

MANITOBA

2021-2022 *Mining Review*

An Official Publication of the Manitoba Prospectors and Developers Association Inc.

THE ROCK CIRCLE RADIO SHOW: An innovative reconciliation mineral dialogue

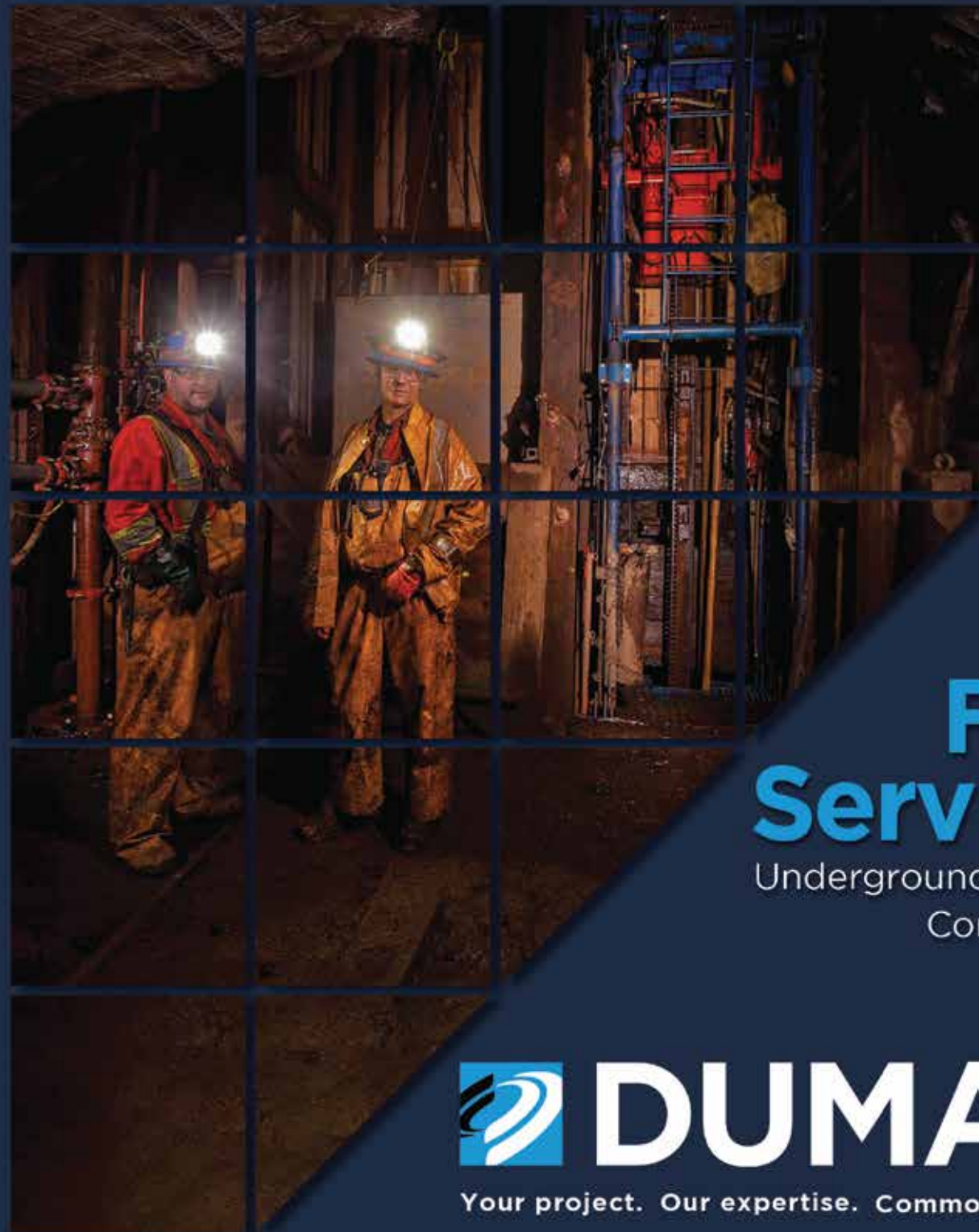
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ALSO IN THIS ISSUE

- MPDA member property profiles
- Manitoba mineral activity
- Essential to kick-start Canada's low-carbon tech revolution



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PRESIDENT'S MESSAGE

MARYANN MIHYCHUK

PRESIDENT, MANITOBA PROSPECTORS
AND DEVELOPERS ASSOCIATION

Hello MPDA members,

Today I recognize that I, like many of you, am on Treaty One territory and the homeland of the Metis people. I open with this to acknowledge the important relationship between the mineral exploration sector and our Indigenous brothers, sisters, and communities – it is a relationship that we at the MPDA look forward to growing and strengthening.

I will also thank the outgoing board for their time and dedication to the MPDA. The work that you have done is important and has set a strong foundation for the incoming board to build on. On October 5, 2021 a new board was confirmed for the MPDA and our group is energized and excited to begin their work.

The state of our sector as reflected by our members, who are out trying to do exploration projects and make partnerships, indicates that we have a problem, and it's reflected in the Fraser Report. We hear this from our industry and interpret it as a call for change.

We know that early community engagement with Indigenous peoples and communities, and a meaningful dialogue between those communities and exploration companies, are key to establishing successful working relationships and partnerships. The success of these conversations and agreements is central to the success of the Manitoba exploration and mining industries.

Special recognition is given to the MPDA and the Liaison Committee who embarked on a bold new adventure with the Rock Circle show, and I really appreciate the support that we received. The committee worked to build an open dialogue with Rock Circle where you heard the raw, meaningful and open conversations about the new path forward with our partners. It's been very successful and we're in the beginning stages, but we see this as an opportunity to make transparent the discussions we are having.

I send a big thank-you to everyone who is participating in the show. To the funders, volunteers, and those who believed in us, thank you! There's always room for more, so reach out if you are interested in being involved.

Mineral discoveries are the lifeblood of the mining industry and are an economic driver providing real new wealth for the people of Manitoba. However, Manitoba is relatively underexplored compared to other jurisdictions. Finding replacement mineral deposits is critical to the future of the mining industry and the vitality of many Manitoban communities.

As we know, most of the revenue from minerals extraction comes in the form of various taxes (primarily income taxes) split between the province and the federal government. Very little actually comes back to first nations or northern communities in Manitoba, which is a key issue that needs attention.

The MPDA members include prospectors, exploration companies, scientists, researchers, academics, operators, mining companies, contractors, supply and service companies, civil servants and legal and financial sectors. We represent a wide range of the Manitoba mineral sector and bring diverse backgrounds, experience and ways of thinking to the table.

In the next year we will continue to modernize the association, increase our outreach and progress towards solutions to the challenges we face. Our collective objective is to develop productive and efficient ways of working with our industry and community partners, to ultimately move up that Fraser ranking back to where we belong, as one of the most attractive places to invest in the mineral business. ✖



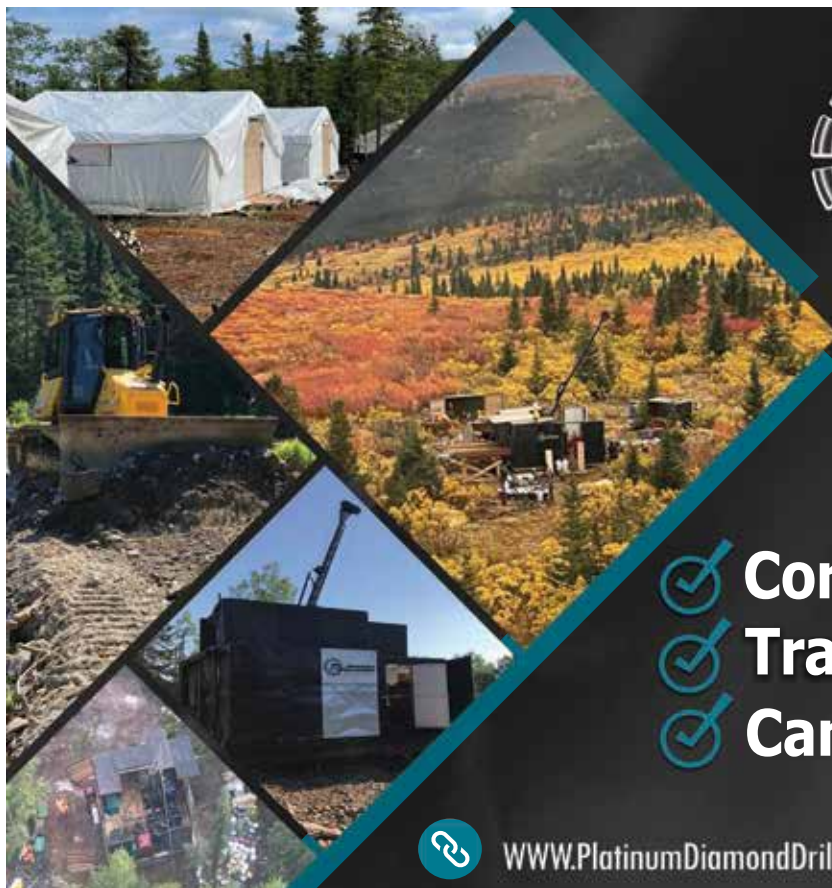
Far Resources (CSE:FAT) (FSE:FOR) (OTC:FRRSF) wholly owned 4605 hectare lithium project occurs 570 km north of Winnipeg and 15 km east of the historic mining town of Snow Lake Manitoba in the eastern portion of the Proterozoic Flin Flon-Snow Lake greenstone belt of the Canadian Shield. The project consists of the 3603-hectare 16 claim Zoro property and the recently acquired 1002-hectare 5 claim Jean Lake property.

The Zoro property hosts an inferred resource of 1,074,567 tonnes at 0.91% Li₂O in Dyke 1 and an additional 12 recently discovered pegmatite dikes. Recent exploration on the Jean Lake property has re-discovered the high-grade Beryl pegmatite trend with assay results of 3.81-5.17% Li₂O from coarse grained apple-green and straw colored spodumene.

Exploration on both properties is ongoing including a 1500-metre drill program on Zoro and drone assisted magnetic and Lidar surveys by EarthX Geophysical Solutions Inc. designed to follow-up on the high-grade Beryl pegmatite. Exploration has been supported by a \$300,000 grant from the Manitoba Mining Development Fund established by the Manitoba government to help establish sustainable economic growth in the Province.

Mark Fedikow Ph.D. P.Geo. Far Resources geologist notes: "The application of innovative geophysical and geochemical exploration technologies in concert with boots on the ground prospecting has resulted in numerous pegmatite discoveries at Zoro and Jean Lake. We anticipate further discoveries on both properties by integrating historic and newly acquired databases and focused diamond drilling".

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WHY JOIN THE MANITOBA PROSPECTORS AND DEVELOPERS ASSOCIATION?



The Manitoba Prospectors and Developers Association (MPDA) is an advocacy group focused on improving the state of mineral exploration in Manitoba. The MPDA members include prospectors, exploration companies, scientists, researchers, academics, operators, mining companies, contractors, supply and service companies, civil servants, and legal and financial sectors. We represent a wide range of the Manitoba mineral sector and bring diverse backgrounds, experience and ways of thinking to the table. Our collective objective is to develop productive and efficient ways of working with our industry and community partners, and to become one of the most attractive places to invest in the mineral business.

Being a member is a great way to network, learn about key topics affecting the industry, and shape the future of Manitoban mineral exploration and extraction. Annual membership rates are \$20 for individuals, \$5 for students and \$50 for corporate members.

Get your membership at: mpda.ca/become-a-member



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MESSAGE FROM THE HONOURABLE **RALPH EICHLER** MINISTER OF AGRICULTURE AND RESOURCE DEVELOPMENT

As Minister of Agriculture and Resource Development, I would like to extend greetings on behalf of the province to members of the Manitoba Prospectors and Developers Association, and to provide an update on my Department's support of the mineral exploration and mining sector in Manitoba.

Manitoba is open for business and mineral development. Mineral exploration and mining play a critical role in the economy and post-pandemic recovery of our province. As recovery continues, our government is providing a one-year extension to the Double-

Assessment Credits program until December 31, 2021, including technical innovation work for mineral exploration.

Consideration for extension of time for mining claims and mineral exploration licenses (outside of treaty-land entitlement areas) continues on a case-by-case basis. We ask clients to apply for an extension of time and provide justification about how the pandemic or any other issue has impeded their ability to complete any required work.

To stay connected with clients, the Tenure Services Team continues to deliver virtual information sessions

for clients and industry to assist with using the iMaQs online system, how to manage tenure, and assessment reporting.

The \$20-million Manitoba Mineral Development Fund (MMDF) continues to support projects to stimulate investment in mineral exploration and development, focusing on collaborative projects between industry and communities. Administered by the Manitoba Chamber of Commerce, the MMDF supports economic development and mining projects that create Indigenous partnerships, increase local employment, and stimulate investment in Manitoba. Formally launched in July 2020, as of August 2021, \$3.1 million in funding currently supports a range of economic development and mining projects.

To ensure MMDF sustainability in the long term, Manitoba committed to an annual investment of up to six per cent of tax revenues collected from the Mining Tax Act. In June 2021, an additional \$1 million was contributed into the fund to continue to support mineral and economic development initiatives through the program.

A 30 per cent income tax credit (Manitoba Mineral Exploration Tax Credit) recognizes investment in eligible flow-through mining expenditure for the exploration of minerals in Manitoba, in addition to the 15 per cent federal income tax credit available to qualifying individual investors.

Manitoba remains home to many areas of underexplored mineral wealth. The new Investment Attractiveness team



FUNDING NORTHERN POSSIBILITIES

SUPPORTING NORTHERN RECOVERY

MMDF provides funding for mining and economic development initiatives that create opportunities for Indigenous partnerships, increase local employment, and mobilize economic development in Northern Manitoba.

If you are part of an Indigenous community, municipality, business or not-for-profit and want to help the North grow, APPLY TODAY at mbchamber.mb.ca.

will be developing a comprehensive Manitoba Mining Readiness Strategy, in collaboration with industry and Indigenous partners, to maximize this potential by supporting new and existing mining operations throughout the province. The strategy will include all aspects of mining operations from prospecting to mine development and expansion. As part of the strategy, Manitoba will also be creating a marketing plan to attract new mining development to the province, resulting in more jobs and increased economic growth, especially in the north.

First Nations participation in the mining industry continues to advance in positive ways through the Manitoba-First Nations Mineral Development Protocol and Action Plan. The Department's new Integrated Planning branch is now supporting these initiatives, along with Indigenous engagement and Crown-Indigenous consultation.

The Department continues to engage through the industry-led Manitoba Liaison Committee on Mining and Exploration (MLC-ME) to advise government on priority issues. The work being done by MLC-ME includes making recommendations for sustainable development, reconciliation, and offering solutions in essential

areas such as Indigenous relations, permitting, government capacity and incentives. I look forward to continuous engagement with MLC-ME to ensure this important work continues.

Regulatory system advances are underway. The Department has created the Programs and Permits branch to lead a client-centric approach. This branch will ensure effective, efficient, consistent and transparent administration of programs, permits and licences. We are also reviewing legislation and policy to determine areas for potential improvements of the permitting process.

Manitoba is rich in natural resources and various critical minerals, and is well-positioned for minerals sector growth to support the green industry. Key minerals and critical metals mined in the province include zinc, nickel, silver, copper, gold, uranium and cesium, with historical production and reserves of lithium. The Manitoba Critical Minerals team supports the national Critical Mineral Task Force on critical minerals and the battery supply chain.

Other significant mineral resources with high potential in Manitoba include platinum-group elements (platinum, palladium and rhodium), rare-earth elements, uranium, titanium, vanadium,

chromite, silica, tungsten, graphite, diamonds and potash. This list of commodities guides the Manitoba Geological Survey in providing relevant geoscience information and helps to focus and de-risk exploration and decision-making.

In 2020-21, the Manitoba Geological Survey participated in the co-development of the Pan-Canadian Geoscience Strategy (PGS) with the Geological Survey of Canada and other Canadian geological survey organizations to provide positive direction for the sector. This federal-provincial-territorial collaborative effort, co-ordinated through the National Geological Surveys Committee aligns with the Intergovernmental Geoscience Accord, and supports the Canadian Minerals and Metals Plan. The long-term vision for the PGS is to "provide geoscience information for the responsible development of Canada's geological resources and serve the public good" – a strategy that will help to explore options for advancing public geoscience coordination and funding.

I look forward to working closely with everyone across the sector. Thank you all for your ongoing hard work and unshaken commitment to reposition Manitoba as a global leader in mineral exploration and mining. ✖





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MANITOBA MINING ACTIVITY

By Paul Adair

Coming out of the pandemic, the current state of mining in Manitoba finds itself at a crossroads. The province's outstanding world-class deposits of critical metals, close proximity to supply inputs and markets, excellent transportation providers, and a skilled workforce at competitive wages are just a few of the reasons to remain optimistic for the future; yet a number of challenges persist.

"The provincial government has welcomed engagement from MAMI and members to provide input on future regulatory changes and direction, but more work is required on permitting and regulations that provide greater certainty as well as faster approval processes for permits," says John Morris, co-director at the Mining Association of Manitoba Inc.

The Government of Manitoba has introduced a number of incentives that promote mineral exploration and

mining in the province, such as the Mining Tax Act, which allows mining companies to deduct processing allowances from profits when calculating taxes owing. Since 2020, the province has also invested more than \$3 million towards mining projects that spur economic development, in addition to advancing reconciliation to attract capital into the province.

"Providing incentives for mining companies to develop operations in the province helps reinforce Manitoba's position as a mining-friendly jurisdiction," says finance minister Scott Fielding at a recent event in Snow Lake. "Since the mining sector is a major employer, especially in northern Manitoba communities, and a key driver of the economy, stimulating industry development ultimately benefits the entire province."

Shortly, the Government of Manitoba will also be announcing further changes

aimed at modernizing the province's aforementioned permitting system.

"The biggest challenge that we have is related to permitting; this is the message that we have heard loud and clear from the mining industry," says Agriculture and Resource Development Minister Ralph Eichler. "Once we get the permitting issue out of the way by the end of the year, we feel that we will be well-positioned to move forward in allowing the industry to do what it does best; and that's mining and exploration. I'm really excited about where we're going over the next four to five years – and beyond."

Vale Invests in Thompson Mine

Located 650 kilometres north of Winnipeg, the Thompson orebody was first discovered in 1956 by Vale (then known as Inco). After decades of prosperity, however, the Thompson mine has seen significant decline in recent years; so much so that, in 2019, Vale suggested that it was losing \$300,000 per day at the mine, and the company was unable to continue operations under the status quo. This admission by Vale spurred a comprehensive review of its Manitoban mining operations, which many saw as dire sign of things to come for the City of Thompson.

It was a relief then, that Vale last summer announced an investment of \$150 million to extend mining activities at the Thompson mine by a decade, with the potential of mining continuing in the region past 2040.

"This is the largest single investment we have made in our Thompson operations in the past two decades,"

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says Mark Travers, executive vice-president for base metals with Vale. "It is significant news for our employees, for the Thompson community, and for the Province of Manitoba. The global movement to electric vehicles, renewable energies and carbon reduction has shone a welcome spotlight on nickel – positioning the metal we mine as a key contributor to a greener future and boosting world demand. We are proud that Thompson can be part of that future and part of the low carbon solution."

The Thompson Mine Expansion is a two-phase project and is part of Vale's ambitious turnaround for the region. Phase 1 includes critical infrastructure such as new ventilation raises and fans, increased backfill capacity, and additional power distribution, which is expected to improve current production by up to 30 per cent. In addition to the expansion, Vale is also looking to continue an extensive drilling program to further define known orebodies and search for new mineralization in the region.

Hudbay expands operations in Snow Lake

In October, Hudbay held a grand opening for its New Britannia gold mill, and outlined its plans to significantly expand its operations in Snow Lake over the next few years.



"Hudbay's expansion of its Snow Lake operations over the next few years is good news for northern communities, the mining industry and the province as a whole," says Eichler. "We congratulate Hudbay on the opening of the New Britannia Mill, which will process ore on site and help keep more jobs in northern Manitoba."

The New Britannia expansion will include the refurbishment of the gold plant and the addition of a new copper flotation facility, which will help to

ensure increased production at the Snow Lake operations for years to come. This decision to push most of Hudbay's millwork and processing to the Snow Lake area will tremendously benefit local economies, as well as the entire province.

"The opening of the New Britannia mill is an important milestone for Hudbay," says Richard Trudeau, director, human

resources, external and indigenous affairs, Hudbay Minerals Inc. "Hudbay's story began here in Manitoba and, nearly a century later, our commitment to Manitoba continues. Today marks the start of an exciting new chapter for our company, the Town of Snow Lake, and the province. We look forward to sharing many successes in the years to come." ✕



Vale is looking North in Manitoba!

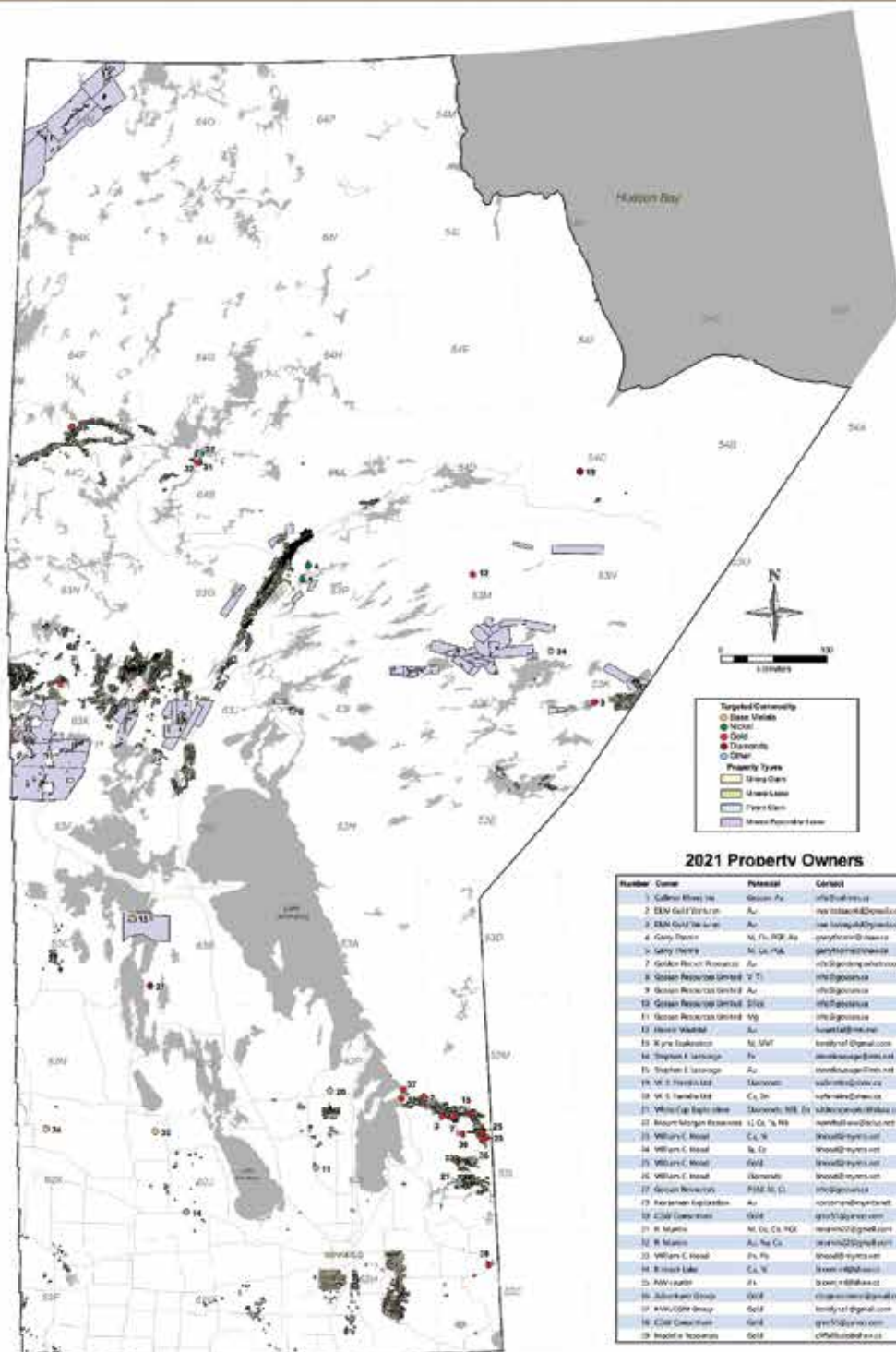
The \$150 million Thompson Mine Expansion Project will expand current mining activities by 10 years and explore the promise of producing nickel well past 2040.

Our ambitious turnaround story in Thompson will drive a clean and bright future.



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MANITOBA MINERAL PROPERTIES OWNED BY MPDA MEMBERS



Through their research and prospecting, MPDA members generate mineral projects which are often optioned to mining companies - thus making an important contribution to the mining industry in Manitoba.



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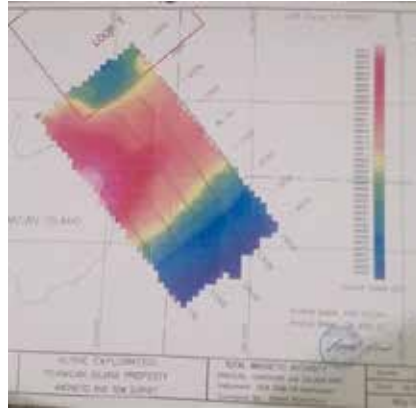
PEMMICAN ISLAND PROJECT – EV/BATTERY METAL NI/ZN/CO/PB/CU/AG/AU

PROPERTY PROFILE



Assays from the outcrop in the above picture

- 1.18 per cent nickel
- 0.76 per cent zinc
- 1,400 ppm lead
- 830 ppm cobalt
- 120 ppb gold
- A short-angle hole under the outcrop above yielded
- 20 feet 0.61 per cent zinc, starting at 15 metres down hole
- Within the 20 feet was six inches 4.59 per cent zinc, 0.41 per cent lead, .014 per cent copper, 10.4 per cent iron, 14.05 per cent sulfur, 62 ppm silver



Highlights of conclusions-geophysical survey

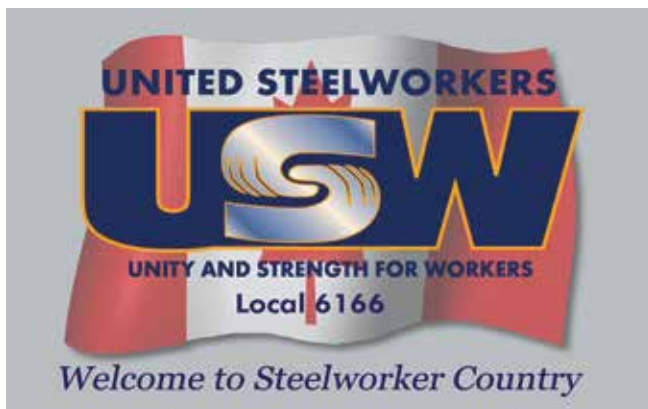
The most positive outcome from the magnetic and large-loop transient EM surveys at the Pemmican island property is that there appears to be an anomalous magnetic and conductive formation coincident with the inferred sulphide zone trending northeast under lake Winnipegosis from the island.

ICP analyses

Five small loose chip samples from the mineralized interval from DDH Klyne No. 3, sent for ICP-MS analysis, returned the following:

1. 95 per cent dolomite and five per cent sulphide – 6.04 per cent Zn and 1.04 per cent Pb
2. 80 per cent dolomite and 20 per cent sulphide – 31.2 per cent Zn, 6882.6 ppm Pb, 62 ppm Ag
3. 75 per cent dolomite and 25 per cent sulphide – 5.66 per cent Zn and 1.04 per cent Pb
4. 100 per cent sulphide – 7.84 per cent Zn, 2753.6 ppm Pb, 23 ppm Ag
5. 95 per cent dolomite and five per cent sulphide-0.98 per cent Zn and 1605.7 ppm Pb

From Cominco airborne geophysics completed in the 1990s, depth to bottom is 400 metres; there is an intrusive under pemmican island that is 300 metres to top and another a mile away, which is 200 metres to top. The geophysical classification under Pemmican Island is Mafic-ultramafic flow. ✕



THOMPSON EAST – BRYCE BAY: NI-CU-CO-PGE PROJECT

PROPERTY PROFILE

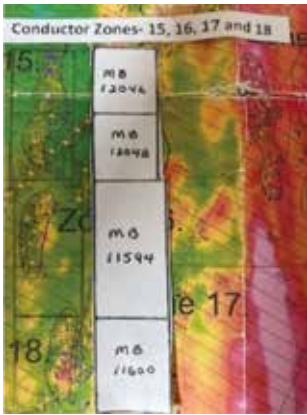


Figure 1: Conductor zones 15, 16, 17 and 18.

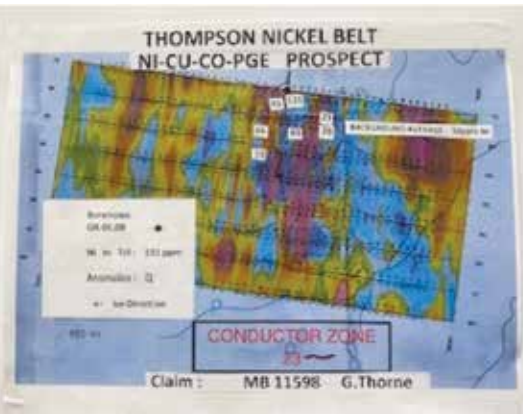


Figure 2: Conductor zone 23 with selected till Ni concentrations.



Figure 3: Massive sulphide – Bryce Bay claim.

Project areas and exploration

The project areas are located eight to 30 kilometres east of Thompson and are held in two blocks referred to as Bryce Bay, located north of Bryce Bay, and Thompson-East claims, which are directly east of Thompson. A total of 14 claims ranging in size from 40 to 208 hectares have been staked and are undergoing exploration. Access to the prospect area can be by four-wheel-drive truck, all-terrain vehicle, boat and motor or snowmobile. Anglo American conducted exploration in the early 2000s in the Grass River and Thompson-East area. This included an airborne 'spectrum' (magnetic, electromagnetic, radiometric and terrain) survey, which delineated 27 EM conductor zones that warranted follow-up ground work. Follow-up exploration included ground geophysical surveys and diamond drilled boreholes within selected conductor zones. Six of the highest rated conductor zones, some with multiple drill targets, are all on claims staked by G. Thorne (Norcangeo).

To advance exploration and further delineate targets, about 250 boreholes have been augered and sampled as part of till geochemistry exploration on the claims covering the TNB conductor zones and Bryce Bay claims. Three claim areas/conductor zones are of particular interest based on ground geophysics, diamond drilled cored boreholes and rock and till assay values and are profiled below.

Conductor zones 15, 16, 17 and 18

Four claims (MB 12046, MB12048, MB11594, MB11600) were recently staked (April and September 2021) covering all or most of these four conductor zones. These conductors are located about six kilometres directly east of the Thompson T1 and T3 mines and about one kilometre east of the Thompson mines settling ponds. Two high-grade conductors located in conductor zone 15 (Figure 1) were identified by the airborne spectrum survey and to the best of the writer's knowledge have not undergone any additional ground geophysics or drilling. Another highly rated conductor

zone target is located on MB Claim MB 11600 (Zone 18). Historical drilling indicates that the area of the claims is underlain by the Ospwagan Sediments, which include the Pipe Formation. The Pipe Formation is principle host to the rich magmatic nickel and copper deposits of the TNB. The location and highly rated geophysical anomaly make these zones excellent targets for additional ground geophysics and drilling.

Conductor zone 23

This conductor zone located about eight kilometres south and on strike with conductor zones 15 to 18 and highly rated conductor zone 20 (also recently staked by the writer) has three drill targets identified by the airborne spectrum survey and follow-up ground geophysics. Two cored boreholes on the property intersect what is believed to be the Pipe Formation. High Ni values, 131.5 and 90.8 ppm (Figure 2) have been determined by assays for till samples collected from two of the boreholes augered on claim (MB 11598), which overlies one of the

Access to the prospect area can be by four-wheel-drive truck, all-terrain vehicle, boat and motor or snowmobile. Anglo American conducted exploration in the early 2000s in the Grass River and Thompson–East area.

strong EM anomalies of conductor zone 23. These Ni concentrations are comparable to many of the values from till deposits directly overlying or within 750 metres of Pipe Lake, Thompson C Pit and Soab Lake mine (McClenaghan et al.). In addition, high Ag assay values of 771, 363 and 246 ppb were recorded for till samples recovered from boreholes sampled on this claim.

Additional till exploration (18 boreholes were augered and sampled in September 2021) on the second drill target of Zone 23. Till samples have been submitted to ALS Vancouver laboratories for ICP exploration package analysis.

Bryce Bay

Till of the Bryce Bay claims (MB 9514, MB10467, MB12045) located North of EM conductor zones recorded by the Anglo Spectrum survey has anomalous high As, Au, Ag, Pt, Pd and Cr concentrations. Of particular interest are high As values of 505 ppm – 100 times soil background levels, indicating a potential Nikeline source, and elevated to high Au, Ag and Cr concentrations. Initial channel sampling of a massive sulphide vertical dipping vein up – ice of the anomalous till. Provided Ag values of 3.13 ppm, Cu values of 8500 ppm and Co values up to 1610 ppm.

Contact info

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Phone: 204-997-9087
Email: norcangeo@shaw.ca

References

M.B. McClenaghan, S.A. Averill, I.M. Kjarsgaard, D. Layton-Mathews and G. Matile. Indicator mineral signatures of magmatic Ni-Cu deposits, Thompson Nickel Belt, central Canada. Geological Survey of Canada, Open file 7261. ✕

In loving memory of **WILLIAM DOUGLAS FOGWILL**

A fellow member of the Manitoba Prospectors and Developers Association (MPDA), Doug Fogwill, passed away on Friday, June 11, 2021, at the age of 83. He is remembered as a beloved husband, father, grandfather, uncle, cousin and brother. Our membership remembers Doug as a good friend, and an avid supporter of the mineral exploration business.

Doug was born in St. John's, Newfoundland on March 25, 1938, to Irving and Jennie Fogwill. In 1960, he graduated with his B.Sc. in Geology from the Memorial University of Newfoundland in St. John's, and went on to do post-grad work at the London School of Economics, the Colorado School of Mines and the University of Saskatchewan.

For many years, Doug served as a director and officer for the MPDA. In addition, he was member of the Manitoba Association of Professional Engineers & Geoscientists, a lifetime member of the PDAC, as well as a former district vice-president of the CIMM.

After his retirement from the Manitoba Department of Energy and Mines, he worked as prospector and consulting geologist in mineral industry. He participated in many



mineral discoveries, including copper-nickel, uranium deposits and new gold mineralization in Manitoba. He had always joked that he is a 'rock doctor from the rock'.

A celebration of life service was held on Saturday, July 10 at Barrett's Funeral Home in St. John's, Newfoundland. He is buried at Mount Pleasant Cemetery. In lieu of flowers, donations can be made to the Heart & Stroke Foundation or any local Big Brothers Big Sisters of Canada. ✕

QUARRY PROJECT (GOLD)

By Ken Klyne

PROPERTY
PROFILE



Grab samples from quarry.

I had originally staked this area as a retirement project as it is close to Winnipeg. The assessment files show a couple of short shafts with native copper/gold showings. There is also a 30-foot adit following a quartz vein.

Six months later, the contractor building the new road north to the First Nations reserves on the east side of Lake Winnipeg started quarrying on one of my claims. The quarry started out the size of an Olympic pool, and now you could fit a football field in there.

Multiple veins showed up. The two zones appear to be four feet wide and 50 feet wide. Soon I was making weekly trips tracking the quarry expansion progress. More claims were staked to complete a land position. Prospecting/assaying is ongoing as is mapping of direction and length of quartz veins. ✕



CANADIAN PREMIUM SAND: A LEADER IN SOLAR GLASS



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CPS owns rights to a high-purity, low-iron silica sand quarry, located 160 kilometres north of Winnipeg. Low iron content in silica sand is essential to produce premium solar glass as it

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CPS is positioned to be the first patterned solar glass supplier in North America. We believe long-term economic prosperity for Canadians requires more robust domestic primary manufacturing with responsible use of our resources as we work towards net-zero as a society. For too long, North America has had to import 100

per cent of its patterned solar glass demand — even though Canada has an abundance of premium, accessible raw materials like high-purity silica sand and is an energy exporter.

Our state-of-the-art patterned solar glass manufacturing plant will be an economic catalyst for the industry and region, and make a meaningful contribution to Canada's manufacturing sector. The facility will utilize the best technology available and renewable electricity to set a new standard for sustainable glass manufacturing. ✕

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1911 GOLD CORPORATION: REIMAGINING THE HISTORIC RICE LAKE GOLD DISTRICT

1911 Gold Corporation (the “Company” or “1911 Gold”) (TSX-V: AUMB) (OTCQX: AUMBF) is a junior gold explorer and producer that holds more than 63,000 hectares of mineral dispositions in Tier-1 jurisdictions with proven potential for world-class gold deposits, including the Rice Lake and Snow Lake districts in Manitoba, and the Timmins district in Ontario.

The Company’s consolidated, district-scale (58,000 hectares) land position in the underexplored Rice Lake greenstone belt, coupled with the permitted and operational 1,300 tonnes-per-day mill and tailings facility (the True North complex) at Bissett, Manitoba, are critical strategic assets, setting 1911 Gold apart from its peers. Together with a significant revenue stream from the reprocessing of historical tailings, which produces 4,500 ounces of gold per year to fund ongoing operational and corporate costs, the Company’s assets present a significant value proposition for shareholders.

The regional exploration of the Rice Lake project is the Company’s main focus. The project covers a 90-kilometre length of the underexplored Rice Lake greenstone belt, which is the western extension of the prolific Red Lake greenstone

belt approximately 100 kilometres to the east in Ontario. The project also includes a 70-kilometre segment of a crustal-scale break referred to as the Wanipigow Fault, which defines an ancient craton margin and is an important regional control on orogenic gold.

Commencing in 2019, 1911 Gold initiated the aggressive regional exploration program of its Rice Lake project, including high-resolution aeromagnetic and LiDAR surveys, acquisitions of additional prospective ground, data compilations, and a field exploration campaign of mapping, prospecting, surficial geochemistry and ground geophysical surveys.

Using a systematic, science-based exploration approach, the company has efficiently advanced several projects to first-pass drill testing. To date, the Company has completed 87 drillholes, totalling 25,111 metres to test 14 different targets throughout the Rice Lake property, with select highlights listed below (please refer to the 1911 Gold website for additional details).

Exploration Drilling Highlights

- 26.4 g/t Au over 2.0 metres (DDH TS-20-003) from the Tinney Shear target
- 9.3 g/t Au over 2.6 metres (DDH CG-20-001) from the Cougar target
- 6.2 g/t Au over 2.6 metres (DDH EO-

20-002) from the Edna-Otter target

- 6.0 g/t Au over 3.3 metres (DDH BL-20-005) from the Bidou South target
- 8.1 g/t Au over 5.7 metres (DDH EO-21-005) from the Edna-Otter target
- 11.3 g/t Au over 1.6 metres (DDH EO-21-005) from the Edna-Otter target
- 7.1 g/t Au over 2.5 metres (DDH EO-21-016) from the Edna-Otter target

Fieldwork in 2021 included detailed geological mapping, prospecting, and soil and vegetation sampling across six project areas, with the goal of identifying drill targets with potential for significant gold deposits. The next phase of exploration drilling, planned for Q4 2021 – Q1 2022, will follow up on results from the successful Phase I and Phase II drilling programs, and will also test newly developed targets at several projects that have seen only minimal previous exploration drilling.

Also in 2021, the Company significantly advanced its Apex Gold Property near Snow Lake Manitoba, completing claim staking, line-cutting, an IP geophysical survey and a field exploration program consisting of geological mapping, prospecting and surficial geochemistry. This work has generated a number of very compelling targets in areas that have not been tested by historical drilling, and the Company looks forward to a maiden exploration drilling program in the coming months.

Active project areas at 1911 Gold's Rice Lake property



With its growing pipeline of quality projects and targets, the Company is positioning itself for continued exploration success, with the goal of identifying and developing additional sources of ore to augment the existing mineral resource within the True North deposit, estimated (March 2018) to contain approximately one million ounces of gold in the measured, indicated and inferred categories.

The Company's Rice Lake land package is located within the traditional territory of the Hollow Water First Nation, signatory to Treaty No. 5 (1875-76), and the Company continues to benefit from open, co-operative and respectful relationships that have been maintained with all stakeholders over the years. 1911 Gold is committed to excellence in Health, Safety, Environmental and

Governance standards, including timely information-sharing and supporting Manitoba-based businesses to maximize local economic benefits.

With an experienced management and technical team, clear corporate strategy, clean balance sheet, well-funded exploration program, strong project portfolio in established operating jurisdictions, and a systematic approach to exploration, the Company is well positioned to execute on its plan to generate significant value through discovery of a Tier-1 gold resource while leveraging its existing infrastructure to quickly advance new discoveries into production.

About

Scott Anderson, Ph.D., P.Geo, is vice-president, exploration for 1911 Gold Corporation. ✕



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HUDBAY ENTERS A NEW GOLDEN AGE WITH STARTUP OF GOLD MILL AT SNOW LAKE

By Peter Kukielski, CEO and President of Hudbay Minerals

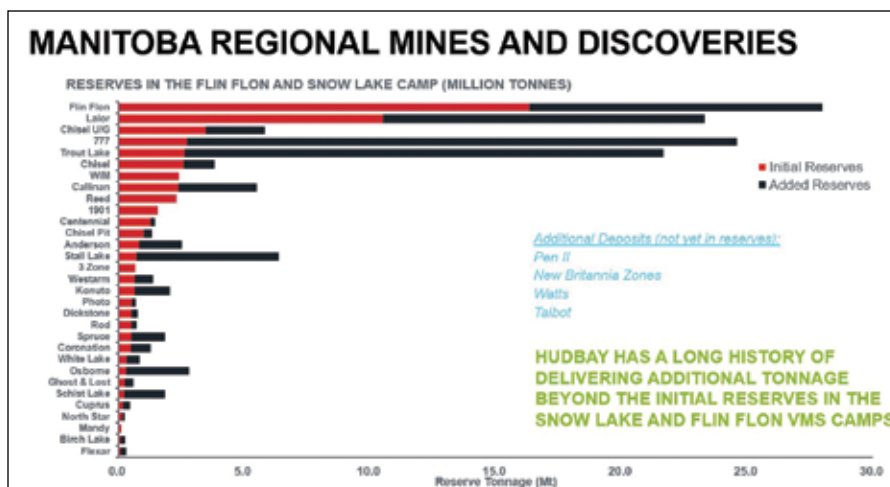
Hudbay reached a major milestone in Snow Lake this summer, ushering in what we are hopeful will be a new golden age for Hudbay in the region and for the province of Manitoba. After securing funding in May 2020

and completing over a year of work during a pandemic, in June 2021 Hudbay completed the refurbishment of our New Britannia mill, which will process ore from our Lalor mine. Commissioning and startup

activities occurred in July and thanks to the resilience and dedication of our Manitoba staff, Hudbay's first gold pour was achieved in mid-August, ahead of original schedule.

With Hudbay's 777 mine in Flin Flon slated to close next June, the startup at New Britannia marks the start of Hudbay's transition to make Lalor a primary gold operation in the province. During the first full six years of New Britannia's operation, annual gold production in Snow Lake is expected to increase to over 180,000 ounces.

At the time of writing, New Britannia is the only facility producing gold in Manitoba. We are committed to Manitoba and after 90 years of operations, we are proud to be





leading the way for gold mining in the province. Hudbay believes in leaving the areas in which we operate better than we found them and Snow Lake is no exception. We look forward to building a deeper relationship with the community, supporting employment in the region and contributing to the local economy.


Although our newly refurbished mill in Snow Lake will greatly increase our gold production next year, Hudbay is first and foremost a copper company and in 2022, an estimated 60 per cent of our revenue will still come from the red metal. In Snow Lake, we are building a brand-new copper flotation facility – the only one in Canada composed entirely of Jameson Cells (Mk. IV)- and are on track for commissioning and ramp-up before the end of this year. Our copper facility, once up and running, will only further enhance copper and gold recoveries at the New Britannia mill.

Although New Britannia is complete and operational, we have no intention of standing still in Snow Lake.

Exploring is at the root of who we are as a company, and we are excited to continue to discover and develop in the area. After our successful 2021 winter drill program in the Chisel Basin, this summer we worked to identify gold and base metal targets and conducted a follow-up drill program on a new target immediately north of Lator. We have high hopes for the results of the

drill program, which we will share as part of our annual mineral reserve and resource estimate in March 2022.

Once full ramp-up has been achieved at Lator and based on current reserves, our mine at Snow Lake is expected to produce copper and gold for the next 17 years. However, with our proven track record of continuously adding reserves to our mines in Manitoba, we have no doubt we will be operating for many more years to come in the province. ✕



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THE VALUES PLACED ON THE LYNN LAKE GOLD PROJECT

By Colin Webster and Michael Raess



The digital literacy training provided to residents of the Lynn Lake region on September 5 and 6, 2021.

At Alamos Gold, we are a community of people who are passionate about our work, taking care of each other and remaining passionate about our own safety and the safety of others.

At the same time, we are committed to meaningful engagement with our host communities in a spirit of honesty, accountability and integrity to better understand local priorities and expectations, as well as local traditions, beliefs and culture.

As we work to advance our Lynn Lake Gold project, these are values and principles that guide us, and we can point to particular examples in the past year.

The sudden global onset of COVID-19 required a swift response, and Alamos did so by ensuring the safety of our employees, their families, and the local community. In Lynn Lake, we have maintained continuous communication with our

employees and local leadership and adhering to strict public health COVID-19 protocols, including a partnership with the provincial government on rapid tests to enhance the protection of our employees and the community.

This past summer, wildfires were an unexpected threat to the Lynn Lake community and required an immediate response. Our local team stepped up to assist in these emergency efforts, and we will support the community in forest fire prevention.

Training and development remain a priority for us as we advance the project. This is in keeping with our Company-wide commitment to hire as many local and regional people as is feasible at all levels, including management and non-management employees. Despite COVID-19, we have made great strides in this area by working with strong local partners in the Lynn Lake region.



Above left: Michael Raess, manager of environment & community relations at the Lynn Lake Gold project. Right: A team gathered for the Youth Development Project in winter 2021, including left to right: Ernest Merasty (Chepil project leader), Marcel 'Moody' Colomb (youth participant), Sarah Copapay (MCFN employee training manager), Michael Raess (Alamos Gold manager, environment & community relations), Don McCollum (MCFN councillor), Gordon Halkett (cabin contractor), Douglas Hart (MCFN housing manager), Cory Hart (MCFN councillor) and Eagle Colomb (youth participant). Photo credit to Alamos Gold.

For example, recently Alamos supported a digital literacy program in Lynn Lake, led by Tech Manitoba and the Northern Manitoba Sector Council. By helping to recruit participants for a multi-day free digital literacy training program, 22 people became more knowledgeable and equipped with newly gifted refurbished laptops.

This summer, as part of the Manitoba Youth Jobs Program, Alamos hired three young people from Lynn Lake with great success in enhancing their knowledge of our Lynn Lake exploration activities. Alamos is also involved in a local school education initiative, in partnership with Mining Matters.

Another great collaboration we have is with WEM (Workplace Education Manitoba) to deliver an essential and life skill program for our local employees, and we are hoping to expand this training to the greater community to prepare for future training.

In addition, we achieved great results in our first phase of our Youth Development Project, launched last year with Marcel Colomb First Nation and the Manitoba Mineral Development Fund. We hope to begin Phase II of this program, which supports traditional knowledge and skills training among local Indigenous youth, leading to possible careers in the mining sector.

Our collaboration with local First Nation leadership is key

to improving employment opportunities and to inform communities on the proposed mine's activities. We have maintained an open communication with respect to the project's effect on the land, water vegetation and wildlife, with an emphasis on how traditional practices and Indigenous rights may be affected.

We also look forward to local initiatives being reintroduced safely in 2022, including the "Dreamcatchers of Lynn Lake" initiative whereby we support beneficial community projects, and the bi-annual Culture and Mental Health Day – a regular event that provides ongoing cultural sensitivity training that is led and organized by the Marcel Colomb First Nation.

We will also continue to consider the local economy, and how we can play a positive part. In 2020, for example, Alamos spent over \$2.2 million on suppliers in the local region.

Great progress with respect to the Lynn Lake requires us to put our values into practice, and we hope that our contribution in the past year is a reflection of what Alamos can do well into the future.

About

Colin Webster is Alamos Gold's vice-president of sustainability and external relations, and Michael Raess is manager of environment & community relations for the Lynn Lake Gold project. ✕

Island Gold's reserve and resource base has grown substantially since 2016, doubling to 3.7 million ounces by 2019 and forming the basis for the Phase III Expansion. The deposit continues to grow with another million ounces of high-grade reserves and resources added in 2020 and the best hole drilled to date in 2021.



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Although closing in 2022 due to reduced feedstock, the Hudbay hydrometallurgical zinc plant has been a modern technology source of industrial employment in Flin Flon for 30 years.

MINING ESSENTIAL TO KICK-START CANADA'S LOW-CARBON TECH REVOLUTION

By Pierre Gratton, President and CEO, The Mining Association of Canada

What do the green technologies essential to getting us to net-zero, like solar panels, wind turbines, nuclear energy and electric car batteries, all have in common? A dependence on metals, like nickel, iron, cobalt, uranium, zinc and copper, to function. The question is not whether we require minerals and metals to reach our climate goals, but rather if Canada will become the supplier the world needs.

As a recognized global leader in responsible mineral production and with markets and consumers increasingly demanding cleaner and greener materials at every stage of the supply-chain for the products they

consume, Canada is well placed to become the supplier of choice for these critical inputs. With 82 per cent of our electricity generation coming from non-GHG emitting sources, Canada produces some of the lowest carbon intensity mineral and metal products anywhere in the world and can and should play a much more significant role in providing the materials the world needs to get to net-zero.

Manitoba's mining sector is a key contributor to Canada's leadership in this space. The mining industry is one of the largest primary resource industries of Manitoba's economy and in 2020 its minerals and metals sector

contributed \$1.3 billion dollars in GDP to the economy and accounted for over 11,000 jobs. Vale's nickel operation in Thompson and Hudbay Minerals Inc.'s copper and zinc mines in Flin Flon and Snow Lake are just two examples of leading Canadian mining companies operating in the province that are providing the raw materials to literally piece together the tech that will lower our GHG footprint.

Our leadership in sustainably producing the materials is undeniable, but there are other major reasons beyond climate change for Canada to increase its production of critical minerals. One reason revolves around



Vale's Manitoba Operations are located in the heart of the northern boreal region in Thompson.

the increasing geopolitical uncertainty that has magnified the precariousness of existing sources of critical minerals, vital in telecommunications, healthcare, computing and clean technologies.

Recently, governments across the globe have started assessing the vulnerability of their respective economies to supply shocks for critical minerals: minerals and metals that they cannot source in sufficient volume, or at all, from within their borders, but on which the proper functioning of their economies are dependent. Elevated security of supply concerns have caused Canada's allies, including the United States, Europe and Japan, to re-evaluate and take action to reduce their exposure to the risk of supply shocks that can have major impacts on their broader economies. They are looking to Canada to be a reliable, responsible and trusted source in an increasingly uncertain world.

The global pandemic has brought the security of supply vulnerabilities into sharp focus for many countries, including Canada, and combined these trends have accelerated the desire of Canadians to source and produce locally, with greater self-reliance. By providing support specifically for mining electrification, clearer and more effective permitting processes and incentives for the discovery of new critical mineral and metal deposits, Canada would clearly signal to the world that it is committed to being a global leader in this space.

Achieving success for Canada in the critical minerals space has multi-level, multi-partisan support. Last spring, the federal government announced its official critical minerals list and the governments of Quebec, Saskatchewan and Ontario are all moving forward in supporting critical mineral projects. With Manitoba producing 37 per cent of Canada's zinc and significant amounts of nickel and

copper, the province is well placed to also play a leading role in providing the materials needed for a greener future.

There is no question that the global climate will benefit from goods and technologies produced with low carbon Canadian materials. Whether for domestic or international production – and ideally both – one of the greatest climate actions Canada can take in support of Paris Accord objectives is to maximize domestic production of low-carbon metals and materials needed to meet projected clean technology demand. It's time for Canada to be ambitious and seize the moment. With our leadership in sustainable mining standards and with targeted government support, Canada's mining industry can provide the responsibly sourced minerals vital to getting the world to net-zero.

This article has previously appeared in the *Winnipeg Free Press*. ✕

THE UNITED NATIONS DECLARATION ON THE RIGHTS OF INDIGENOUS PEOPLES AND THE OREFINDERS

The United Nations Declaration on the Rights of Indigenous Peoples (UNDRIP) is an international instrument adopted by the United Nations in 2007. It was 25 years in the making, and involved UN member states and Indigenous groups.

The first 46 articles deal with Indigenous rights to full employment, human rights and fundamental freedoms. It includes rights regarding culture and customs, religion, language and the right to maintain and strengthen their economic and political institutions.

Article 26 states that Indigenous peoples have the rights to lands,

territories and resources, which they traditionally owned, occupied or otherwise used or acquired. It directs the state to give legal recognition to these territories. The Declaration does not override the Indigenous rights contained in treaties and agreements with individual states.

The Manitoba Prospectors and Developers Association (MPDA) are anxiously wondering how UNDRIP will impact on our exploration business to explore and extract metals and minerals in Manitoba. In the recent past, the process to obtain permits, secure land

tenure, and raise capital for exploration and mining has been shrouded in uncertainty. This has resulted in Manitoba's global ranking as a safe place to invest with high exploration potential, to tumble.

Mineral exploration is necessary for mining to continue into the future. Although mistakes were made in the past, the MPDA is committed to working with Indigenous peoples and government to ensure responsible and sustainable exploration and mineral development occurs for the benefit of all Manitobans. ✕

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MADE IN MANITOBA

Sandvik is a widely recognized original equipment manufacturer of mining drills, loaders, trucks, automation technology, and more. What many Canadians do not realize though is that Sandvik produces a line of their equipment right here in Manitoba!

Sandvik's in-the-hole longhole drills are designed, engineered, and manufactured at a facility in Winnipeg, Manitoba. The target of these longhole drills is to maximize ore recovery and minimize dilution with drilling of production or service support holes accurately and according to the plan, with a specialization in holes 30 to 100 metres in length and three to eight inches in diameter. The production unit has also engineered a reverse circulation option to allow for grade control sampling with a quick reconfiguration of the same drill to

maximize utilization of the equipment and identify orebodies in a quick and cost-effective way. The facility employs mechanical and electrical engineers, mining experts, welders, technicians, and more, who build and deliver drills around the world.

The Sandvik Winnipeg production unit was originally home to Cubex prior to Sandvik's acquisition of the company in 2012.

"Sandvik recognized the value of the local knowledge in Winnipeg when acquiring Cubex in 2012," says Corey Flannagan, ITH product line and general manager of the Winnipeg production unit. "The products we manufacture are industry standard when it comes to in-the-hole longhole drilling and we retain that expertise locally in Winnipeg."

Peter Corcoran, vice-president of Sandvik Canada explains that Sandvik's ITH drills are used by major miners across Canada and around the world. "Most of the time when mines are using a V-30 for slot raises, service, or vent raises, they are using that with a Sandvik ITH drill manufactured in Winnipeg."

In-the-hole drills are particularly beneficial for achieving straighter holes at longer hole depths, meaning mines can accomplish longer hole distances between sub-levels, potentially fewer sub-levels, and, therefore, lower development costs. In-the-hole drills also have less loss in penetration rates as holes deepen and lead to better fragmentation compared to top-hammer drills. ✕

SOLARA MAKES COMMUNICATIONS FROM ANYWHERE EASY

Submitted by Solara Data

Photos courtesy of Solara Data.



The Solara Flare is designed and manufactured in Winnipeg by Solara for Canadian conditions.



The Solara Flare is operated from the easy-to-use app in your smartphone for texting to and from anyone.

Solara designs and manufactures extremely durable, two-way cellular texting devices with GPS location capabilities, which, thanks to their reliance on the powerful Iridium satellite network, have no dead zones anywhere on earth. Solara is a company based in Winnipeg, Manitoba that started offering a personal tracking device in 2004, and since then has expanded its line to include satellite texting and GPS locations by satellite using a simple-to-use smartphone app with the Flare product.

Solara's products are found literally across the globe, in almost every imaginable scenario, whether it be military vehicles in Europe, Coast Guard services in New Zealand, mine exploration in Australia or expeditions to the North Pole.

"The beauty of it is, you could be anywhere on Earth and it will still work," says Solara president Tom Tessier.

With such a powerful product that has such a range of applications, Solara's tracking devices were something Tessier was inspired to create after working with the Inuit in Nunavut.

In the 1990s, Tessier was responsible for the data and radio systems for SpacePort Canada, which was based in Churchill, Manitoba. During the course of his work, Tessier developed working relationships and friendships with many of the Inuit people living in neighbouring Nunavut, particularly when it came to recovering SpacePort's spent rocket stages from the field. Tessier was struck by the Inuit's ability to live off the land and how they would often track caribou herds for hundreds of miles inland. However, conditions in Canada's north can go from bad, to worse, to extreme very quickly: temperatures can plummet and blizzards can make visibility almost nil. Tessier said that individuals dying from exposure as a result of becoming lost, or people who were simply never seen again, was a regular occurrence for these communities – a tragic, yet unavoidable risk of living in that environment. It was from talking with the people of these communities that the idea behind Solara was born, said Tessier.

"I had one Inuit fellow come up to me and say, 'Hey, you're the engineer from the South, come up with something that works, so we can track these people and know when they're in trouble,'" Tessier says.

At that time, the 1990s, there were no reliable devices that could provide that level of communications – or any that could withstand

“I had one Inuit fellow come up to me and say, ‘Hey, you’re the engineer from the South, come up with something that works, so we can track these people and know when they’re in trouble,’” Tessier says.

the frozen temperatures of Nunavut. Tessier’s designs, however, did survive, and Solara was started.

Not only are Solara trackers durable, but their monitoring software is also extremely flexible. The Flare uses SMS texting from your smartphone, so it is easy to learn – people normally have the app installed and working with the Flare in less than 15 minutes. The Flare’s big brother, the Field Tracker 2200, also offers users immediate SMS texting, email and automated phone messaging, which, needless to say, have tremendous importance where safety is concerned. However, the Field Tracker 2200 is also made to survive drops on to rocks and steel decks in temperatures as low as -50 degrees Celcius. Both products can use Solara’s extensive map routing through the Iridium Satellite network back to the operator’s central computer at Solara headquarters, where the data is recorded and can be analyzed to improve efficiency.

Solara also has a line of remote sensors for things like weather and water quality that also uses these analytical and information display capabilities.

Additionally, Solara is developing a modification to allow the device to record information trip by trip, or each start and stop session, which can be broken down by day, by each operator’s individual shifts or even by trail. The degree of flexibility Solara offers through their software means the operators and possibilities are almost endless. If it moves and it can be measured, Solara can track it.

Indeed, Solara provides an effective communication solution that is robust, easy to use. Ninety-nine per cent of the time, for most users, on most days, the Flare and Field Tracker is simply something that you turn on at the beginning of your day and turn off when you’re finished. But when those emergency circumstances arise, you simply can’t put a price on a reliable, instant call for help. ✕



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THE MINERAL DIALOGUE

By MaryAnn Mihychuk



You spoke and we listened. In the fall of 2020, the Manitoba Prospectors and Developers Association began planning actions to address two obvious issues: the declining number of exploration projects in the province, and Manitoba's fall from No. 2 to No. 37 in the ranking of international mining jurisdictions. It seemed both could be addressed by having better communication between Indigenous communities and the industry.

MPDA prospectors and explorers got together and decided to take a bold, innovative approach to form a new meaningful partnership with Indigenous peoples through honest and open dialogue.

But how? We settled on an audacious plan, to host a weekly radio program that would be heard in all First Nations in the province. It would be called The Rock Circle, and it would include the voices of Indigenous and industry experts on the major issues facing communities and the exploration business.

The concept of a radio program was adopted by MPDA and partnerships were formed with the Treaty Commissioner of Manitoba, the Manitoba Chamber of Commerce, and NCI-FM.

Since first airing on August 10, 2021, the Rock Circle has broadcast interviews with national and provincial Indigenous leaders, industry leaders, and experts on complex topics such as UNDRIP and treaties.

We're entering our second quarter of shows and have lots of new and exciting topics to cover. Join the conversation: be a guest, be a sponsor, be heard!

Contact MaryAnn Mihychuk at mmihychuk@gmail.com or Ric Syme at syme4951@gmail.com. Find our complete library of past issues on Facebook or our website at mpda.ca/_rockcircle. ✕

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and lasting understanding
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RECENT SHOWS

Let's talk UNDRIP (United Nations Declaration on the Rights of Indigenous Peoples), with Dr. Niigaan Sinclair, Indigenous educator and columnist, and Michael Goerhing, CEO of the BC Mining Association.

The Environment, with Elder Margaret Swan and environmental scientist Tara Shea.

Treaties, with Loretta Ross, Manitoba Treaty Commissioner.

Let's make a deal, with Christian Sinclair, former Chief of OCN, and Jennifer Boyle, Director and Founder, and former Executive Chair of Satori Resources.

Where are the mines? with Phil Fontaine, three-term National Chief of the Assembly of First Nations, and Dr. Chris Beaumont-Smith, mineral exploration consultant.

Sacred sites, sacred relationships, with David Harper, former MKO Grand Chief, and archaeologist Amber Flett.

Claim jumpers and more, with Dr. Scott Jobin-Bevans, (international mineral exploration consultant).

Land Back: Kapyong/Naawi-Oodena, with Long Plain Cree Nation Chief Dennis Meeches.

Where are the benefits? with Andrew Colomb, former Chief of the Marcel Colomb First Nation, and Colin Webster, vice president, sustainability and external affairs for Alamos Gold Inc.

FPIC (Free, prior and informed consent), with Robert Wavey, former Manitoba Deputy Minister and former Chief Executive Officer of Fox Lake Cree Nation.

A deep dive into the rocks, with Ric Syme, former Director of the Manitoba Geological Survey, and Michelle Nicolas, Manager and Provincial Geologist, Manitoba Geological Survey. ✕

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FAR RESOURCES PROVIDES AN UPDATE ON THE ZORO LITHIUM PROJECT AND THE NEWLY ACQUIRED JEAN LAKE LITHIUM-GOLD PROJECT

Established nine years ago by Keith Anderson, Far Resources is a junior mineral exploration company headquartered in Vancouver, B.C., according to John Gammack, CEO and president, who was involved in the startup with Anderson.

Anderson jumped into the lithium business in the Snow Lake area in Manitoba, but it wasn't as popular as it is now.

"Lithium kind of fell a little bit; the appetite was not there, although they knew it would come back, which it did," says John Gammack, president and CEO.

Far Resource's Zoro Lithium Project is located in east-central Manitoba, 20 kilometres east of the historic mining town of Snow Lake. The property consists of 16 claims with a total of 3,603 hectares and the recently acquired five-claim, 1,002-hectare Jean Lake property (Figure 1). Exploration has advanced on the property with an integrated program of prospecting, innovative soil geochemical surveys and five diamond drill programs totalling almost 8,500 metres in 60 holes. More than \$5 million in exploration expenditures has been spent on the property and this has caught the attention of the investment community.

"Snow Lake, as Far Resources is concerned, is a highly prospective and developing area for lithium exploration and development as well as for its historic and ongoing gold and base metal endowment," Mark Fedikow, P. Geo., Far Resources geologist says.

"We now have 13 pegmatite dikes on the Zoro property that need continued assessment including diamond drilling," Gammack says. "We will revisit our historic Dike 1 where we have an inferred resource of 1,074,567 tonnes grading 0.91 per cent Li₂O at a 0.3 per cent cutoff. We're

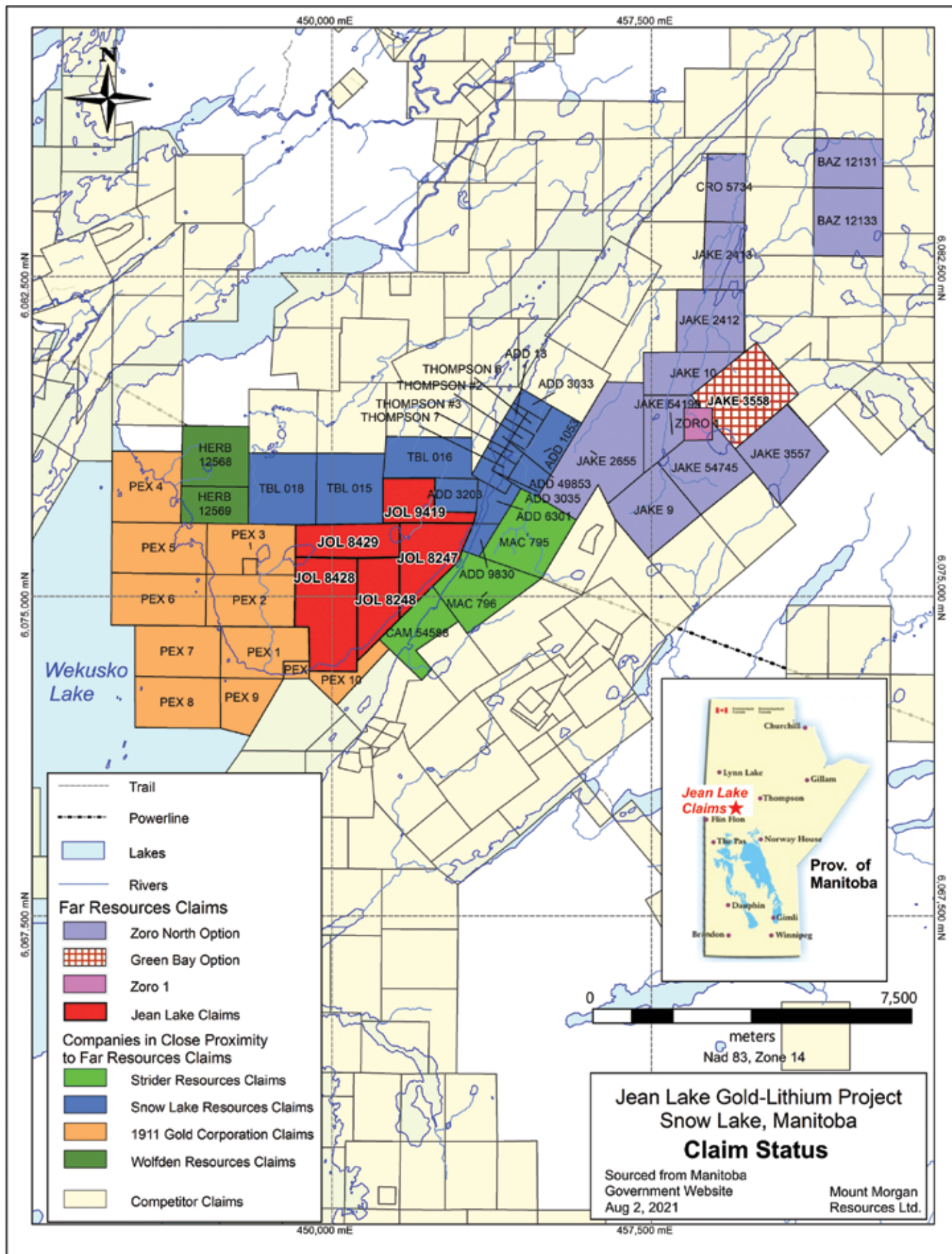
going to be moving forward with the exploration there, with the intent of increasing tonnage and grade of Li₂O. It's going to take a little bit of time but we are committed to achieve our goal." Far Resources is currently developing their Zoro winter drill program by integrating databases from previous exploration programs and plans to be drilling in 2021-2022.

"Far Resources is pleased to be working in the Snow Lake area," Fedikow says. "It's a historic and currently active mining town, and we've received a lot of assistance from the local community. They offer a knowledgeable work force, modern rotary and fixed-wing transportation, core preparation and storage facilities and a political framework that understands the value of exploration and mining. It is the kind of support necessary to run a successful exploration and development program."

The Company recently completed a prospecting program on the newly acquired Jean Lake property. This program was designed to provide a preliminary assessment of the lithium and gold potential on the property by searching for additional spodumene-bearing pegmatite dykes and reviewing the geological setting of historic high-grade gold mineralization on the property while also collecting representative confirmatory assay samples.

"We're going to be submitting rock samples to assay labs from the recently uncovered historic Beryl pegmatite and from historic and new gold mineralized zones; we're quite excited about this property," Gammack says, adding Jean Lake had work done on it in 1942 when a previous company trenched and then drilled eight holes.

"Jean Lake is not an easy place to work; there's a lot of accumulated dead fall and eight inches of moss after more than 80 years of growth. You have to get dirt under your fingernails, but it's exciting," Gammack says. ✕



NEW AGE METALS COMMENCES MAIDEN DRILL PROGRAM AT ITS LITHIUM TWO PROJECT IN SOUTHEASTERN MANITOBA, CANADA

New Age Metals Inc. (TSX.V: NAM; OTCQB: NMTLF; FSE: P7J2) ("NAM" or "Company") is pleased to announce that its maiden drill program on its Lithium Two Project that is part of its Manitoba lithium division has commenced. The Company plans to drill a minimum of 1,500 metres. The program is going to consist of drilling eight shallow holes to a maximum depth of 200 metres below surface.

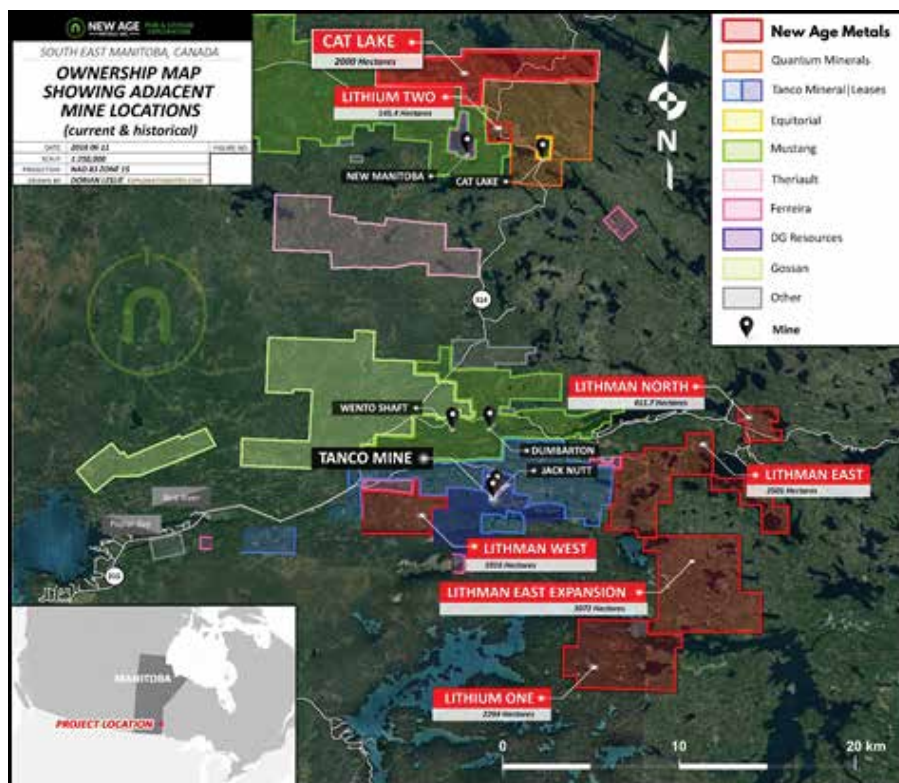
- A minimum 1,500-metre maiden drill program at the Company's Lithium Two Project has commenced.
- The program is financed by Mineral Resources Ltd. (MRL), the world's fifth largest lithium producer, as

per the agreement between NAM and MRL that was the subject of a September 28 press release.

- NAM has also contracted geological consultancy, Axiom Exploration to manage the drill program on behalf of the Company, and Manitoba-based Rodren Drilling to complete the work.
- Lithium Two hosts a historic non-NI 43-101 compliant mineral resource of 544,000 tonnes at 1.4 per cent Li2O to a depth of 60 metres (Source: Manitoba Mineral Index Cards). *This amount has not been confirmed by a qualified person at this time.
- The Eagle Pegmatite is the primary

target for the maiden drill program. It is exposed on surface and was last drilled in 1948.

- Surface sampling programs at the Eagle Pegmatite conducted by NAM has yielded assays up to 3.8 per cent Li2O.
- NAM has an active exploration agreement with the Sagkeeng First Nation and will be working in partnership with members of Sagkeeng.
- NAM is the largest mineral claim holder in the Winnipeg River Pegmatite Field. All of the claims are held by Lithium Canada Development, a wholly owned subsidiary of NAM.



Harry Barr, chairman and CEO commented, "This maiden drill program in Manitoba is a significant milestone for the company. We have fulfilled our stated objectives for the lithium division to date by acquiring a robust land package in southeast Manitoba, and recently completing our option / joint venture agreement with Mineral Resources. Our agreement equips us with the necessary funding and expertise to strategically explore and develop the greenstone belt that we are operating in. The preparation for this program has been extensive and has included various rounds of surface exploration as well as UAV borne drone geophysics."

Southeast Manitoba regional project map, including New Age Metals lithium project portfolio. The Lithium Two Project is located approximately 20 kilometres north of the Tanco Mine.

The purpose of the maiden drill program is to first confirm the historical resource that was identified at the Eagle Pegmatite on the Lithium Two Project in 1948.

Lithium Two Project

The Lithium Two Project covers 137 hectares and is located approximately 20 kilometres north of the Tanco Mine that is owned and operated by Sinomine Rare Metals Co. Lithium Two is geologically situated in the Cat Lake portion of the Winnipeg River Pegmatite Field and is road accessible. This pegmatite field is hosted in the Archean age Bird River Greenstone Belt and into the surrounding granites. To date, three pegmatites have been identified on the Lithium Two Project.

The Eagle pegmatite is exposed at surface as a series of lenticular spodumene-bearing dykes, over approximately 823 metres with widths up to 30 metres. The Eagle Pegmatite has a general strike of 77° and a near vertical dip. The FD No. 5 Pegmatite is surface exposed over an area of 27 and 15 metres and is poorly exposed away from the main showing. The unit strikes at 80° with a near vertical dip to the north. The FD No. 5 Pegmatite appears to have not been previously drill tested. Surface sampling over the two pegmatites during the 2016 field season yielded assays for the Eagle Pegmatite up to 2.44 per cent Li₂O and assays up to 3.04 per cent Li₂O for the FD No. 5 Pegmatite.

Drill Plan

The purpose of the maiden drill program is to first confirm the historical resource that was identified at the Eagle Pegmatite on the Lithium Two Project in 1948. An initial eight holes are planned to be drilled to the 200-metre level. The Company is permitted to drill additional holes should preliminary results justify doing so.

In advance of the drill program, an archaeological assessment has been completed by White Spruce Archaeology on the Lithium Two Project that has identified three areas of archaeological potential. Drilling activity will occur outside of a 25-metre buffer around the identified areas. All drill trails will stay outside of the identified areas. The recommendations for the Lithium Two Project have been reviewed and agreed by the Archaeological Assessment Services Unit, Historic Resources Branch, Ministry of Sport, Culture and Heritage.

About NAM

New Age Metals is a junior mineral exploration and development company focused on the discovery, exploration, and development of green metal projects in North America. The Company has two divisions; a Platinum Group Metals (PGM) division and a Lithium / Rare Element division.

The PGM Division includes the 100 per cent owned, multi-million-ounce, district scale River Valley Project, one of North America's largest undeveloped Platinum Group Metals projects, situated 100 kilometres northeast from Sudbury, Ontario. The Company completed a positive preliminary economic assessment on the project in 2019 and is fully financed to complete a pre-feasibility study on the Project. A technical report is slated to be published by the end of the first half of 2022. In addition to River Valley, the Company is the 100 per cent owner of the Genesis PGM-Cu-Ni Project.

NAM's Lithium Division is one of the largest mineral claim holders in the Winnipeg River Pegmatite Field, where

the Company is exploring for hard rock lithium and various rare elements such as tantalum and rubidium. In 2021, drone geophysics were completed on at least five of the Company's seven projects and in October a maiden drill program on the Company's Lithium Two Project was initiated. On September 28, the Company announced a partnership with Mineral Resource Limited (MRL, ASX: MIN), the world's fifth largest lithium producer to explore and develop the Company's lithium project portfolio.

Our philosophy is to be a project generator with the objective of optioning our projects to major and junior mining companies to potentially develop them through to production. The Company is actively seeking an option / joint venture partner for its road-accessible Genesis PGM-Cu-Ni Project in Alaska.

About Lithium Resources Limited

Mineral Resources Limited is an innovative and leading mining services company, with a growing world-class portfolio of mining operations across multiple commodities, including iron ore and lithium. MRL has a diversified commodities portfolio located in the Pilbara and Yilgarn regions in Western Australia. The Company has developed two hard rock lithium operations in Western Australia making them one of the worlds largest owners of hard rock lithium mines.

Investors are invited to visit the New Age Metals website at www.newagemetals.com where they can review the company and its corporate activities. Any questions or comments can be directed to info@newagemetals.com, Harry Barr at Hbarr@newagemetals.com, or Cody Hunt at Codyh@newagemetals.com, or you can call (613) 659-2773. ✕

WOLFDEN ADVANCES ITS TWO HIGH-QUALITY NICKEL SULPHIDE DEPOSITS IN MANITOBA

Wolfden Resources Corporation (TSX:WLF) is a Canadian exploration and development company with a proven management team and a successful track record in exploration, mine development, and mine finance. The Company has placed a higher priority in 2021 and 2022 to explore and expand its high-quality Rice Island and Nickel Island Ni-Cu-Co-PGE deposits in Manitoba.

Rice Island Project

The 100-per cent-owned Rice Island property is situated 10 kilometres SSE of the Town of Snow Lake in west central Manitoba, within the Snow Lake-Flin Flon greenstone belt. The property is host to the Rice Island Ni-Cu-Co deposit containing approximately 7.7 Mt at one per cent NiEq that includes Cu, Co and PGEs that is situated only five kilometres SE of the Hudbay Stall Lake Mill Complex.

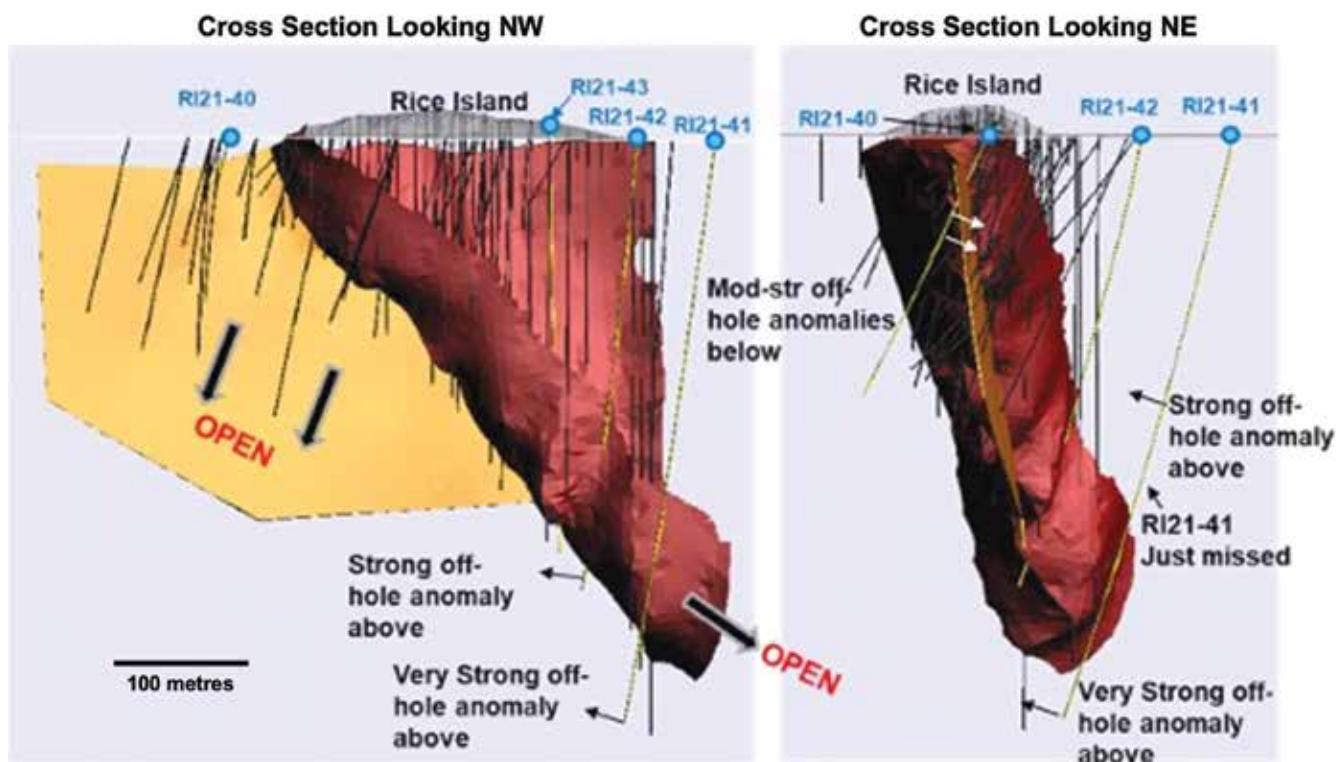
The Rice Island magmatic Ni-Cu-Co deposit was initially explored by Inco Ltd. between 1948 and 1996 with Wolfden completing drill programs from 2015 to 2021. The 2021 drill program was funded in part with the support of a \$230,000 grant from the Manitoba Government Mineral Development Fund. This work delineated a U-shaped keel and feeder style

Ni-Cu-Co deposit over a strike length of 340 metres that plunges steeply to a current vertical depth of approximately 500 metres where it remains open below. The Keel Zone comprises of massive to semi-massive to blebby style pyrrhotite, pentlandite and chalcopyrite that forms a keel along the base of a plunging gabbroic intrusion hosted in sediments. Prominent intercepts include 10.3 metres of 2.63 per cent Ni, 0.98 per cent Cu, 10.1 metres of 2.39 per cent Ni, 1.24 per cent Cu, 5.2 metres of 4.31 per cent Ni, 1.28 per cent Cu and 6.0 metres of 3.20 per cent Ni, 1.23 per cent Cu.

The Keel and Feeder zones are likely components of a larger magmatic mineralizing system and bodes well for the potential to expand and discover additional Ni-Cu-Co deposits on the property. Wolfden intends complete an initial mineral resource estimate and geophysical survey in Q4 followed by a drill program in Q1 2022 that will include new targets on the property.

Nickel Island Project

Wolfden's wholly owned Nickel Island property is located 10 kilometres west of the community of Garden Hill in the Island Lake area of east-central Manitoba. Wolfden has signed an

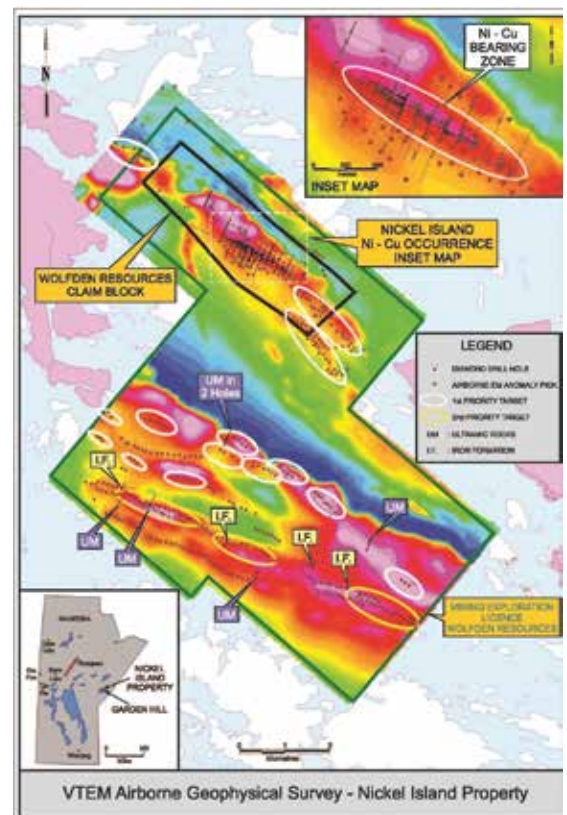


MOU with the Island Lake Tribal Council involving the nearby communities of St. Theresa Point, Garden Hill, Wasagamack and Red Sucker Lake First Nations. The spirit of the MOU is to form a joint venture exploration company in order to explore within their traditional territory and ancestral First Nation lands.

The property hosts a Kambalda type nickel-copper deposit, discovered by Inco Ltd. in 1950s of approximately 7Mt at 1 per cent Ni and lessor Cu1. The historic drill intercepts include 4.3 metres of 4.33 per cent Ni and 21.3 metres of 1.18 per cent Ni, with the deposit having a strike length over one kilometre and extending to a depth of 400 metres. The stringer and net-textured Ni-Cu sulphide mineralization occurs within spinifex-textured ultramafic flows and intrusions and remains open along strike and to depth. Kambalda-type deposits are often electromagnetic conductors and are characterized by high nickel grades (two to four per cent Ni). These deposits tend to occur in clusters in channel shaped troughs near the base of ultramafic flows and/or intrusions.

Wolfden plans to complete an initial resource estimate by Q1 2022 and carry out a winter drill program to demonstrate the exploration process to the local communities. If successful, the program could go on to test for extensions of the deposit and to test a series of electromagnetic conductors that occur along strike of the known zone. Based on the Kambalda-type model, the Company would be testing for conductive zones that could host high-grade nickel mineralization.

The ultramafic rocks with potential to host additional nickel mineralization extends for 50 kilometres along strike to the southeast. As a result, it is believed that the scope of this joint venture will expand over time as exploration progresses down the length of this high potential geological target area. ✕



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THE FUTURE OF GLOVES IN THE MINING INDUSTRY



The COVID-19 pandemic has forced leaders across every market sector to refine their strategic objectives, modify their execution plans and rethink their priorities. The mining sector is no exception. The pandemic has also reinforced the critical importance of worker safety. Who would have thought two years ago that PPE would become a household term? At the same time, a recent wave of natural disasters with a high-potential link to climate change is reminding the world that there might be a climate crisis that demands our urgent attention. Both of these issues have huge implications for the mining sector.

Sustainable PPE sits where worker safety and increased demand for sustainable materials intersect. The industrial glove industry is leading the charge with innovative technologies that offer recycled content and materials with enhanced biodegradability to both reduce landfill waste and create biofuel that can be harnessed for clean energy production. These emerging technologies provide an opportunity to turn PPE purchases into sustainability wins.

Post-consumer recycled content

In the United States and Canada, 53 billion empty water bottles are thrown

away each year. For perspective, that's enough wasted water bottles to completely cover the city of Los Angeles, California every year. Polyethylene terephthalate (PET) is the preferred material for bottled water production and is highly recyclable. Watson Gloves and other reputable suppliers are leveraging the recyclability of PET water bottles to make work gloves. As an example, Watson's technology platform, WasteNot™, takes recycled plastic water bottles, breaks them down into small pellets, which are then melted down, and extruded into yarn. The result is 100-per cent post-consumer recycled content yarn made from wasted water bottles. The amount of Wastenot™ yarn used to make one pair of seamless knit gloves is equivalent to one 500-millilitre bottle and the equivalent to one to three plastic bottles are used in the fabric to make performance gloves. Utilizing recycled PET bottles for glove production prevents landfilling, reduces soil contamination and air and water pollution all while requiring less energy for production than virgin polyester.

Enhanced biodegradability

There has been a lot of media coverage around disposable nitrile gloves as essential PPE for COVID-19 response. It is estimated that pandemic response

has generated a 45-per cent spike in demand representing increased consumption of almost 140 billion single-use gloves. Most of these gloves will eventually make their way into a landfill where they will degrade over hundreds of years. A typical nitrile glove will take 200 years to decompose in a landfill.

New technologies provide accelerated biodegradation of nitrile gloves. One example, the Reclaim™ technology platform developed by Watson Gloves is an additive to the nitrile compound used in the production of single-use gloves. The degradation technology only activates once the glove is exposed to landfill conditions (combined high heat, high moisture, no light and limited oxygen). The result is nitrile gloves that will degrade in less than 12 years (ASTM-D5526) – all without any loss in glove performance. Further, these gloves release CH₄ (methane) gas when decomposing that can be reclaimed as a source for clean inexpensive energy. Most modern landfills capture methane and other greenhouse gases and either burn the gas or use the gas to create energy. We now have a new circular economy for nitrile glove waste. Gloves are worn and disposed at point of use, collected and transported to municipal landfills that are designed to capture

The degradation technology only activates once the glove is exposed to landfill conditions (combined high heat, high moisture, no light and limited oxygen).

off gassing of methane as that trash decomposes; ultimately, that methane gas is used to generate clean energy that powers our homes, businesses and communities. Reclaim™ additive technology is now being applied to both the yarn and the palm coating to produce fully biodegradable seamless knit gloves. These technologies are just the start of a new category of PPE offerings with sustainability benefits.

For more information on these technologies and our portfolio sustainable gloves please visit www.watsongloves.com. Going forward, the combination of increasing sustainability commitments by companies and available advancing technology means that we can expect sustainable PPE will be a longstanding industry trend. ✕

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WE NEED MINING, MINING NEEDS YOU

By Alex Parsons, MiHR



To build a safer, greener and more connected world, we need mining. And mining needs you.

The Mining Industry Human Resources Council (MiHR) launched the National Youth Mining Career Awareness Strategy 2021-2026: Transformation, Innovation and Diversity following a two-year study on the context, challenges and solutions for attracting youth to the industry. The National Strategy includes engaging with youth, building career awareness among young job seekers and producing high-quality research to assist with evidence-based program development.

"With growth in the sector, looming retirements and an already tight labour market, the industry will be challenged to attract and develop an anticipated need of over 100,000 new workers over the next decade," said MiHR's executive director Ryan Montpellier. "Significant effort is required to raise awareness of mining careers among youth and other under-represented groups to secure the labour supply required to meet industry demand given forecasted labour shortages. In

support of the federal government's Canadian Minerals and Metals Plan (CMMP), the National Strategy aims to attract and develop highly qualified personnel to the mining industry."

To realize its goals, the National Strategy operates based on five key directions – requiring collaboration among industry stakeholders:

1. Increasing youth engagement

– Engage youth and key stakeholders in the conception and implementation of mining career awareness initiatives.

2. Transforming perceptions –

Transform youth perceptions of the mining sector and mining sector careers.

3. Reaching younger students –

Integrate mining sector and mining career awareness into public education curricula and classrooms at the elementary, intermediate and secondary levels.

4. Building alliances between industry and education – Foster innovative industry and post-

secondary education partnerships to attract and prepare youth for careers in the mining sector.

5. Promoting diversity in

the workforce – Diversify the mining workforce by engaging with youth from underrepresented groups.

Stemming from the National Strategy, MiHR recently launched a new career awareness campaign: We Need Mining, Mining Needs You. Prominent on www.MiningNeedsYou.ca and MiHR's social media platforms, the campaign features several useful resources and tools highlighting mining as an innovative, challenging and rewarding career choice.

The website showcases some of the green technology, medical tools and entertainment devices that depend on minerals and metals. It explores the reality of modern mining and how its use of innovation, approach to environmental sustainability, enhanced safety measures and diversity in the workforce make the industry an increasingly dynamic sector. There

is also a general knowledge quiz providing insight into the common misconceptions about mining and an interactive job pathway tool allows users to discover different entry-level occupations divided by category and see where these careers may lead. A suite of career profiles that provide in-depth information about common mining positions are linked to the pathway and can also be viewed separately.

Canada's mining industry needs to attract more workers to fill growing and vacant occupations. Younger students approaching or graduating from post-secondary school are prime candidates, as their tech-savviness, ambition and variety of skills and qualifications fit well into the mining sector. Many young workers also have skills in other industries that are highly transferrable to mining. With over 120 occupations available, there is a place in mining for everyone.

According to MiHR's Mining Year in Review: National Outlook 2021 report, there is an anticipated drought in mining-related engineering. Mining, geological and material and metallurgical engineering are the three most relevant post-secondary engineering programs to the mining industry, yet they experienced the lowest undergraduate enrolment among all engineering programs and enrolment in mining related engineering programs contracted by over 25 per cent in Canada from 2015 to 2019. Additionally, it shows youth are less likely to choose mining as a career – the minerals and metals sector ranked as the least desired sector in a 2020 survey of 3,000 Canadians aged 15 to 30. Along with increased career awareness, the mining sector is also in dire need of young workers.

To help remedy this, MiHR's Gearing


Up wage subsidy program has helped over 1,200 Canadian post-secondary students gain mining experience since 2018. Funded in part by the Government of Canada's Student Work Placement Program, Gearing Up offers a wage subsidy up to \$7,500 to employers who create work placements.

MiHR also relaunched its Green Jobs program in summer 2021 in support of the National Strategy. Another wage subsidy program – funded by the Government of Canada's Science and Technology Internship Program – Green Jobs enables mining companies to hire job-ready youth who gain work experience in the sector through paid placements or training opportunities that focus on clean technology and innovation. Participating employers are compensated 80 per cent of each intern's compensation to a maximum of \$25,000 for job-ready youth and \$32,000 for youth furthest from employment (Indigenous youth, youth in northern regions, rural and remote communities and youth with disabilities). Its current objective is to provide 25 placements by March 31, 2022.

MiHR is also developing a career ambassador program to help connect industry speakers with classrooms and youth community groups across the country as well as mining career curriculum that can be used by teachers to help dispel myths and portray the modern mining industry.

"By choosing a career in mining, youth can help Canada become the world's leading mining nation – setting a global example for environmental sustainability, social responsibility and technological innovation," said Montpellier. "Through implementation of the new National Strategy, youth in Canada will become more aware that mining is essential to our way of life today and to the world we want to create tomorrow; Gearing Up and Green Jobs helps them find their way in from the ground up."

Industry stakeholders are urged to collaborate on National Strategy objectives and take advantage of the wage subsidy programs. Together, we will build an inclusive, skilled and sustainable Canadian mining workforce that anticipates and adapts to volatility and innovation. ✖



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VALE'S THOMPSON MINE RECEIVES \$150-MILLION INVESTMENT



Exciting things are occurring at the Thompson Mine, including a two-phase expansion.

Gary Annett, head of Manitoba operations at Vale, says the company is one of the leading producers of iron ore and nickel in the world. A senior company, Vale (formerly INCO) has been in Thompson since the late 1950s, developing mines in the early 1960s and remains committed to the future of its operations in Thompson.

On June 29, Vale announced a \$150-million investment to extend current mining activities in Thompson by about 10 years.

"The aggressive exploration drilling underway to further define known orebodies and search for new mineralization holds forth the promise of mining activity well into the 2040s," Annett says.

The Thompson Mine expansion is occurring in two phases, and the investment announced in late June represented Phase 1, which includes critical infrastructure such as new ventilation raises and fans, increased backfill capacity and additional power distribution.

Annett says the project is now a 'fit-for-purpose' plan that has instilled the confidence necessary to attract funding for much-needed infrastructure. This includes twin 10-foot fresh air raises from the 3,600-foot level of the mine to surface. The ventilation raises will run side by side, with air delivered from the first in a 12-month window and air from the second in 24 months. It includes expanded underground ventilation distribution and booster fan installations.

It includes enhanced backfill capacity in the form of a new sandfill plant;

increased power distribution in the form of a new powerline from T1 to the 378 site, with expanded underground distribution via the 378 shaft; and associated infrastructure like an expanded underground garage.

"With Phase 1, we're delivering a 30 per cent increase in current production and removing bottlenecks," Annett says.

"I want to acknowledge that the last few years have not been easy for our Thompson operations, and COVID has made it even more challenging as we confronted and engaged an ambitious transformation to increase safety, lower costs and improve productivity," he adds. "The level of exploration drilling underway has never been greater. We are working to identify and add new tons to our Phase 2 business case."

Vale's focus on improving safety and productivity and managing its liabilities over the past 12 to 18 months has resulted in having the confidence to invest in Manitoba. Annett says they will continue to prioritize health and safety and working with their community partners as they start this next exciting phase of Vale in Manitoba.

"This investment is a testament to the patience, fortitude and professionalism of the entire Thompson workforce and the entire Thompson community. And I am thrilled to be a part of it," Annett says. ✖

"The aggressive exploration drilling underway to further define known orebodies and search for new mineralization holds forth the promise of mining activity well into the 2040s," Annett says.

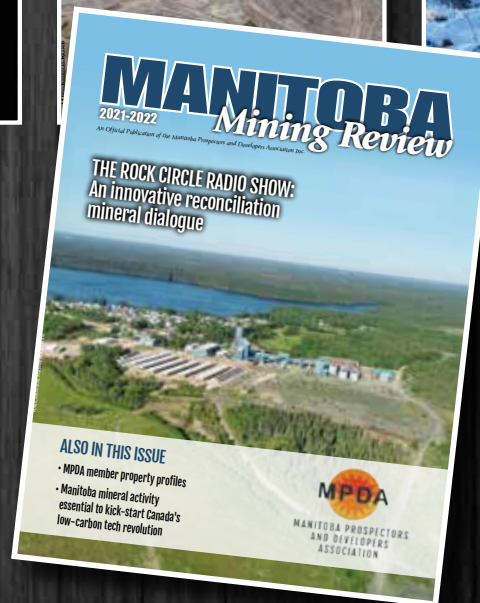
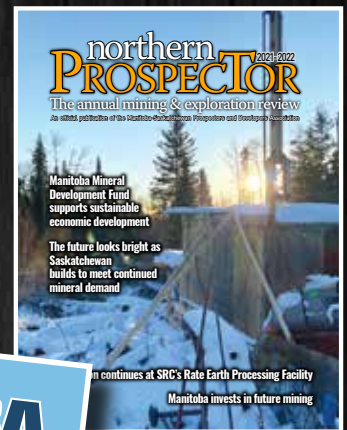
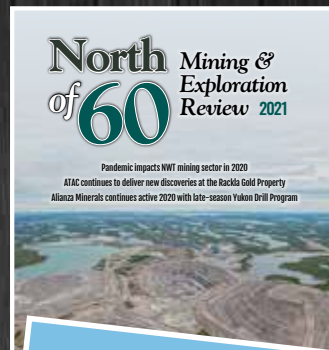
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NORTH STAR AIR: MOVING YOUR CARGO IN 2022 (IT'S WHAT WE DO!)

North Star Air's C-FN1J in Thompson, Manitoba.

I'm sure we can all agree that the past 20 months have been like no other time in our lives. While we are still not out of the woods completely, with the fourth wave of the COVID-19 virus spreading across Canada, you may ask yourself: How will this affect you? How will this affect your employees, your business and, ultimately, Canada's economy? When will the COVID-19 virus be completely eradicated so that Canadians can continue with their

normal lives and normal business? Or will we ever be back to "normal"? North Star Air has answers that will help you and your business move forward in 2022.

In early 2020 and with air travel restrictions in place in response to the spread of COVID-19 within Canada, North Star Air saw a steep decline in passenger air travel. In "normal" times, our airport check-in counters

at both passenger hubs, Thunder Bay and Sioux Lookout, saw thousands of passengers board our aircraft destined for the North with their groceries, household items and essential basics in hand.

But due to the halt on passenger travel, many citizens in remote communities came to rely on the use of air cargo travel to ensure their essentials like food and clothing get to their



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communities. North Star Air's cargo output grew extensively due to this increase in demand. We began to see the effects of the passenger and community travel restrictions in May of 2020 which led to a plus-20 per cent increase in cargo volume by the end of the year. This volume increase continued into 2021 and we are currently on track to deliver in excess of 70 million pounds of cargo by the end of this year.

Always looking at new and improved ways to move large freight by air, and also striving to keep up with customer demand, North Star Air is adding an additional ATR 72-500 with a large cargo door modification, which is planned to enter service before the end of 2021.

"We are increasing the aircraft's door size to almost double the current width

and height to accommodate over-sized cargo much more efficiently," says director of cargo David Thomas. "With the addition of rollers on the aircraft floor, these modifications will be a game-changer for our cargo customers who require transporting extra-large pieces of equipment and supplies to their work sites."

The large cargo door (LCD) modification increases the cargo door size from 50" by 60" to 116" by 71", greatly increasing the variety of large and oversized pieces able to fit in the aircraft. The roller floor will be capable of carrying industry standard 108" by 88" cookie sheets, enabling quicker turnarounds and improved efficiency.

The ATR-72 is recognized as the most cost-effective regional aircraft in the industry. North Star Air is the first airline to operate the new 500 series

ATR-72 in Canada. The aircraft's short, gravel field performance is unmatched in its category. The ATR-72 aircraft is based in Thompson Manitoba; however the aircraft is available for charter throughout Canada and North America. This regional workhorse can transport up to 18,000 lbs of cargo (or up to 9,000 litres of bulk fuel) in 2,666 cubic feet. The ATR is also capable of landing on ice strips. With the addition of the large cargo door aircraft, NSA will have four ATR 72-500 freighters, complimenting it's efficient short-range fleet of three Basler BT-67s.

If your large or small cargo absolutely, positively needs to get to your remote location, North Star Air provides reliable, safe and affordable air transport. Call us today and let's work together on solutions for your cargo delivery needs! ✖

Logistical challenges?



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ONE MEGAWATT

Adria Power Systems ® is based in Rouyn-Noranda in northern Québec. We have been designing, engineering, and building electrical equipment for the mining industry, focused mostly on power equipment, for more than 25 years. This includes equipment such as substations, distribution centres, and switchgears. Our products are used predominantly in underground mines, but we also supply solutions for surface mines and other industries and applications.

Challenges of the mining environment

One constant challenge is that every mine site is different. They all have their specific needs and configurations, so if we have equipment that goes to another country, it will be different than what we have for a mine in Canada. Even in Québec, two mines across the street from each other would typically have very different configurations.

The second challenge is that the environment underground is very harsh, so all the equipment needs to be robust and reliable enough to be able to survive in harsh environments. There is a lot of humidity, dust, and severe vibration, so the equipment is under constant stress. There is heavy duty and then there is mining duty. These challenges are what built our expertise.

The electric mine: past, present, and future

We have been involved with electric mines since 2012 because we were the first company in the world who built a mining duty charger for lithium-ion battery-powered machines. It all started at Kirkland Lake Gold's mine site, where they had a specific need in which they could not use diesel for a machine and needed it to be zero emissions. From there, we had the opportunity to join a team of two dynamic companies to make things happen. As time went on, some mining companies took an interest in our work, while others were still waiting to see what would happen. Customers would acknowledge that electrification can be good for certain types of projects, but not as appropriate for others.

Today, this speech is starting to change, because most of the projects are considering electrification from the get-go because of a variety of factors. Elements like the environment and health and safety are very influential, but the economics have shifted, as well as the technology has evolved, and performance has improved. Battery chemistries are evolving as well to deliver better performance at a lower cost. We see this completely replacing diesel in the coming years, as

the industry is shifting very fast compared to the adoption of other technologies. There are also incentives from the governments which further expedite change in the industry. In the next 15 years, we would not be surprised that there is zero diesel in any mines.

Upcoming challenges for the electric mine

Since we started to work with charging systems for mining machinery, we ended up developing a new charging infrastructure that offers very good performance with good quality signal. A lot of testing has been done in the last couple of years in the industry, but some of the chargers currently available in the market generate a lot of harmonics and perturbation on the infrastructure of the customer. If we talk about only one charger in the mine infrastructure, the problem is barely noticeable, but if you scale that up to 50 to 100 units or more, then all these harmonics add up to create reliability issues, as well as a higher cost of power consumption. The new system that we are bringing offers strong performance, robustness, good efficiency, and a clean signal.

One megawatt

We had the opportunity to participate in a very exciting collaboration project with a group of very competent partners. The group include the Innovative Vehicle Institute (IVI), Propulsion Québec, the National Research Council of Canada (NRC), Fournier et fils inc., Dana TM4, and Nouveau Monde Graphite. The goal was to take a Western Star surface truck and make it battery operated. Our role in this project is to supply the charging infrastructure. It is a one-megawatt charger that we will be supplying, which is a bit bigger than originally planned (800kW), and a lot bigger than necessary for the application. However, since our platform is easily scalable, it was an opportunity for us to build at a higher power level to do some testing as well.

Our new charging platform is a bi-directional system with multiple bridgeable outputs, powered directly to the customer medium voltage grid. Each output can accommodate a different set of protocols to communicate with various batteries and different OEM. The charging station features a state-of-the-art user interface that will allow user-friendly use and status reporting. This is a first in the mining industry, and it will be put to the test in collaboration with Nouveau Monde Graphite. It will be one of the most advanced mining duty charging systems available on the market, suitable for surface and underground use. ✖

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GOSSAN RESOURCES: A MANITOBA STORY



The history of Gossan goes back to the year 1980. A local Manitoban friend convinced James W. Campbell to start a business in Winnipeg. The friends ventured into the exciting opportunities of resource exploration and development in Manitoba.

In the two decades that followed, Gossan acquired, invested, explored, and traded in and out of numerous properties. Always investing in the province and hoping it would lead the team to an exciting discovery.

A discovery came in the early 1990s when Gossan drilled the known Pipestone Deposit near Cross Lake, MB. A large, open pit resource holding rich vanadium and titanium ores was defined. The news brought national and even international acclaim to Gossan and to the province. Large multinational corporations expressed interest in developing the property.

Unfortunately, the excitement over the project far outpaced the reality on the ground. Gossan needed more time to advance the regulatory issues and address the social license with the

Cross Lake First Nation. And in the year 1998, when the capital markets dried up, large industrial companies were no longer interested in the project.

Today, Gossan has a partnership with the Cross Lake First Nation on a first-of-its-kind deal. Gossan the Cross Lake First Nation agreed to jointly develop the project on a 50-50 equal ownership basis. Gossan believes that this project will be best jointly developed if in partnership with the Cross Lake First Nation and continues to explore development opportunities for Pipestone.

Gossan continued to look for opportunities in Manitoba. Over time, Gossan was able to acquire more properties and royalties on prospective Manitoban mining areas. At the Bird River Sill, Gossan explored for and discovered significant amounts of nickel and platinum group metals. These elements are critical for the development and rollout of carbon-neutral technologies. The entire Bird River Sill camp is a fantastic development opportunity for Manitoba

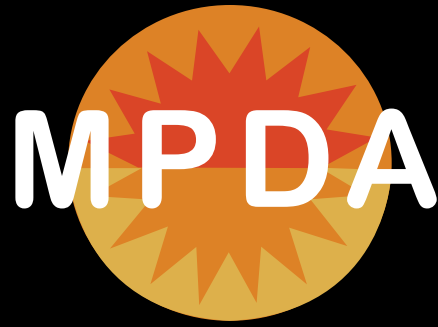
and, it will require the cooperation of the companies with resources in the area.

Gossan was also successful in defining a high-quality silica sand resource in the outskirts of Manigotagan, Manitoba. Gossan was able to sell the property to an excellent management team with deep connections to the energy sector in Alberta. Gossan retained a per-ton royalty on the deposit and maintains excellent relationships with the new owners.

North of Winnipeg, in the outskirts of Inwood, Manitoba, Gossan is advancing the resource definition for a high purity dolomite and magnesium deposit. Preliminary results suggest that the high magnesium content of the dolomite could make this mineral highly desirable for specialty industrial uses. Gossan is exploring commercialization opportunities in Canada and abroad for this special Manitoba product.

Gossan is proud of its Manitoba heritage. Gossan maintains deep academic, business, and political connections in the province through its contractors, directors, and advisors. Gossan also works with Manitoba service providers almost exclusively in a continued effort to support the local exploration and extraction industries.

Gossan's most immediate opportunity is in Ontario. This winter, Gossan will be drilling its Glitter property. However, the Manitoba presence will be strongly felt. Gossan's site personnel, as well as its drilling contractors, will be coming from Manitoba. Gossan hopes for great success in Ontario but remains conscious of its deep ties to its home in Manitoba. ✕



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A person wearing a backpack and winter gear is walking away from the camera through a snowy, mountainous landscape. The scene is hazy and blue-toned, suggesting a cold, high-altitude environment. The person is in the lower-left foreground, and the background shows distant, snow-covered peaks.

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After nearly a century, the story of Hudbay's commitment to Manitoba continues.

Hudbay has been operating in Manitoba since 1927 – our roots are here. And while that history is impressive, it's the future that we're really excited about. Our commitment to this province has been strengthened with a number of new developments:

- In July 2021, we commenced start up and commissioning of the refurbished New Britannia mill
- A month later, we achieved our first gold pour at the mill – ahead of schedule
- This is an important part of our transition to Snow Lake as our primary operations in Manitoba
- Our new copper flotation facility at New Britannia will only further enhance copper and gold recoveries
- As a result, we're projecting an increase to 180,000 ounces of annual gold production over the next six years



Hudbay's history is intertwined with Manitoba's.
So, here's to another 90 years.

HUDBAY