

North of 60

Mining & Exploration Review 2024

New Break Resources Ltd.'s
Sundog Gold Project –
Nunavut's next big gold discovery?

Agnico Eagle integrating
Inuit culture and knowledge
into its mining activities

Pine Point Project supplying
critical minerals for the
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Message from the editor

As we traverse the vast and diverse landscapes of Canada's North, the stories that emerge from the heart of this rugged terrain paint a vivid picture of innovation, collaboration, and the melding of tradition with modernity.

In this issue of *North of 60* magazine, we explore the fascinating intersections between industry, culture, and sustainability, spotlighting pivotal developments shaping Canada's northern future.

On page 8, Agnico Eagle talks about their commitment to integrating Inuit culture and knowledge into their mining activities, which stands as a testament to the harmonious coexistence of traditional wisdom and contemporary practices. This feature delves into Agnico Eagle's impactful initiatives, illuminating how they honour and incorporate the rich heritage of the Inuit communities while engaging in responsible mining practices. The report provides insights into the ways in which traditional ecological knowledge is woven into the fabric of their operations, fostering mutual respect and cooperation for the land and its people.

Furthermore, Gold Terra's recent groundbreaking success in deep drilling, confirming the extension of a high-grade mineralized structure beneath the Con Mine workings, marks a significant milestone in the region's mining landscape. This accomplishment not only underscores the potential for substantial mineral resources, but also exemplifies the perseverance and dedication of the industry in unlocking the North's untapped potential.

In a world poised for a pivotal shift towards sustainable energy, Pine Point Mining emerges as a key player in supplying critical minerals vital for the green energy transition. As demand intensifies for these essential resources, the feature on page 28 sheds light on Pine

Point Mining's pivotal role, highlighting how their efforts contribute to the global initiative for a more sustainable future.

Beyond these featured articles, our publication showcases a myriad of stories capturing the essence of life in the North. From the breathtaking landscapes that encapsulate the untamed beauty of the Arctic to the vibrant cultures that thrive amidst the snow-capped peaks, we here at *North of 60* strive to encapsulate the diverse tapestry of this region's beauty.

As we navigate the complexities of progress, conservation, and cultural heritage, it becomes increasingly evident that sustainable development in the North hinges upon a delicate balance between innovation and preservation.

We extend our gratitude to our readers, contributors, and the communities whose stories enrich the pages of this publication. Your unwavering support fuels our commitment to bringing forth the narratives that shape the North's ever-evolving landscape.

We also invite you to view this magazine online via our site, miningnorthof60.com. On there you can also register your email to receive our biannual e-newsletter, *Mining Your Business*, which is sent direct to inboxes in the spring and fall. *Mining Your Business* highlights more northern mining news and if you are a fan of this publication, then we think you'll love the online companion.

Join us on this journey as we continue to unravel the captivating tales of resilience, progress, and coexistence that define the spirit of Canada's North.

Warm regards,

Shayna Wiwierski

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NORTHWEST TERRITORIES MINERALS AND PETROLEUM



Beyond community engagement

Agnico Eagle has established and consults with the Kivalliq Inuit Elders Committee so Inuit culture and traditional knowledge are considered and integrated into the company's exploration, planning, workforce, wellness and operational plans.

PHOTOS COURTESY OF AGNICO EAGLE MINES.

How Agnico Eagle integrates Inuit culture and knowledge into its mining activities

Being successful in remote, northern communities requires imagination, listening, and a deep commitment to helping people and communities in ways that matter to them. Agnico Eagle has a proud history of working collaboratively alongside these communities and fostering strong and respectful relationships. After nearly 15 years of exploration and mining in Nunavut, Agnico Eagle has learned the value of collaborating with local communities and adapts its practices.

In 2021, Agnico Eagle established the Kivalliq Inuit Elders Advisory Committee to provide invaluable advice and guidance to the company's Nunavut teams on how to incorporate traditional Inuit knowledge into certain aspects of their operations and community engagement activities.

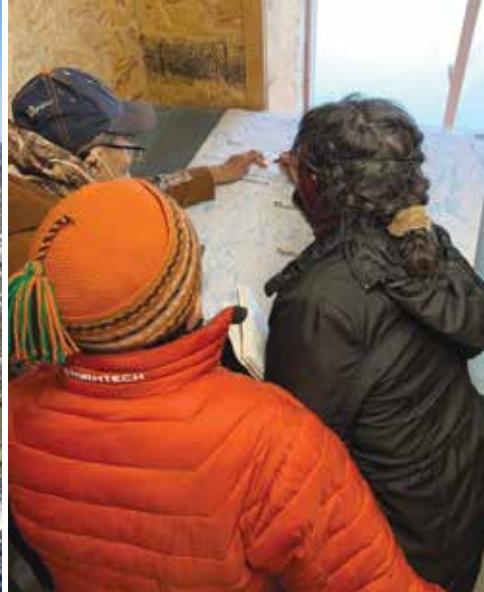
The Elders' Committee is comprised of 21 Elders from the communities of Baker Lake, Chesterfield Inlet, Rankin Inlet,

Whale Cove, and Arviat. It not only keeps local communities informed about Agnico Eagle's mining activities and future plans, but it also provides Inuit Qaujimajatuqangit (IQ), a body of Inuit traditional knowledge, and Inuit Societal Values (ISV), a set of guiding community principles, so that they can be integrated into the company's exploration, planning, workforce, wellness, and operational plans.

This process is chaired by an independent member and supported by David Kritterdlik, IQ and Wildlife advisor at Agnico Eagle. Kritterdlik has taught Agnico Eagle that IQ is not owned by one, but by many. This now serves as the basis of the company's IQ integration.

As an approach to building community engagement and trust, this Elders' Committee is innovative, collaborative, and unique. In fact, many initiatives have been initiated in collaboration with the committee since its creation.

On September of 2021, a visit was organized with Baker



Elders looking at map.



Committee members exploring on site.

Lake Elders to conduct a community mapping of an area north of the Meadowbank Complex mine sites, which was identified as having a rich cultural history.

Elders located former campgrounds, unmarked burial sites, and Inukshuks in the area. The “white” Inukshuk at Amer Lake, known by community members as a landmark and sacred area, was named “Uqsugiu”, or “White”, to represent the white colour of animal fat.

Through discussions with the committee, Agnico Eagle came to recognize the need for more mental health and cultural counselling tailored to Inuit employees. In early 2023, Agnico Eagle was pleased to host Martin Krelak, an Elder from Baker Lake, who visited the Meadowbank Complex to provide mental health and cultural counselling sessions to employees, and Levinia Brown, from Rankin Inlet, who did the same at the Meliadine mine.

Collaboration with the committee also help facilitate site visits. In May 2023, Rankin Inlet Elders visited the Meliadine mine where the Agnico Eagle team was able to explain how water is collected, treated, discharged, and monitored at the mine. This visit was also an opportunity to discuss monitoring results and answer any outstanding questions or concerns.

Following another committee recommendation, Agnico Eagle hosted a water and tea colour activity to discuss water chemistry through interaction with tea leaves. An experiment was conducted along with a botanical expert to better understand the chemical interaction between different water sources (tap water, bottled water, and lake water) and tea leaves. Participants enjoyed the activity and

reported a better understanding of how tea infusion colour may differ from time to time.

As visitors on Inuit lands, Agnico Eagle believes in building meaningful engagement with Kivalliq Elders and community leaders to foster respect, trust, and collaboration. There is still much to learn, and the company remains committed to consulting with local Inuit communities and integrate their knowledge, concerns, and priorities into its activities in Nunavut. **X**

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Setting the standard:

The global push for green steel has begun in Canada's Arctic territory of Nunavut



By Peter Akman, Head of Stakeholder Relations & Communications, Baffinland Iron Mines



Nunavut's high-grade iron ore, mined by Baffinland on the northern edge of Baffin Island in Canada's Arctic, is among the richest iron ore deposits ever discovered.

Read any publication that touches on electric vehicles, the environment, mining, or business in general, and the global push for critical minerals is the top priority. Critical minerals have been deemed the "building blocks for the future of our green and digital economy". Investors are more focused than ever on opportunities to participate in the transition to a net-zero world.

Some 31 minerals have been deemed "critical" by the Government of Canada and many other nations. Topping the

list are lithium, copper, nickel, cobalt, and rare earth elements. To be clear, there is no green energy transition without these critical minerals: no batteries, no electric cars, and no solar panels.

But missing from that list, so far, is the building block for the only material needed in every technology type in the transition to the low-carbon economy. Iron ore is the fundamental ingredient in the steelmaking process and from geo-thermal, hydro, nuclear, to wind power and electric vehicles, steel remains the essential building block.

The problem, up until now, is that the creation of steel has accounted for seven per cent of the entire energy sector's CO₂ emissions, according to a 2020 report from the International Energy Agency.

This is where Baffinland Iron Mines comes in. It isn't an overstatement to say Nunavut's high-grade iron ore, mined by Baffinland on the northern edge of Baffin Island in Canada's Arctic, is among the richest iron ore deposits ever discovered. The product is beginning to be heralded as the highest-grade direct shipping iron ore in the world.

While Baffinland has been limited to only six-million tonnes a year – a boutique operation compared to those companies extracting 250 to 350 million tonnes in Australia and Brazil – Nunavut high-grade iron ore has superior chemistry, combined with first-rate metallurgical properties. This operation is different than most others in that no concentrating or processing is needed, and therefore no wet tailings are produced. The iron ore is crushed and screened at site, and then shipped directly to markets.

What that means is, from the first point of extraction, Baffinland's products already have much smaller

Recently, several leading steel manufacturers have partnered with Baffinland to accelerate the research and development of high-quality feedstock for green steel production, with the use of Nunavut's high-grade iron ore.

environmental footprints. Add to that, the iron ore has been deemed "high grade" because it typically contains nearly 68 per cent iron, compared to <62 per cent for globally traded iron ores.

The steelmaking process is energy intensive as the traditional and most common route involves blast furnaces which consume fossil fuels as either burden material (e.g. coke breeze) or as external heat input making them carbon-intensive. Use of high-grade ores allows a less carbon-intensive upgrading process as lower percentage of impurities in the iron ores means less energy is needed. The value and importance of high-grade ores become even more relevant when newer technologies like the direct reduced iron (DRI) are targeted as the centrepiece of the strategy to use cleaner energy sources like hydrogen. DRI modules exclusively use higher grade ores, making the use of Baffinland's products a high-value proposition.

Recently, several leading steel manufacturers have partnered with Baffinland to accelerate the research and development of high-quality feedstock for green steel production, with the use of Nunavut's high-grade iron ore.

German steel maker Salzgitter Flachstahl GmbH – a subsidiary of Salzgitter AG – has entered into a Memorandum of Understanding (MoU) with Baffinland. Starting



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in 2025, the Salzgitter Group will begin incrementally switching its steel production to hydrogen-based processes under its SALCOS® - Salzgitter Low CO₂ Steelmaking transformation program. The aim is to achieve virtually carbon-free production by 2033. In the context of the MoU, Baffinland and Salzgitter Flachstahl GmbH will consider which supply strategies, regarding using iron ore produced by Baffinland, are best suited to hydrogen-based steel production in a direct reduction plant. In addition, the companies will work together on optimizing the Scope 3 emissions of their shared value chains.

In July, thyssenkrupp Steel Europe AG also signed an MoU with Baffinland. As part of its tkH2Steel® project, thyssenkrupp's coal-based blast furnaces will be replaced by hydrogen-based direct reduction modules. The steel produced by this equipment, which is directly reduced by hydrogen, will be liquefied in downstream, specially developed melting units to produce high-quality hot metal, in what thyssenkrupp maintains is a

pioneering process. All subsequent production steps can take place in the existing plant structure, including the steel mills, allowing all of the company's products to be produced with low CO₂ emissions, while maintaining thyssenkrupp's stringent quality standards. As a result, thyssenkrupp reiterates that tkH2Steel is a highly efficient and commendable approach towards achieving environmentally friendly steel production.

And while contributing to the global push for green steel is a priority as a final product, Baffinland has also been actively working to decrease its impact on its immediate environment. Years of consultations with Inuit hunters, elders, and communities have guided our adaptive marine and terrestrial mitigation measures. Protecting the land and waters of Canada's Arctic has been our priority.

Baffinland has voluntarily implemented industry-leading measures, including staying in a narrow northern shipping route, travelling in convoys when possible to

While contributing to the global push for green steel is a priority as a final product, Baffinland has also been actively working to decrease its impact on its immediate environment.

reduce total underwater sound, and restricting our ships to a maximum speed of only nine knots.

Now, Baffinland is encouraging all vessels using Arctic waterways, including cruise ships and pleasure craft, to follow these mitigation measures where safely possible.

Beyond shipping, important measures to protect the region are also a focal point as Baffinland prepares to increase the supply of its high-grade iron ore. Working from a resource base of over one billion tonnes, the expansion to Steensby Inlet will be Baffinland's next step. This expansion will see the development of a new rail line south to Steensby, a new deep-water port, a fully enclosed crushing and screening facility, as well as an upgraded materials-handling infrastructure, including a ship-loading system with a capacity of 16,000 tonnes per hour.

Baffinland is also assessing several initiatives, including the introduction of wind turbines, switching to renewable diesel, and use of light rail system for downhill transportation of run-of-mine material which will have the capability of regenerating power.

From start to finish of the mining cycle, Baffinland is committed to supporting and protecting the environment, surrounding communities, traditional Inuit hunting grounds, and the global push for green steel. All of this is possible.

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New Break Resources Ltd.'s Sundog Gold Project - Nunavut's next big gold discovery?



Asundog, or mock sun, is an atmospheric optical phenomenon that occurs when light is refracted through significant ice crystals suspended in clouds or freezing moist air, causing a bright spot to one or both sides of the sun. Similar to a rainbow, they are seen as a sign of good luck.

"It is clear that Nunavut has become a growing focus for major gold producers looking to replace reserves and resources, and maintain gold production within a top-tier mining jurisdiction that also offers large underexplored land packages hosting significant exploration potential," says Michael Farrant, president and CEO of New Break. "It is our belief that the Sundog Gold Project holds this potential and will serve as a sign of good luck for New Break shareholders and stakeholders in the north."

The 9,415-hectare Sundog Gold Project (Sundog), held by New Break Resources Ltd. (CSE: NBRK), through an Inuit-Owned Lands Mineral Exploration Agreement with Nunavut Tunngavik Incorporated (NTI), lies approximately 16 kilometres northeast of the former Cullaton Lake gold mine, which produced over 100,000 ounces of gold from October 1981 to September 1985. In those days, the property was located in the Northwest Territories. Cullaton Lake was first prospected in 1960 by Thomas Skimming and Huntley ("Red") MacDonald, working for Selco Exploration, who were tracking an iron formation. Later, in 1962, MacDonald

Nunavut has become an important Canadian jurisdiction for gold mining, despite being significantly underexplored.

took a grab sample from quartz veins from what today is known as Trench 10 on the Sundog property, which graded 102.9 grams per tonne gold (g/t Au). As a result of its banded-iron formation-style mineralization, similar to the Lupin gold mine, exploration and development focused on Cullaton Lake instead of Sundog. The mine was finally closed in 1985 by Peter Steen, president of the mine's operator, Royex Gold Corp., who noted in a March 7, 1988 Northern Miner article of the areas discovered by Skimming and MacDonald, "I think that the area's real potential is in exploration. There's a lot of gold in that area. If that property were down in Arizona, it would be one big open pit." On April 1, 1999, the Sundog property came to be located in what today is Nunavut via the Nunavut Act and the Nunavut Land Claims Act which separated this territory from the Northwest Territories and provided it to the Inuit for independent government.

New Break became interested in Sundog after meeting with famed Canadian prospector Ken Reading, who first visited the property in June 1986 and again in the summer of 1987 on behalf of Abermin Corporation.

New Break submitted an Expression of Interest in Sundog to NTI in July 2020, and in June 2021 purchased all of Reading's Nunavut-focused exploration data and materials collected over decades of field work in the north. In his June 1986 trip to Sundog, Reading took nine grab samples with the best assaying 62.8 g/t Au. He returned in late summer 1986, and collected a further 26 rock chip samples with the best assaying 39.1 g/t Au. The assays came from multiple areas of the property.

Reading's prospecting experience in the Arctic may be unmatched, having



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prospected historically for various companies, including Comaplex Minerals Corp. In fact, it was his ground-breaking exploration work and report that led to the discovery of the Tiriruniak gold deposit by WMC International after optioning the property from Comaplex. Tiriruniak is known today as the Meliadine mine, operated by Agnico Eagle Mines Limited.

In September 2023, a New Break field team, which included Reading, performed a reconnaissance site visit to Sundog to confirm access to the

project area, assess the impact of environmental changes, reproduce historical gold assays from a small sample of historical trenches, and gather samples from previously unsampled vein structures near existing historical trenches.

The trip back to Sundog came about a month before Reading's 94th birthday. The field team took eight rock chip and grab samples from the site of the initial gold discovery at Sundog and from surrounding, previously unsampled structures. Four of these assays came back grading in excess of



7.5 g/t Au with the best being 9.68 g/t Au in new structure.

When asked about his thoughts on the potential at Sundog, Reading replied, "Quite simply, barring Tiriruniak (Meliadine), I cannot recall having ever found or personally investigated a more interesting gold occurrence site here in Canada!"

Nunavut has become an important Canadian jurisdiction for gold mining, despite being significantly underexplored. 746,659 ounces of gold were produced in Nunavut in 2022 by Agnico Eagle from their Meliadine and Meadowbank mines in Kivalliq Region. Agnico Eagle acquired Meadowbank and Meliadine respectively through their 2007 acquisition of Cumberland Resources Ltd. for approximately CDN\$710 million, and their 2010 acquisition of Comaplex for

approximately CDN\$700 million. 2023 drilling by Agnico Eagle at the Hope Bay deposit in Kitikmeot Region continues, with a view of ultimately putting Hope Bay back into production following their February 3, 2021 acquisition of TMAC Resources Inc. for approximately CDN\$287 million. On April 21, 2023, another major gold producer, B2Gold Corp. completed the acquisition of Sabina Gold & Silver Corp. for CDN\$1.1 billion to gain ownership of the Back River Gold District, located in Kitikmeot Region, including the Goose Project, currently under construction with completion expected in 2025.

New Break remains optimistic that further advancement of the Sundog Gold Project could ultimately see its name added to the list of Nunavut-focused acquisitions by major gold producers. **X**



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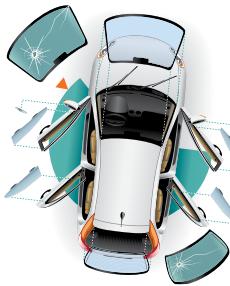
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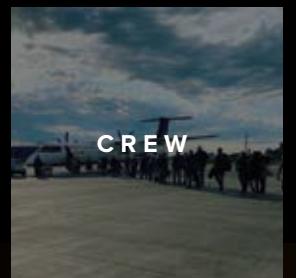
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A major technical/geological success



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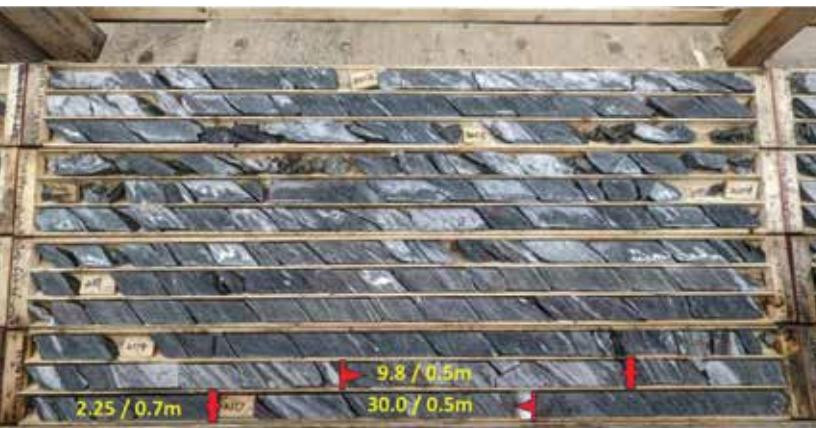
Gold Terra's deep drilling confirms extension of the high-grade mineralized structure 200 metres below the Con Mine workings

Gold Terra is heralding a technical and geologic success with their first deep drill hole completed to a downhole depth of 2,228 metres from surface. The hole, GTCM23-055, which took several months to drill and shut down during wildfire evacuations around the Yellowknife area, intersected the high-grade gold-bearing Campbell Shear (CS) below the past-producing Con Mine (1938 to 2003) underground workings at a downhole depth of 2,075 to 2,135 metres. Gold Terra's strategy is that high-grade zones may carry on further than what was mined in the Con Mine. This first hole 55 confirms that interpretation with an intersection of 1.7 metres at 12.96 g/t within a broader zone of 8.2 metres at 2.93 g/t, a result typical for successful gold exploration in the Campbell Shear.

Gold Terra is continuing their deep drilling program with lateral and up dip wedges from the first master hole targeting the CS first some 75 metres north of the first intersection under the former Con Mine underground workings. The former Con Mine is a world-class gold deposit with 6.1 M ounces of high-grade gold produced from the underground operations between 1938 to 2003 from both the Con and Campbell shears. The Campbell shear is the major ore-bearing structure of the Con Mine yielding most of the gold production. Gold mined from the Con Mine had very high-grade zones ranging between 15 to 20 grams per tonne and high-grade "jewelry pockets" where nuggets of gold with values such as 534 grams per tonne over 19.3 metres have been recorded. The company optioned the Con Mine Option Property from Newmont in November 2021.

One of the major advantages of exploring for additional gold under the Con Mine working is infrastructure. The deep drilling program has opened a one-kilometre strike length

Gold mined from the Con Mine had very high-grade zones ranging between 15 to 20 grams per tonne and high-grade "jewelry pockets" where nuggets of gold with values such as 534 grams per tonne over 19.3 metres have been recorded.



Above top left: Aerial view of Yellowknife, the Con Mine and projection of the Campbell Shear. Above bottom left: Hole GTCM23-055 core showing the Campbell Shear from 2102 to 2118 metres, including 12.63 g/t over 1.7 metres. Above right: Photo showing fine specks of visible gold in Hole GTCM23-055 at 2,116.16 metres. This is hosted in a vein with stibnite and sphalerite mineralization.

of the CS with potential for more ounces at depth near the current bottom of the Robertson shaft, which was built to a depth of 1,900 metres below surface. This readily available infrastructure at the former mine will be a cost-saving asset for future exploration and potential development requiring underground access.

The Yellowknife mining district in the Northwest Territories is one of Canada's richest historic mining camps creating wealth for the community over a span of 65 years from the production of 14 million ounces at grades between 16 to 22 grams/tonne, mainly from one deposit and two mines, the Giant and Con Mines. Gold Terra is aiming to unlock the great potential of this rich Yellowknife camp. Over the last several years, the company has outlined and discovered approximately 1.8 million combined ounces. Gold Terra's strategy in 2023 is to find more gold on its district-sized land position along the prolific Campbell Shear structure. That strategy includes additional drilling south of the Con Mine to expand their initial near-surface 2022 Mineral Resource estimate of 109,000 gold ounces in the Indicated category and 432,000 gold ounces in the Inferred category; the deep drilling target under the current the Con mine workings on the Con Mine Option

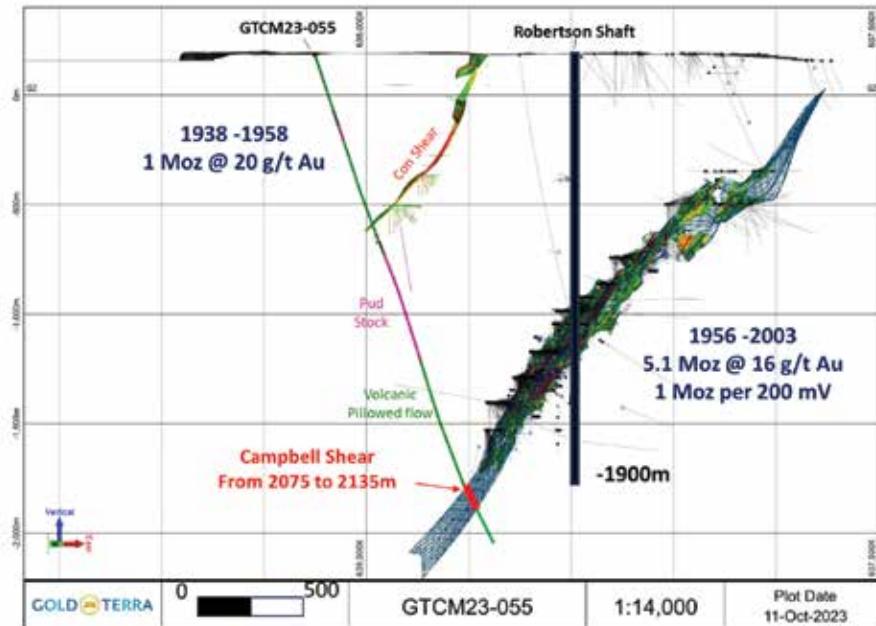


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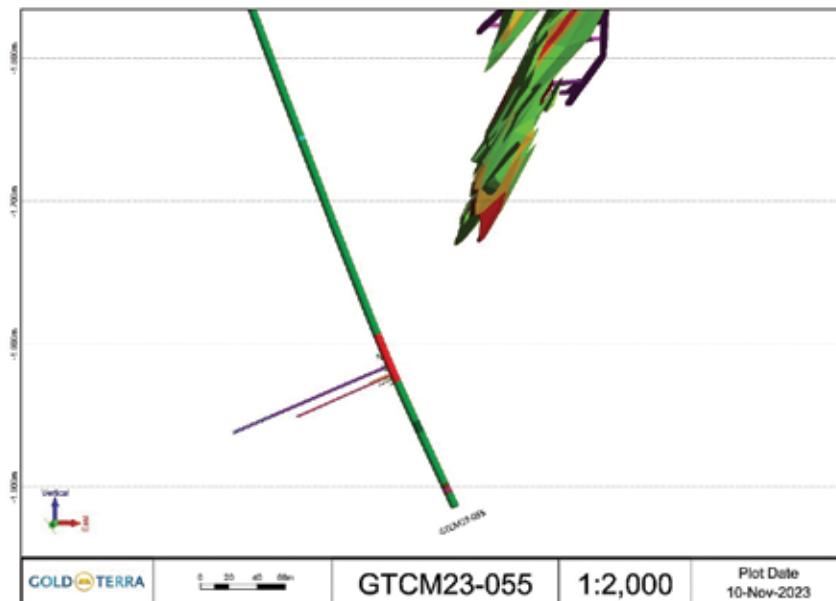


Multi-million ounce potential in Yellowknife Gold Belt.
Drilling to delineate gold underway on Campbell Shear south of the former Con Mine.

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Hole GTCM23-055 targeting Con and Campbell Shears.



Blow up of mineralized section in the Campbell Shear.

Property; and, continued assessment of additional targets in the northern belt of their large land holdings which has a 2021 mineral resource estimate of 1.2 Moz in the Inferred category on four deposits north of Yellowknife.

With access to an extensive geological and historic assay database, Gold Terra has done detailed modeling of the Con Mine gold deposit to understand the orientation, target size, shape and plunge of high-grade zones that were not tested below the current mine workings. To see an interactive VRIFY 3D model highlighting the deep drilling target area, please visit <https://vrify.com/decks/13133>.

With a continued large drilling program and positive drill results, Gold Terra is on track to re-establish Yellowknife as one of the premier gold mining districts in Canada. Gold Terra offers a rare opportunity to invest in a world-class high-grade discovery on the doorstep of Canada's most prolific past gold production. For more information and company news, please go to our website at www.goldterracorp.com/. x



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Nunavunmi Inungnut Pitqutigiyauyunut Ihuaqhajiyiit
Tribunal des droits de la personne du Nunavut

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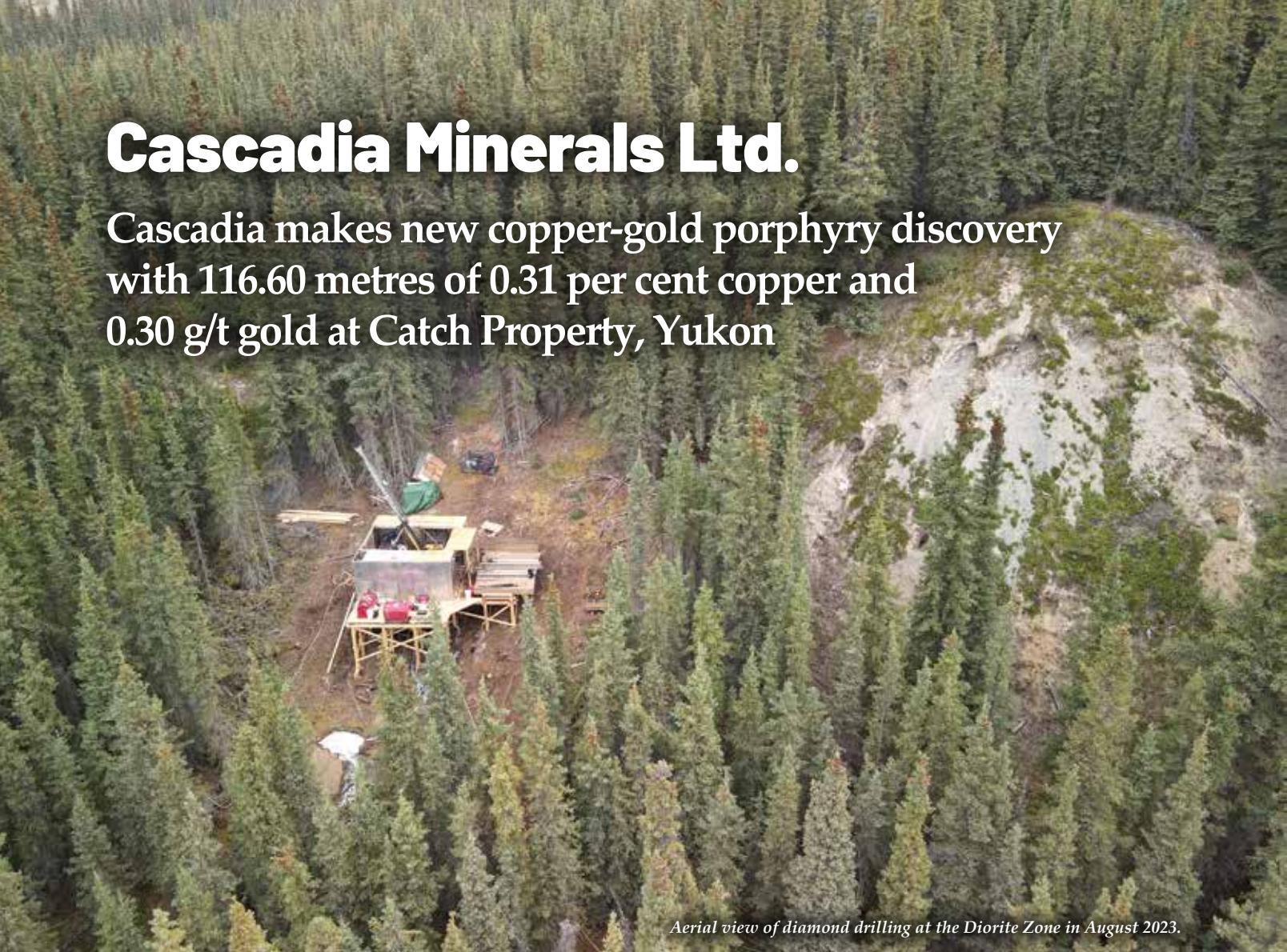
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Cascadia Minerals Ltd.

Cascadia makes new copper-gold porphyry discovery with 116.60 metres of 0.31 per cent copper and 0.30 g/t gold at Catch Property, Yukon



Aerial view of diamond drilling at the Diorite Zone in August 2023.

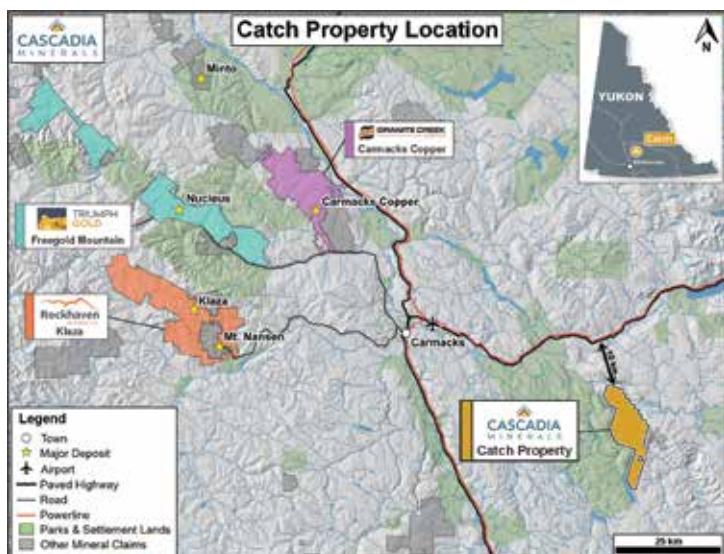
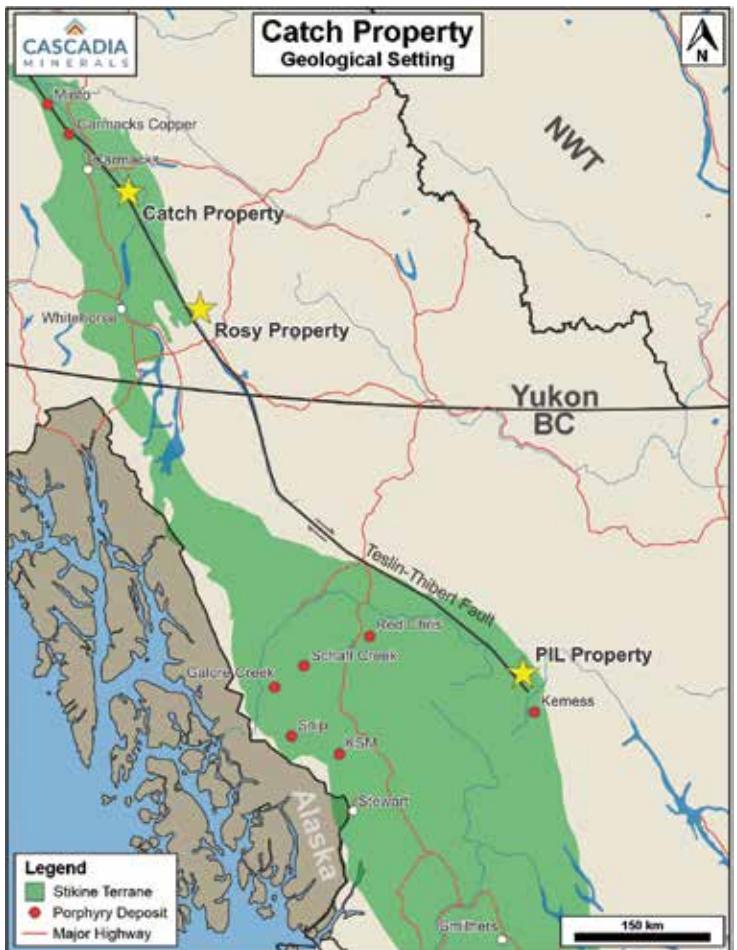
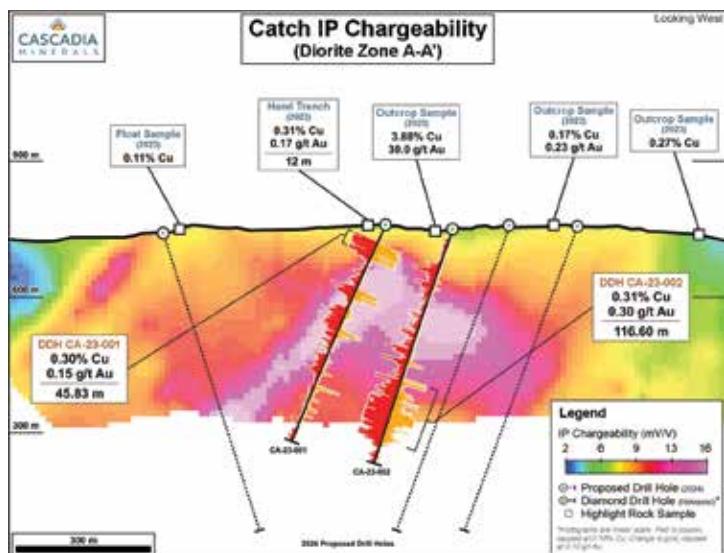
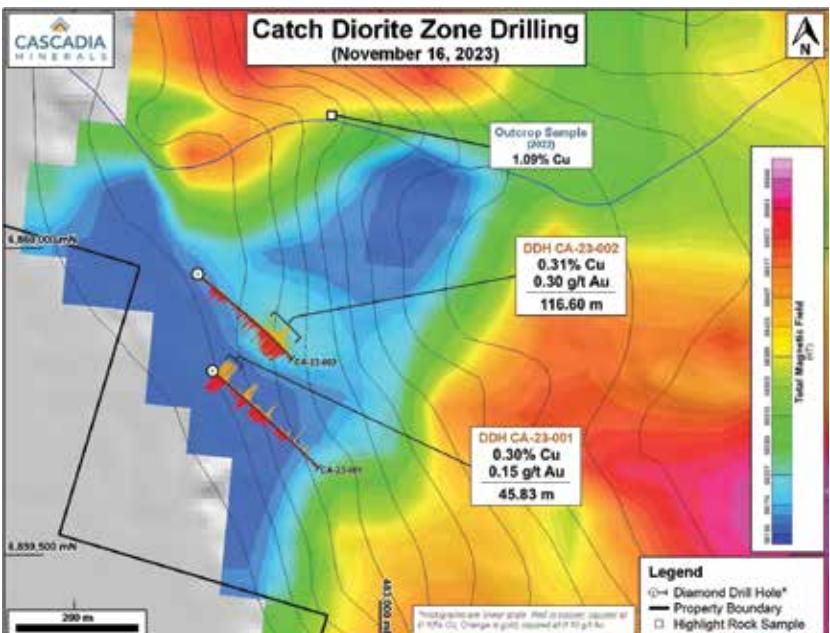
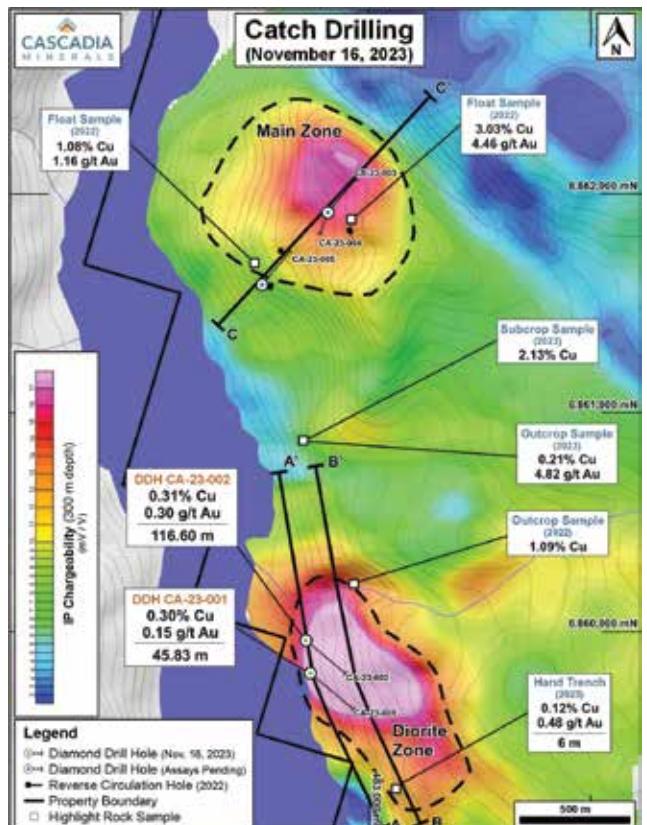
Cascadia Minerals Ltd. (TSX-V:CAM) is very pleased to provide results of the first two diamond drill holes ever completed at its 100 per cent-controlled flagship Catch Property in central Yukon, Canada, located 16 kilometres from an all-season highway and powerline within the traditional territory of the Little Salmon Carmacks First Nation.

The Catch property hosts multiple new greenfield discoveries of copper-gold porphyry mineralization within the northern extension of the prolific Stikine Terrane from B.C.'s Golden Triangle. A total of five holes were drilled at Catch in 2023, totalling 2,462 metres. This release contains results from the first two holes (1,066 metres), with results from the remaining three holes pending.

DRILLING HIGHLIGHTS

- First diamond holes ever drilled at the Catch property both yielded significant copper-gold mineralization, confirming a new copper-gold porphyry discovery;

- Hole CA-23-002 intersected 116.60 metres of 0.31 per cent copper and 0.30 g/t gold from 356.00 metres downhole, within a broader interval of 435.00 metres of 0.16 per cent copper and 0.09 g/t gold (Figures 1-3);
- Hole CA-23-001 intersected 45.83 metres of 0.30 per cent copper and 0.15 g/t gold from surface, within a broader interval of 333.87 metres of 0.13 per cent copper (Figures 1-3);
- These holes were drilled 160 metres apart, in the middle of coincident 1,200 x 600 metre chargeability and 800 x 600 metre magnetic anomalies that are just beginning to be tested (Figures 1-3);
- Drilling has yet to intersect significant potassic alteration, suggesting there is potential to discover higher copper and gold grades in the untested core of the porphyry system;
- Results are pending from three additional diamond drill holes at the Main Zone, located two kilometres north of these drill holes (Figure 1).



Clockwise from top left: Figure 1 – Catch drilling overview map, shown on IP chargeability at 300-metre depth. Figure 2 - Diorite Zone drilling map, shown on magnetic response. Figure 3 – Diorite Zone section showing drilling results on IP chargeability. Figure 4 – Catch Property location map with nearby projects and infrastructure. Figure 5 – Map showing the extension of the Stikine Terrane from B.C.’s golden triangle into Yukon.



Catch property landscape photo, September 2023.

"To have made a significant copper-gold porphyry discovery in the first two holes ever drilled on a project is incredibly rare. We can now focus on expanding known mineralization and exploring for even higher-grade zones, whilst simultaneously testing numerous additional targets," said Graham Downs, Cascadia's president and CEO. "Our second hole returned over a hundred metres of 0.31 per cent copper and 0.30 g/t gold, comparable to the resource grade of Newmont's operating Red Chris open-pit mine in B.C.'s Golden Triangle (measured and indicated open-pit grade of 0.34 per cent copper and 0.28 g/t gold*). We have clearly tapped into a large porphyry system and eagerly await results from the remaining three holes that were drilled at the Main Zone, two kilometres to the north. Cascadia is the first mover in the underexplored extension of the Stikine Terrane in Yukon, and we will utilize Catch as a case study regionally to acquire additional land throughout this compelling new porphyry district, as we prepare for an early 2024 drill program at Catch."

**Red Chris resource grades are referenced from Newcrest Mining Limited's (now Newmont Corporation) press release dated March 31st, 2021.*

CATCH PROPERTY DRILLING SUMMARY

The first two diamond drill holes at the Catch property were completed at the Diorite Zone. Hole CA-23-001 ended at 511.83 metre depth and Hole CA-23-002 ended at 554.00 metre depth, with sulphide mineralization (pyrite-pyrrhotite-chalcopyrite) observed to the end of both holes. Both holes were targeting a broad Induced Polarization (IP) chargeability anomaly at depth, underlying coincident high-grade surface mineralization, within a pronounced magnetic anomaly. An additional three holes were drilled at the Main Zone, located two kilometres north, and results from these holes are pending.

Table 1: 2023 Catch Assays Result Summary

Drill Hole	From (m)	To (m)	Interval (m)*	Copper (%)	Gold (g/t)
CA -23-001	14.00	347.87	333.87	0.13	0.04
incl.	14.00	59.83	45.83	0.30	0.15
CA -23-002	80.00	515.00	435.00	0.16	0.09
incl.	356.00	472.60	116.60	0.31	0.30
and incl.	357.93	362.00	4.07	0.51	6.03
and incl.	407.00	472.60	65.60	0.40	0.13

** The reported intervals are drilled thicknesses and true widths are unknown.*

Hole CA-23-001 targeted a high IP chargeability anomaly underlying an outcrop which returned 0.31 per cent copper with 0.17 g/t gold over 12 metres from a hand trench. The hole encountered basalt, diorite, and gabbro host rocks. Copper and gold mineralization is associated with propylitic (chlorite-albite-epidote-calcite) to sodic (albite-chlorite-pyrite) alteration of all host rock types that carry quartz-carbonate ± pyrite-chalcopyrite veins and disseminated to blebby pyrite, pyrrhotite, and chalcopyrite (sulphides listed in decreasing order of abundance). The hole ended in anomalous copper grades, with visual pyrrhotite and pyrite mineralization noted.

Hole CA-23-002 was collared 160 metres north of CA-23-001, targeting the same high IP chargeability anomaly, underneath an outcrop which returned high-grade grab samples including 3.88 per cent copper with 30.00 g/t gold. The hole encountered similar rock types, alteration and mineralization to hole 001, in addition to localised quartz-feldspar porphyry dykes up to 17 metres in width, and an overall increase in copper and gold grades. The hole ended in anomalous copper grades, with visual pyrrhotite and pyrite mineralization noted.

Drilling has not yet intersected significant potassic alteration, suggesting there is potential to discover higher copper and gold grades associated with the potassic core of the system. Additional drilling will be required to vector towards this core. Both holes were drilled in the middle of a coincident 1,200 x 600-metre-high IP chargeability anomaly and 800 x 600 metre magnetic low anomaly. These geophysical features have provided a valuable vector towards mineralization and remain open in all directions.

Table 2: 2023 Catch Drill Hole Collars**

Drill Hole	Easting (m)	Northing (m)	Azimuth (°)	Dip (°)	Depth (m)
CA-23-001	482,726	6,859,800	130.4	-60	511.83
CA-23-002	482,702	6,859,958	129.7	-65	554.00

***Easting and Northing are UTM co-ordinates in the NAD 83 datum, zone 8N. Azimuth is with respect to true north.*

Soil sampling was also completed across the Catch property to evaluate newly staked areas, with a total of 830 soil samples collected. Multiple anomalies were identified that will be followed-up with prospecting and mapping next exploration season.

PROPERTY GEOLOGY AND MINERALIZATION

The 71-square-kilometre Catch Property is in central Yukon, Canada, 56 kilometres southeast of the town of Carmacks (Figure 4), in an underexplored part of the Stikine Terrane - which extends from the Golden Triangle in British Columbia into Yukon (Figure 5), where it is immediately adjacent to the over-1,000-kilometre-long, deep-seated, crustal-scale strike-slip Teslin-Thibert fault. The Stikine Terrane is characterized by Late Triassic to early Jurassic volcanic-plutonic arc complexes that are well-endowed with copper-gold-molybdenum porphyries including the Red Chris, Schaft Creek, Kemess, KSM, and Galore Creek deposits and mines. The property is located wholly within the traditional territory of the Little Salmon Carmacks First Nation.

The Catch area is mostly underlain by augite phryic basalt of the Semenof Formation, centered on a seven-by-three-kilometre regional magnetic high. Mineralization is associated with propylitic to sodic alteration of basalt and lesser diorite, intrusion-cemented and hydrothermal breccias. Locally there is intense albitization, silicification, brecciation and up to 10 per cent disseminated to blebby pyrite, chalcopyrite, and trace bornite and pyrrhotite. Secondary copper minerals including malachite, azurite,

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and tenorite are widespread at surface, coat fracture surfaces, and are often associated with gypsum.

The geology, alteration, and mineralization observed throughout Catch are all indicative of a significant copper-gold ± molybdenum bearing porphyry system.

Catch is under option from a Yukon prospector, and Cascadia can earn up to a 100 per cent interest, subject to a royalty. For more information, see the Catch Property Technical Report filed on SEDAR+ at www.sedarplus.ca under the Cascadia Minerals Ltd. profile, or visit our website at www.cascadiaminerals.com for additional maps and figures.

ABOUT CASCADIA

Cascadia is a Canadian junior mining company focused on exploring for copper and gold in Yukon and British Columbia. Cascadia's flagship Catch Property is a brand-new grassroots porphyry discovery which exhibits extensive high-grade copper and gold mineralization across a five-kilometre-long trend, with rock samples returning peak values of 3.88 per cent copper and 30.00 g/t gold, and initial drill results returning broad intervals of mineralization, including 116.60 metres of 0.31 per cent copper with 0.30 g/t gold. In addition

to Catch, Cascadia is conducting exploration work at its PIL Property in British Columbia and the Sands of Time and Rosy properties in Yukon, as well as evaluating additional regional opportunities. Cascadia has approximately 37 million shares outstanding and its largest shareholders are Hecla Mining Company (19.8 per cent) and Barrick Gold (7.6 per cent).

QA/QC

Analytical work for samples was completed by ALS Canada Ltd, with sample preparation in Whitehorse, Yukon and Langley, B.C., and geochemical analyses in North Vancouver, B.C. Core samples were fine crushed before a 250-gram split was pulverized to better than 85 per cent passing 75 microns. Gold was determined for core samples by the PGM-ICP24 procedure which involves fire assay preparation using a 50-gram charge with an inductively coupled plasma-atomic emission spectroscopy finish (ICP-AES). Soil samples were dry-screened at 180 micron, with analysis conducted on the fine fraction. Gold was determined for soil samples by the Au-ICP21 method, which involves fire assay preparation with a 30-gram charge followed by an ICP-AES finish. Multi-element data for 48 elements was determined for all samples by the ME-MS61 procedure, which involves a four-acid digestion followed by ICP-AES and inductively coupled plasma-mass spectrometry.

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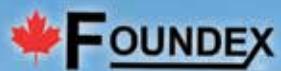


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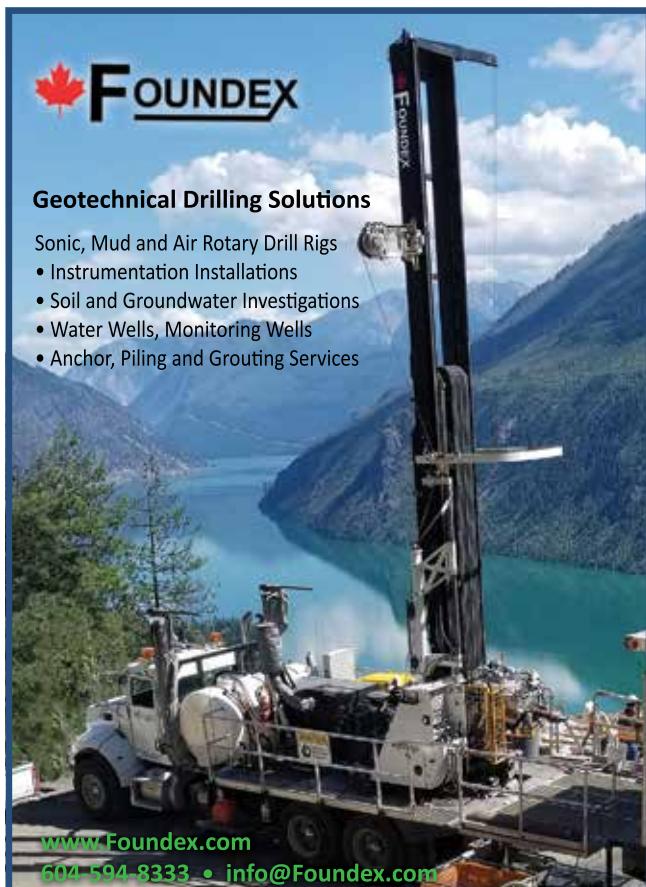
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Rigorous procedures are in place regarding sample collection, chain of custody, and data entry. Certified assay standards, duplicate samples and blanks are routinely inserted into the sample stream of diamond drill samples to ensure integrity of the assay process. All diamond drill samples included in this news release have passed the QA/QC procedures as described above. All assay intervals presented in this news release are uncut. Core was sampled using a diamond saw, with half of each interval sent to the lab for analysis, and the other half retained.

Results referenced in this release represent highlight results only. Below detection values for gold and copper have been encountered in drilling, rock and soil samples in these target areas.

The technical information in this news release has been approved by Adam Coulter, M.Sc., P.Geo., VP Exploration for Cascadia and a qualified person for the purposes of National Instrument 43-101.

On behalf of Cascadia Minerals Ltd.
Graham Downs, President and CEO

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Cascadia Minerals Ltd.
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Pine Point Mining: Supplying critical minerals for the green energy transition



Through responsible mining practices, PPML is contributing to the reduction of the industry's overall impact on the environment.

Pine Point Mining Limited (PPML) is a newly formed joint venture between Osisko Metals, a leading Canadian base metals developer, and Appian Natural Resources Fund III, that is at the forefront of a new generation of mining companies looking to restart projects in historical mining camps. In our case, we are focused on the redevelopment of the historical Pine Point Mining Camp, located 60-kilometres east of the town of Hay River in the Northwest Territories.

We are committed to the shift towards sustainable resource development, recognizing the pivotal role it plays in driving our country towards net-zero carbon emissions. Specializing in zinc, one of Canada's 31 critical minerals, as well as lead, the company is at the heart of a strategic initiative that intertwines economic prosperity with environmental responsibility.

Zinc and lead, indispensable components in various industrial processes, have become increasingly vital in the global pursuit of carbon neutrality. These metals are key players in the development of green infrastructure. Zinc metal is produced from a mineral called sphalerite, and lead metal is produced from a mineral called galena. Pine Point has historically produced among the world's cleanest zinc and lead concentrates with very low impurities. This sets the project apart from most current producers.

While we are excited about the economic possibilities for NWT and the communities surrounding the Pine Point

Project that the potential reopening of the mine would bring, PPML understands that sustainable economic growth must be anchored in responsible resource extraction. We believe that the minerals at Pine Point that are essential for the green energy transition must be extracted in a safe and environmentally responsible manner. To minimize our environmental footprint, we employ cutting-edge technologies and best practices to ensure that our operations adhere to the highest environmental standards. Through responsible mining practices, PPML is contributing to the reduction of the industry's overall impact on the environment.

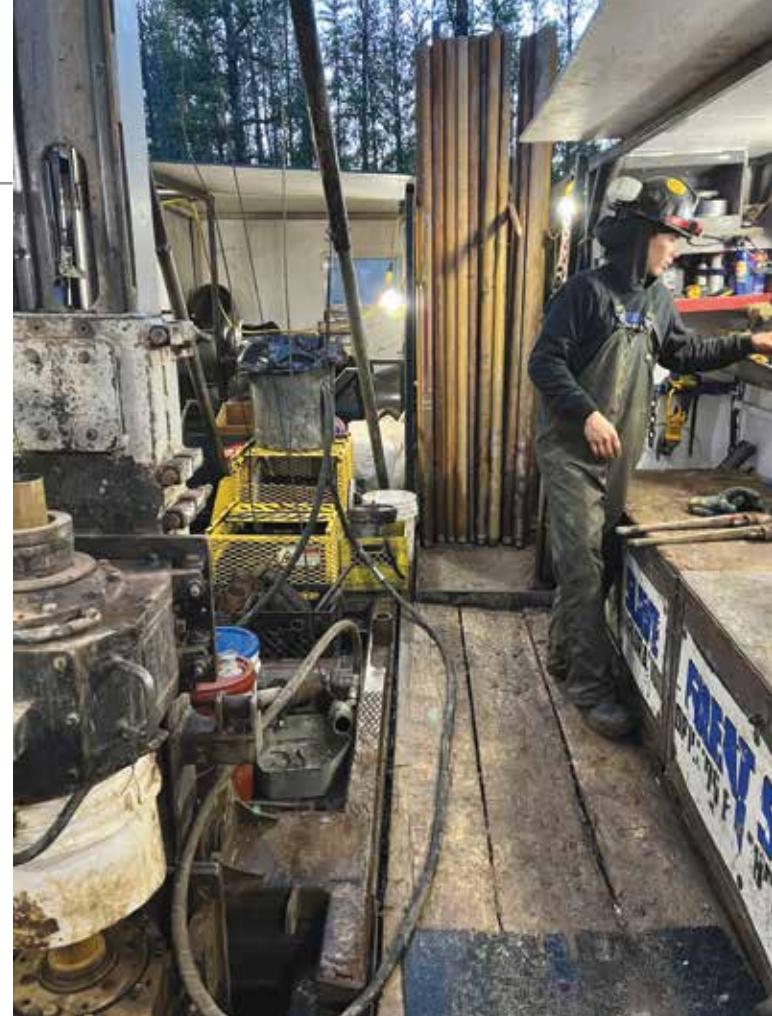
The company's commitment extends beyond the extraction of valuable minerals to fostering strong relationships with Indigenous communities. PPML recognizes that successful and sustainable business practices are inseparable from respectful collaboration with the Indigenous communities who live and pursue traditional lifestyles in the regions where it operates.

Indigenous communities, often the stewards of the lands, play a crucial role in our operations. We are dedicated to engaging in transparent and mutually beneficial partnerships, ensuring that the communities affected by our activities are participants in the decision-making processes. By incorporating traditional knowledge and respecting the cultural heritage of Indigenous peoples, PPML aims to develop the project responsibly.

The success of our project is an opportunity to enhance the well-being of the communities near and around the Pine Point Project.

The success of our project is an opportunity to enhance the well-being of the communities near and around the Pine Point Project. To this end, we strive to be good neighbours, support the communities' initiatives and events, and establish employment and contracting opportunities at the early stages of development. Once the project is approved for mining we will strive to provide positive and lasting benefits for those most affected by our project. When fires devastated the communities of Hay River and the K'atl'odeeche First Nation last summer, we provided support to local relief programs. By prioritizing environmental stewardship and social responsibility, the Pine Point Project is not just a mining development company; it could be a catalyst for positive change in the region.

As nations worldwide grapple with the urgent need to transition towards sustainable energy sources, PPML aims to be a key player in supplying the essential materials critical to this transformation. The company's dedication to safety, environmental stewardship, and its emphasis on forging strong ties with Indigenous communities position it as a leader in responsible resource development. Pine Point Mining Limited is not merely extracting minerals; it is forging a path towards a more sustainable, inclusive, and environmentally conscious future for our country. **X**



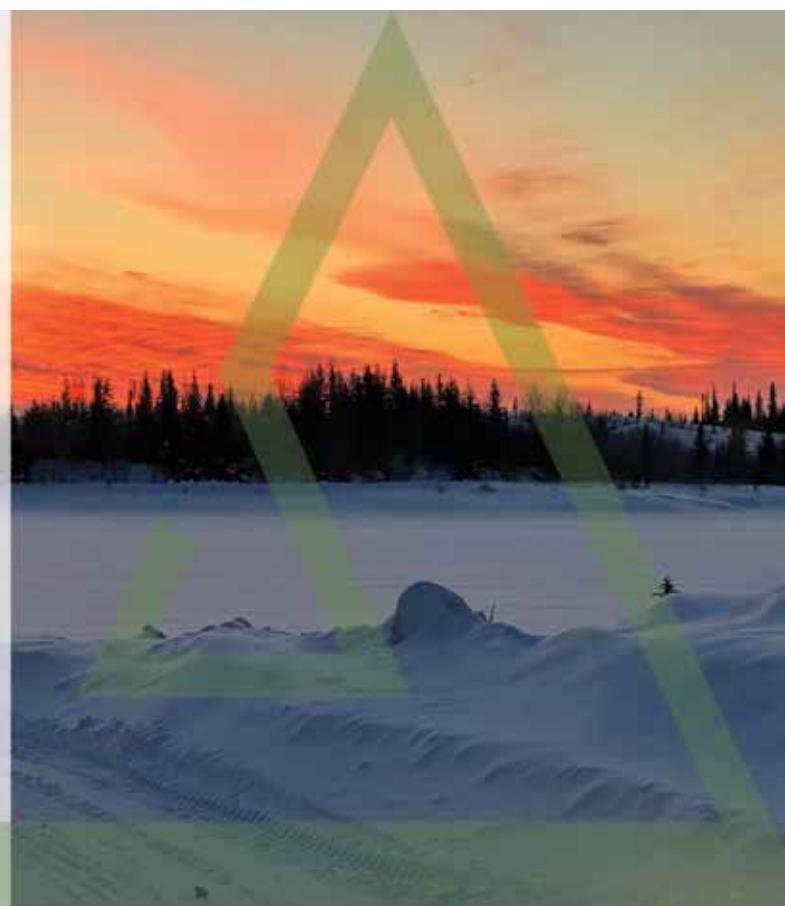


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Blue Star Gold's landholdings total 270 square kilometres of highly prospective and underexplored mineral properties in the High Lake Greenstone Belt.



Blue Star recently completed a multi-prong exploration program at the company's Nunavut projects, resulting in the discovery of the Mikigon prospect.

Blue Star Gold – Golden opportunity in Canada's far north

Blue Star Gold is focused on exploration and development within Nunavut, Canada. Blue Star's landholdings

total 270 square kilometres of highly prospective and underexplored mineral properties in the High Lake Greenstone Belt. The company owns the Ulu Gold Project, comprised of

the Ulu Mining Lease and Hood River Property, and the Roma Project. A significant high-grade gold resource exists at the Flood Zone deposit (Ulu Mining Lease) and numerous high-





Blue Star has strategically positioned itself with a high-grade gold resource, excellent discovery potential, an experienced team, and an attractive capital structure.

in close proximity (approximately 200 kilometres) to the company's landholdings on the High Lake Belt.

Blue Star has strategically positioned itself with a high-grade gold resource, excellent discovery potential, an experienced team, and

an attractive capital structure. As the company prepares for a robust discovery drill program in 2024 and with a market capitalization of only ~\$30 million, this is an opportune time to consider the merits of Blue Star Gold as an attractive investment opportunity. ✕

potential exploration target areas occur throughout the company's extensive landholdings, providing Blue Star with excellent resource growth potential.

Blue Star recently completed a multi-prong exploration program at the company's Nunavut projects, resulting in the discovery of the Mikigon prospect. Mikigon is a mineralised trend with a strike length in excess of 500 metres. Sampling of the prospect returned grades up to 47.1 g/t gold, highlighting the exceptional exploration potential of the region. The discovery of the Mikigon prospect adds new drill opportunities to the vast pipeline of drill-ready targets at the Ulu Gold Project. In addition, Blue Star has also identified strong evidence of critical minerals potential throughout the company's landholdings.

Major companies continue to show strong interest in Nunavut's abundant mineral wealth, as B2Gold recently acquired Sabina in a \$1.2 billion transaction, resulting in Blue Star being one of the last remaining active junior exploration companies in the district. Both the Hope Bay (Agnico Gold) and Back River (B2) belts lie



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The MiHR offers three wage subsidy programs in benefit of job-ready youth, post-secondary students, workers, and employers.

Shaping Canada's mining workforce through wage subsidy programs

By the Mining Industry Human Resources Council

A skilled workforce is clearly vital to mining's sustainability and growth, yet mining faces a tight labour market. Mining Industry Human Resources Council (MiHR) data shows that the unemployment rate in mining is historically low, with labour shortages further challenged by an aging workforce, negative youth perceptions of mining careers, and a decline in enrolments into post-secondary mining programs. Along with the longer-term rise in demand for minerals and metals, Canada's transition to a clean economy will only compound labour shortages.

As a result, the mining industry faces unique challenges for its learning needs and recognizes the critical importance of work placement opportunities as a component of

effective skills development and a highly skilled and competent workforce.

To address these obstacles, MiHR offers three wage subsidy programs in benefit of job-ready youth, post-secondary students, workers, and employers.

The Canadian Mining Work Placement Program: Solutions to meet forecasted mining labour demand

MiHR recently developed the Canadian Mining Work Placement Program (CMWP) to provide wage subsidies to hiring organizations that offer meaningful job opportunities that support a productive, safe, and highly skilled supply of labour.

Subsidies up to 70 per cent of a participant's wage to a maximum

of \$15,000 are available to hiring organizations and contractors who provide jobs in support, operation, and production-level positions to newly trained talent or existing workers to upskill and explore advancement in new careers.

Gearing Up: Developing mining talent through post-secondary work-integrated learning

To help shape the next generation of Canada's mining workforce, MiHR's Gearing Up project helps ensure the mining sector's sustainability and competitiveness by supporting work-integrated learning (WIL) opportunities for post-secondary students. Mining employers who create new WIL opportunities for students enrolled in science, technology, engineering, or math (STEM); or business programs are offered a wage subsidy of up to \$7,000.

To help shape the next generation of Canada's mining workforce, MiHR's Gearing Up project helps ensure the mining sector's sustainability and competitiveness by supporting work-integrated learning (WIL) opportunities for post-secondary students.

Green Jobs: Helping job-ready youth gain meaningful mining work experience

MiHR's Green Jobs program provides mining employers with a wage subsidy up to \$30,000 to hire job-ready youth aged 15 to 30 for paid placements or training opportunities that have a focus on clean technology and innovation. This enables youth to gain the skills and work experience they need to make a successful transition into the labour market.

Take advantage of a wage subsidy today

MiHR's wage subsidy programs help recruit, retain, and develop Canada's mining workforce by enabling employers to provide work opportunities to build competency in new talent, allow workers to practice newly acquired skills on the job, and expand the skilled labour pool for industry to meet labour demands.

Interested organizations and participants can access MiHR's complete wage subsidy program information, eligibility criteria, and application forms at <https://mihr.ca/wage-subsidy-programs/>. For more information contact wagesubsidies@mihr.ca.

About MiHR

MiHR is Canada's knowledge centre for mining labour market intelligence. An independent, non-profit organization, MiHR drives collaboration among mining and exploration companies, organized labour, contractors, educational institutions, industry associations, and Indigenous groups to identify opportunities and address the human resource and labour market challenges facing the Canadian minerals and metals sector. **X**



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SRC designs solvent extraction cells for rare earth element processing

By Erin Matthews, Saskatchewan Research Council

The Saskatchewan Research Council (SRC) is laying the foundation for Canada's rare earth element (REE) supply chain with the development of a first-of-its-kind Rare Earth Processing Facility in North America. Saskatchewan's long history of mining critical resources makes the province a unique leader in REE processing.

"Canada has some of the largest known reserves and resources, measured and indicated, of rare earths in the world," says Dr. Muhammad Imran, vice-president of



REEs are essential in many modern technologies including wind turbines, cell phones and electric vehicles, and are key part of Saskatchewan's critical minerals strategy.

src



SRC designed and manufactured proprietary commercial-scale solvent extraction cells for its Rare Earth Processing Facility. All photos courtesy of SRC.

SRC's Rare Earth Element Division. "So, it makes sense to kickstart the industry where the resource availability is."

BUILDING THE REE SUPPLY CHAIN

SRC's vertically integrated, commercial, demonstration Rare Earth Processing Facility consists of three crucial units: the Monazite Processing Unit, the Separation Unit, and the Metal Smelting Unit.

"Rare earths are not really different from other mining sectors when you look at the raw material," says Dr. Imran. "REEs are separated from impurities in the Monazite Processing Unit. Once that process is complete, the rare earths need to be separated from each other and that's where the Solvent Extraction Unit comes in."

Solvent extraction is a necessary step that makes REEs more valuable.

At SRC's facility, solvent extraction will separate the rare earths into three mixtures: medium/heavy REEs, lanthanum/cerium carbonate, and a neodymium/praseodymium mixture, which then undergo further processing in the Metal Smelting Unit.

DESIGNING AND MANUFACTURING SOLVENT EXTRACTION CELLS IN-HOUSE

To get its Rare Earth Processing Facility up-and-running, SRC took on the challenge of designing and fabricating solvent extraction cells in-house.

"When we started this project back in 2020, our plan was to procure these cells internationally, but a new export law in that jurisdiction put a ban on any technology related to REE," says Dr. Imran. "We tried to get the cells from other countries but ultimately, we thought we should do what we do best as a research and technological organization, and decided to design and build the solvent extraction cells ourselves."

SRC's patent-pending solvent extraction cells have been designed with automation algorithms that improve their efficiency and recovery capabilities. They are being manufactured in-house at an SRC-operated fabrication facility, which celebrated its grand opening in May 2023.



SRC's proprietary solvent extraction cells are manufactured in-house from locally sourced PVC material and are designed with automation algorithms that improve their efficiency and recovery capabilities.

These cells are fabricated from locally-sourced PVC material that is welded into shape. To address the challenges of PVC welding, SRC developed semi-automated welding equipment to improve performance and reduce physical demands.

Once fabricated, the cells are assembled into a modular unit called a "battery". Each battery can hold up to six individual cells.

SRC is building the REE supply chain one cell at a time – by the end of 2023, 140 solvent extraction cells will be fabricated and ready for use in the Separation Unit of SRC's Rare Earth Processing Facility.

THE SKILLS AND EXPERTISE FOR THE JOB

As Canada's second-largest research and technology organization, SRC has unparalleled experience in mining and mineral recovery.

"REE processing is quite complex and includes the use of chemicals, large quantities of water, and skilled techniques. The process must also follow strict environmental regulations," says Dr. Imran. "You need to have the expertise and the capabilities and that's where SRC really shines."

The construction and daily operations of the fabrication facility and the Rare Earth Processing Facility requires substantial collaboration between SRC and industry, and provides both short- and long-term employment for local companies and individuals across Saskatchewan.

"The work we are doing has a substantial impact on the overall economy of Saskatchewan," says Dr. Imran. "Those economic benefits are in the form of jobs, improved productivity, process optimization, and delivery of new concepts to commercial applications." **x**

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Periodic table graphic showing elements like Potassium (K), Calcium (Ca), Scandium (Sc), Manganese (Mn), Rhodium (Rh), Palladium (Pd), Silver (Ag), Gold (Au), and others.

The regulation of professional engineering and geoscience in the Northwest Territories is changing



What you need to know

The Northwest Territories and Nunavut Association of Professional Engineers and Geoscientists (NAPEG) is heralding changes coming to the regulation of the professional practice of engineering and geoscience in the Northwest Territories. Here's what you need to know.

What does NAPEG do?

In the public interest, NAPEG regulates and supports the professional practice of engineering and geoscience in the Northwest Territories and Nunavut. NAPEG has been the administrator of the Acts that legislate the regulations for these professions in the territories since 1979.

On October 3, 2023, after many years of collaborative work between NAPEG and the Government of the Northwest Territories, the Northwest Territories Legislative Assembly passed Bill 93. This thrustened the new Practice

of Engineering, Geoscience and Applied Science Technology Act into action. It included many of NAPEG's recommendations.

Why did the Act need updating?

Bill 93 repealed and replaced the former Engineering and Geoscience Professions Act with a new and modernized Act that will match industry standards in the territory to other Canadian jurisdictions. The new Act gives NAPEG authority and duties that have become common in other professional associations in Canada.

These changes will allow NAPEG to better protect public safety by ensuring these professions are held to the highest standard of professionalism, while improving much-needed labour mobility to the territory.

What has changed and when will it be implemented?

The new Act will require significant

work by NAPEG drafting bylaws and new policies – work that has already begun and will continue to roll out in a staged approach over the next two to three years. The incoming changes will concentrate on . . .

Improving Labour Mobility to the NWT

Many of the changes in the new Act are geared towards making it easier for professionals to apply for NAPEG membership to work in the North. Once implemented, it will reduce barriers faced by internationally-trained professionals or those coming to the Northwest Territories from other Canadian provinces or territories. This includes:

- Allow NAPEG to accept academic qualification reviews from other Canadian engineering and geoscience regulators for registrants-in-training.
- Give NAPEG the ability to implement Limited Licenses to those with

foreign credentials or existing Limited Licenses with another Canadian engineering or geoscience regulator to improve labour mobility.

- Extend full NAPEG membership to engineers and geoscientists who are only in the North part-time.

Strengthening professional development requirements

NAPEG has been unable to mandate regular professional development for professional engineers and geoscientists until the introduction of the new Act. Once implemented, NAPEG will ensure that licensed professionals are keeping their skill sets up-to-date in the interest of public safety.

- Legislated professional development requirements for licensed professionals, ensuring skillsets are kept up-to-date.
- Enhanced enforcement powers for professionals who don't keep up with their professional development.

Modernizing disciplinary processes

The Act will give NAPEG comparable authority to other Canadian jurisdictions when it comes to disciplinary actions and the management of complaints. The new standards will help NAPEG provide greater transparency and accountability to the public.

- Give NAPEG explicit authorization to publish disciplinary findings publicly to keep the public informed and safe.
- Allow NAPEG discipline hearings to issue custom disciplines for members guilty of misconduct (instead of immediate suspension), and to dismiss frivolous complaints.

- Add oversight to NAPEG's Discipline Committee by adding lay members, requiring publication of decisions, and updating rules for appeals to the courts.

Giving applied science technologists a regulatory home in the NWT

Applied science technologists and technicians do design, construction, and testing under the supervision of an engineer. Prior to the new Act, these occupations were not regulated in the Northwest Territories, but they were in nine provinces and Yukon.

The occupations were deemed to be too small in the Northwest Territories to self-govern, so they will be regulated as part of NAPEG when these provisions come into force. NAPEG looks forward to

warmly welcoming the incoming applied science technologists and technician licensees in the next year or two. In the meantime, technicians and technologists registered in other provinces and territories may continue to use their current, unregulated titles in the NWT and Nunavut.

What comes next?

Stay informed as NAPEG rolls out these changes with the Government of the Northwest Territories over the next two years by following us on Facebook, X (formerly Twitter), LinkedIn, subscribing to our quarterly newsletter The NAPEG Circuit (sign up here: <https://mailchi.mp/napeg/subscribe-to-the-napeg-circuit-newsletter>), or by keeping tabs on our website. 

Northwest Territories and Nunavut Association of Professional Engineers & Geoscientists



NAPEG

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NAPEG...Integrity and Excellence



Burgex team member documenting geological formations while staking mining claims.

Solving the challenges of mining with 19th century law

The land ownership and mining laws of the United States are unique in many ways. The Federal Government owns a significant portion of the land and mineral rights in the country, with some estimates valuing these resources at over \$128 trillion. This vast wealth places several western states prominently on the list of top global mineral producers.

Despite this abundance, the U.S. lags in efficient mineral exploration.

Acquiring a mining claim in the western U.S., with the Bureau of Land Management (BLM) land, is a process mired in complexity and antiquity. The foundational law, established in 1872, has seen additions over the years, but its core principles remain unchanged. Any U.S. citizen aged 18 or older can stake a federal mining claim by marking the location, measuring

out the claim boundaries (1,500 feet by 600 feet for lode claims, 1,320 feet by 660 feet for placer claims), filing the claim with the appropriate county, and recording the paperwork at the state's head BLM office. Compliance with state-specific requirements for claim posts, paperwork accuracy, fee payments, and annual maintenance (including payment of fees and filing of an Intent to Hold by September 1st each year) is mandatory.

For many prospectors, geologists, and investors, this archaic process is bewildering, inefficient, and time-consuming. This is where specialized companies like Burgex Mining Consultants come into play.

Burgex was co-founded by two mineral exploration enthusiasts, including one born Alaskan who spent part of her childhood on a placer mine near Chicken, Alaska. They have located claims from Alaska's tundra and glacier fields to the deserts of Arizona. Over time, Burgex has expanded to offer a full range of services, now focusing on mineral development primarily in the lower 48 states.

With over 150 years of combined experience, 3,000 projects completed, and more than 30,000 mineral claims staked, Burgex stands as a

comprehensive, one-stop solution for all mining needs. Our services, ranging from claim staking and mineral market analysis to valuation and sampling, are designed to guide clients through every phase of mineral exploration and mining operations. We aim to be an essential part of the world's most valuable mining projects through our unmatched expertise, innovative solutions, rapid turnarounds, and a world-class global network.

Our strategic growth has involved assembling a diverse team of industry professionals. We offer a full suite of services, including grassroots exploration, aerial and underground surveys, complex geological programs, and technical and prefeasibility studies. Our compliance department is particularly noteworthy, dedicated to confirming

the eligibility of areas for mineral entry and ensuring that mining claims are flawlessly documented, thereby meeting all legal and regulatory standards.

The United States is a repository of untapped mineral resources. Our geologists are skilled at uncovering these hidden treasures. Whether your focus is on greenfield or brownfield projects, or you require industry-compliant reports, Burgex is your ideal partner. Our deep understanding of U.S. regulations allows us to prepare technical reports that meet international standards.

Located in Salt Lake City, Utah, Burgex is at the epicenter of U.S. mineral exploration. As the demand for critical minerals grows globally, we are here to position you at the forefront of this burgeoning market,



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OUR STORY

Established in 2010 by two individuals driven by a passion for exploring historic mine workings (yes, seriously), our journey has evolved into a comprehensive mining consulting firm. Today, equipped with a team of seasoned experts to help advance your projects in the Lower 48.

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Burgex specializes in locating and staking federal mining claims in the U.S.



Burgex team members scanning Ares Lost Sheep Mine underground and open stope with a handheld LiDAR scanner.

no matter the type or location of your mineral interests.

In summary, Burgex Mining Consultants offers more than just services; we offer peace of mind, unparalleled expertise, and guidance through the complexities of U.S. mining laws.

For more information on how we can enhance your mineral resource project, contact us at 775-335-2053, via email at info@burgex.com, or visit our website at www.burgex.com.

Looking forward to partnering together. ✕



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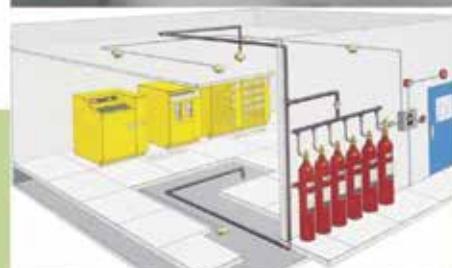
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PDAC announces 2024 award recipients

The Prospectors & Developers Association of Canada (PDAC) is honoured to announce that five outstanding groups have been selected to receive 2024 PDAC Awards. Since 1977, the annual PDAC Awards have recognized exemplary individuals, teams, and companies for their significant accomplishments in mineral exploration and development.

"The 2024 recipients continue the 46-year tradition of excellence in the PDAC Awards," said Raymond Goldie, PDAC president. "Their successes are an inspiration and demonstrate the expertise, ingenuity, and determination needed to find the minerals that are essential to modern life. Our awards recipients also show that, both in Canada and worldwide, mineral explorers and developers are practicing innovative and effective approaches to community engagement and sustainability."

Recipients will be celebrated at the Awards Gala & Nite Cap at the Fairmont Royal York Hotel in Toronto on March 5, during the PDAC 2024 Convention. Ticket sales opened in December on the PDAC website.

PDAC 2024 Award Recipients

John Burzynski and the Osisko Mining

Inc. Exploration Team - Bill Dennis Award.

For the discovery and ongoing expansion of the Windfall deposit's Lynx gold zone located in the Abitibi greenstone belt, Eeyou Istchee James Bay, Québec.

Wabun Tribal Council - Skookum Jim Award

For developing a consistent process of engagement (The Wabun Model) that reasonably matches the lifespan of projects from mineral exploration to development.

03 Mining - Sustainability Award

For exceptional Environmental, Social and Governance (ESG) performance, including the achievement of ECOLOGO Certification.

The Lundin Group Vicuña Exploration Team - Thayer Lindsley Award

For the discovery of the Vicuña district in the Central Andean copper province in Argentina and Chile.

John McConnell and the Victoria Gold Team - Viola R. MacMillan Award

For innovative financing of the Eagle Gold Mine development and production in Yukon.

Awards Gala and Nite Cap

Recipients will be celebrated at a prestigious Awards Gala and Nite Cap at the Fairmont Royal York in Toronto on Tuesday, March 5, during the PDAC 2024 Convention. Tickets can be purchased in December at pdac.ca.

Awards selection process

PDAC's Board of Directors select award recipients based on recommendations of the association's awards committee. Learn more about the PDAC Awards, including how to nominate candidates for our 2025 awards, at www.pdac.ca/about-pdac/awards.

About PDAC

The Prospectors & Developers Association of Canada (PDAC) is the leading voice of the mineral exploration and development community, an industry that employs more than 664,000 individuals, and contributed \$132 billion to Canada's GDP in 2021. Currently representing over 7,000 members around the world, PDAC's work centres on supporting a competitive, responsible, and sustainable mineral sector.

PDAC 2024, our 92nd annual convention, will take place in person in Toronto, Canada from March 3-6, 2024. Please visit www.pdac.ca for more information. **X**



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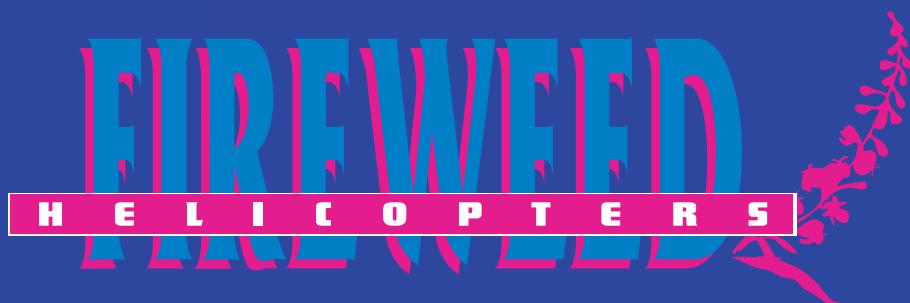
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