

# Exploration and mining in the Northwest Region, British Columbia



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Recommended citation: Corcoran, N., 2024. Exploration and mining in the Northwest Region, British Columbia. In: Provincial Overview of Exploration and Mining in British Columbia, 2023. British Columbia Ministry of Energy, Mines and Low Carbon Innovation, British Columbia Geological Survey Information Circular 2024-01, pp. 55-83.

## 1. Introduction

The Northwest Region has a long history of mining and is prospective for a wide range of commodities including precious metals, base metals, and coal. This region includes about 263,000 km<sup>2</sup> of British Columbia, approximately 25% of the province (Fig. 1). Mineral exploration is mostly concentrated in a loosely defined area in the northern part of the region popularly known as the 'Golden Triangle'. Several other exploration projects were in operation to the southeast. Exploration remained strong for copper and precious metals in the Northwest Region. Advanced projects supported by mid-tier and major companies remained stable and make up a large portion of the exploration budget. Decreased financing was noticed in grassroots and early-stage exploration projects for junior companies due to lower metal prices and market uncertainties with higher interest rates.

Estimates for exploration expenditures, drilling programs, and other metrics were captured in the British Columbia Mineral and Coal Exploration Survey, a joint initiative of the Province of British Columbia Ministry of Energy, Mines and Low Carbon Innovation, the Association for Mineral Exploration in British Columbia, and EY LLP. For the Northwest Region, exploration expenditures are estimated at \$444.1 million. The estimate for exploration drilling is 439,610 m (Clarke et al., 2024; EY LLP, 2024).

The Northwest Region contains two operating metal mines (**Brucejack** and **Red Chris**). The region also has six proposed metal mines (**Dome Mountain**, **Galore Creek**, **Kitsault**, **KSM**, **Kutcho**, and **Red Mountain**), and one proposed coal mine (**Tenas**). One mine development project is currently under construction (**Premier Gold**). Numerous grass roots, early- to advanced-stage projects were tracked, and selected projects are discussed below. Large industrial projects in the region are driving demand for aggregate, and placer gold mining continues throughout the region. The region has a long history with small-scale jade mining, both in situ and placer. However, in 2021 a provincial government Order in Council was announced restricting jade mining which has been extended to May 11, 2024.

Noteworthy acquisitions, earn ins, and proposed mergers

were announced in 2023. The most significant is the acquisition of Australian owned Newcrest Mining Limited by an American company, Newmont Corporation, for \$17 billion. Another large merger was Benchmark Metals Inc. and Thesis Gold Inc. merging under the Thesis Gold Inc. title, combining the adjacent **Ranch** and **Lawyers** precious metals projects. Some large financings were completed such as Skeena Resources Limited receiving \$84.2 million and net smelter royalty agreements for a total of \$108 million at Eskay Creek, Tudor Gold Corp.'s financings totalling \$29 million, and Seabridge Gold Inc. completing a 1.2% net smelter royalty agreement with Sprott Streaming for US\$150 million at the **KSM** project.

## 2. Geological overview

Metallogeny in British Columbia is intimately linked to the tectonic evolution of the Canadian Cordillera, first as an accretionary orogen consisting of allochthonous terranes that were welded to, and deformed with, the western margin of Ancestral North America, primarily in the Jurassic, then as the site of post-accretionary tectonism and magmatism (e.g., Nelson et al., 2013). The Northwest Region provides a transect across the Cordilleran orogen (Fig. 1) with several distinct tectonostratigraphic terranes. From east to west the region is underlain by: 1) autochthonous and parautochthonous carbonate and siliciclastic strata deposited on the flank of Ancestral North America (Laurentia); 2) the Intermontane terranes, including the Slide Mountain terrane (back-arc basin); the Yukon-Tanana terrane (a rifted Devonian pericratonic arc); the Quesnel and Stikine volcanic arc terranes (formed outboard of Ancestral North America starting in the Late Paleozoic and accreted in the Middle Jurassic); and the Cache Creek oceanic terrane, which intervenes between Quesnellia and Stikinia; 3) the Alexander terrane; 4) post-accretionary rocks; and 5) younger cover rocks. The allochthonous terranes initially accreted to each other and to western North America in the Jurassic. Since then, the region has been intruded by post-accretion plutonic suites and covered, in part, by Jurassic and younger syn- and post-accretionary siliciclastic deposits. For details about the geology, metallogeny, and tectonics of the Northwest Region see Nelson et al. (2013) and Colpron and Nelson (2021).



### 3. Mines and quarries

In 2023, two metal mines operated in the Northwest Region (**Brucejack** and **Red Chris**). One industrial mineral mine (**Anyox**) and numerous aggregate operations supplied large-scale industrial projects and local townships throughout the region (Fig. 1; Tables 1, 2). Placer gold mining is ongoing, predominantly in the Atlin and Turnagain areas.

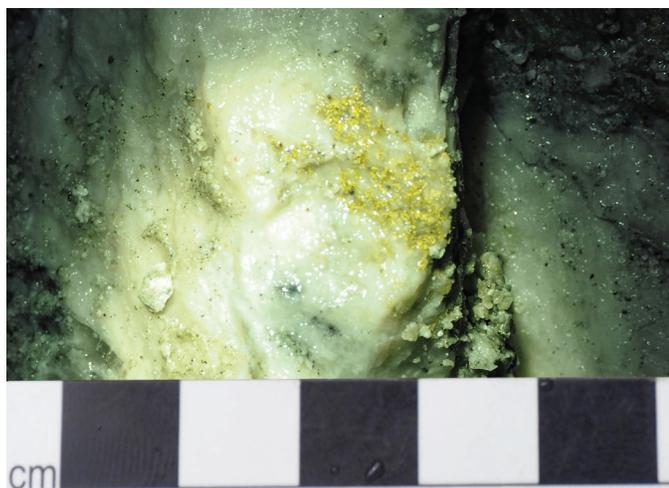
#### 3.1. Metal mines

The **Brucejack** and **Red Chris** mines operated in 2023 (Fig. 1; Table 1).

##### 3.1.1. Brucejack (Newmont Corporation)

In November, Newmont Corporation finalized the acquisition of Newcrest Mining Limited and assets included the **Brucejack** gold-silver mine. The underground mine is accessed by a 75 km all-season mining road off Highway 37. The last 12 km of the road is across the Knipple glacier. A 57 km-long transmission line built specifically for the mine supplies power. Production for the first three quarters totalled 214,023 oz of Au at a head grade of 6.3 g/t Au and 382,670 oz Ag. Work is in progress to revise ore resources and reserves estimates. As of June 2023, Newcrest reported an Indicated mineral resource estimate totalling 19 Mt grading 13.0 g/t Au and 34 g/t Ag. Probable reserves totalled 14 Mt grading 8.4 g/t Au and 32 g/t Ag.

The Brucejack ore body incorporates the Valley of the Kings (VOK) and West zones. Several other mineralized zones in phyllic-altered rocks extend across an area 5 km by 1.5 km (from south to north: Bridge, Waterloo, Shore, SG, Gossan Hill, Golden Marmot, and Hanging Glacier). Interpreted as an intermediate-sulphidation epithermal gold-silver deposit, mineralization occurs in sheeted veins, breccia veins, and vein stockworks that cut Lower Jurassic metasedimentary and volcanic rocks of the Hazelton Group. Gold and silver at both the VOK and West zones are mainly in electrum (Fig. 2) and lesser sulphosalts. Visible gold is common. Chalcopyrite, galena, and sphalerite are also common. Brownfield surface



**Fig. 2.** Electrum in quartz-carbonate vein at the Brucejack mine (Newmont Corporation).

exploration at Brucejack totalled 15,300 m in 25 diamond drill holes. Drilling at the 1080 HBx and Eastern Promises zones has expanded the VOK deposit, confirming the continuity of high-grade mineralization at depth, with potential for more resource growth at the VOK deposit. Results include 1.0 m grading 5370 g/t Au, a 38.5 m interval grading 49 g/t Au, and an 18 m interval grading 306 g/t Au.

##### 3.1.2. Red Chris (Newmont Corporation 70%, Imperial Metals Ltd. 30%)

In November, Newmont Corporation finalized the acquisition of Newcrest Mining Limited. Assets included the **Red Chris** open-pit copper-gold mine. The mine is 17 km east-southeast of the community of Iskut and is accessed from Highway 37. The Northwest Transmission Line powers the site. Production to the end of the third quarter of 2023 totalled 34,224 oz Au, 73,186 oz Ag, and 39.072 Mlbs Cu. A new mineral resource estimate (June 2023) was released with 314 Mt of Measured and Indicated grading 0.37% Cu and 0.31 g/t Au, and 10.9 Mt of Inferred grading 0.30% Cu and 0.25 g/t Au. The Red Chris underground block cave resource is reported as 957 Mt of Measured and Indicated grading 0.40% Cu and 0.46 g/t Au, and 257 Mt of Inferred grading 0.30% Cu and 0.25 g/t Au.

The deposit is hosted by the Red stock (U-Pb zircon 203.8 Ma; Rees et al., 2015), which intrudes and alters Upper Triassic Stuhini Group rocks, and is faulted against Middle Jurassic rocks of the Bowser Lake Group. Rees et al. (2015) described multiple igneous phases, alteration, and controls on mineralization.

Drilling at Red Chris totalled 29,480 m with focus on continuity and extension of the resource at the East Ridge deposit. Newmont continues to intersect high-grade mineralization with results such as 406 m grading 1.0% Cu and 1.1 g/t Au including 248 m grading 1.4% Cu and 1.6 g/t Au. A 274 m interval graded 0.45% Cu and 0.67 g/t Au including 42 m grading 1.1% Cu and 1.5 g/t Au. Future block cave underground mine operation plans are on track with early works advancing.

#### 3.2. Coal mines

In 2023, no coal mines operated in the Northwest Region. The **Tenas** project is listed as a proposed mine (Section 6.2.1.).

#### 3.3. Industrial mineral mines and quarries

Tru-Grit Abrasives (Fig. 1; Table 2) is recycling slag at the historic **Anyox** site, where slag was created from smelting copper. The slag is mined, cleaned, separated, and barged south for roof shingles and sand blasting. The material is also used to add iron into Portland cement. The operation has been active for more than 30 years and more than 2.5 Mt has been reclaimed from the 4.5 Mt abandoned by smelting operations in the 1930s.

#### 3.4. Aggregate and industrial rock quarries

Numerous aggregate and quarry operations supply sand and gravel and blasted stone for large-scale industrial projects and

**Table 1.** Metal mines, Northwest Region.

Mine	Operator (partner)	Commodity; Deposit type; MINFILE	Forecast 2023 Production	Reserves	Resource	Comments
<b>Brucejack</b>	<b>Newmont Corporation</b>	Au, Ag; Epithermal; 104B 193	285,364 oz Au, 510,227 oz Ag	Pr: 14 Mt 8.4 g/t Au, 32 g/t Ag	I: 19 Mt 13.0 g/t Au, 34 g/t Ag  Inf: 9.6 Mt 13.0 g/t Au, 13.0 g/t Ag	15,300 m in 25 diamond drill holes. Drilling at the 1080 HBx and Eastern Promises zones have expanded the VOK deposit, confirming the continuity of high-grade mineralization at depth with potential for more resource growth at the VOK deposit. Results include 1.0 m grading 5370 g/t Au, a 38.5 m interval grading 49 g/t Au, and an 18 m interval grading 306 g/t Au.
<b>Red Chris</b>	<b>Newmont Corporation 70%, Imperial Metals Corporation 30%</b>	Cu, Au, Ag; Hybrid calc-alkalic to alkalic porphyry; 104H 005	52.1 Mlb Cu, 45,627 oz Au, 97,581 oz Ag	Open pit Pr: 42 Mt 0.47% Cu, 0.40 g/t Au  Underground Pr: 585 Mt 0.45% Cu, 0.55 g/t Au	Open pit: M+I: 314 Mt 0.37% Cu, 0.31 g/t Au  Inf: 10.9 Mt 0.31% Cu, 0.26 g/t Au  Underground block cave: M+I: 957 Mt 0.40% Cu, 0.46 g/t Au  Inf: 257 Mt 0.30% Cu, 0.25 g/t Au	29,480 m of diamond drilling with focus on continuity and extension of the resource at East Ridge deposit. Drilling continued to intersect high-grade mineralization with results such as 406 m grading 1.0% Cu and 1.1 g/t Au including 248 m grading 1.4% Cu and 1.6 g/t Au. A 274 m interval graded 0.45% Cu and 0.67 g/t Au including 42 m grading 1.1% Cu and 1.5 g/t Au. Block cave underground mine operation plans are on track with early works advancing.

P = Proven; Pr = Probable; M = Measured; I = Indicated; Inf = Inferred

municipalities throughout the region (Fig. 1; Table 2). Several large aggregate pits operate near Kitimat (**Robinson Lake Trail** and **Sand Hill**) and others operate near Prince Rupert (**Ridley Island** and **Rainbow Lake South**). Owned by the Kitsumkalum First Nation, **Kalum** is an industrial rock quarry. It is the only pit in the region with a rail spur, and it supplies the Canadian National Railway Company with ballast.

#### 4. Placer operations

Placer gold mining operations have been ongoing for more than a century in the Northwest Region and continue today with a focus in the Atlin and Turnagain areas and, to a lesser extent, north of Dease Lake and near Cassiar. Due to the large number of operations and difficulty in obtaining information, these projects are not tracked.

#### 5. Mine development

When a project acquires the necessary permits including (Mines Act permit from the Ministry of Energy, Mines and Low Carbon Innovation and an Environmental Management Act permit from the Ministry of Environment) and mine construction begins, the mine development stage is reached. At this stage, these expenditures are considered construction and development costs and not exploration, so they are not input in the mineral exploration expenditures survey. The only mine development project in the Northwest Region is Ascot Resources Ltd.'s **Premier Gold** project. (Fig. 1; Table 3).

##### 5.1. Premier Gold (Ascot Resources Ltd.)

Ascot Resources Ltd. received a Mines Act permit for construction and operation of their **Premier Gold** mine project

**Table 2.** Selected industrial mineral mines and quarries, Northwest Region.

Mine	Operator (partner)	Commodity; Deposit type; MINFILE	Forecast 2023 Production (based on Q1-Q3)	Reserves	Resource	Comments
Anyox	Tru-Grit Abrasives	Slag steel	unknown	na	na	Slag is mined, cleaned, and used for roofing; sand for sand blasting.
Kalum	Kalum Quarry Ltd.	Industrial rock; Crushed rock	unknown	na	na	Drilling, blasting, crushing; production for CN Railway and others.
Rainbow Lake South	Spring Creek Aggregates Ltd.	Industrial rock; Crushed rock	unknown	na	na	Drilling, blasting, crushing; production for CN Railway and LNG projects.
Ridley Island	Terus Construction Ltd.	Industrial rock; Crushed rock	unknown	na	na	Drilling, blasting, crushing; production for CN Railway and LNG projects.
Robinson Lake Trail	Haisla & Progressive Ventures Construction Ltd.	Industrial rock; Crushed rock	unknown	na	na	Drilling, blasting, crushing; production for CN Railway and LNG projects.
Sand Hill	Terus Construction Ltd.	Industrial rock; Crushed rock	unknown	na	na	Crushing for CN Railway and LNG projects.

P = Proven; Pr = Probable; M = Measured; I = Indicated; Inf = Inferred

**Table 3.** Mine or quarry development, Northwest Region.

Project	Operator (partner)	Commodity; Deposit type; MINFILE	Reserves	Resource	Comments
Premier Gold	Ascot Resources Ltd.	Au, Ag; Epithermal; 104B 054	Pr: 3.63 Mt 5.45 g/t Au, 19.1 g/t Ag	I: 4.14 Mt 8.01 g/t Au, 35.1 g/t Ag  Inf: 5.06 Mt 7.25 g/t Au, 28.7 g/t Ag	Plant pre-commissioning is on schedule and planned to start in Q4 2023 with the first gold pour expected in early 2024. 11,886 m of exploration drilling in 87 holes. Highlight drilling results included 9.72 m grading 22.3 g/t Au and 16 g/t Ag including 1.91 m grading 98.1 g/t Au and 30.6 g/t Ag.

P = Proven; Pr = Probable; M = Measured; I = Indicated; Inf = Inferred

in 2021. Plant pre-commissioning is on schedule, with a planned start in Q4 2023 and the first gold pour expected in early 2024. Ascot carried out 11,886 m of exploration drilling in 87 holes with over 7000 m drilled near existing defined resources of the Big Missouri deposit. Highlight exploration drilling results included 9.72 m grading 22.3 g/t Au and 16 g/t Ag including 1.91 m grading 98.1 g/t Au and 30.6 g/t Ag.

The Premier underground mine operated between 1918 and 1952 and was one of the largest gold mines in North America, producing 2 Moz Au and 45 Moz Ag. Mineralization is hosted by andesitic tuffs, lapilli tuffs, and andesitic flows of the Unuk River Formation (Hazelton Group) that are cut by early Jurassic calc-alkaline plutons of the Texas Creek suite. The principal

gold-bearing mineral is electrum in quartz breccias, veins, and stockworks generally surrounded by an alteration envelope of quartz-sericite-pyrite. Base metal mineralization is also in quartz veins as sphalerite and galena associated with argentite and freibergite. The mineralization and metal composition suggest an intermediate-sulphidation epithermal genesis.

## 6. Proposed mines or quarries

Proposed mines are feasibility-stage projects for which proponents have begun or completed the environmental certification process (generally for late-stage projects) or have submitted or received approvals for Mines Act permits (for projects below British Columbia Environmental Assessment

Act thresholds) or are waiting on existing permit amendments. Projects that have permits in place but have yet to obtain financing to begin site construction are also considered to be at the proposed stage. The Northwest Region contains six proposed metal mines and one proposed coal mine (Fig. 1; Table 4).

### 6.1. Proposed metal mines

The Northwest Region contains six proposed metal mines. **Galore Creek, Kitsault, KSM, and Red Mountain** have been granted an Environmental Assessment Certificate and the **Kutcho** project is in the environmental assessment process with the Environmental Assessment Office. The **Dome Mountain Gold** project has both an Environmental Management Act Permit and a Mining Permit, which would allow annual production of up to 75,000 t.

#### 6.1.1. Dome Mountain Gold (Blue Lagoon Resources Inc.)

The **Dome Mountain Gold** project contains a Measured resource (January 2022) of 136,000 t grading 10.32 g/t Au and 57.31 g/t Ag, an Indicated resource of 662,000 t grading 8.15 g/t Au and 41.19 g/t Ag, and an Inferred resource of 85,000 t grading 6.02 g/t Au and 26.13 g/t Ag (using a cut-and-fill mining method at 3.5 g/t Au cut off).

Orogenic gold-silver mineralization is mainly in two zones (the Boulder vein and Argillite vein systems) in fragmental volcanic rocks of the Telkwa Formation and basalts or other altered volcanic rocks of the Nilkitkwa Formation. In addition to the large vein systems, more than a dozen mineralized veins occur, mostly striking east-west and northwest-southeast. Veins (0.7 to 4.5 m wide) contain quartz±calcite±ankerite with lesser sulphide mineralization. Alteration is positively correlated with gold and consists of abundant carbonate-sericite-pyrite that envelopes veins. Base metal sulphide mineralization is associated with higher gold and silver grades.

Blue Lagoon Resources Inc. signed a mine restart agreement with the Lake Babine First Nation for underground mining at the Dome Mountain Gold Mine and submitted its Joint Mines Act-Environmental Act permits amendment application. If approved, they plan to restart the Dome Mountain gold mine. Ten diamond drill holes totalling 2909 m were completed with a focus on extending the strike length and down-dip extent of the Boulder vein. Results from the Boulder vein have extended the strike length by 350 m and contain mineralized intersections such as 16.5 m grading 5.49 g/t Au, 80.9 g/t Ag, and 1.21% Cu, including a 5.65 m interval grading 11.0 g/t Au, 15.8 g/t Ag, and 2.31% Cu, and 1.55 m grading 15.2 g/t Au and 31.4 g/t Ag.

#### 6.1.2. Galore Creek (Galore Creek Mining Corporation)

The Galore Creek alkalic complex includes multiphase syenite, monzonite, and monzodiorite dikes and stocks that cut volcanic and sedimentary rocks of the Stuhini Group. Mineralization is thought to be at the end member of the silica-undersaturated porphyry Cu-Au deposit type. At the Central zone (the principal economic resource) initial potassic

alteration and gold-copper and sulphide mineralization formed from highly oxidized fluids. Hydrothermal processes during the second period generated calcic alteration and brecciation, followed by potassic alteration and mineralization of bornite and chalcopyrite (Micko et al., 2014).

The **Galore Creek** project contains a Proven and Probable reserve of 528 Mt grading 0.59% Cu, 0.32 g/t Au, and 6.02 g/t Ag. It has a Measured plus Indicated resource (September 2023) of 1.197 Bt grading 0.46% Cu, 0.25 g/t Au, and 4.5 g/t Ag, with an additional Inferred resource of 237.8 Mt grading 0.26% Cu, 0.19 g/t Au, and 2.6 g/t Ag. Exploration in 2023 consisted of 19,040 m of diamond drilling in 56 holes, 700 m of sonic drilling for geotechnical purposes, mapping, prospecting, rock sampling, and excavating test pits. The company focused on engineering work for an ongoing prefeasibility study and on environmental studies.

#### 6.1.3. Kitsault (New Moly LLC)

New Moly LLC is proposing to construct and operate an open-pit molybdenum mine near Kitsault. The proposed **Kitsault** mine is fully permitted for construction and would produce molybdenum and silver for 16 years at a planned 45,500 tpd throughput. To transport materials and equipment, the project will use existing access roads and power lines and an existing permitted barge docking facility. Measured plus Indicated resources are 321.8 Mt at 0.071% Mo and 4.8 g/t Ag (2012). The deposit is hosted in the Lime Creek intrusive complex (Eocene) that cuts Jurassic argillite and greywackes of the Bowser Lake Group. The company did baseline environmental monitoring in 2023.

#### 6.1.4. KSM (Seabridge Gold Inc.)

The **KSM** project consists of five porphyry Cu-Au deposits: Kerr, Sulphurets, Mitchell, East Mitchell (Snowfield) and Iron Cap. It is the largest undeveloped gold project in the world by resources: Measured and Indicated resources (August 2022) of 5.357 Bt grading 0.51 g/t Au, 0.16% Cu, 2.4 g/t Ag, and 63 g/t Mo and an Inferred resource of 5.685 Bt grading 0.36 g/t Au, 0.28% Cu, 2.2 g/t Ag, and 33 g/t Mo. The total KSM Proven and Probable reserves are 2.292 Bt grading 0.64 g/t Au, 0.14% Cu, 2.2 g/t Ag, and 76 g/t Mo.

The KSM project has a prefeasibility study plan with a 33-year mine life limited to the Mitchell, East Mitchell, and Sulphurets deposits for an open-pit operation only. A separate Preliminary Economic Assessment, for a planned 39 years of operation, is for an underground block cave mining operation supplemented by a small open pit. The peak mill feed production is planned at 170,000 tpd. The Preliminary Economic Assessment and Pre-Feasibility study increased mineral resource and reserve estimates relative to previous reports and combine for a mine life of 72 years. Seabridge continued its early construction activities at KSM.

KSM is part of the Sulphurets district, which contains abundant porphyry Cu-Au and related systems along a 200 km-long north-northwest trending corridor in northwestern Stikinia

**Table 4.** Selected proposed mines or quarries, Northwest Region.

Project	Operator (partner)	Commodity; Deposit type; MINFILE	Reserves	Resource	Comments
<b>Dome Mountain</b>	<b>Blue Lagoon Resources Inc.</b>	Au, Ag; Au-quartz veins; 093L 276	na	M: 136,000 t 10.32 g/t Au, 57.31 g/t Ag  I: 662,000 t 8.15 g/t Au, 41.19 g/t Ag  Inf: 85,000 t 6.02 g/t Au, 26.13 g/t Ag (resource based on cut-and-fill method at 3.5 g/t Au cut off; January 2022)	Joint Mines Act-Environmental Act permits amendment application. If approved, plan to restart the Dome Mountain gold mine. 2909 m of drilling in 10 holes. Results include 16.5 m grading 5.49 g/t Au, 80.9 g/t Ag, and 1.21% Cu, including a 5.65 m interval grading 11.0 g/t Au, 15.8 g/t Ag, and 2.31% Cu, and 1.55 m grading 15.2 g/t Au and 31.4 g/t Ag.
<b>Galore Creek</b>	<b>Galore Creek Mining Corp. (Teck Resources Ltd. 50%, Newmont Corporation 50%)</b>	Cu, Au, Ag; Alkaline porphyry; 104G 090	P+Pr: 528 Mt 0.59% Cu, 0.32 g/t Au, 6.02 g/t Ag	M+I: 1.197 Bt 0.46% Cu, 0.25 g/t Au, 4.5 g/t Ag  Inf: 237.8 Mt 0.26% Cu, 0.19 g/t Au, 2.6 g/t Ag	19,040 m of diamond drilling in 56 holes, 700 m of sonic drilling for geotechnical purposes, mapping, prospecting, rock sampling, and excavating test pits. The company focussed on engineering work for an ongoing prefeasibility study and environmental studies.
<b>Kitsault</b>	<b>New Moly LLC</b>	Mo, Ag, Pb; Porphyry Mo (low F type); 103P 120	P+Pr: 228.2 Mt 0.083% Mo, 5.0 g/t Ag	M+I: 321.8 Mt 0.071% Mo, 4.8 g/t Ag (2012)	Environmental baseline monitoring.
<b>KSM</b>	<b>Seabridge Gold Inc.</b>	Cu, Au, Ag, Mo; Porphyry Cu±Mo±Au; 104B 191	P+Pr: 2.292 Bt 0.64 g/t Au, 0.14% Cu, 2.2 g/t Ag, 76 g/t Mo	M+I: 5.357 Bt 0.51 g/t Au, 0.16% Cu, 2.4 g/t Ag, 63 g/t Mo  Inf: 5.685 Bt 0.36 g/t Au, 0.28% Cu, 2.2 g/t Ag, 33 g/t Mo (Total for KSM deposits)	Pre-feasibility study with an open pit only plan of a 33-year mine life limited to the Mitchell, East Mitchell, and Sulphurets deposits. Preliminary Economic Assessment with an underground block cave mining operation supplemented with a small open pit. Plan to operate for 39 years.
<b>Kutcho</b>	<b>Kutcho Copper Corp.</b>	Cu, Pb, Zn; Noranda/Kuroko VMS; 104I 060	Pr: 17.3 Mt 1.58% Cu, 2.31% Zn, 27.9 g/t Ag, 0.39 g/t Au	M+I: 22.8 Mt 1.52% Cu, 2.18% Zn, 0.39 g/t Au, 28.1 g/t Ag  Inf: 12.9 Mt 1.10% Cu, 1.58% Zn, 0.25 g/t Au, 20.0 g/t Ag	The project would have a combined 11-year open pit and underground mine life. Geophysical surveys at Kutcho with 802 line-km of VTEM and 1557 line-km of ZTEM electromagnetic surveys and a seismic survey over the Esso deposit.

Table 4. Continued.

<b>Red Mountain</b>	<b>Ascot Resources Ltd.</b>	Au, Ag; Subvolcanic and precious metal veins; 103P 086	P+Pr: 2.54 Mt 6.52 g/t Au, 20.60 g/t Ag	M+I: 3.19 Mt 7.63 g/t Au, 21.02 g/t Ag  Inf: 0.41 Mt 5.32 g/t Au, 7.33 g/t Ag	Environmental baseline monitoring.
<b>Tenas</b>	<b>Bathurst Resources Limited</b>	PCI; Bituminous coal; 093L 156	P+Pr: 62.9 Mt	M+I: 124.6 Mt  Inf: 1.2 Mt	In the environmental assessment application process with baseline studies ongoing. Proposed production 775-825 kt of steelmaking coal annually with a mine-life of 22 years. Telkwa Coal Ltd. was purchased by Bathurst Resources Limited for US \$10.3 million in September.

P = Proven; Pr = Probable; M = Measured; I = Indicated; Inf = Inferred

(Febbo et al., 2019). Four phases of calc-alkaline porphyry Cu-Au-Mo mineralization at KSM are genetically related to dioritic intrusions of the Sulphurets suite (Febbo et al., 2015), with the deposits distributed along a 12 km-long north-striking linear array. The intrusions cut volcanosedimentary rocks of the Stuhini Group (Upper Triassic) and sandstones, conglomerates, and andesitic rocks of the Jack Formation, a basal unit of the Hazelton Group (Upper Triassic to Lower Jurassic). Mineralization is disseminated in sheeted quartz veinlets and clustered quartz-vein stockworks and is open at depth.

#### 6.1.5. Kutcho (Kutcho Copper Corp.)

The **Kutcho** project is accessible by a 100 km-long seasonal gravel road and an airstrip 10 km from the project deposits. Kutcho Copper Corp. entered the environmental assessment process late in 2019 and has received a Section 11 Order that defines the scope of the assessment and the Indigenous Nations that the company will engage with. The project is not required to undertake a federal environmental assessment.

Considered Kuroko-type volcanic massive sulphide deposits, the Cu-Zn-Au-Ag mineralization is in felsic and largely fragmental volcanic rocks in the upper part of the Kutcho Formation, a Permian-Triassic unit of bimodal volcanic rocks. Reported Proven and Probable mineral reserves (July 2021) are 17.3 Mt grading 1.58% Cu, 2.31% Zn, 27.9 g/t Ag, and 0.39 g/t Au. Measured and Indicated mineral resources (inclusive of reserves) are reported as 22.8 Mt grading 1.52% Cu, 2.18% Zn, 28.1 g/t Ag, and 0.39 g/t Au. Reserves and resources are combined for the Main, Esso and Sumac deposits. A Feasibility Study announced favourable economics using US\$3.50/lb Cu and US\$1.15/lb Zn. The project would have a combined 11-year open-pit and underground mine life. Geophysical surveys were conducted at Kutcho with 802 line-km of VTEM and 1557 line-km of ZTEM electromagnetic surveys and a seismic survey over the Esso deposit.

#### 6.1.6. Red Mountain (Ascot Resources Ltd.)

**Red Mountain** is a proposed underground mine 18 km east-northeast of Stewart. Discovered in 1989, the project has had extensive exploration since, including 466 diamond drill holes and more than 2 km of underground development. A provincial and federal Environmental Assessment Certificate was received in 2018. The project was purchased by Ascot Resources Ltd. from IDM Mining Ltd. in 2019 for \$45 million, and a Feasibility Study was completed in 2020. Red Mountain contains Measured and Indicated resources (April 2020) of 3.19 Mt grading 7.63 g/t Au and 21.02 g/t Ag and an Inferred resource of 405,000 t grading 5.32 g/t Au and 7.33 g/t Ag (reported at 3.0 g/t Au cut off for long hole stoping mining).

The property is underlain by Upper Triassic-Lower Jurassic metasedimentary and volcanic rocks that were intruded by a multi-phased intermediate intrusive complex. Gold occurs in pyrite-rich brecciated bodies and stockworks along the margins of the intrusive rocks, with low-temperature quartz-sericite-pyrite (phyllic) alteration containing high-grade gold and high-temperature K-feldspar alteration. Environmental baseline monitoring continued, but minimal exploration work was done on the project as Ascot concentrated on the Premier Gold project.

#### 6.2. Proposed coal mines

There is currently one proposed coal mine, Bathurst Resources Limited's **Tenas** project.

##### 6.2.1. Tenas (Bathurst Resources Limited)

Telkwa Coal Ltd. was purchased by Bathurst Resources Limited for US \$10.3 million in September; assets transferred include the **Tenas** coal project. Bathurst Resources is proposing to develop the project, which is accessible by road, approximately 17 km south of Smithers. The project entered the provincial environmental assessment process in 2018 and the project proposes to produce approximately 775,000-825,000 t

of steelmaking coal annually with a mine life of 22 years. In 2017, a reserve estimate of Proven plus Probable reserves of 62.9 Mt of coal was released. At least 14 coal seams have been recognized in the Skeena Group (Lower-Upper Cretaceous) with individual seams up to 7.6 m thick. Currently there are four conceptual pits (from south to north: Tenas, Goathorn West, Goathorn East, and Telkwa North) on approximately 1050 ha. The current environmental assessment application is only for production of metallurgical coal from the Tenas pit. Proven plus Probable reserves for Tenas are 29.1 Mt.

## 7. Selected exploration activities and highlights

Exploration projects are described on a continuum from early to advanced stages. The earliest stage is considered grassroots. Typically, the grassroots stage includes the collection of rock and soil samples for geochemical analysis, commonly in conjunction with regional geological mapping and geophysical surveys. This preliminary work is used to generate targets to test, usually by drilling. At these early stages, it is a common practice to establish base-line environmental testing and engage with communities and First Nations. As a project progresses, drilling may delineate a mineral resource and establish baseline economics. Later stages of exploration generally coincide with mine evaluation, feasibility, and economic studies, which include environmental, social, engineering, and financial considerations.

### 7.1. Selected precious metal projects

The Northwest Region has numerous precious metal projects (Fig. 1; Table 5), many of which are in the loosely defined area popularly known as the Golden Triangle.

#### 7.1.1. Atlin Goldfields (Brixton Metals Corporation)

Pacific Bay Minerals Ltd. had entered an option agreement with Brixton Metals Corporation to acquire 100% interest in the **Atlin Goldfields** project near Atlin. Pacific Bay did not fulfill their option agreements and the property is now back to a 100% Brixton ownership. Brixton completed one diamond drill hole totalling 350 m.

#### 7.1.2. Atsutla Gold (Trailbreaker Resources Ltd.)

The **Atsutla Gold** project extends across an area of 40,057 ha 130 km northwest of Dease Lake. Previous exploration identified five gold zones and mineral occurrences showing potential on the property for porphyry Cu-Mo, polymetallic veins, and Fe skarn mineralization. A new technical report was filed in May.

#### 7.1.3. BAM (Monarch Gold) (P2 Gold Inc.)

P2 Gold Inc. drilled two holes totalling 913 m and carried out geological mapping, prospecting, and rock sampling on their **BAM** project. One hole of 509 m was drilled to target geophysical anomalies below the Monarch Gold zone. In January, P2 Gold released an initial Inferred mineral resource estimate for the Monarch Gold zone totalling 27.2 Mt grading

0.59 g/t Au and 2.52 g/t Ag. The company later relinquished their option on mineral tenures in the southern part of BAM, including the Monarch Gold zone. In March, the company acquired the Ball Creek claims from Orogen Royalties Inc. to extend the BAM project northward.

#### 7.1.4. Cassiar Gold (Cassiar Gold Corp.)

Cassiar Gold Corp. completed 16,138 m of diamond drilling at their **Cassiar Gold** project. Other exploration at Cassiar Gold consisted of prospecting, geological mapping, and soil and rock sampling. Several holes produced long intersections with bulk tonnage gold grades and shorter intervals of high grade gold. Results from the Cassiar South target included 237.6 m grading 0.69 g/t Au, including 8.3 m grading 2.39 g/t Au, and 1.4 m grading 5.93 g/t Au. Highlights from the Taurus East target included 6.6 m grading 22.44 g/t Au, including 0.8 m grading 174.5 g/t Au. At Taurus West, intersections included 71.6 m grading 1.54 g/t Au, including 23.5 m grading 3.68 g/t Au. Another interval of 23.6 m graded 4.19 g/t Au. Completed financings for Cassiar Gold totalled \$12.9 Million for 2023.

#### 7.1.5. Eskay Creek (Skeena Resources Limited)

**Eskay Creek** has been the focus of considerable exploration since 1932. In 1988, the news of drilling intersecting stratiform stibnite-realgar rich mineralization (Roth, 1989) at the 21A zone sparked a staking rush throughout the region. An underground mine operated from 1994 to 2008 and produced 3.3 Moz of Au and 160 Moz of Ag (average grades of 45 g/t Au and 2224 g/t Ag).

In November, a positive Definitive Feasibility Study was released that highlighted an after-tax internal rate of return (IRR) of 43% and a 1.2-year payback period on pre-production capital expenditures. The study reported Proven and Probable open-pit mineral reserves of 39.8 Mt containing 3.3 Moz Au and 88.0 Moz Ag with an after-tax net present value of \$2.0 billion at a base case of US\$1800/oz gold and US\$23/oz silver. Life-of-mine production was stated at 2.8 Moz Au and 81.14 Moz Ag for a minimum of 12 years. Highlight results from the 21A West zone were released in 2023 from previous 2022 drilling include 9.26 m grading 18.18 g/t Au and 130.2 g/t Ag, and 5.70 m grading 14.90 g/t Au and 2.5 g/t Ag. Skeena Resources completed financings for \$84.2 million, a royalty agreement for a 0.5% net smelter royalty (NSR) at Eskay Creek worth \$27 million and another royalty agreement for a 1.0% NSR worth \$81 million.

#### 7.1.6. Harry (Blackwolf Copper and Gold Ltd.)

With the recent acquisition of Optimum Ventures Ltd., Blackwolf Copper and Gold Ltd. has an option to acquire an 80% interest in the **Harry** property. This gold-silver property is hosted by sericite-altered Lower Jurassic felsic volcanic breccia and andesite tuff, with interbedded siltstone, argillite, and conglomerate of the Unuk River Formation (Hazelton Group). The property lies between the historic Scottie Gold and Premier mines. Associated accessory mineralization including

**Table 5.** Selected exploration projects, Northwest Region.

<b>Project</b>	<b>Operator (partner)</b>	<b>Commodity; Deposit type; MINFILE</b>	<b>Resource (NI 43- 101 compliant unless indicated otherwise)</b>	<b>Comments</b>
<b>Atlin Goldfields</b>	<b>Brixton Metals Corporation</b>	Au; Precious metal veins; 104N 043	na	Pacific Bay decided against their option agreement, the property is now back to 100% Brixton ownership. One diamond drill hole (350 m).
<b>Atsutla Gold</b>	<b>Trailbreaker Resources Ltd.</b>	Au, Ag; Polymetallic veins; 104O 007	na	A new technical report was filed in May.
<b>BAM (Jan Copper)</b>	<b>P2 Gold Inc.</b>	Cu, Au; Epithermal Au-Ag- Cu	na	One hole drilled (404 m), geological mapping, prospecting, and rock sampling.
<b>BAM (Monarch Gold)</b>	<b>P2 Gold Inc.</b>	Au; Epithermal Au-Ag- Cu	Inf: 27.2 Mt 0.59 g/t Au, 2.52 g/t Ag (January 2023)	One hole drilled (509 m) targeting geophysical anomalies below the Monarch Gold zone. Geological mapping, prospecting, and rock sampling. Relinquished option on tenures including Monarch Gold. Extended BAM northward by acquiring Ball Creek claims from Orogen Royalties Inc.
<b>Berg</b>	<b>Surge Copper Corp.</b>	Cu, Mo, Ag; Porphyry Cu±Mo±Au; 093E 046	M+I: 1.009 Bt 0.23% Cu, 0.03% Mo, 4.6 g/t Ag  Inf: 542 Mt 0.17% Cu, 0.02% Mo, 3.7 g/t Ag (July 2023)	A Preliminary Economic Assessment was released in July stating a net present value of \$2.1 billion, an Internal Rate of Return of 20% for a 30-year mine life. In December, Surge announced they had entered into a definitive purchase agreement to acquire a 100% interest in the project. Three holes drilled totalling 2077 m. Prospecting, large IP survey, and soil and rock sampling.
<b>Big Gold</b>	<b>Teuton Resources Corp.</b>	Au, Ag, Pb, Zn Cu; Polymetallic veins; 104B 674	na	Prospecting, geological mapping, and rock sampling Highlight rock sample assays 27.7 g/t Au, 6240 g/t Ag, 1.45% Cu, 6.4% Pb, and 3.11% Zn, and 57.1 g/t Ag, 0.72% Cu, 12.1% Pb, and 9.32% Zn.
<b>Bingo</b>	<b>Juggernaut Exploration Ltd.</b>	Au, Cu, Pb, Zn; Polymetallic veins	na	Seven holes drilled (1017 m), prospecting, mapping, and rock sampling. Highlight drill results include 5.11 m grading 7.57 g/t Au, 20.23 g/t Ag, and 2.72% Cu, including 2.90 m grading 13.05 g/t Au, 24.93 g/t Ag, and 4.70% Cu. Another interval of 10.12 m graded 2.52 g/t Au, 11.05 g/t Ag, and 1.16% Cu, including 5.89 m grading 4.01 g/t Au, 17.37 g/t Ag, and 1.85% Cu.
<b>Blue</b>	<b>Core Assets Corp.</b>	Ag, Pb, Zn, Cu; Skarn carbonate replacement; 104M 022	na	41 holes drilled (4260 m), prospecting, geological mapping, and an IP geophysical survey. Results at the Gally target included 0.5 m grading 1030 g/t Ag, 21.6% Zn, 10.8% Pb, and 1.16% Cu within 8.0 m grading 139 g/t Ag, 2.3% Zn, 1.2% Pb, and 0.18% Cu.
<b>Buck</b>	<b>Sun Summit Minerals Corp.</b>	Au, Ag, Zn, Pb, Cu; Polymetallic veins; 093L 009	na	3738 m of drilling in 13 holes at the Buck Main zone. Geological mapping, prospecting, soil sampling, and rock sampling.

Table 5. Continued.

<b>Burn</b>	<b>Commander Resources Ltd.</b>	Au, Cu; Porphyry Cu±Mo±Au; 093M 134	na	4000 m of diamond drilling, geological mapping, prospecting, and rock sampling. Rock samples from the newly discovered CR zone returned 1.00% Cu, 3.2 g/t Ag, 0.94% Cu, and 4.1 g/t Ag. Drill results included 185.9 m grading 0.39 g/t Au, 8.2 g/t Ag, and 0.53% Zn including a 11.9 m interval grading 1.26 g/t Au, 7.4 g/t Ag, and 0.64% Zn. Another interval of 1.5 m graded 6.79 g/t Au and 1.8 g/t Ag. Sun Summit plans to release a Mineral Resource Estimate in Q1 2024.
<b>Cambria</b>	<b>Scottie Resources Corp.</b>	Au, Ag, Cu; Polymetallic veins, Porphyry Cu±Mo±Au	na	Geological mapping, soil sampling, and prospecting.
<b>Cassiar Gold</b>	<b>Cassiar Gold Corp.</b>	Au; Precious metal veins; 104P 012, 19	Inf: 37.9 Mt 1.14 g/t Au (0.5 g/t Au cut off) (April 2022)	16,138 m of drilling. Results from the Cassiar South target: 237.6 m grading 0.69 g/t Au, including 8.3 m grading 2.39 g/t Au, and 1.4 m grading 5.93 g/t Au. At Taurus East target: 6.6 m grading 22.44 g/t Au, including 0.8 m grading 174.5 g/t Au. At Taurus West: intersections included 71.6 m grading 1.54 g/t Au, including 23.5 m grading 3.68 g/t Au; another interval of 23.6 m graded 4.19 g/t Au. Completed financings for Cassiar Gold totalled \$12.9 Million for 2023.
<b>Clone</b>	<b>Teuton Resources Corp. 75%, Silver Grail Resources Ltd. 25%</b>	Au, Ag, Cu, Co, Pb; Polymetallic veins; 103P 251	na	Prospecting, geological mapping, and rock sampling.
<b>Consolidated Eskay</b>	<b>Eskay Mining Corp. 80%, Kirkland Lake Gold Ltd. 20%</b>	Au, Ag, Cu, Zn; Noranda/Kuroko massive sulphide; 104B 385	na	24 holes drilled (5700 m), prospecting, geological mapping, and rock sampling. Several drill intersections at the Cumberland target returned high-grade gold and silver such as 15.0 m grading 3.02 g/t Au, 68.66 g/t Ag, 0.24% Cu, 0.73% Pb, and 4.86% Zn including 3.41 m grading 8.48 g/t Au, 103.27 g/t Ag, 0.23% Cu, 1.08% Pb, and 4.16% Zn. Tarn lake drilling results included 2.45 m grading 7.83 g/t Au and 6.96 g/t Ag, including 0.95 m grading 12.4 g/t Au and 10.0 g/t Ag. Rock samples from massive sulphide discovered at Scarlet knob (Fig. 6) graded 22.26 g/t Au, 461.97 g/t Ag, 0.22% Cu, 14.57% Pb, and 10.50% Zn.
<b>Crown (Electrum)</b>	<b>Goldstorm Metals Corp.</b>	Au, Ag, Cu; Polymetallic veins; 104B 200	na	11 holes drilled (2581 m), geological mapping, prospecting, and rock sampling. Highlight drilling results include 0.5 m grading 233.5 g/t Au, 756.0 g/t Ag, 0.73% Pb, and 0.51% Zn within 2.1 m grading 57.34 g/t Au, 214.27 g/t Ag, 0.19% Pb, and 0.16% Zn within 4.5 m grading 27.0 g/t Au, 111.09 g/t Ag, 0.10% Pb, and 0.09% Zn.
<b>Crown (Orion)</b>	<b>Goldstorm Metals Corp.</b>	Au, Ag, Cu, Co, Zn; Polymetallic veins; 104B 672	na	Geological mapping, prospecting, and rock sampling. Rock samples from Orion include a 0.25 m chip sample grading 0.67 g/t Au, 320.0 g/t Ag, 11.96% Cu, 0.088% Co, and 0.55% Zn, and a 0.5 m channel sample grading 0.28 g/t Au, 226.0 g/t Ag, 6.95% Cu, 0.079% Co, and 0.37% Zn.

Table 5. Continued.

<b>Duke</b>	<b>Amarc Resources Ltd.</b>	Cu, Au; Porphyry Cu±Mo±Au; 093M 009	na	11,070 m drilled in 24 holes, 5759 line-km airborne magnetic survey, a large lidar survey, 68 line-km of ground magnetics, 122 line-km of IP geophysics, detailed geological mapping, prospecting, soil and rock sampling. Highlight results include 541.6 m grading 0.24% Cu, 0.016% Mo, 0.04 g/t Au, and 1.2 g/t Ag, 238.2 m grading 0.29% Cu, 0.019% Mo, 0.06 g/t Au, and 1.4 g/t Ag, and 125.6 m grading 0.38% Cu, 0.024% Mo, 0.08 g/t Au, and 1.8 g/t Ag.
<b>Dungate</b>	<b>Edgemont Gold Corp.</b>	Cu, Au; Porphyry Cu±Mo±Au; 093L 010	na	Edgemont worked on advancing a mineral resource estimate for the project.
<b>Eaglehead</b>	<b>Northern Fox Copper Inc.</b>	Cu, Mo, Au; Porphyry Cu±Mo±Au; 104I 008	I: 70.81 Mt 0.221% Cu, 0.0108% Mo, 0.061 g/t Au, 0.9 g/t Ag  Inf: 242.3 Mt 0.192% Cu, 0.0035% Mo, 0.043 g/t Au, 0.6 g/t Ag (2023)	Northern Fox completed an updated mineral resource estimate.
<b>Empire</b>	<b>Juggernaut Exploration Ltd.</b>	Ag, Pb, Zn, Au, Cu; Polymetallic veins; 093L 116	na	1500 m drilled, prospecting, and rock sampling. Rock sample highlights include 36,875 g/t Ag, 4.68 g/t Au, 27.6% Cu, and 3.27% Zn. A channel sample (length not given) assayed 22,694 g/t Ag, 26.4% Cu, and 2.8% Zn.
<b>Eskay Creek</b>	<b>Skeena Resources Limited</b>	Au, Ag, Cu, Pb, Zn; VMS and precious metal veins; 104B 008	M+I: 50.1 Mt 2.6 g/t Au, 63.0 g/t Ag (pit constrained)  P+Pr: 39.8 Mt 2.6 g/t Au, 68.7 g/t Ag (November 2023)	A positive feasibility study was released with an after-tax internal rate of return (IRR) of 43% and a 1.2-year payback period on pre-production capital expenditures. This study came with updated mineral resource estimates. Results for 2022 drilling at the 21A West zone were released in 2023 and highlights included 9.26 m grading 18.18 g/t Au and 130.2 g/t Ag, and 5.70 m grading 14.90 g/t Au and 2.5 g/t Ag. Skeena Resources completed financings for \$84.2 million, a royalty agreement for a 0.5% NSR at Eskay Creek worth \$27 million and another royalty agreement for a 1.0% NSR worth \$81 million.
<b>Eskay Rift</b>	<b>Teuton Resources Corp.</b>	Au, Ag, Zn, Cu; Subaqueous hot spring Ag-Au; 104B 675	na	Prospecting, geological mapping, and rock sampling.
<b>George Copper</b>	<b>MTB Metals Corp.</b>	Ag, Cu, Pb, Zn; Subaqueous hot spring Ag-Au; 104A 180	na	Three drill holes at the George Copper project intersected sulphide mineralization containing pyrite, chalcopyrite, and sphalerite. Geological mapping, and rock sampling.
<b>Golddigger</b>	<b>Goliath Resources Ltd.</b>	Au, Cu, Pb, Zn; Polymetallic veins; 103P 341	na	34,000 m of diamond drilling in 124 holes, geological mapping, prospecting, and rock sampling. Reported results included 7.90 m grading 64.88 g/t Au and 8.03 g/t Ag, including 5.90 m grading 86.84 g/t Au and 6.52 g/t Ag, including 2.75 m grading 186.0 g/t Au and 13.29 g/t Ag.

Table 5. Continued.

<b>Harry</b>	<b>Blackwolf Copper and Gold Ltd.</b>	Au, Ag, Cu; Intrusion-related and polymetallic veins; 104B 434	na	1740 m drilling in seven holes, IP and magnetic geophysical surveys, prospecting, rock sampling and backpack surface drilling. Highlight drill results included 1.0 m grading 312 g/t Au and 101 g/t Ag and 1.0 m grading 277 g/t Au and 118 g/t Ag.
<b>Hat</b>	<b>Doubleview Gold Corp.</b>	Cu, Au; Alkalic porphyry; 104J 021	na	10,320 m was drilled at Hat. Drilling results included 143.3 m grading 0.64 g/t Ag, 0.43 g/t Au, 134.6 g/t Co, 0.36% Cu, and 1.29 g/t Sc. Within this interval, 77.2 m graded 0.9 g/t Ag, 0.64 g/t Au, 147 g/t Co, 0.48% Cu, and 1.51 g/t Sc.
<b>Holy Grail</b>	<b>Prospect Ridge Resources Corp.</b>	Ag, Au, Pb, Zn; Polymetallic veins	na	Prospect Ridge acquired 100% ownership of the project. Geological mapping, prospecting, and rock sampling. Highlight results released in 2023 from previous field seasons for the 4 Shore showing include 28.0 g/t Au, 56.9 g/t Ag, and 2.03% Cu, and another sample with 13.7 g/t Au, 39.9 g/t Ag, and 1.33% Cu.
<b>Hoodoo</b>	<b>Skeena Resources Limited</b>	Cu, Zn, Pb, Au; Besshi VMS and intrusion related precious metal veins	na	Stream sediment sampling, prospecting, geological mapping, and rock sampling.
<b>Hwy 37</b>	<b>Kingfisher Metals Corp.</b>	Cu, Au, Ag; Porphyry; 104G 434	na	2150 m of diamond drilling in 6 holes.
<b>Iskut</b>	<b>Seabridge Gold Inc.</b>	Cu, Au; Porphyry; 104B 694	na	19,830 m of diamond drilling in 23 holes, airborne magnetic survey, magnetotelluric survey. Highlight results from the Snip North Target include 1.8 m grading 15.3 g/t Au, 430.0 g/t Ag, and 1.5% Cu, 277 m grading 0.8 g/t Au, 1.19 g/t Ag, and 0.07% Cu, 21.0 m grading 1.73 g/t Au, 2.2 g/t Ag, and 0.07% Cu, and 253 m grading 0.61 g/t Au, 1.36 g/t Ag, and 0.07% Cu.
<b>Kingpin</b>	<b>Skeena Resources Limited</b>	Au, Ag, Cu Pb, Zn; Precious metal veins, Polymetallic veins	na	Stream sediment sampling, prospecting, geological mapping, and rock sampling.
<b>Kispiox Mountain</b>	<b>Jaxon Mining Inc.</b>	Cu, Mo, Ag, Sb; Polymetallic veins	na	Petrographic study, soil sampling, and rock sampling, and portable-backpack drilling.
<b>Kitsault Valley (Dolly Varden)</b>	<b>Dolly Varden Silver Corporation</b>	Cu, Pb, Zn, Ag, Au; Epithermal, Kuroko VMS with polymetallic veins; 103P 188	Dolly Varden I: 3.417 Mt 299.8 g/t Ag  Inf: 1.285Mt 277.0 g/t Ag (2023)	51,454 m of drilling total in 115 holes, on the Kitsault project. Approximately half of this drilling was completed at Dolly Varden. Highlights included 26.99 m grading 296 g/t Ag, 1.68% Pb, and 3.01% Zn, 10.74 m grading 371 g/t Ag, 2.82% Pb, and 4.99% Zn including 0.5 m grading 1475 g/t Ag, 10.65% Pb, and 12% Zn, and 29.34 m grading 381 g/t Ag, including 1.0 m grading 1898 g/t Ag.
<b>Kitsault Valley (Homestake Ridge)</b>	<b>Dolly Varden Silver Corporation</b>	Au, Ag, Pb, Zn; Polymetallic veins, Marine volcanic association Cu, Pb, Zn, Au, Ag; 103P 188	Homestake Ridge I: 0.736 Mt 7.02 g/t Au, 74.8 g/t Ag  Inf: 5.545 Mt 4.58 g/t Au, 100 g/t Ag (2023)	51,454 m of drilling total in 115 holes, on the Kitsault project. Approximately half of this drilling was completed at Homestake Ridge. Highlights include 25 m grading 46.31 g/t Au and 70 g/t Ag, including 9.84 m grading 111.9 g/t Au and 162 g/t Ag, and 0.48 m grading 1145 g/t Au and 826 g/t Ag. Another high-grade intersection of 0.38 m graded 3.78 g/t Au and 13,855 g/t Ag.

Table 5. Continued.

<b>Knauss Creek</b>	<b>Prospect Ridge Resources Corp.</b>	Ag, Au, Pb, Zn; Polymetallic veins; 103I 048	na	Geological mapping, prospecting, and rock sampling at Knauss Creek. Highlight rock sample results include assays of: 78.90 g/t Au, 457 g/t Ag, and 13.45% Cu; 23.80 g/t Au, 738 g/t Ag, and 5.42% Cu; 15.20 g/t Au, 1970 g/t Ag, and 0.39% Cu; and 20.60 g/t Au, 175.0 g/t Ag and 0.54% Cu.
<b>KSP</b>	<b>Skeena Resources Limited</b>	Au, Ag, Cu; Precious metal veins, Polymetallic veins	na	Stream sediment sampling, prospecting, geological mapping, and rock sampling. Highlight rock samples include 14.20 g/t Au, 11.4 g/t Ag, 1.09% Cu, and 0.05% Zn, and 9.26 g/t Au, 6.9 g/t Ag, 0.71% Cu, and 0.02% Zn.
<b>Lucky Strike</b>	<b>Goliath Resources Ltd.</b>	Cu, Au, Mo; Porphyry; 103I 204	na	1000 m drilling, geological mapping, prospecting, rock sampling, and geophysical surveying.
<b>Maestro</b>	<b>Quartz Mountain Resources Ltd.</b>	Au, Ag, Cu Mo; Porphyry, Polymetallic veins; 093L 028	na	2 holes drilled (1445 m).
<b>Midas</b>	<b>Juggernaut Exploration Ltd.</b>	Au, Ag, Cu, Zn; Skarn; 103I 131	na	4000 m drilled, rock sampling, prospecting, geological mapping, and IP geophysics. Drill results include 22.0 m grading 0.22 g/t Au, 2.73 g/t Ag, 0.20% Cu, and 0.38% Zn which included 5.0 m grading 0.35 g/t Au, 6.10 g/t Ag, 0.64% Cu, and 0.67% Zn. Another 1.0 m interval graded 1.30 g/t Au, 8.92 g/t Ag, and 0.74% Cu. Highlight channel samples from the VG Zone included 4.34 m grading 10.28 g/t Au, 2 m grading 15.37 g/t Au, and 3.11 m grading 5.43 g/t Au.
<b>NAK</b>	<b>American Eagle Gold Corp.</b>	Cu, Au; Porphyry Cu±Mo±Au; 093M 010	na	7781 m diamond drilling in 10 holes. Results included 302 m grading 0.53 g/t Au, 0.40% Cu, 1.27 g/t Ag, and 431.4 ppm Mo within 771 m grading 0.28 g/t Au, 0.25% Cu, 0.96 g/t Ag, and 207 ppm Mo. American Eagle also completed an exploration agreement with Lake Babine First Nation to get consent for a five-year exploration program and participation in any environmental baseline work conducted.
<b>Netalzul Mountain</b>	<b>Jaxon Mining Inc.</b>	Cu, Au; Sediment-hosted Cu; 094D 104	na	Geophysical inversion modelling was compiled with geochemical data to update their 3D geological model.
<b>New Polaris</b>	<b>Canagold Resources Ltd.</b>	Au; Au-quartz veins; 104K 003	I: 2.965 Mt 11.61 g/t Au  Inf: 926,000 t 8.93 g/t Au (2023)	An updated mineral resource estimate while working towards a Feasibility study. Results released in 2023, included 7.14 m grading 9.64 g/t Au, 2.78 m grading 53.8 g/t Au including 0.75 m of 85.5 g/t Au, 4.7 m grading 12.9 g/t Au, and 4.56 m grading 11.0 g/t Au.
<b>Newmont Lake</b>	<b>Enduro Metals Corporation</b>	Au, Cu, Ag; Intrusion-related Au pyrrhotite veins; 104B 126	na	Geological mapping, prospecting, rock sampling and drone magnetic geophysical surveying. Rock sampling highlights include 0.77% Cu and 0.20 g/t Au, 0.31% Cu and 0.63g/t Au, and 2.04% Cu and 104 g/t Ag.

Table 5. Continued.

<b>Ootsa</b>	<b>Surge Copper Corp.</b>	Cu, Au, Ag, Mo; Calc-alkaline porphyry; 093E 105	M+I: 438.6 Mt 0.18% Cu, 0.12g/t Au, 0.017% Mo, 2.1 g/t Ag  Inf: 137.7 Mt 0.15% Cu, 0.1 g/t Au, 0.015% Mo, 2.0 g/t Ag (2022)	Geological mapping, prospecting, rock sampling, and soil sampling.
<b>Otter Creek</b>	<b>Garibaldi Resources Corp.</b>	Au; Au-quartz veins; 104N 032	na	One hole drilled (63 m).
<b>Oweegee</b>	<b>Sanatana Resources Inc.</b>	Cu, Au; Subvolcanic Cu-Ag-Au (As-Sb); 104A 165	na	An 8.5 line-km 3D surface IP geophysical survey. Highlight assays from 2022 reported this year include 112.1 m grading 0.22 g/t Au, 0.17% Cu, and 1.10 g/t Ag, and 196 m grading 0.13 g/t Au, 0.09% Cu, and 1.5 g/t Ag.
<b>Poplar</b>	<b>Universal Copper Ltd.</b>	Cu, Au, Ag, Mo; Porphyry Cu±Mo±Au	I: 152.3 Mt 0.32% Cu, 0.09 g/t Au, 2.58 g/t Ag, 0.009% Mo  Inf: 139.3 Mt 0.29% Cu, 0.07 g/t Au, 4.95 g/t Ag, 0.005% Mo (2021)	1933 line-km airborne magnetotelluric survey.
<b>PSP</b>	<b>Garibaldi Resources Corp.</b>	Au, Ag, Cu; Precious metal veins, Polymetallic veins; 104B 742	na	1162 m of drilling. Results included 0.6 m grading 0.2 g/t Au and 82 g/t Ag.
<b>Ranch</b>	<b>Thesis Gold Inc.</b>	Au, Ag; Epithermal; 094E 267	na	18,800 m of diamond drilling. Prospecting, rock sampling, and geological mapping. Drilling results included 4.05 m grading 119.49 g/t Au, including 2.0 m grading 231 g/t Au, and 24.7 m grading 5.37 g/t Au and 6.51 g/t Ag. Thesis Gold also completed a financing in October for \$11.16 million.
<b>Rancheria South</b>	<b>CMC Metals Ltd.</b>	Ag, Pb, Zn; Manto carbonate-replacement; 104O 034	na	2143 m drilling in eleven drill holes and a gravity geophysical survey at the Silverknife property.
<b>Red Cliff</b>	<b>Decade Resources Ltd.</b>	Au, Ag, Cu, Pb, Zn; Polymetallic veins; 104A 209	na	23 holes drilled (1600 m), prospecting, geological mapping, and rock sampling at the Red Cliff project. Highlight results include 6.09 m of 2.03 g/t Au, 0.021% Cu, and 0.614% Zn. Another hole of 1.6 m grading 3.91 g/t Au, 0.59% Cu, and 0.18% Zn.
<b>Red Line</b>	<b>Copperhead Resources Inc.</b>	Cu, Au; Porphyry Cu±Mo±Au; 104G 022	na	Geological mapping, prospecting, rock sampling.

Table 5. Continued.

<b>Rock and Roll</b>	<b>Etruscus Resources Corp.</b>	Cu, Zn, Pb, Au; Besshi VMS and intrusion-related precious metal veins; 104B 377	Inf: 2.02 Mt 0.71 g/t Au, 87.1 g/t Ag, 0.23% Cu, 0.23% Pb, 0.98% Zn (2018)	IP geophysics, geological mapping, and rock sampling. Etruscus added 16 new mineral tenure blocks just north of and contiguous to the Rock and Roll property for rare earth element potential, named the Pheno claims.
<b>Ruby Creek</b>	<b>Stuhini Exploration Ltd.</b>	Mo; Porphyry Cu±Mo±Au; 104N 080	M+I: 369.4 Mt 0.053% Mo  Inf: 41.9 Mt 0.047% Mo (2022)	Geological mapping, prospecting, and rock sampling. Highlight rock sample results from the Volcanic Creek target included 1.098% Mo, 0.77% Mo, and 0.57% Mo. Stuhini Exploration Ltd. completed the acquisition of the Ruby Creek property in June.
<b>Schaft Creek</b>	<b>Teck Resources Ltd. 75%, Copper Fox Minerals Inc. 25%</b>	Cu, Mo, Au, Ag; Porphyry Cu±Mo±Au; 104G 015	M+I: 1.346 Bt 0.26% Cu, 0.16 g/t Au, 0.017% Mo, 1.25 g/t Ag  Inf: 343.6 Mt 0.17% Cu, 0.11 g/t Au, 0.013% Mo, 0.84 g/t Ag (2021)	Geotechnical drilling totalling 9000 m for engineering studies. Environmental baseline data were collected for in future permit regulatory requirements.
<b>Scottie Gold Mine</b>	<b>Scottie Resources Corp.</b>	Au, Ag, Cu; Intrusion-related and polymetallic veins; 104B 034	na	20,106 m of diamond drilling in 84 holes and geophysical surveys at the Blueberry zone. Results included 3.7 m grading 56.4 g/t Au and 33.8 g/t Ag, 2.0 m grading 88.4 g/t Au and 25.0 g/t Ag, 4.0 m grading 28.2 g/t Au and 17.5 g/t Ag, and 19.0 m grading 8.21 g/t Au. Drill results have increased the Blueberry zone's known depth of mineralization to 525 m and its strike length to 1.55 km. Scottie Resources completed financings totalling \$8.38 million.
<b>Silver Hope</b>	<b>Finlay Minerals Ltd.</b>	Cu, Ag, Au, Zn, Pb, Mo; Subvolcanic Cu-Ag-Au (As-Sb); 093L 056	na	Lidar survey, biogeochemical sampling, soil mercury vapour surveys, soil sampling, prospecting and machine-learning data review of the property. Results released in 2023 for drilling from 2022 included 31 m grading 0.2% Cu, 11.8 g/t Ag, and 0.22 g/t Au, including 11.42 m grading 0.49% Cu, 30.1 g/t Ag, and 0.41 g/t Au. Another hole intersected 76.57 m grading 0.45% Cu, 14.6 g/t Ag, and 0.14 g/t Au.
<b>Silver Queen</b>	<b>Equity Metals Corporation</b>	Ag, Pb, Zn, Au; Transitional porphyry-epithermal; 093L 002	I: 3.445 Mt 3.5% Zn, 2.13 g/t Au, 189 g/t Ag, 0.24% Cu, 0.6% Pb  Inf: 1.9 Mt 2.0% Zn, 0.82 g/t Au, 167 g/t Ag, 0.23% Cu, 0.5% Pb (resources at NSR cut off of \$100/t) (2022)	9989 m of diamond drilling in 26 holes. Highlight results from the George Lake target included 0.6 m grading 1.5 g/t Au, 1073 g/t Ag, 6.3% Cu, 4.0% Pb, and 1.6% Zn within a 4.1 m interval grading 0.5 g/t Au, 209 g/t Ag, 1.7% Cu, 0.7% Pb, and 0.4% Zn. Other results included 0.3 m grading 4.1 g/t Au, 824 g/t Ag, 0.7% Cu, and 3.4% Pb within 1.5 m grading 1.3 g/t Au, 226 g/t Ag, 1.0% Cu, 1.7% Pb, and 6.6% Zn, and 0.5 m grading 10.4 g/t Au, 115 g/t Ag, 0.6% Cu, 0.9% Pb, and 1.4% Zn. Highlight rock samples from the Cole Lake target graded 55.2 g/t Au, 5049 g/t Ag, 3.2% Pb, and 0.12% Zn, and 1736 g/t Ag, 22.7% Pb, and 1.2% Zn.

Table 5. Continued.

<b>Silvertip</b>	<b>Coeur Mining Inc.</b>	Ag, Pb, Zn; Manto carbonate-replacement; 104O 038	M+I: 6.40 Mt 265 g/t Ag, 5.12% Pb, 9.68% Zn  Inf: 1.69 Mt 239.5 g/t Ag, 4.43% Pb, 10.09% Zn (January 2023)	30,000 m of drilling in 85 holes. Highlight results included 12 m grading 459.6 g/t Ag, 15.1% Zn, and 8.7% Pb, and 6.2 m grading 778.3 g/t Ag, 13.6% Zn, and 14.7% Pb. An updated mineral resource estimate was released at year-end 2022.
<b>Snip Gold</b>	<b>Skeena Resources Limited</b>	Au, Ag; Intrusion-related Au pyrrhotite veins; 104B 250	I: 2.74 Mt 9.35 g/t Au  Inf: 0.5 Mt 7.10 g/t Au (September 2023)	Hochschild Mining plc decided against exercising its right to earn a 60% interest and take over as operator for the Snip Gold project. The project is now 100% owned by Skeena Resources Limited. In September, Skeena released an updated mineral resource estimate.
<b>Tatogga (Saddle North)</b>	<b>Newmont Corporation</b>	Cu, Au, Ag; Porphyry Cu-Au (alkalic); 104G 432	I: 298 Mt 0.28% Cu, 0.36 g/t Au, 0.8 g/t Ag  Inf: 543 Mt 0.25% Cu, 0.31 g/t Au, 0.7 g/t Ag (2020)	Newmont worked with the Tahltan Heritage Resources Environmental Assessment Team on a Tahltan land-use study and supported a local infrastructure study in Iskut through the Tahltan Industry Working Group.
<b>Telegraph</b>	<b>MTB Metals Corp.</b>	Cu; Porphyry Cu-Au (alkalic)	na	2142 m of drilling in 4 holes, geological mapping, an IP geophysical survey, prospecting, soil, and rock sampling at the DOK trend. Highlight drill results include 133.8 m grading 0.23% Cu, 0.11 g/t Au, 1.58 g/t Ag, and 20.63 ppm Mo, including 22.2 m grading 0.31% Cu, 0.21 g/t Au, 2.23 g/t Ag, and 7.96 ppm Mo. Another interval had 6 m grading 0.11% Cu, 1.11 g/t Au, 4.54 g/t Ag, and 98.05 ppm Mo.
<b>Terrace</b>	<b>Decade Resources Ltd.</b>	Au, Ag, Pb; Polymetallic veins; 103I 107	na	33 holes drilled (4000 m), rock sampling, and prospecting, mostly at the Terrace gold property. Drilling tested the Excelsior and Croesus showings for porphyry copper potential. The company reported narrow zones of quartz veining containing chalcopyrite; one hole with molybdenum mineralization on fracture faces and in quartz veinlets.
<b>Thorn (Camp Creek)</b>	<b>Brixton Metals Corporation</b>	Cu, Ag, Au; Porphyry Cu±Mo±Au; 104K 174	na	10,100 m of drilling in nine holes. Highlight results include 1202 m grading 0.228% Cu, 0.05 g/t Au, 2.27 g/t Ag, and 233 ppm Mo, including 630 m grading 0.336% Cu, 0.07 g/t Au, 2.74 g/t Ag, and 309 ppm Mo, which also included 109 m grading 0.511% Cu, 0.08 g/t Au, 3.7 g/t Ag, and 498 ppm Mo. Another drill hole had a 34 m interval grading 0.333% Cu, 0.09 g/t Au, 2.06 g/t Ag, and 243 ppm Mo. At other regional targets, several rock samples returned high grade copper-gold mineralization including 33.3% Cu, 7.0 g/t Au, and 238 g/t Ag at the East target, 39.0 g/t Au and 65.9 g/t Ag at the South target, 13.0% Cu, 0.9 g/t Au, and 30.3 g/t Ag at the Plum target. More than 48 rock samples across the project returning 1% Cu or greater.

Table 5. Continued.

<b>Thorn (Trapper Gold)</b>	<b>Brixton Metals Corporation</b>	Au; Epithermal; 104K 175	na	6625 m of diamond drilling in 11 holes. Highlight results include 98.0 m grading 0.62 g/t Au and 1.42 g/t Ag, including a 32.0 m interval grading 1.15 g/t Au and 2.07 g/t Ag, and a 6 m interval grading 5.07 g/t Au and 6.23 g/t Ag. Another hole assayed 253 m grading 1.40 g/t Au including 93.0 m grading 3.22 g/t Au, and 12.31 m grading 16.18 g/t Au. In December, Brixton completed financings totalling \$14.5 million.
<b>Treaty Creek</b>	<b>Tudor Gold Corp. 60%, Teuton Resources Corp. 20%, American Creek Resources Ltd. 20%</b>	Cu, Au; Porphyry; 104A 004	I: 641.9 Mt 0.91 g/t Au, 5.45 g/t Ag, 0.15% Cu  Inf: 233.9 Mt 0.74 g/t Au, 5.99 g/t Ag, 0.16% Cu (March 2023)	31,904 m of diamond drilling in 34 holes for 2023. Drilling focussed on mineralized structures not currently in the resource model that are thought to host high-grade gold. Results include 601.5 m grading 1.23 g/t Au, 2.93 g/t Ag, and 0.12% Cu, including 123 m grading 3.23 g/t Au, 5.57 g/t Ag, and 0.19% Cu and 15 m grading 14.89 g/t Au, 4.72 g/t Ag, and 0.6% Cu. Another interval of 19.5 m grades 5.41 g/t Au, 1.09 g/t Ag, and 0.24% Cu. In 2023, Tudor Gold completed financings totalling \$27.8 million.
<b>Turnagain</b>	<b>Giga Metals Corporation</b>	Ni, Co, Pt, Cu, Mo; Alaskan-type, magmatic; 104I 014	M+I: 1.574 Bt 0.210% Ni, 0.013% Co, 0.020 g/t Pd, 0.022 g/t Pt  Inf: 1.164 Bt 0.206% Ni, 0.012% Co, 0.016 g/t Pd, 0.018 g/t Pt (2023)	Announced a positive Pre-Feasibility study for a post-tax 11.4% IRR and NPV of \$574 million based on a 30-year project life at a long-term nickel price of \$9.75/lb, with 78% payability for nickel in concentrate. The PFS included an updated mineral resource estimate adding Pd and Pt to the resource.
<b>Walter</b>	<b>Centerra Gold Inc.</b>	Au, Ag, Pb; 093K 122	na	397 soil and 27 channel samples.
<b>Whiting Creek</b>	<b>Huckleberry Mines Ltd.</b>	Cu, Mo, Au; Porphyry Cu±Mo±Au; 093E 050	na	Seven holes drilled (2100 m), geological mapping, geophysical surveys. Highlight results include 162.5 m grading 0.33% Cu and 1.64 g/t Ag, and 52.6 m grading 0.45% Cu and 1.29 g/t Ag.
<b>Wishbone</b>	<b>Origen Resources Inc.</b>	Au; Au-quartz veins; 104G 185	na	Geological mapping, prospecting, soil, and rock sampling in 2023. Highlight rock samples graded 202.6 g/t Au and 76.6 g/t Au.

P = Proven; Pr = Probable; M = Measured; I = Indicated; Inf = Inferred

arsenopyrite, galena, and sphalerite in quartz veins may be epithermal. Exploration at Harry consisted of IP and magnetic geophysical surveys, prospecting, rock sampling, and backpack surface drilling. Drilling totalled 1740 m in seven holes; results included 1.0 m grading 312 g/t Au and 101 g/t Ag, and 1.0 m grading 277 g/t Au and 118 g/t Ag.

#### 7.1.7. Kingpin (Skeena Resources Limited)

The **Kingpin** property includes a tenure area of 32,000 ha, 25 km southwest of Eskay Creek. Exploration at Kingpin consisted of stream-sediment sampling to target geochemical anomalies. These results combined with historical stream-sediment sampling data were used to guide prospecting, geological mapping, and rock sampling.

#### 7.1.8. Kitsault Valley (Homestake Ridge) (Dolly Varden Silver Corporation)

Dolly Varden Silver Corporation acquired the Homestake Ridge project in 2022 from Fury Gold Mines Ltd. and combined resources with the Dolly Varden Silver project to consolidate into the Kitsault Valley project. **Kitsault Valley (Homestake Ridge)** contains a total Indicated resource (June 2023) of 0.736 Mt grading 7.02 g/t Au, 74.8 g/t Ag, 0.18% Cu, and 0.077% Pb, and a total Inferred resource of 5.55 Mt grading 4.58 g/t Au, 100 g/t Ag, 0.13% Cu, and 0.142% Pb.

The 2023 drilling objective was to infill and expand resources at Dolly Varden and Homestake Ridge and to increase mineral estimates from Indicated and Inferred to Measured and Indicated. This year Dolly Varden completed one of the

largest drilling programs in the province with 51,454 m in 115 holes with approximately half completed at Homestake Ridge. Reported results from Homestake Ridge include 25 m grading 46.31 g/t Au and 70 g/t Ag, including 9.84 m grading 111.9 g/t Au and 162 g/t Ag, and 0.48 m grading 1145 g/t Au and 826 g/t Ag. Another high-grade intersection of 0.38 m graded 3.78 g/t Au and 13,855 g/t Ag.

The property is underlain by Hazelton Group volcanic and volcanoclastic rocks. Historic and recent exploration suggest the potential for epithermal base and precious metal and volcanogenic massive sulphide deposits.

#### 7.1.9. New Polaris (Canagold Resources Ltd.)

Canagold Resources Ltd. worked towards a Feasibility Study at their **New Polaris** gold project. This work resulted in an increased mineral resource estimate with an Indicated resource of 2.965 Mt grading 11.61 g/t Au and an Inferred resource of 926,000 t grading 8.93 g/t Au at a 4 g/t Au cut off. Results released in 2023 included 7.14 m grading 9.64 g/t Au, 2.78 m grading 53.8 g/t Au including 0.75 m of 85.5 g/t Au, 4.7 m grading 12.9 g/t Au, and 4.56 m grading 11.0 g/t Au.

#### 7.1.10. Otter Creek (Garibaldi Resources Corp.)

The **Otter Creek** project is a lode gold prospect extending across 8704 ha 12 km east of Atlin. Known for placer gold, lode gold was discovered by Mihalyuk et al. (2017). Placer operations enabled geologists to sample and map the bedrock in excavated pits before backfilling. In 2023, one 63 m hole was drilled.

#### 7.1.11. PSP (Garibaldi Resources Corp.)

The Palm Springs property (**PSP**) is 12 km from Garibaldi's E&L Nickel Mountain project and 12 km west of Eskay Creek. Most exploration on the project has focused on the Casper showing. Garibaldi completed 1162 m of drilling across three targets exploring for Au-Cu-Ag polymetallic veins and VMS mineralization. Results included 0.6 m grading 0.2 g/t Au and 82 g/t Ag.

#### 7.1.12. Ranch (Thesis Gold Inc.)

In 2023, Thesis Gold Inc. merged with Benchmark Metals Inc. to combine the **Lawyers** Au-Ag project and the **Ranch** project as one continuous land package in the Toodoggone mining area. This new company will continue as Thesis Gold Inc. The epithermal Au-Ag Ranch project is in the Northwest Region, whereas the epithermal Au-Ag Lawyers project lies in the North Central Region. Thesis completed more than 18,800 m of diamond drilling in 147 holes at Ranch. Other exploration included prospecting, rock sampling, and geological mapping. Drilling at the Bonanza-Ridge, Bingo, Steve, JK, and BV zones yielded results that included 4.05 m grading 119.49 g/t Au, including 2.0 m grading 231 g/t Au, and 24.7 m grading 5.37 g/t Au and 6.51 g/t Ag. Thesis Gold also completed a financing in October for \$11.16 million.

#### 7.1.13. Scottie Gold Mine (Scottie Resources Corp.)

The **Scottie Gold Mine** project, 35 km north of Stewart, is centred on the past-producing Scottie Gold mine, which operated from 1981 to 1985, producing 95,426 oz of Au at 16.2 g/t Au. The property is crosscut by north-striking and locally abundant east-striking faults. Stanley and Nelson (2022) recognized Stuhini Group and a Hazelton Group stratigraphy in the area that is comparable to that in the McTagg anticlinorium. Gold occurs in steeply dipping pyrrhotite-pyrite-quartz-calcite veins (Fig. 3). Scottie Resources carried out 20,106 m of diamond drilling in 84 holes and geophysical surveys at the Blueberry zone. Results included 3.7 m grading 56.4 g/t Au and 33.8 g/t Ag, 2.0 m grading 88.4 g/t Au and 25.0 g/t Ag, 4.0 m grading 28.2 g/t Au and 17.5 g/t Ag, and 19.0 m grading 8.21 g/t Au. Drill results have increased the Blueberry zone's known depth of mineralization to 525 m and its strike length to 1.55 km. In 2023, Scottie Resources completed financings totalling \$8.38 million.



**Fig. 3.** Weathered semi-massive to massive sulphide mineralization (pyrite, pyrrhotite) that hosts gold within the Blueberry vein at the Scottie Gold project (Scottie Resources Corp.).

#### 7.1.14. Snip Gold (Skeena Resources Limited)

Hochschild Mining plc decided against exercising its right to earn a 60% interest and take over as operator for the **Snip Gold** project. As a result, the project is now 100% wholly owned by Skeena Resources Limited. The project includes the past-producing underground mine, which produced at an average grade of 27.5 g/t Au between 1991 and 1999. The deposit is a southwest-dipping vein system in Upper Triassic

metasedimentary rocks of the Stuhini Group that are cut by Early Jurassic stocks and plutons. In September, Skeena released an updated mineral resource estimate with an Indicated resource of 2.74 Mt grading 9.35 g/t Au and an Inferred resource of 0.5 Mt grading 7.10 g/t Au.

#### 7.1.15. Thorn (Trapper Gold) (Brixton Metals Corporation)

The **Thorn** project (Fig. 4), in the northwest corner of British Columbia, has one of the largest continuous mineral tenure packages in the province, and has 14 defined copper-gold-silver targets. Brixton completed 6625 m of diamond drilling in eleven holes at the **Thorn (Trapper Gold)** target. Geological mapping, prospecting, soil, and rock sampling programs were also carried out at several of their targets. Results from the Trapper Gold epithermal target include 98.0 m grading 0.62 g/t Au and 1.42 g/t Ag, including a 32.0 m interval grading 1.15 g/t Au and 2.07 g/t Ag, and a 6 m interval grading 5.07 g/t Au and 6.23 g/t Ag. Another hole assayed 253 m grading 1.40 g/t Au including 93.0 m grading 3.22 g/t Au, and 12.31 m grading 16.18 g/t Au. In December, Brixton completed financings totalling \$14.5 million.



**Fig. 4.** Looking east along the Thorn Trapper target with vein-hosted sulphide mineralization in Cretaceous quartz diorites intruding into Upper Triassic Stuhini group volcanic and volcanoclastic rock (Brixton Metals Corporation).

#### 7.1.16. Wishbone (Origen Resources Inc.)

The **Wishbone** property extends across an area of 3941 ha 50 km west of the Galore Creek proposed mine and immediately north of its access road. The property has eleven areas targeted for gold-silver bearing quartz-carbonate veins and VMS-style mineralization. Origen performed geological mapping, prospecting, soil, and rock sampling in 2023. Highlight rock samples graded 202.6 and 76.6 g/t Au.

### 7.2. Selected precious and base metal projects

Many precious and base metal projects are active throughout the Northwest Region (Fig. 1; Table 5).

#### 7.2.1. BAM (Jan Copper) (P2 Gold Inc.)

P2 Gold drilled 2 holes totalling 913 m at their **BAM** project.

One hole was drilled at the Jan Copper zone. The company reported geochronologic work, without details, indicating Jan Copper zone mineralization is likely linked to 321 Ma intrusive rocks, significantly older than the Monarch Gold zone, which is hosted in 220 Ma (Late Triassic) rocks. Geological mapping, prospecting, and rock sampling were also completed. P2 Gold later relinquished their option on mineral tenures in the southern part of BAM, including the Jan Copper zone.

#### 7.2.2. Big Gold (Teuton Resources Corp.)

The **Big Gold** Property is 7 km north of the historic Granduc mine and consists of six claims totalling 2835 ha in a larger block of eight properties known as the Luxor project, which extends across 21,540 ha. Exploration in 2023 consisted of prospecting, geological mapping, and rock sampling. A total of 120 samples were taken for hyperspectral analysis to aid with alteration mapping. Exploration identified a massive sulphide occurrence more than 25 m long called the Roman zone. Highlight rock samples assayed 27.7 g/t Au, 6240 g/t Ag, 1.45% Cu, 6.4% Pb, and 3.11% Zn, and 57.1 g/t Ag, 0.72% Cu, 12.1% Pb, and 9.32% Zn.

#### 7.2.3. Bingo (Juggernaut Exploration Ltd.)

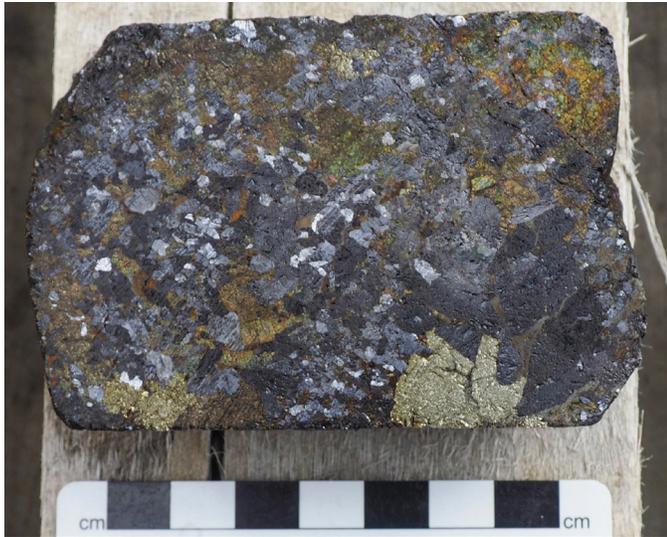
The **Bingo** property extends across 989 ha 45 km southwest of Stewart. Juggernaut Exploration Ltd. completed its first drilling with 1017 m in seven holes. Exploration included prospecting, mapping, and rock sampling. Drilling at the Bingo Main zone identified a 550 by 300 m mineralized area with shear-hosted quartz veins. Highlight drill results include 5.11 m grading 7.57 g/t Au, 20.23 g/t Ag, and 2.72% Cu including a 2.90 m interval grading 13.05 g/t Au, 24.93 g/t Ag, and 4.70% Cu. Another interval of 10.12 m graded 2.52 g/t Au, 11.05 g/t Ag, and 1.16% Cu, including a 5.89 m interval grading 4.01 g/t Au, 17.37 g/t Ag, and 1.85% Cu.

#### 7.2.4. Blue (Core Assets Corp.)

Core Assets drilled 4260 m in 41 holes at their **Blue** property. The Blue property contains a number of projects. Drilling was focused on multiple targets at the Silver Lime project. Core from Pete's target contained massive sulphide mineralization (Fig. 5). Results at the Gally target included 0.5 m grading 1030 g/t Ag, 21.6% Zn, 10.8% Pb, and 1.16% Cu within 8.0 m grading 139 g/t Ag, 2.3% Zn, 1.2% Pb, and 0.18% Cu. Core Assets also carried out prospecting, geological mapping, and an IP geophysical survey and completed financings for \$6.63 million.

#### 7.2.5. Buck (Sun Summit Minerals Corp.)

Sun Summit Minerals Corp.'s 15,000 ha **Buck** property is accessible by an all-season road, 12 km south of Houston. The property is underlain by andesitic to rhyolitic tuffs, flows, and breccias of the Hazelton Group (Upper Triassic to Lower Jurassic). Sulphides occur in veinlets, disseminations, or coarse fracture fillings, mainly in rhyolitic breccias. Sun Summit carried out 3738 m of drilling in 13 holes at the Buck Main



**Fig. 5.** Mineralized drill core (galena, sphalerite, chalcopyrite, pyrrhotite, pyrite), Pete's target, Silver Lime project, Blue property (Core Assets Corporation).

zone with focus to expand high-grade and bulk tonnage gold mineralization both laterally and at depth. Exploration work included geological mapping, prospecting, and soil and rock sampling. Two rock samples from the newly discovered CR zone returned 1.00% Cu and 3.2 g/t Ag, and 0.94% Cu and 4.1 g/t Ag. Drill results included 185.9 m grading 0.39 g/t Au, 8.2 g/t Ag, and 0.53% Zn including a 11.9 m interval grading 1.26 g/t Au, 7.4 g/t Ag, and 0.64% Zn. Another interval of 1.5 m graded 6.79 g/t Au and 1.8 g/t Ag.

#### 7.2.6. Cambria (Scottie Resources Corp.)

The **Cambria** project includes 31,736 ha across 140 mineral tenure blocks less than 1 km from Stewart. It is at the western edges of the Cambria and Todd icefields, bordering Ascot Resource's Red Mountain proposed mine to the east and the Premier gold mine to the west. Scottie Resources continued to advance the project through detailed geological mapping, soil sampling, and prospecting.

#### 7.2.7. Clone (Teuton Resources Corp. 75%, Silver Grail Resources Ltd. 25%)

The **Clone** property was first staked in 1995. It is 20 km southeast of Stewart and 16 km south of the Red Mountain proposed gold mine. Gold and gold-cobalt mineralization is in a series of sub-parallel shear zones that have an approximate strike length of 500 m. Exploration in 2023 included prospecting, geological mapping, and rock sampling.

#### 7.2.8. Consolidated Eskay (Eskay Mining Corp.)

Eskay Mining Corp. completed 5700 m of drilling in 24 holes, carried out prospecting, geological mapping, and rock sampling across their **Consolidated Eskay** gold project. Drilling was completed at several new exploration targets in search of volcanogenic massive sulphide mineralization.

Targets included Cumberland, Scarlet Knob, Tarn Lake, Storie Creek, Maroon Cliffs, and Hexagon-Mercury. VMS mineralization was intersected at each of the six new targets.

Eskay Mining also conducted prospecting, geological mapping, and rock sampling of the Scarlet Ridge-Tarn Lake trend, Scarlet Valley, Cumberland, and Hexagon-Mercury targets. Several drill intersections at the Cumberland target returned high grade gold and silver such as 15.0 m grading 3.02 g/t Au, 68.66 g/t Ag, 0.24% Cu, 0.73% Pb, and 4.86% Zn including 3.41 m grading 8.48 g/t Au, 103.27 g/t Ag, 0.23% Cu, 1.08% Pb, and 4.16% Zn. Tarn Lake drilling results included 2.45 m grading 7.83 g/t Au and 6.96 g/t Ag including 0.95 m grading 12.4 g/t Au and 10.0 g/t Ag. Rock samples from massive sulphide discovered at Scarlet Knob (Fig. 6) graded 22.26 g/t Au, 461.97 g/t Ag, 0.22% Cu, 14.57% Zn, and 10.50% Pb.



**Fig. 6.** Outcrop of massive to semi-massive sulphide mineralization (outlined in red), Scarlet Knob discovery, Consolidated Eskay project (Eskay Mining Corp.).

#### 7.2.9. Crown (Electrum) (Goldstorm Metals Corp.)

The **Crown (Electrum)** property is part of Goldstorm Metals Corp.'s **Crown** project, a 16,469 ha mineral tenure area that consists of several properties: Mackie East and West, Orion, High North, Fairweather, Delta and Electrum. The property is 15 km south of the Brucejack mine. The area is being targeted for precious metal veins, subaqueous hot spring VMS mineralization, and porphyry Au-Cu mineralization. Goldstorm drilled 2581 m in eleven holes at Electrum. Highlight drilling results include 0.5 m grading 233.5 g/t Au, 756.0 g/t Ag, 0.73% Pb, and 0.51% Zn within an interval of 2.1 m grading 57.34 g/t Au, 214.27 g/t Ag, 0.19% Pb, and 0.16% Zn, within a 4.5 m interval grading 27.0 g/t Au, 111.09 g/t Ag, 0.10% Pb, and 0.09% Zn. Other work completed included geological mapping, prospecting, and rock sampling.

### 7.2.10. Empire (Juggernaut Exploration Ltd.)

The **Empire** property area is 12,480 ha and is 70 km northeast of Terrace. Juggernaut drilled 1500 m at the Metallica zone of the Empire property. Prospecting and rock sampling were also carried out. Rock sample highlights include a grab sample of a vein with massive sulphide mineralization assaying 36,875 g/t Ag, 4.68 g/t Au, 27.6% Cu, and 3.27% Zn. A channel sample (length not reported) assayed 22,694 g/t Ag, 26.4% Cu, and 2.8% Zn.

### 7.2.11. Eskay Rift (Teuton Resources Corp.)

The **Eskay Rift** property is 5 km northeast of the historic Granduc mine and approximately 20 km south of the KSM deposit. Exploration included prospecting, geological mapping, and rock sampling.

### 7.2.12. Golddigger (Goliath Resources Ltd.)

The **Golddigger** property is 7 km west of the Dolly Varden mine access road. At the Surebet and Main zones, stratabound massive sulphide mineralization (galena-sphalerite-pyrite) and silica alteration occur in folded Hazelton Group sedimentary and volcanoclastic rocks along northwest-trending faults. Goliath completed 34,000 m of diamond drilling in 124 holes, geological mapping, prospecting, and rock sampling. Drilling focused at the Surebet target with 98 of the 124 holes completed there. Reported results included 7.90 m grading 64.88 g/t Au and 8.03 g/t Ag including 5.90 m grading 86.84 g/t Au and 6.52 g/t Ag, including 2.75 m grading 186.0 g/t Au and 13.29 g/t Ag.

### 7.2.13. Holy Grail (Prospect Ridge Resources Corp.)

The **Holy Grail** property extends across 69,515 ha and is 10 km north of Terrace. Prospect Ridge acquired 100% ownership of the project and completed geological mapping, prospecting, and rock sampling. Highlight results released in 2023 from previous field seasons for the 4 Shore showing include 28.0 g/t Au, 56.9 g/t Ag, and 2.03% Cu, and another sample with 13.7 g/t Au, 39.9 g/t Ag, and 1.33% Cu.

### 7.2.14. Hoodoo (Skeena Resources Limited)

The **Hoodoo** property was acquired through the acquisition of Quest Ex Gold & Copper Ltd. in 2022. It is 50 km northwest of Eskay Creek and directly north of the Rock and Roll property. Skeena did stream-sediment sampling and prospecting.

### 7.2.15. Iskut (Seabridge Gold Inc.)

The **Iskut** project includes the former Johnny Mountain mine and the Bronson Slope copper-gold deposit. Seabridge carried out 19,830 m of diamond drilling in 23 holes, and an airborne magnetic, and ground magnetotelluric geophysical surveys. Drilling discovered new mineralization that consists of an intact, well-preserved intermediate sulphidation epithermal system. Highlight results from the Snip North target include 1.8 m grading 15.3 g/t Au, 430.0 g/t Ag, and 1.5% Cu, 277 m grading 0.8 g/t Au, 1.19 g/t Ag, and 0.07% Cu, 21.0 m grading

1.73 g/t Au, 2.2 g/t Ag, and 0.07% Cu, and 253 m grading 0.61 g/t Au, 1.36 g/t Ag, and 0.07% Cu.

### 7.2.16. Kitsault Valley (Dolly Varden) (Dolly Varden Silver Corporation)

The Homestake Ridge project was combined with the Dolly Varden Silver project to consolidate into the Kitsault Valley project in 2022. **Kitsault Valley (Dolly Varden)** contains a total Indicated resource (June 2023) of 3.417 Mt grading 317 g/t Ag, and a total Inferred resource of 1.296 Mt grading 250.9 g/t Ag.

The 2023 drilling objective was to infill and expand resources at Dolly Varden and Homestake Ridge and to increase mineral estimates from Indicated and Inferred to Measured and Indicated. This year Dolly Varden completed one of the largest drilling programs in the province with 51,454 m in 115 holes. This drilling intersected multiple sections with visible silver (Fig. 7). Drilling at Dolly Varden intersected 26.99 m grading 296 g/t Ag, 1.68% Pb, and 3.01% Zn, 10.74 m grading 371 g/t Ag, 2.82% Pb, and 4.99% Zn including 0.5 m grading 1475 g/t Ag, 10.65% Pb, and 12% Zn, and 29.34 m grading 381 g/t Ag including 1.0 m grading 1898 g/t Ag.

The immediate area of the Dolly Varden property has a long history of mining. Between 1910 and 1959, the Dolly Varden mine produced more than 20 Moz of silver. The property is underlain by Hazelton Group volcanic and volcanoclastic rocks. Historic and recent exploration suggest the potential for epithermal base and precious metal and volcanogenic massive sulphide deposits.

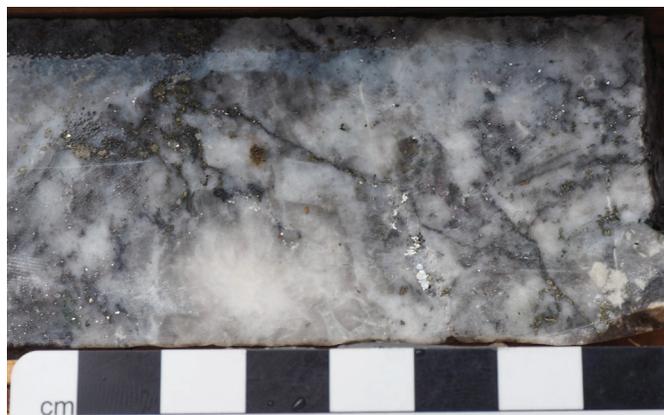


Fig. 7. Visible silver in core of a quartz-carbonate vein, Dolly Varden deposit. Kitsault Valley project (Dolly Varden Silver Corporation).

### 7.2.17. Knauss Creek (Prospect Ridge Resources Corp.)

The **Knauss Creek** property is located about 35 km northeast of Terrace where Prospect Ridge Resources Corp. is exploring the potential for polymetallic veins, skarn, and porphyry mineralization. Prospect Ridge completed geological mapping, prospecting, and rock sampling at Knauss Creek. Highlight rock sample results include assays of: 78.90 g/t Au, 457 g/t Ag, and 13.45% Cu; 23.80 g/t Au, 738 g/t Ag, and 5.42% Cu; 15.20 g/t Au, 1970 g/t Ag, and 0.39% Cu; and 20.60 g/t Au, 175.0 g/t Ag and 0.54% Cu.

### 7.2.18. KSP (Skeena Resources Limited)

The **KSP** property is a 64,000 ha tenure area, 24 km southwest of Eskay Creek. Exploration consisted of stream-sediment sampling the results of which were combined with historical data to guide prospecting, geological mapping, and rock sampling. Highlight rock samples include 14.20 g/t Au, 11.4 g/t Ag, 1.09% Cu, and 0.05% Zn, and 9.26 g/t Au, 6.9 g/t Ag, 0.71% Cu, and 0.02% Zn.

### 7.2.19. Maestro (Quartz Mountain Resources Ltd.)

The **Maestro** property is 15 km north of the town of Houston. The property is underlain by Hazelton Group Lower to Mid-Jurassic volcanic and volcanoclastic rocks, with local areas underlain by Upper Jurassic Bowser Lake Group sedimentary rocks. Two main styles of mineralization occur in the property area. The predominant style is structurally controlled quartz veins with disseminated molybdenite and chalcopyrite, along with associated pyrite, chalcopyrite, galena, sphalerite and tetrahedrite veins, commonly silver bearing. The other style of mineralization is quartz and ankerite veins, breccias and zones of disseminated sulphides, spatially associated with green sericite alteration. Quartz Mountain Resources Ltd. completed two drill holes totalling 1445 m.

### 7.2.20. Midas (Juggernaut Exploration Ltd.)

The **Midas** Property is 24 km southeast of Terrace and extends across an area of 20,803 ha. More than 4000 m was drilled at the property with a focus on the Kokomo discovery and following up on IP anomalies. Drill results include 22.0 m grading 0.22 g/t Au, 2.73 g/t Ag, 0.20% Cu, and 0.38% Zn, which included a 5.0 m interval grading 0.35 g/t Au, 6.10 g/t Ag, 0.64% Cu, and 0.67% Zn. Another 1.0 m interval graded 1.30 g/t Au, 8.92 g/t Ag, and 0.74% Cu. Highlight channel samples from the VG Zone included 4.34 m grading 10.28 g/t Au, 2 m grading 15.37 g/t Au, and 3.11 m grading 5.43 g/t Au. Other exploration included rock sampling, prospecting, geological mapping, and IP geophysical surveying.

### 7.2.21. Red Cliff (Decade Resources Ltd.)

The **Red Cliff** project is 20 km north of Stewart. Decade carried out more than 1600 m of diamond drilling in 23 holes, prospecting, geological mapping, and rock sampling. Four gold-bearing zones have been identified on the project, Red Cliff, Upper Montrose, Lower Montrose, and Waterpump. Drilling focused on better defining the Montrose zones. Highlight results include 6.09 m grading 2.03 g/t Au, 0.021% Cu, and 0.614% Zn. Another hole returned 1.6 m grading 3.91 g/t Au, 0.59% Cu, and 0.18% Zn.

### 7.2.22. Rock and Roll (Etruscus Resources Corp.)

The **Rock and Roll** property is 7 km northwest of the past-producing Snip mine. The property includes the Black Dog VMS deposit and the SRV zone. Etruscus carried out late season IP geophysics, geological mapping, and rock sampling to follow up on the Kashmir and Heather zones for porphyry

mineralization potential. Etruscus added 16 new mineral tenure blocks (Pheno claims) north of and contiguous with the Rock and Roll property for rare earth element potential.

### 7.2.23. Silver Hope (Finlay Minerals Ltd.)

The **Silver Hope** project's mineral tenure surrounds the past-producing Equity Silver mine, which operated from 1980 to 1994, processing 33.8 Mt grading 0.4% Cu, 64.9 g/t Ag, and 0.46 g/t Au. Finlay completed a lidar survey, biogeochemical sampling, soil mercury vapour surveys, soil sampling, prospecting, and contracted a machine-learning data review of the property. Results released in 2023 for drilling in 2022 included 31 m grading 0.2% Cu, 11.8 g/t Ag, and 0.22 g/t Au including a 11.42 m interval grading 0.49% Cu, 30.1 g/t Ag, and 0.41 g/t Au. Another hole intersected 76.57 m grading 0.45% Cu, 14.6 g/t Ag, and 0.14 g/t Au.

### 7.2.24. Silver Queen (Equity Metals Corp.)

The **Silver Queen** historic mine is 43 km south of Houston and is accessible by an all-season road. Since discovery, more than 500 drill holes and 9 km of underground workings have been completed on the property. In 2022, Equity released an updated mineral resource estimate with an Indicated resource of 3.445 Mt grading 3.5% Zn, 2.13 g/t Au, 189 g/t Ag, 0.24% Cu, and 0.6% Pb. An Inferred resource of 1.9 Mt of 2.0% Zn, 0.82 g/t Au, 167 g/t Ag, 0.23% Cu, and 0.5% Pb (resources at NSR cut off of \$100/t). In 2023, Equity completed prospecting, rock and soil sampling, and 9989 m of diamond drilling in 26 holes. Drilling first focused on the Camp and Sveinson deposits, then later at the George Lake and Cole Lake targets. Highlight results from the George Lake target included 0.6 m grading 1.5 g/t Au, 1073 g/t Ag, 6.3% Cu, 4.0% Pb, and 1.6% Zn within a 4.1 m interval grading 0.5 g/t Au, 209 g/t Ag, 1.7% Cu, 0.7% Pb, and 0.4% Zn. Other results included 0.3 m grading 4.1 g/t Au, 824 g/t Ag, 0.7% Cu, and 3.4% Pb within 1.5 m grading 1.3 g/t Au, 226 g/t Ag, 1.0% Cu, 1.7% Pb, and 6.6% Zn, and 0.5 m grading 10.4 g/t Au, 115 g/t Ag, 0.6% Cu, 0.9% Pb, and 1.4% Zn. Highlight rock samples from the Cole Lake target graded 55.2 g/t Au, 5049 g/t Ag, 3.2% Pb, and 0.12% Zn, and 1736 g/t Ag, 22.7% Pb, and 1.2% Zn.

### 7.2.25. Terrace (Decade Resources Ltd.)

The **Terrace** project has three main properties: Terrace Gold, Treasure Mountain, and Dardanelle, approximately 20 km east of Terrace. Mineral tenure consists of 48 contiguous claims totalling 17,470 ha. Decade carried out 5300 m of diamond drilling in 37 holes, rock sampling, and prospecting, mostly at the Terrace Gold property. Drilling tested the Excelsior and Croesus showings for porphyry copper potential. The company reported narrow zones of quartz veining containing chalcopyrite; one hole had molybdenum mineralization on fracture surfaces and in quartz veinlets. Decade also reported they had identified a new 50 by 30 m zone of mineralized outcrop that returned grab sample results up to 10% Cu, 502 g/t Ag, and 4 g/t Au.

### 7.2.26. Treaty Creek (Tudor Gold Corp. 60%, Teuton Resources Corp. 20%, American Creek Resources Ltd. 20%)

Tudor Gold Corp.'s **Treaty Creek** project has a bulk tonnage resource in Jurassic volcanic and intrusive rocks that also host the KSM deposits 5 km to the southwest. A new mineral resource estimate was released (March 2023) with 641.9 Mt of Indicated resource grading 0.91 g/t Au, 5.45 g/t Ag, and 0.15% Cu, and 233.9 Mt of Inferred grading 0.74 g/t Au, 5.99 g/t Ag, and 0.16% Cu. Exploration at Treaty Creek consisted of 31,904 m of diamond drilling in 34 holes. Drilling focused on mineralized structures not currently in the resource model that are thought to host high-grade gold. Highlight results include 601.5 m grading 1.23 g/t Au, 2.93 g/t Ag, and 0.12% Cu including a 123 m interval grading 3.23 g/t Au, 5.57 g/t Ag, and 0.19% Cu, and a 15 m interval grading 14.89 g/t Au, 4.72 g/t Ag, and 0.6% Cu. Another interval of 19.5 m graded 5.41 g/t Au, 1.09 g/t Ag, and 0.24% Cu. In 2023, Tudor Gold completed financings totalling \$27.8 million.

### 7.2.27. Walter (Centerra Gold Inc.)

Centerra Gold Inc. was active at its **Walter** project, collecting 397 soil and 27 channel samples.

## 7.3. Selected base metal projects

The Northwest Region contains several base metal projects. One is an ultramafic-hosted nickel project (Fig. 1; Table 5). Base metals are explored for primarily as polymetallic vein, VMS and, to lesser extent, SEDEX and manto replacement deposits.

### 7.3.1. Ruby Creek (Stuhini Exploration Ltd.)

Stuhini Exploration Ltd. completed the acquisition of the **Ruby Creek** property in June. The property is 14 km from Atlin, extends across 28,631 ha, and is road accessible. A mineral resource estimate (March 2022) has a combined Measured and Indicated resource of 369.4 Mt grading 0.053% Mo and an Inferred resource of 41.9 Mt grading 0.047% Mo. Stuhini carried out mapping, prospecting, and rock sampling. Highlight rock sample results from the Volcanic Creek target included assays of 1.098% Mo, 0.77% Mo, and 0.57% Mo.

### 7.3.2. Turnagain (Giga Metals Corp.)

The **Turnagain** nickel-cobalt deposit is an Alaskan-type Pt-(Os-Rh-Ir) ultramafic. The deposit has maximum dimensions of 3 km by 8.2 km and displays a dunite core surrounded by peripheral peridotite, pyroxene-rich peridotite, wehrlite, and olivine pyroxene. Sulphide mineralization includes pyrrhotite, pentlandite, chalcopyrite, and trace bornite. In 2022, Giga Metals completed a joint venture transaction, with Mitsubishi Corporation earning a 15% equity interest in Turnagain and forming a new company, Hard Creek Nickel Corp. Giga Metals announced a positive Pre-Feasibility study for a post-tax 11.4% internal rate of return and net present value of \$574 million based on a 30-year project life at a long-term

nickel price of \$9.75/lb, with 78% payability for nickel in concentrate. With the Pre-Feasibility study came an updated mineral resource estimate that added Pd and Pt. The total Measured and Indicated resource is now 1.574 Bt at 0.210% Ni, 0.013% Co, 0.020 g/t Pd, and 0.022 g/t Pt, and the Inferred resource is 1.164 Bt at 0.206% Ni, 0.012% Co, 0.016 g/t Pd, and 0.018 g/t Pt.

## 7.4. Selected base and precious metals projects

The Northwest Region hosts many base and precious metals projects (Fig. 1; Table 5). Many of these projects are porphyry deposits that are highly prospective for Au-Cu-Mo bulk-tonnage mineralization related to Triassic-Jurassic island arc assembly and post-accretionary intrusive complexes.

### 7.4.1. Berg (Surge Copper Corp.)

In December, Surge Copper Corp. announced they had entered into a definitive purchase agreement to acquire a 100% interest in the **Berg** project from Thompson Creek Metals Company Inc., a wholly owned subsidiary of Centerra Gold Inc. A Preliminary Economic Assessment was released in July for the Berg deposit stating a net present value of \$2.1 billion and an internal rate of return of 20% for a 30-year mine life. The updated resource estimate has a total Measured and Indicated resource of 1.009 Bt grading 0.23% Cu, 0.03% Mo, and 4.6 g/t Ag, and an Inferred resource of 542 Mt grading 0.17% Cu, 0.02% Mo, and 3.7 g/t Ag. Exploration included three holes totalling 2077 m of diamond drilling, geological mapping, prospecting, and soil and rock sampling. Results included 756.0 m grading 0.26% Cu, 0.026% Mo, and 3.6 g/t Ag, including 90.0 m of 0.42% Cu, 0.004% Mo, and 2.8 g/t Ag.

### 7.4.2. Burn (Commander Resources Ltd.)

Freeport-McMoRan Mineral Properties Canada Inc. has entered into a joint-venture agreement to earn up to a 75% interest in the **Burn** copper and gold porphyry project with Commander Resources Ltd. as the operator. Exploration in 2023 included 4000 m of diamond drilling, geological mapping, prospecting, and rock sampling.

### 7.4.3. Crown (Orion) (Goldstorm Metals Corp.)

The **Orion** property is part of Goldstorm Metals Corp.'s **Crown** project, a 16,469 ha mineral tenure area that consists of several properties: Mackie East and West, Orion, High North, Fairweather, Delta and Electrum. The project is directly south of KSM and 4 km southwest of the Brucejack mine. The area is being targeted for precious metal veins, subaqueous hot spring VMS mineralization, and porphyry Au-Cu mineralization. Work completed included geological mapping, prospecting, and rock sampling (total of 1057 including seven channel saw-cut, 284 chip, 766 grab). Rock sampling at the Orion area discovered a new target, referred to as the Copernicus zone, a 200 m by 800 m area with polymetallic sulphide mineralization. Rock samples from Orion included a 0.25 m chip sample that

graded 0.67 g/t Au, 320.0 g/t Ag, 11.96% Cu, 0.088% Co, and 0.55% Zn, and a 0.5 m channel sample grading 0.28 g/t Au, 226.0 g/t Ag, 6.95% Cu, 0.079% Co, and 0.37% Zn.

#### 7.4.4. Duke (Amarc Resources Ltd.)

Amarc Resources Ltd.'s **Duke** project is north of Babine Lake at the edge of the Northwest and North Central Mineral Development Office regions. Amarc completed winter diamond drilling with 11,070 m drilled in 24 holes. Work is funded by Boliden Mineral Canada Ltd. who, in November 2022, entered into an earn-in agreement for 60% ownership of the project by spending \$30 million in four years and an additional 10% by spending a further \$60 million in six years. Regional exploration in 2023 included a 5759 line-km airborne magnetic survey, a lidar survey, 68 line-km of ground magnetics, 122 line-km of IP geophysics, detailed geological mapping, prospecting, and soil and rock sampling. Results from the 2022-23 drilling program include 541.6 m grading 0.24% Cu, 0.016% Mo, 0.04 g/t Au, and 1.2 g/t Ag, 238.2 m grading 0.29% Cu, 0.019% Mo, 0.06 g/t Au, and 1.4 g/t Ag, and 125.6 m grading 0.38% Cu, 0.024% Mo, 0.08 g/t Au, and 1.8 g/t Ag.

#### 7.4.5. Dungate (Edgemont Gold Corp.)

Edgemont's **Dungate** Cu-Au porphyry project extends across 1582 ha 6 km southeast of Houston. Edgemont worked on advancing a mineral resource estimate.

#### 7.4.6. Eaglehead (Northern Fox Copper Inc.)

Northern Fox's **Eaglehead** project, 50 km east of Dease Lake, is a calc-alkalic porphyry Cu-Mo-Au-Ag deposit in Jurassic rocks of Quesnel terrane. The area is underlain by porphyritic biotite granodiorite intruding quartz porphyry and hornblende quartz diorite. Higher copper grades are spatially related to intensity of potassic and sericite-chlorite alteration and zones of increased quartz vein, late-stage magmatic breccia, and fracture density. Chalcopyrite, bornite, and pyrite also occurs as disseminations in the host rock (Bird, 2023). Northern Fox completed an updated mineral resource estimate for the Eaglehead Project. The deposit now has an Indicated resource of 70.81 Mt grading 0.221% Cu, 0.0108% Mo, 0.061 g/t Au, and 0.9 g/t Ag. Inferred resources are 242.3 Mt grading 0.192% Cu, 0.0035% Mo, 0.043 g/t Au, and 0.6 g/t Ag at a \$5.50 NSR cut off.

#### 7.4.7. George Copper (MTB Metals Corp.)

MTB Metals Corp.'s **George Copper** project is part of MTB's BA property. The property is 18 km northeast of Stewart. Highway 37A and the Northwest Transmission Line run through the property. This year, exploration at George Copper included three drill holes, geological mapping, and rock sampling. The three drill holes intersected sulphide mineralization consisting of pyrite, chalcopyrite, and sphalerite.

#### 7.4.8. Kispiox Mountain and Netalzul Mountain (Jaxon Mining Inc.)

The Hazelton property consists of five projects with potential for polymetallic veins, porphyry Cu, and epithermal mineralization. For the **Kispiox Mountain** project, a petrographic study was completed; exploration included soil and rock sampling and portable-backpack drilling. Further geophysical inversion modelling was compiled with geochemical data for the **Netalzul Mountain** project to update the 3D geological model.

#### 7.4.9. Hat (Doubleview Gold Corp.)

Doubleview report their **Hat** project as a gold-rich copper porphyry with silver and additional critical metals including cobalt, palladium, and scandium. For 2023, 10,320 m was drilled at Hat. Drilling results included 143.3 m grading 0.36% Cu, 0.43 g/t Au, 0.64 g/t Ag, 134.6 g/t Co, and 1.29 g/t Sc. Within this interval, 77.2 m graded 0.48% Cu, 0.64 g/t Au, 0.9 g/t Ag, 147 g/t Co, and 1.51 g/t Sc.

#### 7.4.10. Hwy 37 (Kingfisher Metals Corp.)

Kingfisher Metals has entered two option agreements to consolidate the two properties previously known as Ball Creek East and Hank into the **Hwy 37** copper-gold project. The new project extends across 36,200 ha, immediately west of Highway 37 and approximately 50 southwest of Iskut. In March, the two four-year options were completed, giving Kingfisher a 100% earn-in interest in both properties. The area is being targeted for porphyry Cu-Ag and epithermal gold deposits. Kingfisher completed 2150 m of diamond drilling in six holes.

#### 7.4.11. Lucky Strike (Goliath Resources Ltd.)

Goliath Resources Ltd. owns a 49% interest in the **Lucky Strike** property with an option to acquire an additional 51%. The property extends across 31,511 ha, is road accessible, and is 40 km north of Terrace. The newly discovered Bullseye Au-Cu-Ag porphyry system is defined by a 1200 by 1000 m area of alteration with porphyry outcropping at surface. Goliath completed 1000 m drilling and also carried out geological mapping, prospecting, rock sampling and geophysical surveying.

#### 7.4.12. NAK (American Eagle Gold Corp.)

American Eagle Gold Corp. carried out 7781 m of diamond drilling in ten holes at the **NAK** copper-gold project and owns a 100% option to purchase the property. Results included 302 m grading 0.53 g/t Au, 0.40% Cu, 1.27 g/t Ag, and 431 ppm Mo within 771 m grading 0.28 g/t Au, 0.25% Cu, 0.96 g/t Ag, and 207 ppm Mo. American Eagle also completed an exploration agreement with the Lake Babine First Nation to get consent for a 5-year exploration program and participation in any environmental baseline work conducted.

#### 7.4.13. Newmont Lake (Enduro Metals Corporation)

Enduro Metals Corporation discovered new porphyry copper-gold mineralization at their North Toe prospect on the **Newmont Lake** project. Exploration at Newmont Lake consisted of geological mapping, prospecting, rock sampling, and drone magnetic geophysical surveying. Rock sampling highlights include 0.77% Cu and 0.20 g/t Au, 0.31% Cu and 0.63 g/t Au, and 2.04% Cu and 104 g/t Ag.

#### 7.4.14. Ootsa (Surge Copper Corp.)

The **Ootsa** project contains three separate deposits: Ox, East Seel, and West Seel. The project is at the edge of a southeast-trending belt of porphyry Cu-Au deposits and prospects with four other deposits northwest of Ootsa including Lucky Ship, Berg, Whiting Creek, and Huckleberry. Like other deposits in the region, calc-alkaline porphyry mineralization at Ootsa is temporally associated with the Bulkley suite intrusive rocks (Cretaceous). In 2022, a mineral resource estimate reported a Measured and Indicated resource of 438.6 Mt grading 0.18% Cu, 0.017% Mo, 0.12 g/t Au, and 2.1 g/t Ag, and an additional Inferred resource of 137.7 Mt grading 0.15% Cu, 0.015% Mo, 0.10 g/t Au, and 2.0 g/t Ag. This year, Surge's focus was mainly on their Berg project. Exploration at Ootsa consisted of geological mapping, prospecting, rock, and soil sampling.

#### 7.4.15. Oweege (Sanatana Resources Inc.)

Sanatana's **Oweege** Cu-Au porphyry project is along Highway 37 and is crossed by the Northwest Transmission Line. This year, Sanatana carried out 8.5 line-km of 3D surface IP geophysics at Oweege. Assays from 2022 were reported this year and highlights include 112.1 m grading 0.17% Cu, 0.22 g/t Au, and 1.10 g/t Ag, and 196 m grading 0.09% Cu, 0.13g/t Au, and 1.5g/t Ag.

#### 7.4.16. Poplar (Universal Copper Ltd.)

The **Poplar** project is road accessible, extends across an area of 61,566 ha and has a high voltage hydro-electric line crossing through it. The property is in a historic mining region south of Houston, and 35 km north of the Huckleberry mine. The project has an Indicated resource of 152.3 Mt grading 0.32% Cu, 0.009% Mo, 0.09 g/t Au, and 4.95 g/t Ag, and an Inferred resource of 139.3 Mt grading 0.29% Cu, 0.005% Mo, 0.07 g/t Au, and 4.95 g/t Ag calculated at a 0.20% Cu grade cut off (September 2021). Universal Copper completed a 1933 line-km airborne magnetotelluric survey.

#### 7.4.17. Rancheria South (CMC Metals Ltd.)

The **Rancheria South** project includes three properties: Rancheria South, Amy, and Silverknife. These properties are adjacent and west of the Silvertip Mine along the BC-Yukon border. Exploration here is focused on silver-lead-zinc-gold carbonate replacement mineralization similar to Silvertip, polymetallic veins, and skarn mineralization. CMC Metals Ltd. completed 2143 m drilling in eleven drill holes and a gravity geophysical survey at the Silverknife property.

#### 7.4.18. Red Line (Copperhead Resources Inc.)

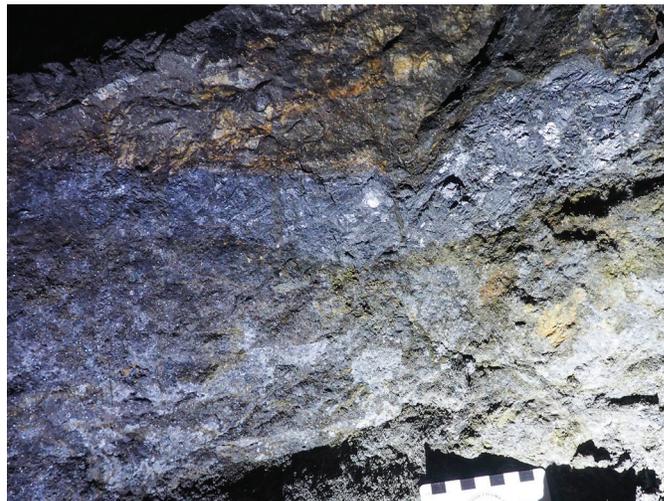
The **Red Line** project was started to target potential mineralization along the contact between Stuhini Group volcanic rocks (Upper Triassic) and siliciclastic rocks in the lower part of the Hazelton Group (Upper Triassic to Lower Jurassic). Exploration consisted of geological mapping, prospecting, and rock sampling. Copperhead is exploring a K-feldspar porphyritic syenite known in the area to have potential for alkalic porphyry Cu-Au-Ag deposits.

#### 7.4.19. Schaft Creek (Teck Resources Limited 75%, Copper Fox Metals Inc. 25%)

The **Schaft Creek** porphyry deposit is an advanced-stage joint venture with a Measured and Indicated resource (September 2021) of 1.346 Bt grading 0.26% Cu, 0.16 g/t Au, 0.017% Mo, and 1.25 g/t Ag. Inferred resources are 343.6 Mt grading 0.17% Cu, 0.11 g/t Au, 0.013% Mo, and 0.84 g/t Ag. In 2023, focus was on geoscience and engineering, geotechnical and environmental data collection, community support, infrastructure upgrades, and permitting. Teck completed geotechnical drilling totalling 9000 m. Environmental baseline data were collected for future permit regulatory requirements.

#### 7.4.20. Silvertip (Coeur Mining Inc.)

The **Silvertip** mine remains on care and maintenance while Coeur Mining Inc. redevelops the geological model, identifies new structures and carbonate-replacement deposit manto and chimney mineralization, and expands the resource in all directions. An updated mineral resource estimate was released at year-end 2022 including a Measured and Indicated resource containing 60.12 Moz Ag, 1.365 Blbs Zn, and 722.2 Mlbs Pb. Coeur's 2023 exploration program included 30,000 m of drilling in 85 holes. The focus of drilling was resource expansion and step-outs at the Southern silver zone, to test underneath the Discovery zone, and to define a resource at the Saddle zone. More manto mineralization was found at the Camp Creek west zone, Saddle zone, and the Southern Silver zone (Fig. 8).



**Fig. 8.** Galena vein (dark grey) in massive to semi-massive sulphide (pyrite, pyrrhotite, galena, sphalerite) Southern Silver zone, Silvertip mine (Coeur Mining Inc.).

Drilling indicated that manto mineralization at the Saddle zone potentially connects with the manto in the Discovery zone and to the Southern Silver zone chimney mineralization. Drilling intersected chimney/feeder structures beneath the currently known Southern Silver zone. Highlight results included 12 m grading 459.6 g/t Ag, 15.1% Zn, and 8.7% Pb, and 6.2 m grading 778.3 g/t Ag, 13.6% Zn, and 14.7% Pb.

#### 7.4.21. Tatogga (Saddle North) (Newmont Corporation)

Newmont Corporation's Tatogga project includes the **Tatogga (Saddle North)** deposit. The deposit has an Indicated resource (August 2020) of 298 Mt grading 0.28% Cu, 0.36 g/t Au, and 0.8 g/t Ag, and an Inferred Resource of 543 Mt grading 0.25% Cu, 0.31 g/t Au, and 0.7 g/t Ag. Newmont worked with the Tahltan Heritage Resources Environmental Assessment Team on a Tahltan land-use study and supported a local infrastructure study in Iskut through the Tahltan Industry Working Group.

#### 7.4.22. Telegraph (MTB Metals Corp.)

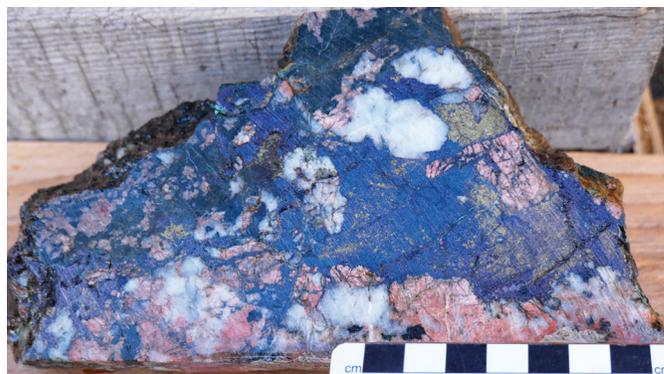
Mountain Boy's **Telegraph** project consists of multiple properties. Mountain Boy has a 60% option on the DOK property, 100% interest in the DOKX-Yeti property, and 100% interest in ground that they staked. Mountain Boy carried out 2142 m of drilling in four holes, geological mapping, an IP geophysical survey, prospecting, and soil and rock sampling at the DOK trend. Highlight drill results include 133.8 m grading 0.23% Cu, 0.11 g/t Au, 1.58 g/t Ag, and 20.63 ppm Mo, including 22.2 m grading 0.31% Cu, 0.21 g/t Au, 2.23 g/t Ag, and 7.96 ppm Mo. Another 6 m interval graded 0.11% Cu, 1.11 g/t Au, 4.54 g/t Ag, and 98.05 ppm Mo.

#### 7.4.23. Thorn (Camp Creek) (Brixton Metals Corporation)

Brixton continued to drill porphyry copper mineralization at the **Camp Creek** target of their **Thorn** project. Of the 16,730 m of diamond drilling completed in 2023, most was completed at the Camp Creek target (10,100 m in nine holes). Highlight results include 1202 m grading 0.228% Cu, 0.05 g/t Au, 2.27 g/t Ag, and 233 ppm Mo, including 630 m grading 0.336% Cu, 0.07 g/t Au, 2.74 g/t Ag, and 309 ppm Mo, which also included 109 m grading 0.511% Cu, 0.08 g/t Au, 3.7 g/t Ag, and 498 ppm Mo. Another drill hole had a 34 m interval grading 0.333% Cu, 0.09 g/t Au, 2.06 g/t Ag, and 243 ppm Mo. At other targets, several rock samples returned high grade copper-gold mineralization including 33.3% Cu, 7.0 g/t Au, and 238 g/t Ag at the East Target, 39.0 g/t Au and 65.9 g/t Ag at the South Target, and 13.0% Cu, 0.9 g/t Au, and 30.3 g/t Ag at the Plum target. More than 48 rock samples returned 1% Cu or greater (Fig. 9).

#### 7.4.24. Whiting Creek (Huckleberry Mines Ltd.)

The **Whiting Creek** property is 8 km north of the Huckleberry mine, which is currently on care and maintenance status. Mineralization is in stocks of the Bulkley plutonic suite (Late Cretaceous) that cut Hazelton Group volcanic rocks (Lower



**Fig. 9.** Bornite (blue) and chalcopyrite (yellow) in sample of quartz K-feldspar vein from regional Metla target of the Thorn project (Brixton Metals Corporation).

Jurassic). Chalcopyrite, molybdenite, and pyrite mineralization occurs as veinlets and disseminations. The best grades are in zones of potassic alteration. In addition to geological mapping and geophysical surveys, 2100 m of drilling (seven holes) was completed. Highlight results included 162.5 m grading 0.33% Cu and 1.64 g/t Ag, and 52.6 m grading 0.45% Cu and 1.29 g/t Ag.

## 8. Geological research

van Straaten et al. (2023) released GIS, structural, magnetic susceptibility, and other digital data to support the recently published map (van Straaten et al., 2022) of the Dease Lake area. van Straaten (2024) synthesized stratigraphic and geochronologic work focused on the upper part of the Hazelton Group along the Stikine arc in northern Stikinia. Norris et al. (2023) documented successive generations of alteration assemblages at the Red Chris mine, using stable isotopic geochemistry to establish early magmatic and later mixed magmatic and meteoric sources of hydrothermal fluids. Day and Marquez (2023) examined the distribution of selenium in materials from surface gossans to deeper-level rocks at the Red Chris mine. Working at the North Rok porphyry copper deposit, Moradpouri et al. (2023) used soil geochemistry to establish that the depth of erosion is supra-ore. Based on the initial season of a two-year field-based project along the British Columbia-Yukon border, Mihalyuk et al. (2024) presented the initial results of mapping in the Gladys Lake area near Atlin, reassigning ophiolitic rocks previously considered part of Cache Creek terrane to Atlin terrane and describing what might be distal ultramafic-associated massive sulphide (UAMS) mineralization. Also working near Atlin, Tominaga et al. (2023) tested high-resolution magnetic-geochemical mapping of ophiolitic rocks as a tool to monitor serpentinization distribution and processes.

Part of province-wide studies directed at critical minerals, Orovan et al. (2024) examined core at the past-producing Kitsault mine and recognized features (e.g., unidirectional solidification textures) that might record permeable structures that focused ore-bearing fluids, and Brzozowski and Zaborniak (2024) examined core at the E&L magmatic Ni-Cu-PGE

sulphide deposit. Brzozowski and Zaborniak (2024) provided textural evidence indicating that sedimentary rock assimilation contributed to the sulphide saturation history of the E&L magma and shallow-level volatile exsolution, sulphide liquid transport through conduit plumbing, and subsequent metal remobilization. To support current land-use decisions and to aid in the search for the critical minerals, the British Columbia Geological Survey has revitalized its mineral potential mapping work of the 1990s. This new work takes advantage of about 30 years of new data, knowledge, advances in GIS applications, and computer power to enable statistical analysis of spatial data using weights of evidence modelling. A comparison of results between work done in the 1990s and the current work for an area that includes a large part of the Northwest Region indicates that the new work largely corroborates the old and that both are of value for assisting land-use decisions and mineral exploration (Wearmouth et al., 2024).

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