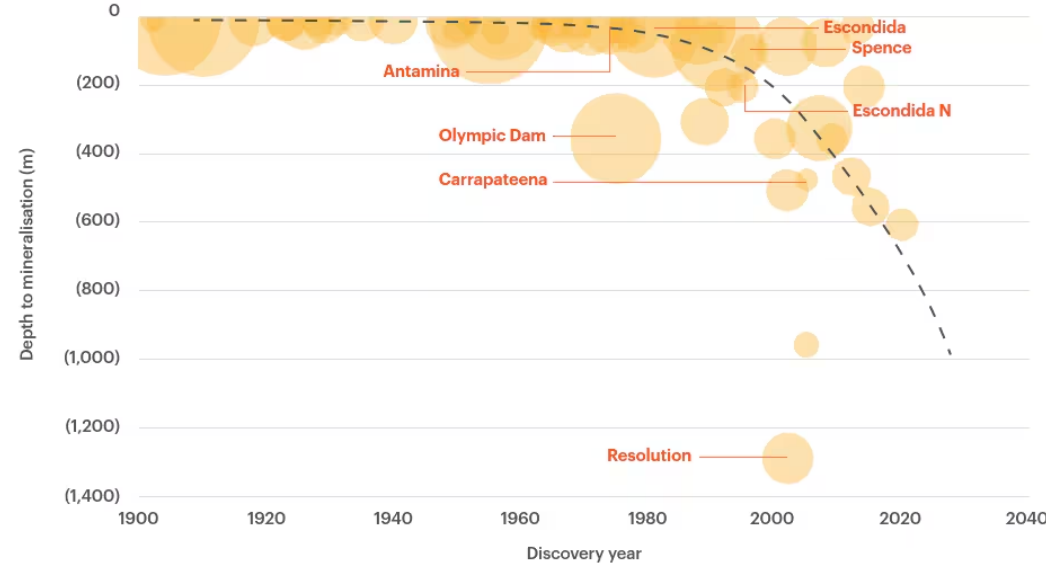
Although the expectations reflected in such forward-looking statements are reasonable, there is no assurance that such expectations will prove to have been correct. Various factors that may affect future results include, but are not limited to: fluctuations in market prices of metals, foreign currency exchange fluctuations, risks relating to exploration, including resource estimation and costs and timing of commercial production, requirements for additional financing, political and regulatory risks. Accordingly, undue reliance should not be placed on forward looking statements.

All technical information contained within this presentation has been reviewed and approved for disclosure by Dan MacNeil, P.Geol, Norden Crown's Qualified Person as designated by NI 43-101. Readers are further referred to the technical reports on the company's website and on SEDAR for more detailed information.

# Copper Discovery and Production

Major copper discoveries are becoming less common and getting deeper...

(Selected major deposits, >3Mt contained copper)



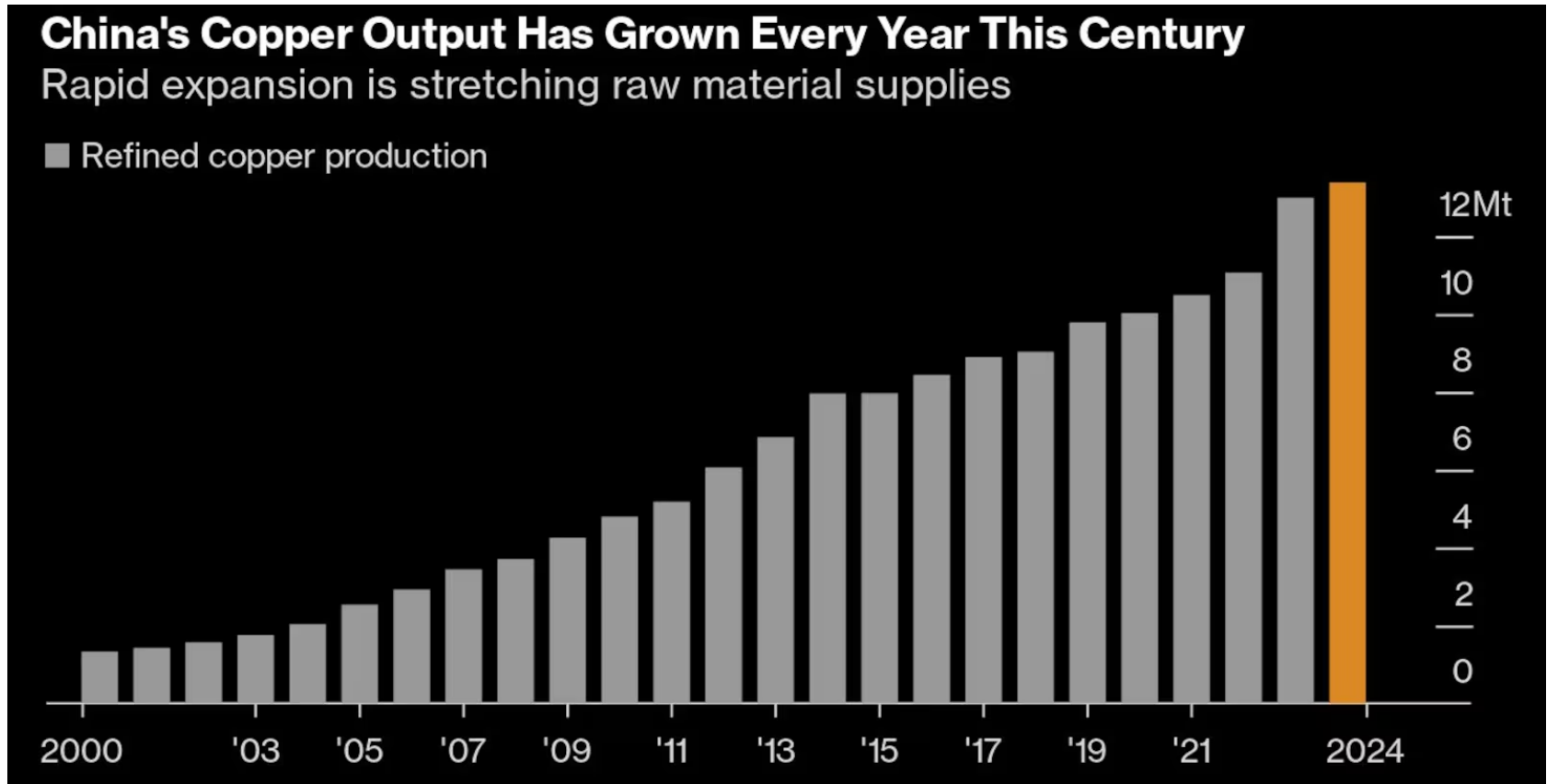
Source: MinEx Consulting; BHP analysis.

<https://www.bhp.com/news/bhp-insights/2024/09/how-copper-will-shape-our-future>

## WHERE IS YOUR COPPER COMING FROM?



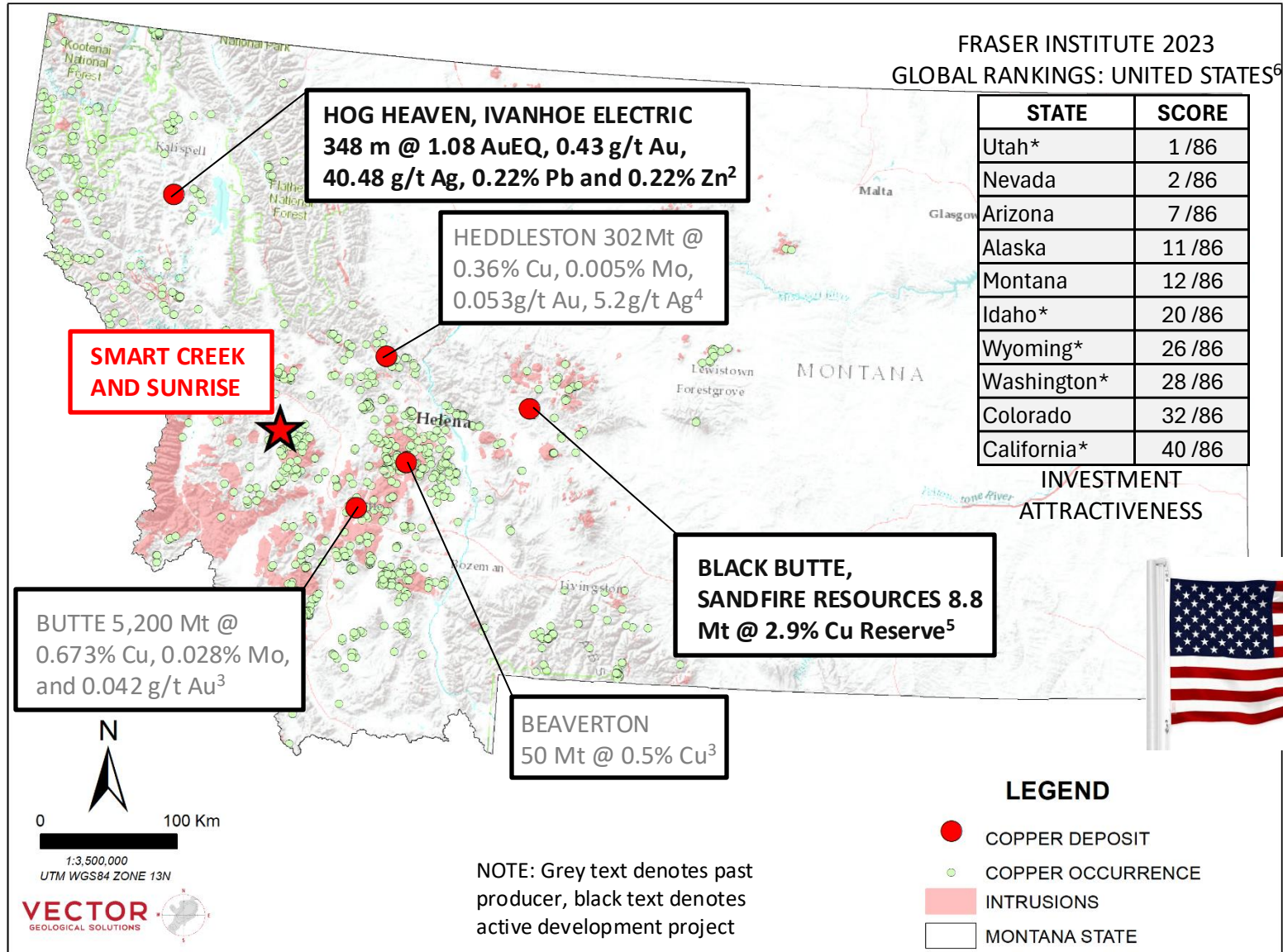
<https://www.visualcapitalist.com/>





# MONTANA: TOP TIER MINING JURISDICTION

## STATE OF MONTANA: METAL ENDOWMENT





# Infrastructure and Access – Montana USA



Road access to all sectors of the property

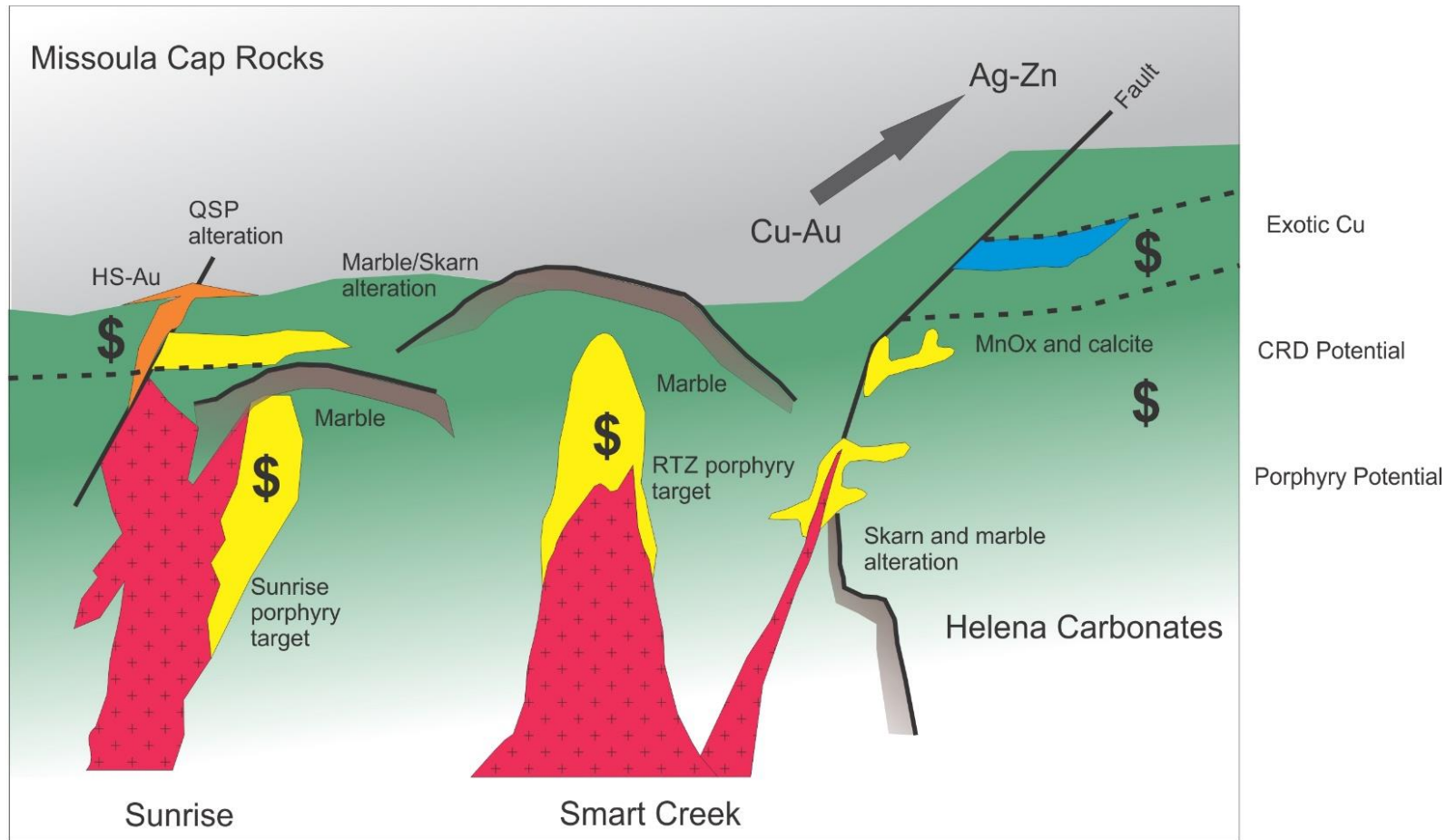


Historic mine infrastructure at the Sunrise Mine area



12,500 Oz Au AND GRADES OF 6.22 g/t Au, 31.1 g/t Ag, 1.5% Cu.

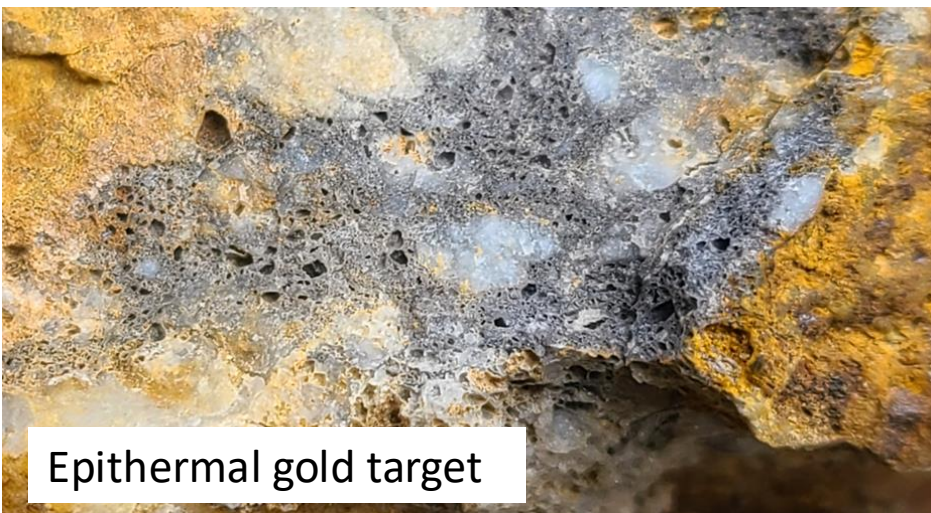
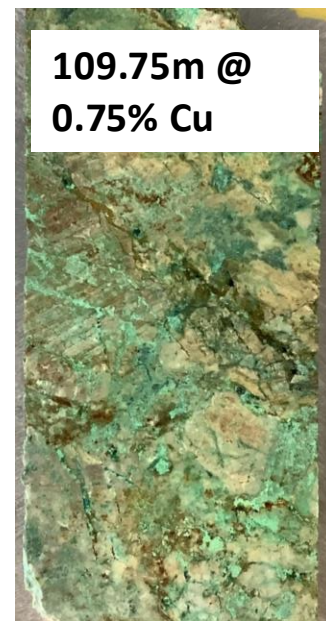
# Exploration Model – World-Class USA Geology



There is exploration potential for high-grade porphyry, exotic copper, carbonate-replacement/skarn Au-Cu, as well as structurally-controlled/epithermal Au mineralization.

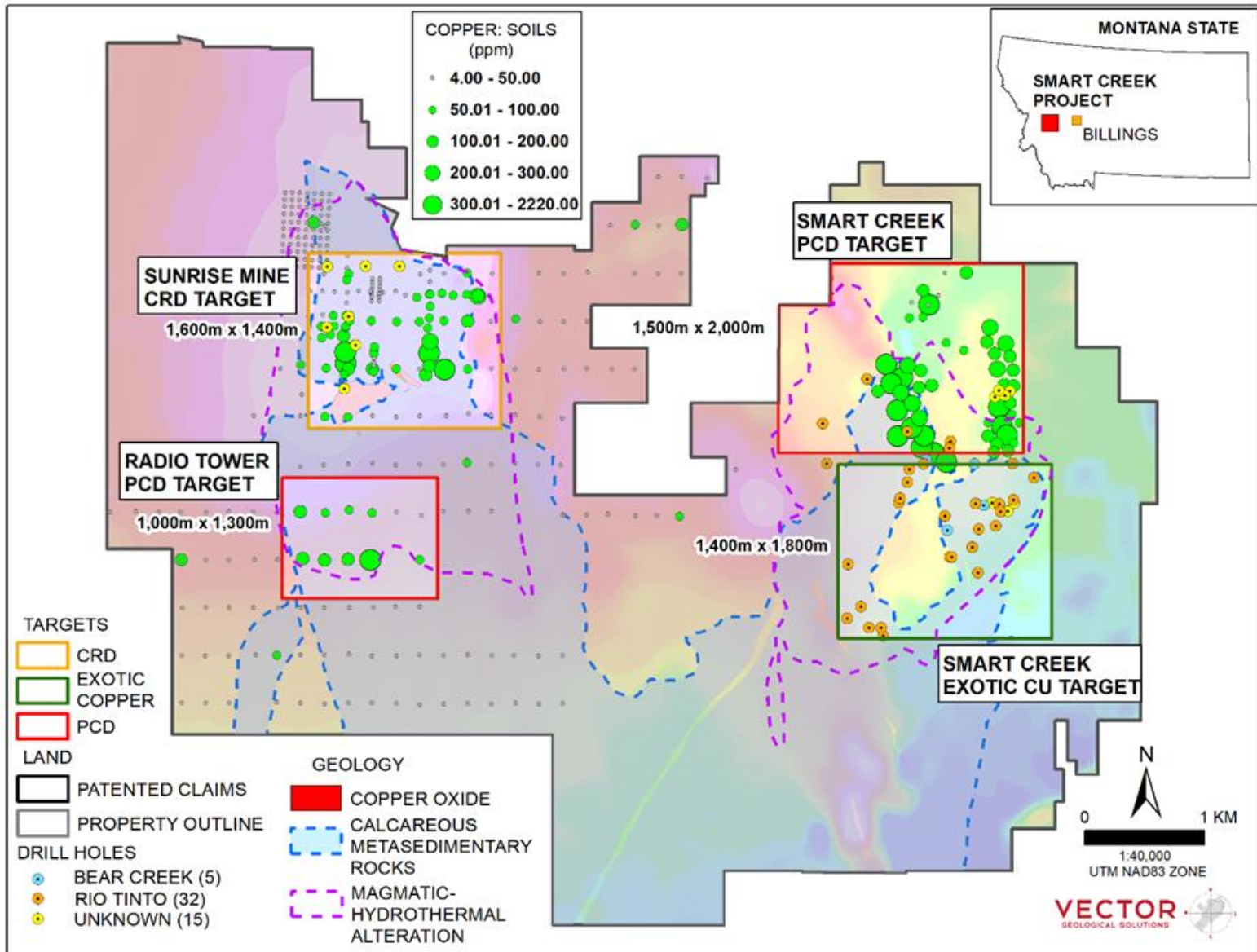


# Target Zone Mineralization styles

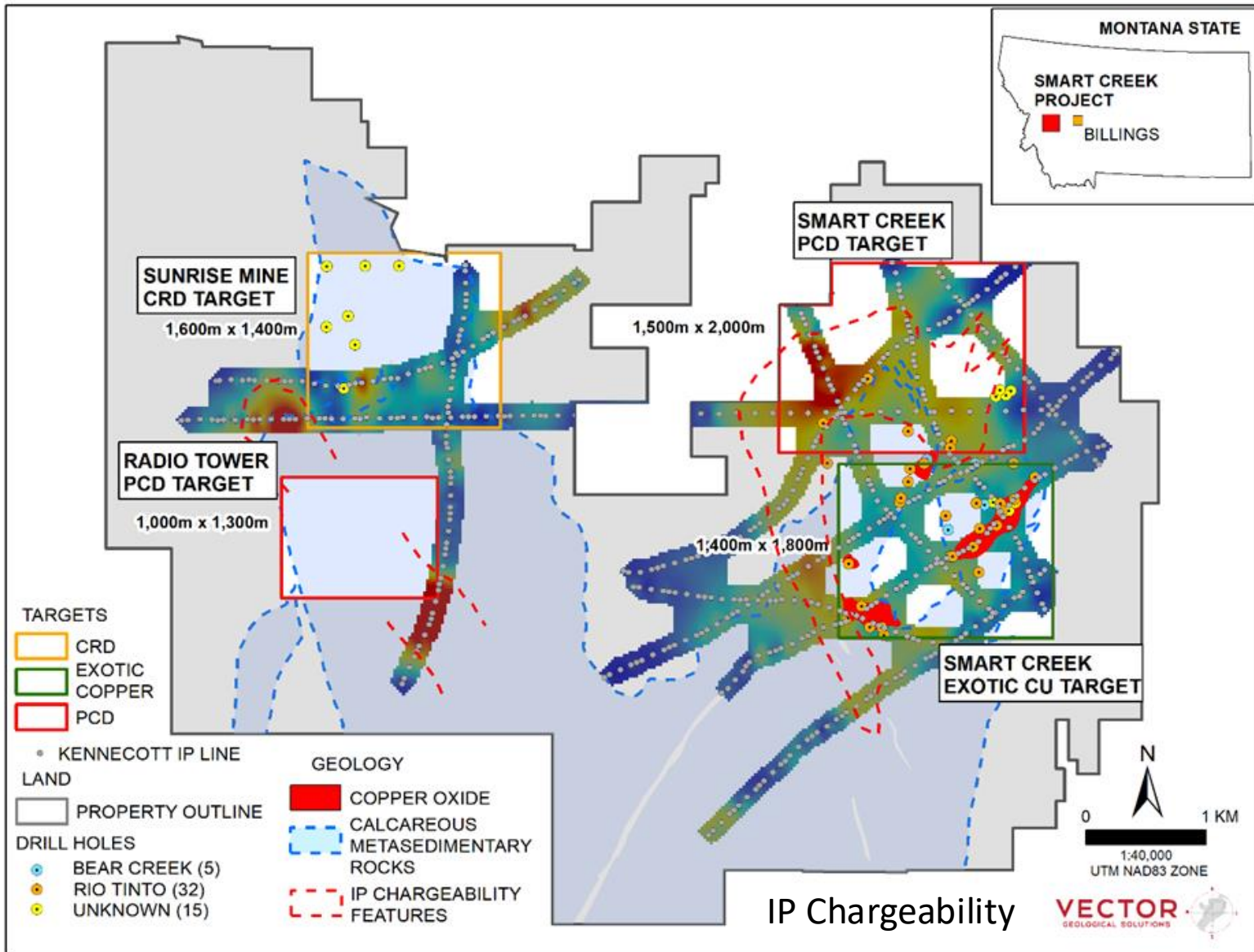




# Exploration Targets – USA Copper



# Exploration Targets – DRILL-READY

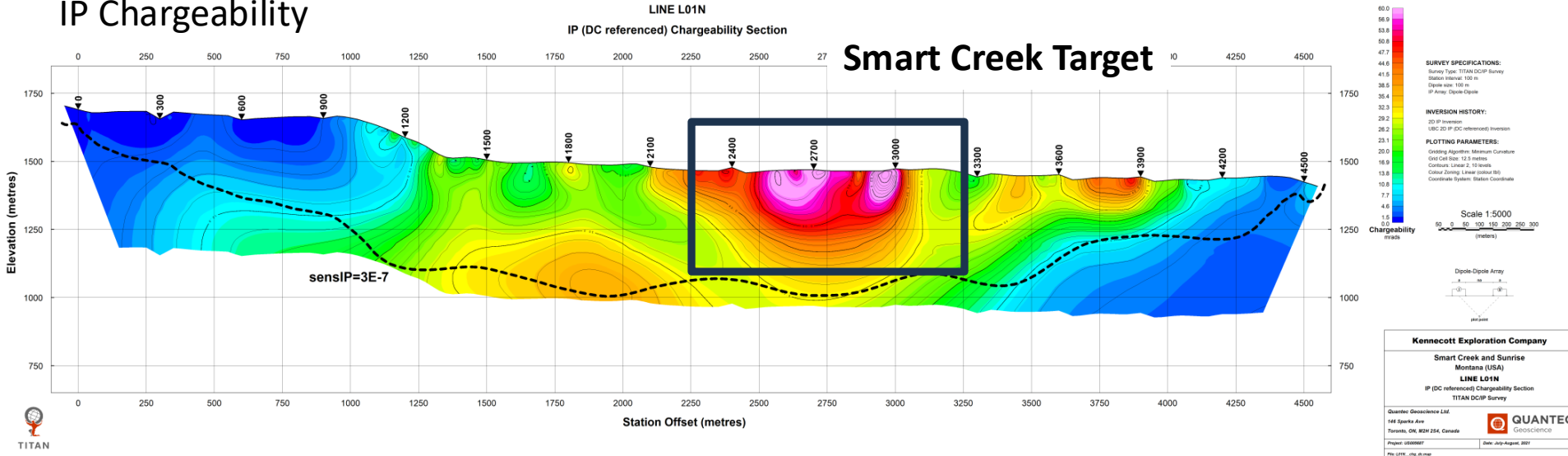






# Exploration Targets – DRILL HERE

## IP Chargeability



## Radio Tower Target

LINE S04E  
(DC referenced) Chargeability Section

**DRILL BABY DRILL!**

Elevation (metres)

Station Offset (metres)

sensIP=3E-7

Scale 1:5000

Dipole-Dipole Array

**Kennecott Exploration Company**  
Smart Creek and Sunrise  
Montana (USA)  
LINE S04E  
IP (DC referenced) Chargeability Section  
TITAN DCIP Survey

Quintec Geoscience Ltd.  
148 Sparks Ave.  
Toronto, ON M5H 2S4, Canada

Project: 10000007 Date: July-August, 2017  
File: S04E\_IP\_01.nor

**QUANTEC**  
Geoscience



- **THREE HIGH QUALITY, DRILL READY, LARGE SCALE MINING TARGETS :**
  - SMART CREEK PORPHYRY COPPER MINERALIZATION,
  - SUNRISE COPPER-SILVER-GOLD TARGET AND
  - SUNRISE SOUTH. HISTORICAL COPPER, GOLD, AND TUNGSTEN PRODUCTION.
- **Large, multi-kilometre sized, intensely altered and mineralized footprints. Targets include:**
  - Hypogene Copper Porphyry below Rio Tinto Drilling,
  - Gold-Copper replacement mineralization at Sunrise
  - Copper-gold porphyry at depth at Sunrise.
- Smart Creek and Sunrise include numerous **patented** mining claims which are readily permittable for drilling.
- Fast permitting in Federal and Forest Service ground in Montana (2-6 Months).
- EXCELLENT INFRASTRUCTURE AND **YEAR-ROUND ROAD ACCESS**





- CRITICAL MASS OF **HIGH-QUALITY EXPLORATION DATA** THAT CAN BE LEVERAGED TO **VECTOR TOWARD DISCOVERY**
- **BEST DRILL INTERCEPT:** 109m @ 0.75% Cu
- USBM, **EXXON**, UTAH INTERNATIONAL, **NORANDA**, PEGASUS AND **RIO TINTO** HAVE EXPLORED THE PROJECT, 40 DRILL HOLES ON PROPERTY
- PART OF A TREND OF **UNDEREXPLORED PORPHYRY PROSPECTS** AND DEPOSITS
- 1800-1900 *PLACER PRODUCTION*, HISTORICAL MINING OF PORPHYRY RELATED MANTOS DEPOSITS AT SUNRISE MINE INCLUDING **12,500 Oz Au AND GRADES OF 6.22 g/t Au, 31.1 g/t Ag, 1.5% Cu.**

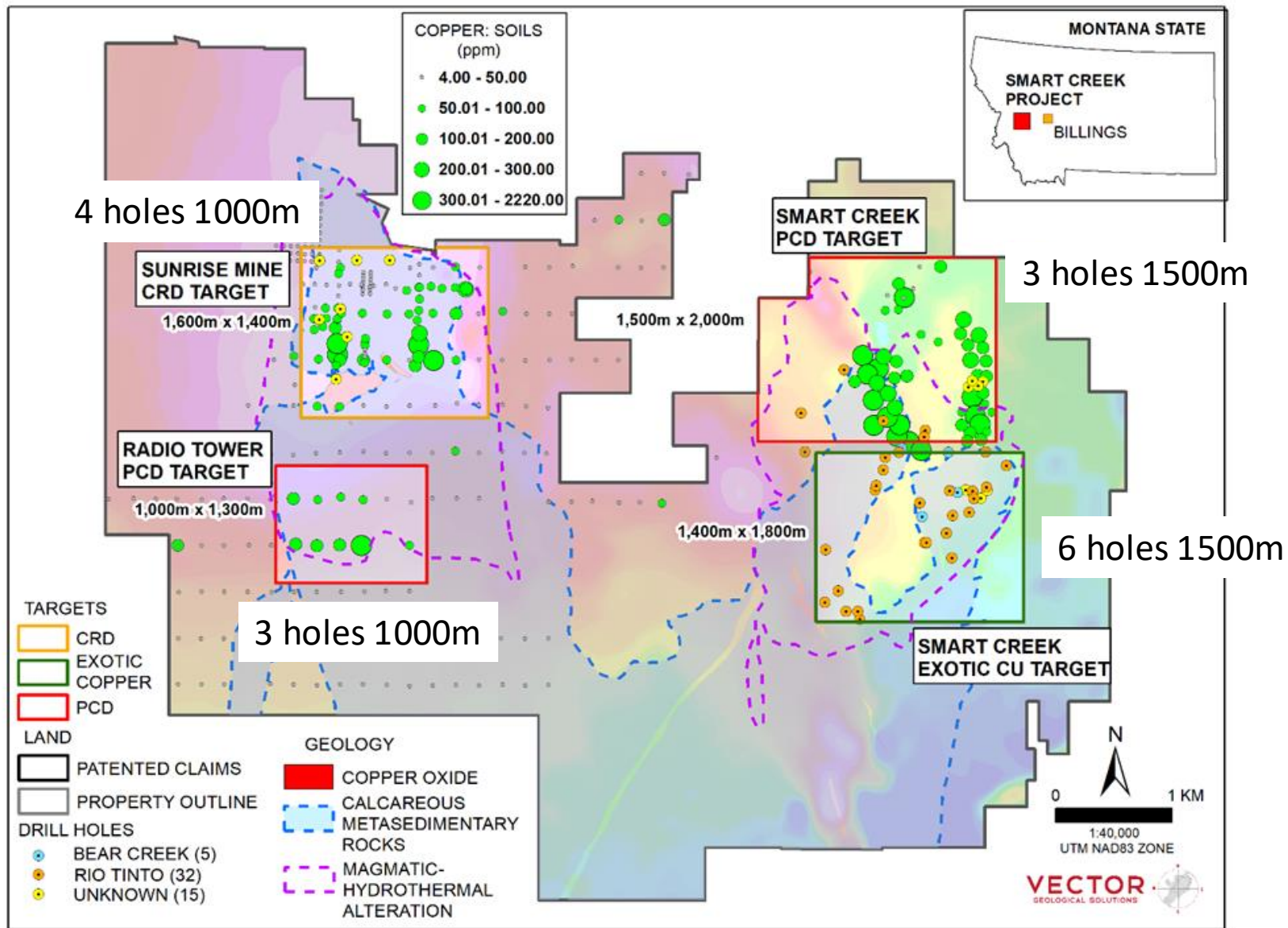


- **3 Key Tier 1 Targets** including:
  - 1) Hypogene Copper Porphyry below Rio Tinto Drilling,
  - 2) Gold-Copper replacement mineralization at Sunrise
  - 3) Copper-gold porphyry at depth at Sunrise.
- **Large, intensely altered and mineralized footprints** with up to 109.75 meters @ 0.75% Copper, 18.75 g/t Silver.
- Fast permitting in Federal and Forest Service ground in Montana (2-6 Months). Smart Creek and Sunrise include numerous **patented** mining claims which are readily permissible for drilling.
- Year-round road accessible project, **critical mass of high-quality exploration data** for targeting
- Smart Creek and Sunrise are drill ready





# MAP – DRILL METERS PER TARGET (5000m TOTAL)





# EXPLORATION BUDGET

2025 TECHNICAL PROGRAM BUDGET (CANADIAN)	PRIORITY 1-3, 1 HIGHEST	COST/UNIT	UNITS	COST CAD
<b>PRE-DRILL GEOSCIENCE - TARGET REFINEMENT</b>				
Field mapping	1	\$ 1,600.00	20	\$ 32,000.00
Field map and section production	1	\$ 1,000.00	10	\$ 10,000.00
Terraspec sampling (intrusions)	1	\$ 1,350.00	3	\$ 4,050.00
Terraspec analysis and instrument rental	1	\$ 675.00	2	\$ 1,350.00
Cut, stain slabs for Kspar; scan	2	\$ 20.00	100	\$ 2,000.00
Carbonate and calcite UV sampling	1	\$ 1,350.00	10	\$ 13,500.00
Carbonate analysis (assay + isotope)	1	\$ 162.00	150	\$ 24,300.00
UV evaluation	2	\$ 675.00	4	\$ 2,700.00
<b>SUB-TOTAL</b>				<b>\$ 89,900.00</b>
<b>ONGOING TECHNICAL</b>				
Petrographic work	2	\$ 472.50	15	\$ 7,087.50
LeapFrog modelling	1	\$ 1,200.00	40	\$ 48,000.00
Target site evaluations/check	2	\$ 5,200.00	10	\$ 52,000.00
Targeting work, data evaluation (desktop)	1	\$ 1,800.00	40	\$ 72,000.00
<b>SUB-TOTAL</b>				<b>\$ 179,087.50</b>
<b>GEOPHYSICS</b>				
IP or MT	2	\$ 100,000.00	1	\$ 100,000.00
<b>SUB-TOTAL</b>				<b>\$ 100,000.00</b>
<b>DRILLING</b>				
Drill program 5000m	1	\$ 575.00	5000	\$ 2,875,000.00
<b>SUB-TOTAL</b>				<b>\$ 2,875,000.00</b>



# MONTANA MINING JURISDICTION

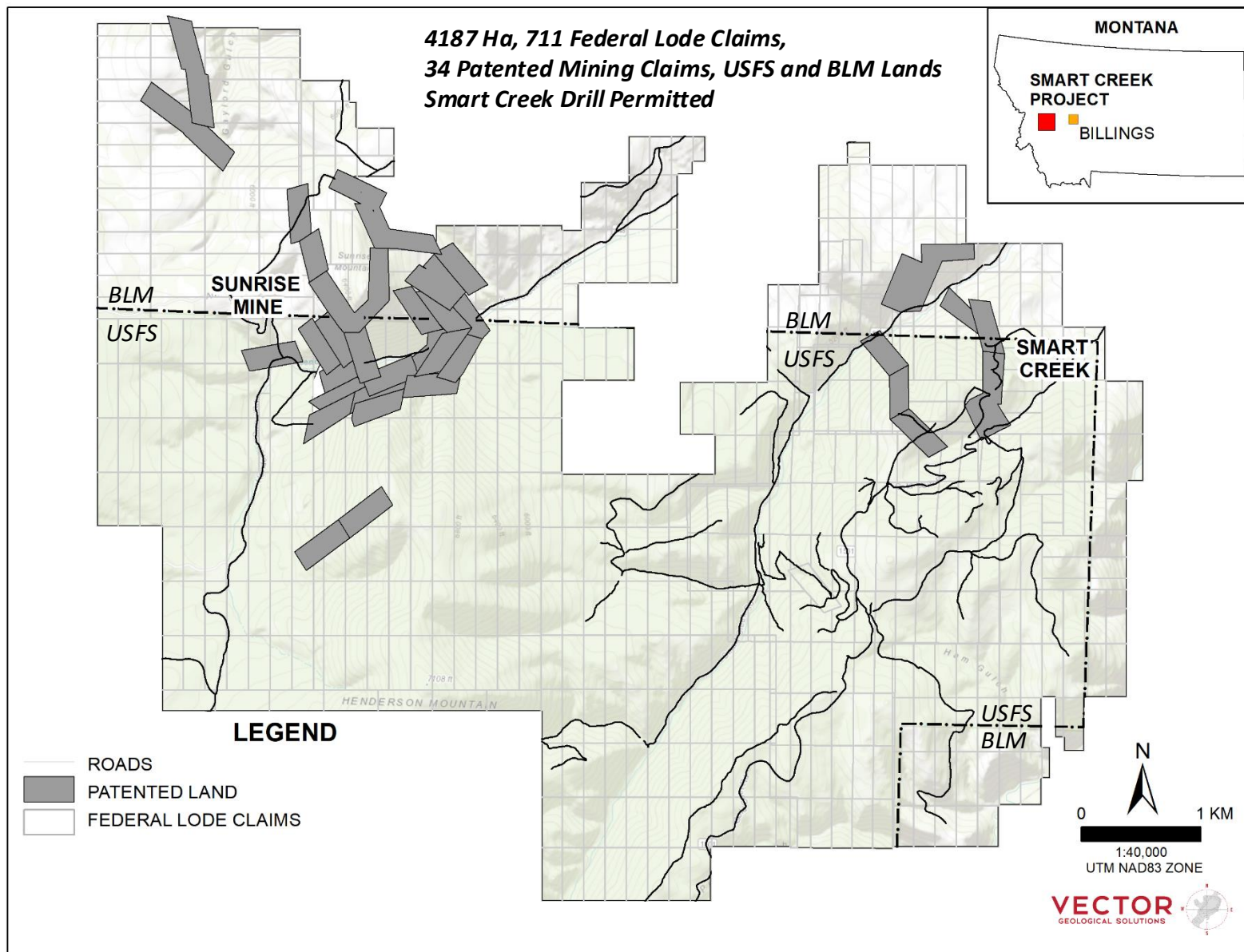
- Permitting with Forest Service – 3-4 months. Permit only the holes needed, then build on this.
- Patented Mining Claims. A notice of work is the only requirement.
- In 1998, Montana voters approved Initiative 137, which banned the use of cyanide in open-pit gold and silver mining.
- Washington Co is mining sulfide and processing to a concentrate at Butte. SX/EW deploys weak sulfuric acid. Many projects in Arizona use or propose SX/EW (Copper World, Morenci etc)
- **ACTIVE COMPANIES IN MONTANA**



**Rio Tinto**



# SMART CREEK LANDS AND ACCESS





# PROPERTY DEAL TERMS

- Norden acquires an undivided interest of up to 60% in the Property from Kennecott pursuant to the terms of the Kennecott Agreement (see table below).
- Rio Tinto has a right to claw-back 20%, leaving Norden with a 40% interest after claw-back.
- 2% NSR with buy-down to 1% in Sunrise area

Years	Months	Cash in Ground USD	Cash in Ground CAD	Notes
Year 1	13 Months	\$ 150,000	\$ 202,500	Mapping/Sampling/Gophysical Reprocessing -summer field program
Year 2	24 Months	\$ 1,000,000	\$ 1,350,000	2000m drilling, 3-5 Holes best target
Year 3	36 Months	\$ 1,000,000	\$ 1,350,000	Success driven drilling advancement
Year 4	48 Months	\$ 1,000,000	\$ 1,350,000	Success driven drilling advancement



# Management, Directors & Advisors

## ***COPPER DISCOVERY TEAM***

**Patricio Varas** - President & Director

Former CEO of Western Potash, and executive management with Far West Mining (Santo Domingo Sur). Also involved in discovery of the Diavik Diamond Mine. ***Discovery Track record.***

**Henk Van Alphen** – Director

Mr. van Alphen has had a long and successful career building exceptional value for shareholders. He has been directly responsible for raising \$200 million in the last 10 years and has been closely associated in financing an additional \$800 million. ***Discovery Track Record.***

**Dan MacNeil, MSc PGeo** – Technical Advisor

Copper and gold specialist with 25+ years of experience in North America, South America, Eastern Europe and Scandinavia. Significant contributions to gold discoveries and resource development at Eskay Creek, Donlin Creek and Round Mountain USA. ***Discovery Track Record.***

**Alan Wainwright, PhD PGeo** – Technical Advisor

Copper and gold specialist with 25+ years of mineral exploration and research experience in North America, South America, Europe and Asia. PhD completed at Oyu Tolgoi (Ivanhoe Mines; Mongolia), and discovery team member of 5 Moz Au at Coffee (Kaminak; Yukon). ***Discovery track record.***





# Thank You

For further inquiries regarding Norden Crown's copper exploration projects please contact:

**Patricio Varas**

**[pat.varas@nordencm.com](mailto:pat.varas@nordencm.com)**

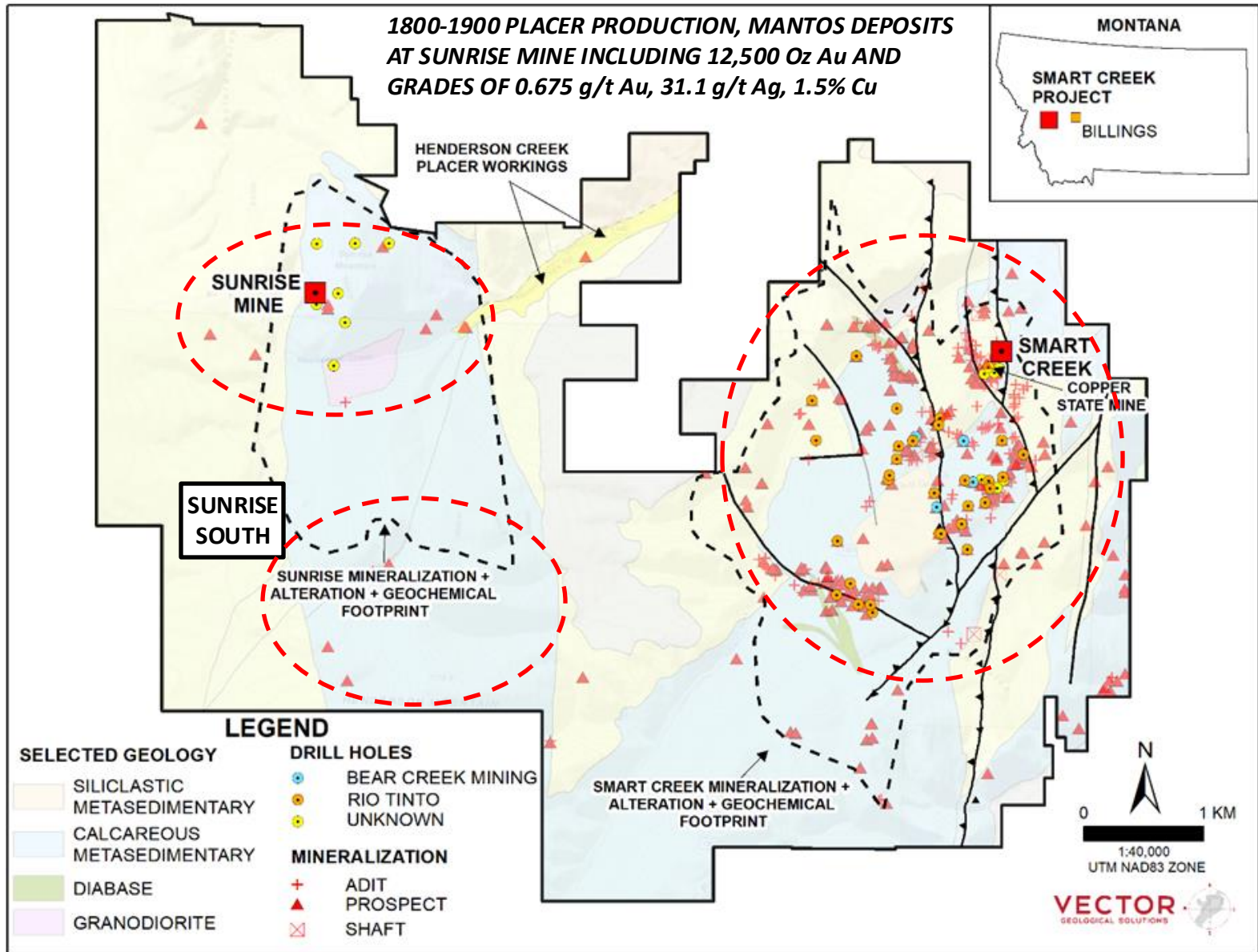




# APPENDIX

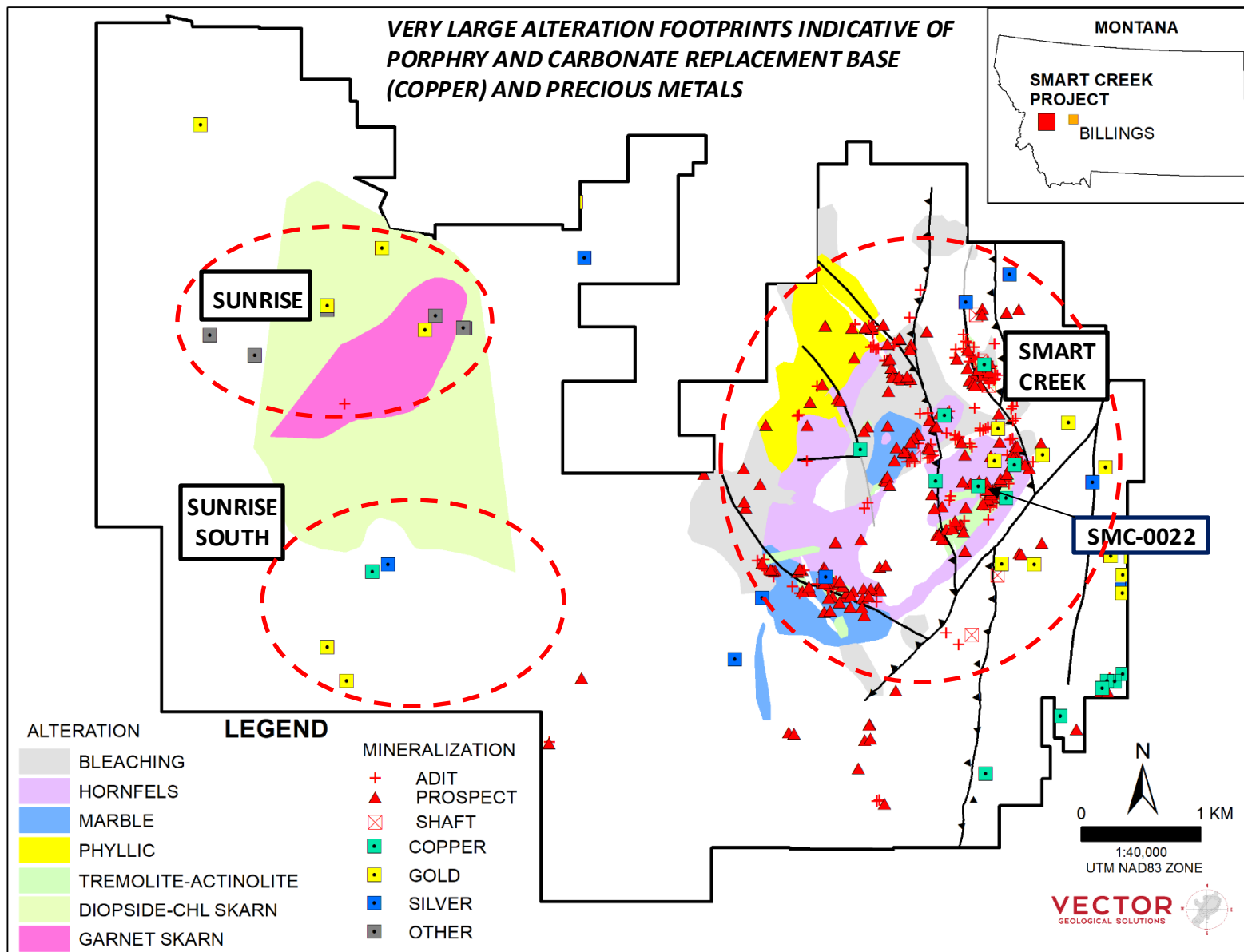
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# SMART CREEK GEOLOGY AND MINERALIZATION





# SMART CREEK ALTERATION AND MINERALIZATION



# MINERALIZATION EXAMPLES



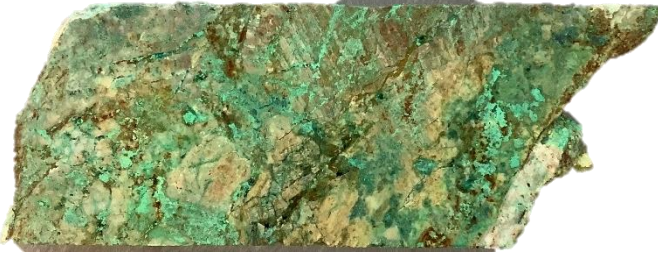
SC-026 Porphyry B-Vein (Cpy+Mo) cutting hornfelsed Helena Fm siliciclastic rocks



Reactive gabbro host rock: Qtz+cpy vein, disseminated cpy.



Porphyry B-vein array/stockwork with Cpy+Mo cpy.



High grade copper oxide mineralization, Helena Fm.



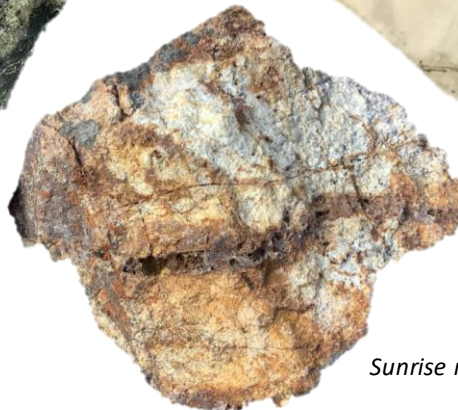
Cpy-rich porphyry B-vein stockwork, high temperature veins with biotite envelopes. Helena Fm siliciclastic rocks



Prophy B-Vein (Cpy+Mo) cutting hornfelsed Helena Fm siliciclastic rocks



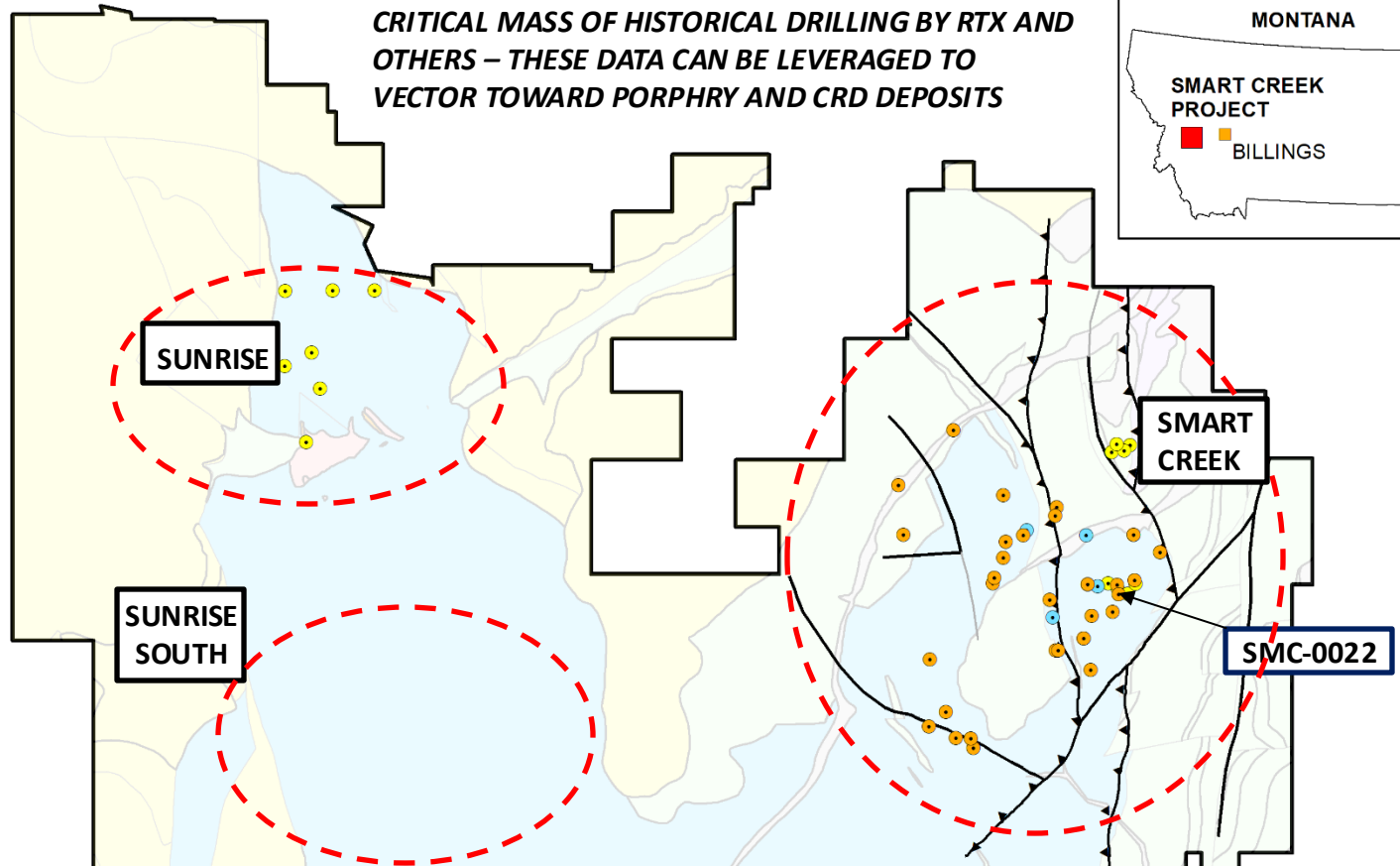
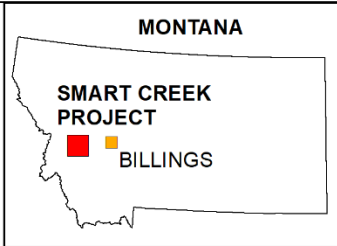
High temperature quartz vein (biotite selvage) cutting hornfelsed, altered Helena Formation .



Sunrise mine dump sample: Quartz-sericite-pyrite-FeOx alteration.

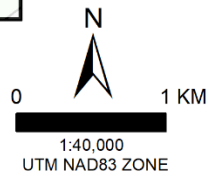
# GEOLOGY AND DRILLING

**CRITICAL MASS OF HISTORICAL DRILLING BY RTX AND OTHERS – THESE DATA CAN BE LEVERAGED TO VECTOR TOWARD PORPHYRY AND CRD DEPOSITS**



**LEGEND**

<b>IGNEOUS ROCKS</b>	<b>DRILL HOLES</b>
 INTERMEDIATE VOLCANIC	 BEAR CREEK MINING (5)
 INTERMEDIATE INTRUSION	 RIO TINTO (32)
 FELSIC DYKE	 UNKNOWN (15)
<b>SEDIMENTARY ROCKS</b>	
 CALCAREOUS	
 SILICICLASTIC	







# HISTORICAL DRILLING COMPOSITE SUMMARY

HOLE ID	FROM (m)	TO (m)	LENGTH (m)	COPPER (%)	SILVER (g/t)	COPPER GXT
SMCR0022	0.00	109.73	109.73	0.75	18.74	82.30
SMCR0022	0.00	80.77	80.77	0.96	23.50	77.54
SMCR0022	64.01	80.77	16.76	2.25	46.31	37.71
SMCR0014	0.00	35.05	35.05	0.62	11.40	21.86
Trench_C	36.00	58.00	22.00	0.71	8.78	15.60
M-3	14.60	45.70	31.10	0.48	10.02	14.99
SMCR0008	74.68	106.68	32.00	0.43	9.15	13.87
SC-01	71.63	99.82	28.19	0.48	6.57	13.53
Trench_C	0.00	24.00	24.00	0.46	12.11	11.03
M-1	0.00	10.70	10.70	0.96	6.35	10.25
SMCR0004	193.00	215.00	22.00	0.45	9.65	9.94
SMCR0023	74.00	103.50	29.50	0.34	7.70	9.93
SC-01	190.32	216.62	26.30	0.34	6.78	8.88
M-2	6.10	36.60	30.50	0.29	6.13	8.77
SMCR0002	1046.00	1078.00	32.00	0.26	3.29	8.22
Trench_A	14.00	36.00	22.00	0.37	7.51	8.21
SC-01	221.28	233.78	12.50	0.62	9.78	7.74
SMCR0001	110.66	124.00	13.34	0.56	14.24	7.43
M-1	33.50	54.30	20.80	0.32	6.14	6.58
SMCR0002	1026.00	1042.00	16.00	0.39	4.43	6.18
SMCR0001	41.00	55.00	14.00	0.41	12.87	5.79
SMCR0026	199.00	216.60	17.60	0.32	3.87	5.66
SMCR0026	248.50	274.25	25.75	0.22	2.31	5.62
SMCR0004	173.00	187.00	14.00	0.39	7.96	5.43
SMCR0001	85.21	107.00	21.79	0.24	7.56	5.30
SMCR0015	13.72	22.86	9.14	0.58	11.88	5.28
Trench_D	342.00	364.00	22.00	0.23	2.69	4.98
SC-02	94.49	118.87	24.38	0.20		4.91
SMCR0007	45.72	60.96	15.24	0.32	8.67	4.83
SMCR0009	27.43	45.72	18.29	0.26	3.90	4.73
SMCR0004	129.00	139.00	10.00	0.44	8.93	4.44
SMCR0018	83.82	102.11	18.29	0.24	3.30	4.38
SC-05	274.32	286.51	12.19	0.33		4.07

HOLE ID	FROM (m)	TO (m)	LENGTH (m)	COPPER (%)	SILVER (g/t)	COPPER GXT
SMCR0018	24.38	35.05	10.67	0.36	8.43	3.81
SMCR0002	124.00	129.70	5.70	0.63	10.77	3.62
SMCR0025	194.00	207.82	13.82	0.26	4.38	3.60
M-4	11.40	24.10	12.70	0.28	5.20	3.57
SMCR0018	117.35	138.68	21.33	0.17	2.98	3.55
SMCR0014	41.15	53.34	12.19	0.29	5.29	3.53
Trench_B	200.00	208.00	8.00	0.43	13.05	3.46
SMCR0008	44.20	53.34	9.14	0.38	5.71	3.45
SMCR0026	64.00	86.00	22.00	0.15	2.01	3.35
SMCR0018	146.30	163.07	16.77	0.20	2.90	3.33
M-1	14.90	29.00	14.10	0.23	4.58	3.31
SMCR0025	170.94	178.53	7.59	0.43	6.44	3.23
SMCR0009	57.91	71.63	13.72	0.23	4.23	3.22
SMCR0015	51.82	65.53	13.71	0.23	4.73	3.14
Trench_A	0.00	10.00	10.00	0.30	7.49	3.01
SC-05	292.61	304.80	12.19	0.23		2.79
SMCR0024	139.00	147.29	8.29	0.32	6.36	2.68
Trench_D	306.00	318.00	12.00	0.22	3.31	2.64
M-1	77.70	82.30	4.60	0.57	15.99	2.61
SC-02	126.49	135.64	9.14	0.27		2.46
SC-01	106.07	113.69	7.62	0.31	3.94	2.39
Trench_B	152.00	158.00	6.00	0.40	5.27	2.38
SMCR0009	0.00	6.10	6.10	0.38	9.03	2.32
SMCR0009	12.19	19.81	7.62	0.30	4.85	2.28
SC-02	152.40	161.54	9.14	0.23		2.07
SMCR0018	108.20	112.78	4.58	0.44	6.81	2.01
SMCR0008	60.96	68.58	7.62	0.26	5.75	2.00
SMCR0002	1120.00	1132.00	12.00	0.17	1.91	1.99
Trench_B	218.00	226.00	8.00	0.25	7.20	1.98
SC-02	167.64	173.74	6.10	0.32		1.95
SMCR0018	169.16	178.31	9.15	0.20	3.76	1.86
Trench_B	244.00	252.00	8.00	0.23	5.73	1.81
SMCR0009	94.49	105.16	10.67	0.15	3.67	1.65

# RTP MAGNETICS AND DRILLING

