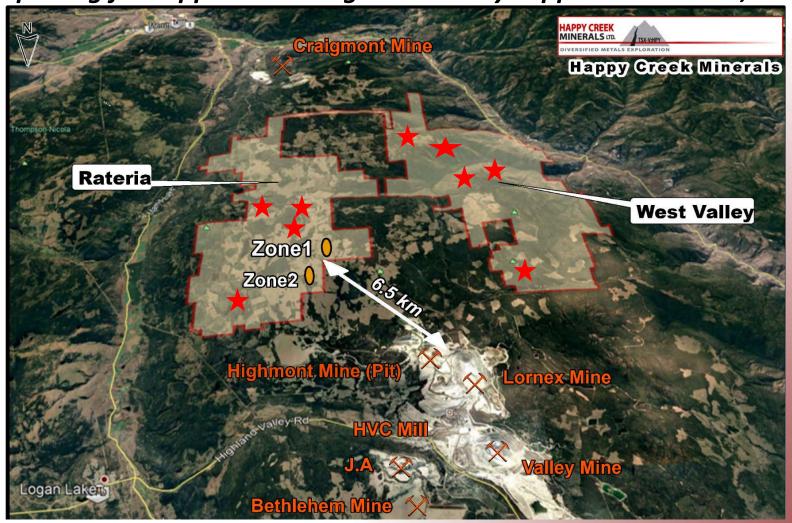




The Rateria and West Valley Property

Exploring for copper in the Highland Valley copper district B.C., Canada



Facing South



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Under NI43-101 (2001), the reader is cautioned that results or information from an adjacent property does not infer or indicate similar results or information will or does occur on the subject property. Historical information from the subject or adjacent property cannot not be relied upon as the Company's QP, a term which was created and defined under NI-43-101 has not prepared nor verified the historical information.



MANAGEMENT

David Blann, P.Eng, President, CEO, Director

Mr. Blann has engaged in precious and base metal exploration, development and production stage projects for 30 years with a background in mining engineering technology and geological engineering. He has experience as Director and VP Exploration for several Jr. public companies, and is the founder of the Company in 2005.

Richard Lee, CMA, Chief Financial Officer

Mr. Lee has spent the past 30 years in public corporate accounting practice with and for publicly listed TSX companies, and has a wealth of financial, accounting and business experience. Mr. Lee has been involved with numerous startup companies in Canada and those registered with the SEC in the United States.

Walter Segsworth, Director, Chair

Walter Segsworth has over 40 years of experience in mining in Canada and overseas and has served as a senior officer of several mining companies including Westmin Resources, where he was President and CEO, and Homestake Mining Company, where he was President and COO. Mr. Segsworth is currently lead independent director of Pan American Silver and a director of Sabina Gold & Silver Corporation. Mr. Segsworth is past Chairman of both the Mining Associations of British Columbia (BC) and Canada and was named B.C.'s Mining Person of the year in 1996.

Rodger Gray, Director

Mr. Gray has over 20 years of experience as a stockbroker and officer of an IDA member firm. Mr. Gray is currently with Wellington-Altus Securities in Toronto, and was until recently, the President and Chief Executive Officer of Toll Cross Securities Inc., a Toronto-based, full-service broker dealer specializing in the junior resource sector. Mr. Gray has previously acted as a Director and Vice-President investment banking, institutional equities, with First Associates Investments Inc. and prior thereto as President of St. James Securities Inc. Mr. Gray is a graduate of Laurentian University.

Paul Berndt, Director

Mr. Berndt is a resource development executive with extensive experience in taking projects to production, in particular, tungsten projects. He has a background in mineral process engineering and over 45 years' experience. His expertise includes public company management roles, project development and process engineering as well as stakeholder relations. He has managed many small to medium-sized projects from conception to production, with attention to safety and sound environmental practices.

Michael Cathro, P. Geo., Director

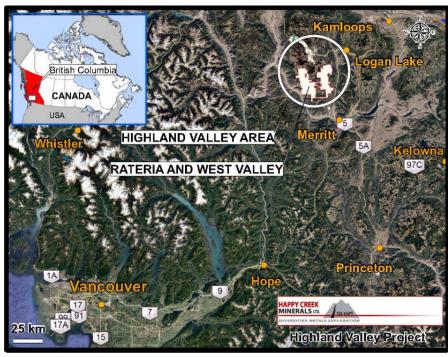
Mr. Cathro's career includes exploration with major and junior resource companies and 17 years with the B.C. Ministry of Energy and Mines in technical and management roles. Mr. Cathro has served as VP Exploration or Director of several Jr. resource companies.

Sassan Liaghat, PhD, Project Manager/ Senior Geologist

With a background in technical research, MDRU at UBC, Mr. Liaghat has experience as an exploration geologist with several companies including NovaGold Resources and the HDI Group. Mr. Liaghat performs project field management roles and manages the Company's geological database and GIS systems.

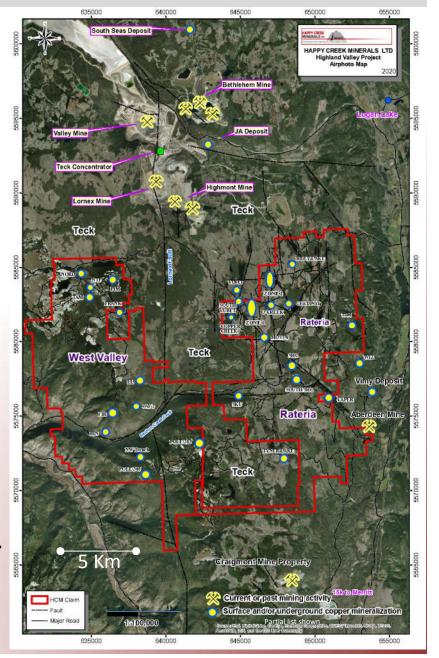


LOCATION



100% Owned Rateria & West Valley Property

- In Canada's best porphyry copper district
- Adjoins the Highland Valley Copper mine property
 - Canada's largest copper mine- 1% of global copper
 - Approximately 140,000 tonnes/day mill throughput
 - **50** years of continuous operation
- Past-producing Craigmont copper-iron skarn mine to the south.
- Excellent infrastructure, year-round exploration
- First to assemble this 244 sq km land package.
- Low cost exploration in a highly productive geological setting.





HISTORY

1970 Highland Valley Mineral Claims

Discovery time of the current mines

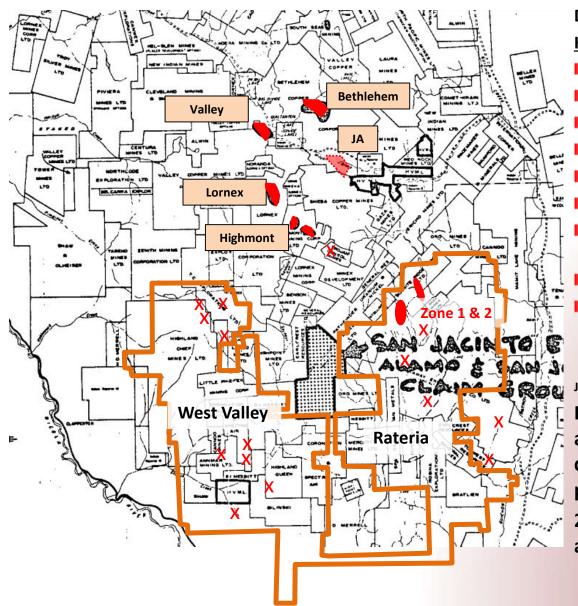
<u>Historical exploration was affected by:</u>

- Multiple claim owners
- Fragmented claim shapes
- Generally small claim size
- Extensive glacial till cover (few outcrops)
- Densely tree-covered (no GPS location)
- More limited/difficult road access
- Percussion holes very shallow- many did not get through glacial till.
- Soil geochemistry poor in thick glacial till
- Older induced polarization geophysics
 - low-power, less sensitive instruments
 - Poor penetration in thick glacial till
 - Low pyrite system produces weak anomalies

Just 1.0% sulphide (0.5% chalcopyrite+ 0.5% bornite) = 0.49% Cu

In 2001, the copper price dropped to around \$0.60/lb and many claims were dropped- several claims re-staked by prospectors.

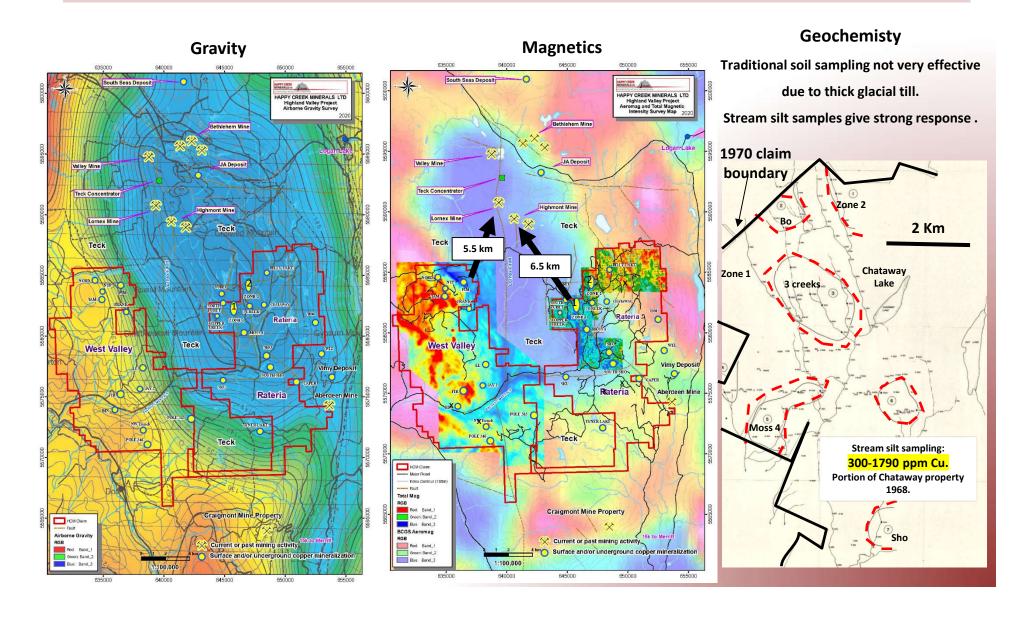
2004-2005, Happy Creek (private) begins acquiring property- now 244 sq km.





FEATURES OF THE HIGHLAND VALLEY DISTRICT

World class discoveries do happen in previously explored areas. They can be larger and higher grade than expected.





HIGHLAND VALLEY GEOLOGY

The Guichon Batholith has generated several billion tonnes of reserves and resources within 5 large porphyry copper deposits.

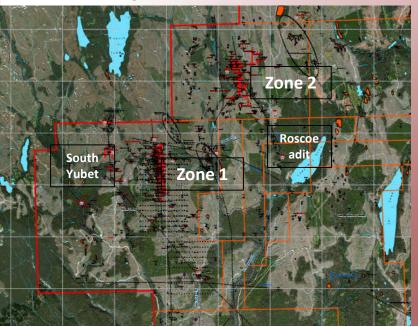
Hosts rocks are mainly Bethsaida, Skeena and Bethlehem phases which also occur on Happy Creek's property.

The former Craigmont copper mine to the south is a skarn.

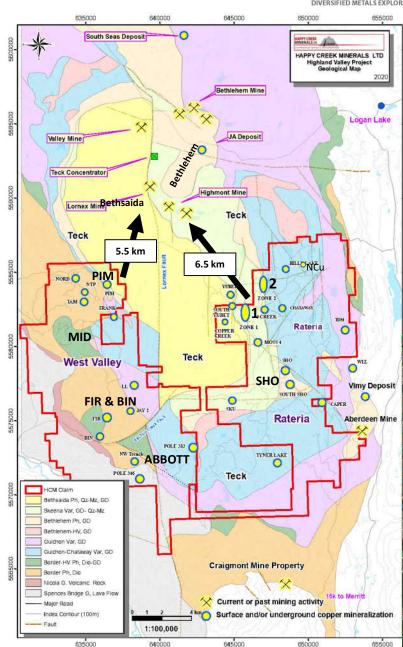
Batholith-hosted calc-alkaline porphyry systems are relatively deeply formed and can produce among the largest deposits having variable styles and depth of formation.

Zone 1 and 2 were found by recognizing geological relationships and drilling modern induced polarization geophysical targets with less than 20 metres of glacial till.

Happy Creek has around 25 known copper prospects that warrant more detailed investigation.



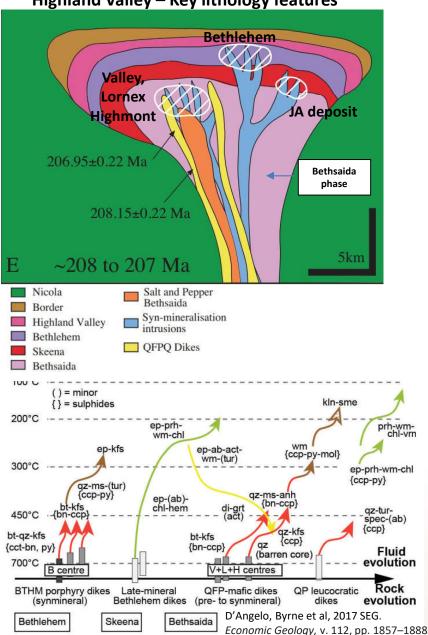
Recent logging has improved access and operating conditions.



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Highland Valley – Key lithology features

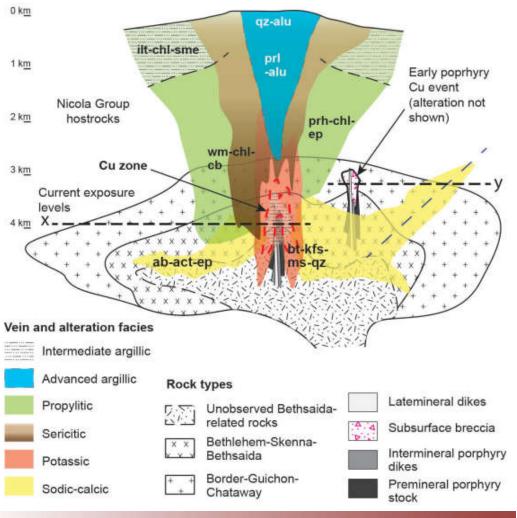


HIGHLAND VALLEY GEOLOGY

Highland Valley recent research (2017)

Improving geological understanding of this district.

Assists interpretation and vectors toward copper centers.



Byrne, K., Lesage, G, Gleeson, S.A. and Lee, R.G. (2017): Geoscience BC, Report 2017-1, p. 213-222

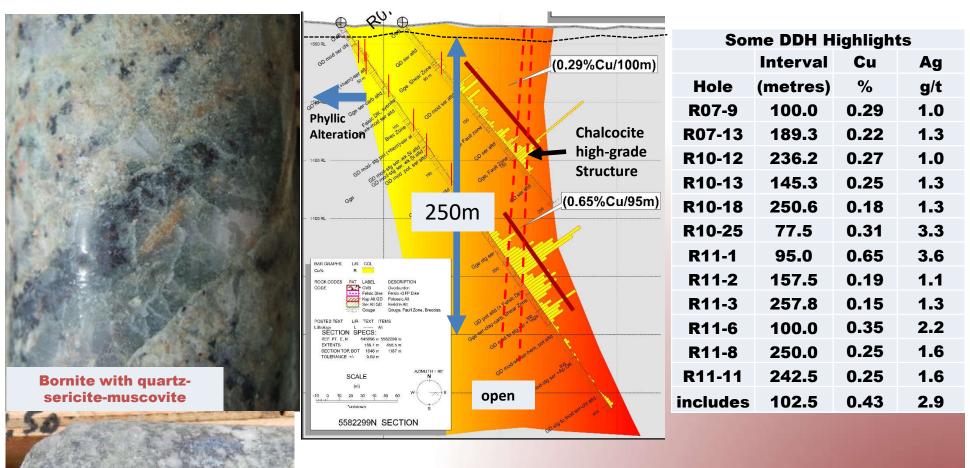
ZONE 1 AND SOUTH YUBET HAPPY CREEK MINERALS LTD. DIVERSIFIED METALS EXPLORATION Yubet prospect ★ (Teck)₆₄₄₈₀₀ 645000 645200 645400 645600 645800 646000 646200 646400 5582800 South Yubet boundary Happy Creek Minerals Ltd. 1.35% Cu, 12 g/t Ag /7.5m 1.69% Cu, 30 g/t Ag/7.5m Highland Valley Project Rateria Property, Zone 1 & Yubet Projection of Copper Mineralization in Surface South Yubet Zone Zone 1 R06-02 5582400 1.2km R11-09 R11-12 Zone 1 hosted in Skeena phase cut by several Fp dikes. Argillic-phyllic 0.82%Cu, 4.7 g/t Ag /5.0m DDH chalcocite dominant near surface and more quartz-muscovite K Granodiorite outcrop feldspar with bornite-chalcocite+ Access Road chalcopyrite and moly at depth. A large alteration footprint **ALTERATION ZONES** Ser Gouge R11-10 Ser-Epi-Chl Ser-Qtz-K-spar Mainly Ser PLAN SPECS: Qtz-Mus-Epi-Ser REF. PT. E. N 645900 m 5582000 m **EXTENTS** 2879 m 2474 m Ser-Chl-Hem Chl-Epi-K-feld-Ser Full Plan - Traces 25 50 Meters Ser-Kaol R11-31 5581600 Weak Ser 1:5,000 R10-21 644800 645800 646000 644600 645000 645200 645400 645600 646200 646400

Chalcocite
Qtz-phen-ser-kaol



Low pyrite, high-grade chalcocite-bornite minerals.

Metallurgical testing: high recovery, clean concentrate - 39.6% copper 398.6 g/t silver.



Zone 1 drill-defined for 1.2km X 50-150m wide X 350m depth. Potential for the potassic (centre) copper zone nearby.

Mineralized zone at Valley deposit extends for over 1km vertical depth.

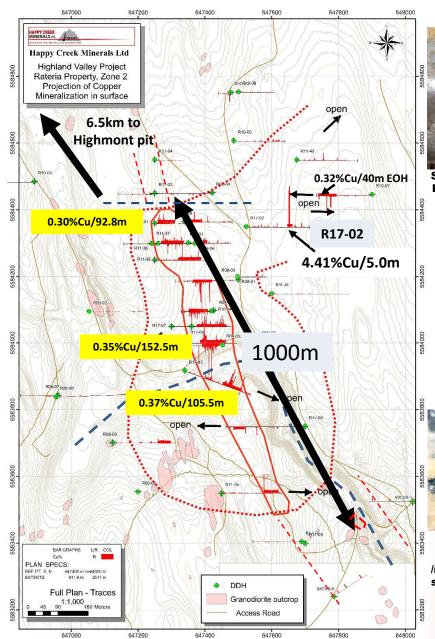
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ZONE 2 DISCOVERY

Copper-gold-moly-rhenium Selected intervals shown to illustrate mineralization styles.

Table next slide



Sericite altered Bethlehem phase. by quartz-bornite veinlet.



Felspar phyric dike cut and offset R17-02 Mainly chalcocite: Portion of 5.0m 4.41% Cu, 20.0 g/t Ag, 0.21 g/t Au, 0.031% Mo, 6.86 g/t Re



R17-05 chalcocite-bornite qtz-ser-clay Portion of 2.5m 0.89% Cu, 0.38 g/t Au, 0.003% Mo, 0.54 g/t Re



Bornite in quartz green mica, sericitemuscovite veinlet and selective replacement of chlorite altered mafics.



R11-36 K-spar-qtz-sericite bornite veins. Portion of 2.5m with 1.11% Cu, 0.46 g/t Au, 0.031% Mo, 0.80 g/t Re





ZONE 2 DDH Highlights						
Zone 2	Interval	Cu	Ag	Мо	Au	Re
Hole	(m)	%	g/t	%	g/t	g/t
R08-01	113.0	0.33	1.48	0.002	0.05	N/A
R08-05	126.0	0.46	1.71	0.008	0.10	N/A
R09-06	92.4	0.12	1.23	0.011		0.76
includes	20.2	0.18	0.80	0.048	0.04	3.45
R09-07	48.0	0.30	1.60	0.002	0.07	0.26
R12-01	92.81	0.30	1.50	0.005	0.15	0.02
includes	12.5	0.63	3.2	0.001	0.66	0.01
R12-02	152.5	0.35	1.70	0.004	0.06	0.57
includes	32.5	0.91	4.0	0.011	0.12	1.83
R17-02	5.0	4.41	20.0	0.031	0.21	6.86
R17-05	105.5	0.37	1.90	0.005	0.14	0.63
R17-08	82.5	0.29	1.25	0.003	0.06	0.17
and	66.0	0.35	1.64	0.002	0.02	0.23

Up to 16.8 g/t Rhenium (Re) with 0.138% Mo/2.5m

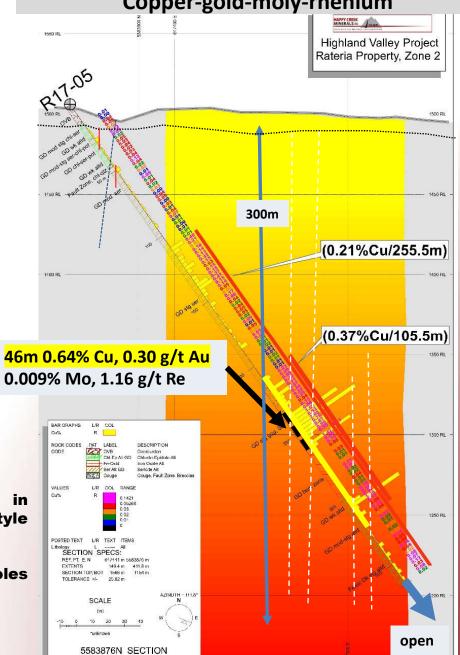
Presence of gold and high rhenium enrichment in molybdenite is similar to B.C. copper-gold porphyry style copper deposits. Different than other HV deposits?

Zone 2 contains encouraging grade with drill holes ending in mineralization.

Potential for a large mineral system.

ZONE 2 DISCOVERY

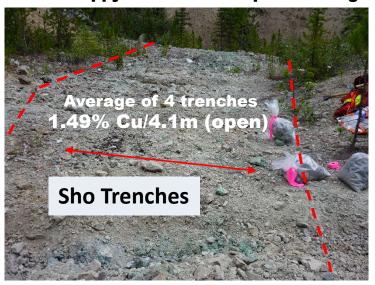
Copper-gold-moly-rhenium

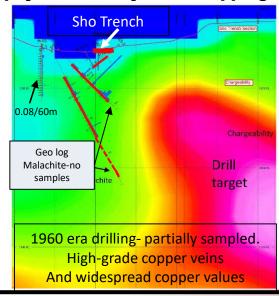




RATERIA PROPERTY-OTHER PROSPECTS

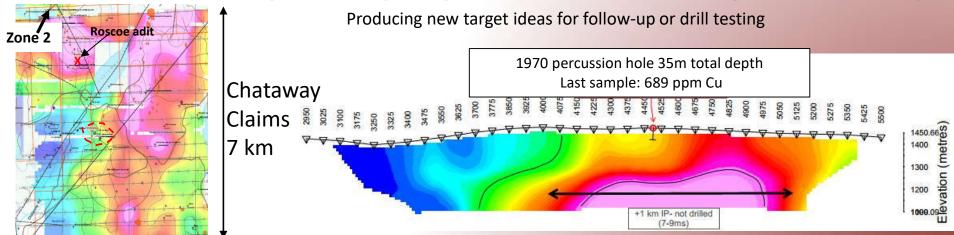
Sho prospect: Historical work developed a sizeable area of mineralization, but work stopped in 1972. Happy Creek follow-up includes geophysical surveys and mapping – now a 1.5 km long target.







2017 acquired Chataway claims adjoining Rateria. 2019 re-processing of 1993 IP survey

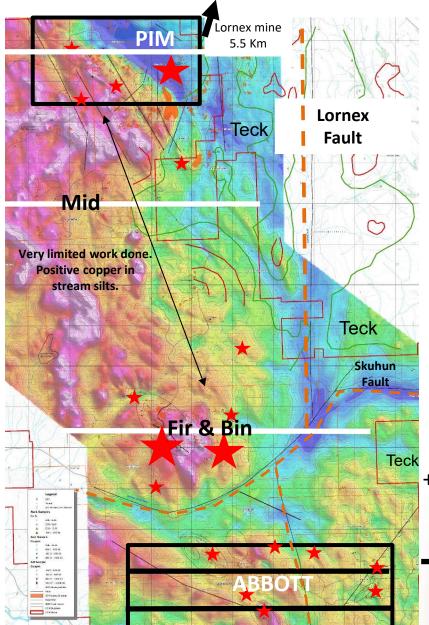


Happy Creek continues to generate and prioritize/rank new targets

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WEST VALLEY



- The Lornex fault extends south from the giant Lornex and Valley deposits to the north.
- · Historically intermittent, cursory work.
- Patchwork irregular shaped claims.
- Large gaps without any exploration.
- Under-appreciated?
- Area is largely covered by glacial till. Strong copper in stream sediments.
- More felsic, younger age and porphyry dikes occur in proximity with ★copper showings.
- At surface, lower magnetic response (green-blue color) reflect younger intrusive phases and / or hydrothermal destruction of magnetite.
- 2019 Geology & IP Geophysics at Abbott and PIM
- +2019 Inversion model of airborne magnetic survey
 - Magnetic inversion sections presented
 - IP chargeability sections presented



Pattern area= ...

low modal ---

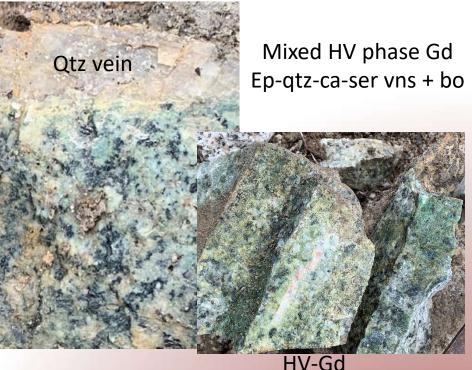
confidence ----



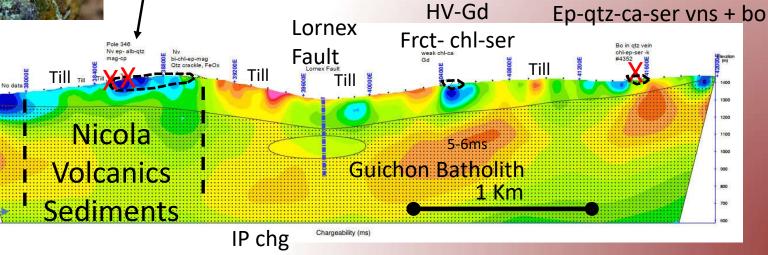
WEST VALLEY- ABBOTT AREA Line 71200N (south end)

New: Pole 346 Nicola volcanic breccia and sediments: chl-ep-(alb) magnetite-quartz veins-cp Traced for 1 km at surface- potentially 2km





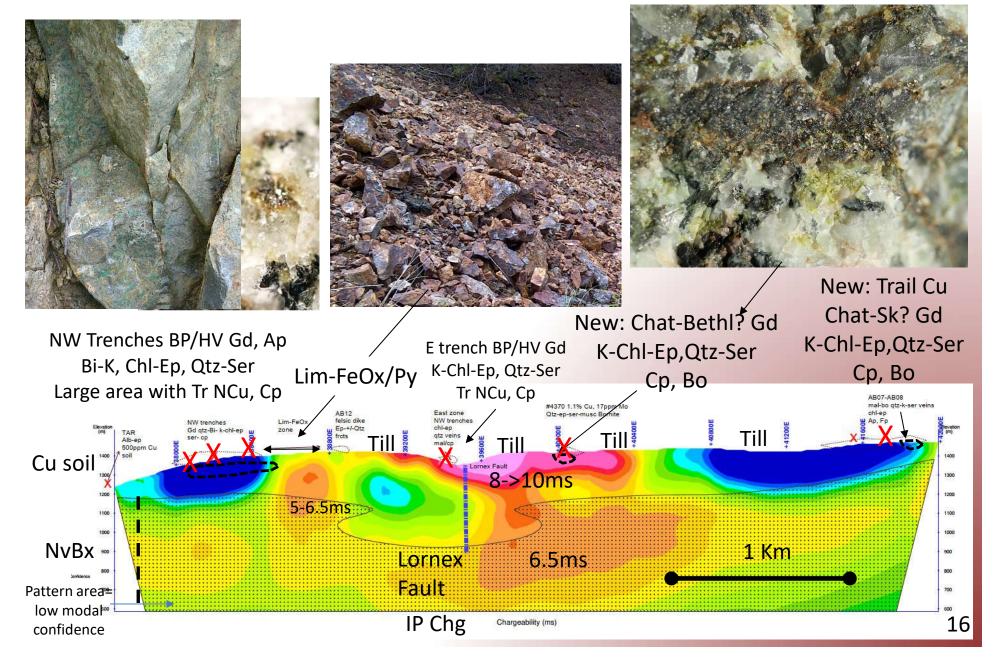
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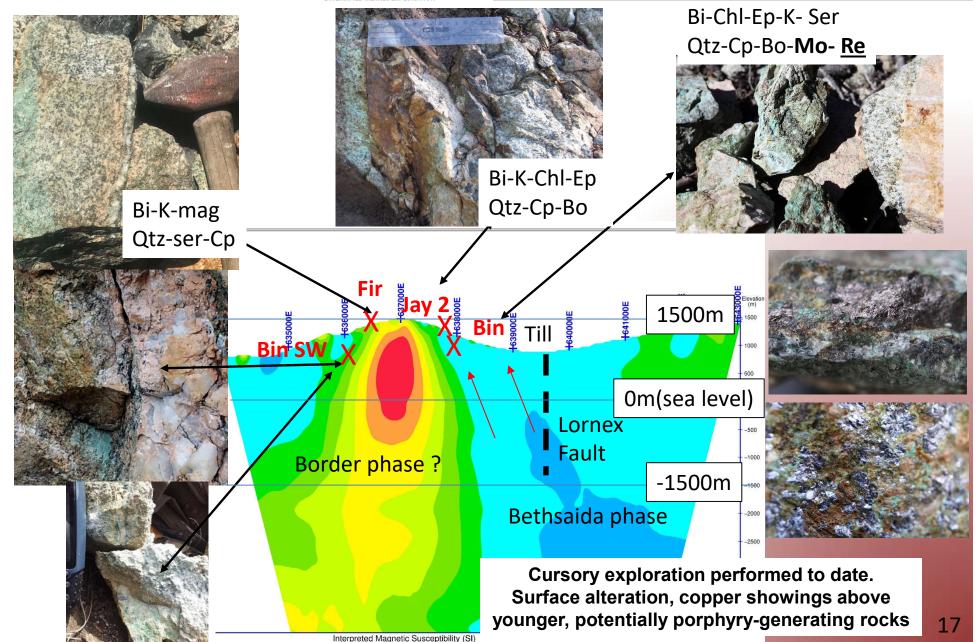
WEST VALLEY- ABBOTT AREA Line 72000N (north end)



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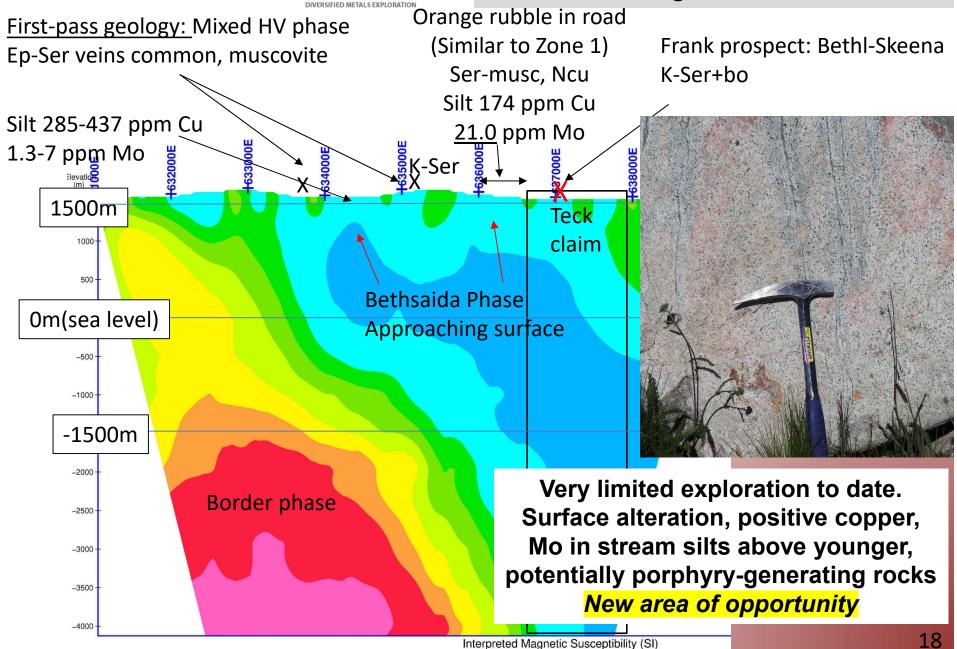
WEST VALLEY- FIR & BIN PROSPECT Line 75300N Magnetics model section



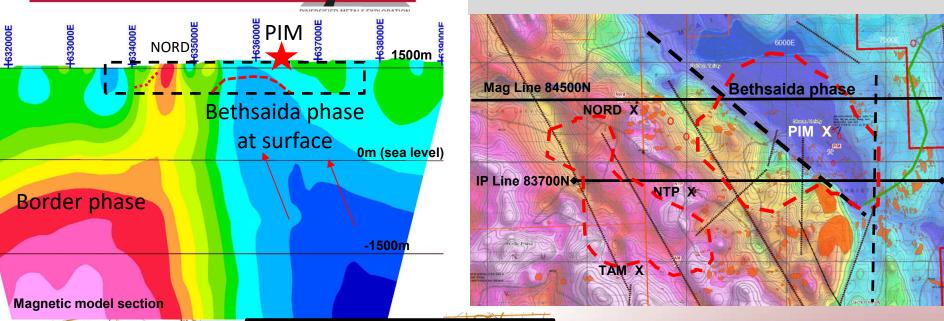




WEST VALLEY- "MID" SECTION Line 81000N Magnetic model section



WEST VALLEY- PIM PROSPECT



1 Km

-400m CHG plan

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4700N

4500N

4300N

410 N

390 N

3700N

3300N

3100N

2900N

277ppmCu /252m

335ppmCu ____/261m

325ppmCu

/181m

Work done in 2019 located new copper showings at the PIM prospect followed by an IP survey to expand on a previous survey and cover this area.

Bethsaida-Skeena phase a magnetic low, positive IP, rock and soil anomaly at surface.

PIM is thought to have potential for a new Highland Valley copper deposit and further work is planned to define drill sites.

Currently, little is known about the area around the positive IP anomaly near the TAM prospect. Previous drilling at NTP and Nord prospects returned long intervals of low-grade copper values.





WEST VALLEY- PIM PROSPECT NEW Copper showings







- Rateria and West Valley: First time this 244 Sq Km contiguous property is assembled
 - in Canada's best porphyry copper district: 5 deposits achieving commercial production
 - Deposit targets range from >150mt to over 1 billion tonnes.
- Zone 1 and 2 are significant <u>new copper prospects</u> with resource potential: under-explored
 - Zone 2 has positive gold & high rhenium enrichment in molybdenite- something different!
- Modern exploration tools assist geological understanding and confidence in targeting
- West Valley area historically under-appreciated for copper potential: that is changing.
 - Potential for multiple new discoveries- new target generation progressing well







A 100% owned, quality copper exploration asset



January 11, 2020

Shares outstanding: 105,029,712

Warrants: 641,820 @ avg. \$0.17

Options: 4,250,000 @ avg. \$0.21

Year High: \$0.17

Year Low: \$0.075

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