

# Northern Mining News

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## From the Executive Director ...

Very encouraging to see northern focused comments in Dominion's release. Ekati has generated enormous benefits for the North and promises to continue to do so. As well, we're all for Patrick Evan's approach, to "relentlessly" realize potential of the company's world-class assets, including the Jay orebody and "reinvigorating" exploration.

Congratulations to Baffinland for completing the largest ever shipping program in Canada's High Arctic. Congrats also to Deton'Cho and De Beers; partnering on care and maintenance at Snap Lake Mine. Great work by all involved with the Mining Matters field trip to Ranney Hill with our future explorers.

Looking ahead, the Geoscience Forum is Nov 14-16. And get your tickets for the first ever NWT MAX Awards celebrating mining and exploration. Your co-hosts, GNWT and the Chamber, are excited to see you there November 16! **Happy reading! ... Editor**

***Our Mission:*** To provide leadership on, and advocate for, responsible and sustainable mineral exploration and development in the NWT and Nunavut.

## **Washington acquisition of Dominion Diamond complete**

The purchase of Dominion Diamond Corporation by Washington Companies has been completed, the companies announced November 1.

Washington is a group of privately held North American mining, industrial and transportation businesses founded by industrialist and entrepreneur Dennis R. Washington. In the cash deal, Northwest Acquisitions ULC, a Washington entity, acquired all Dominion shares for US\$14.25 per share. Dominion will operate as a standalone, private company.

Patrick Evans has been appointed Chief Executive Officer, effective immediately. The Dominion board of directors has been reconstituted with new directors who possess a mix of relevant business and mining expertise, including Rolin Erickson, President of Montana Resources, a copper and molybdenum mine owned by Washington.

"I am pleased to join Dominion Diamond at this exciting time for the company. I will work relentlessly with management and our talented employees to help realize the long-term potential of Dominion's world-class assets, specifically by extending the life of the Ekati mine, investing to develop the Jay Project and reinvigorating our exploration program," said Patrick Evans, CEO of Dominion. "I have long admired Dominion Diamond's deep ties to the Northwest Territories and Nunavut and to Yellowknife in particular, and I look forward to continuing that legacy with the full support and resources of The Washington Companies," he added.

"This is an exciting day for Dominion Diamond and The Washington Companies," said Lawrence R. Simkins, President of Washington. "We fully support Dominion's existing strategy and its exceptional employees, and we are confident that Dominion will continue to offer long-term benefits to all of the company's stakeholders," he added. "The Washington Companies and Dominion Diamond have proven track records as responsible, innovative operators," said Dennis Washington, Founder of The Washington Companies.

"With today's closing, I am excited to join forces with Dominion as well as with our respected partner at the Diavik mine - Rio Tinto. We look forward to owning and operating Dominion for decades to come, with a focus on maintaining safe and prosperous business operations in the Northwest Territories."

[View release](#)



*Heavy equipment at work at the Ekati Diamond Mine.*

## **Baffinland Iron Mines concludes record-setting shipping season**

This year's Baffinland Iron Mines Corporation open-water shipping program was record setting.

From August 2 to October 17, Baffinland shipped approximately 4.1 million tonnes of iron ore from its Milne Inlet Port to markets in Germany, the United Kingdom, and Japan. Fifty-six panamax vessels were deployed, carrying an average of 72,600 tonnes of iron ore each.

“Our record-setting performance was achieved through the hard work and dedication of our employees,” says Brian Penney, president and chief executive officer of Baffinland. “I also want to thank all of our partners involved in making this program a success, including our shipping partners, ice management experts, the Canadian Coast Guard, and the continued support of the North Baffin communities, in particular, Pond Inlet, and the Qikiqtani Inuit Association.”

World-leading health and safety control systems were deployed during the program and the company adhered to strict environmental standards and regulations. Baffinland also organized sophisticated environmental monitoring practices, combining scientific and traditional Inuit knowledge. No health and safety or environmental incidents occurred during the shipping program.

[View release](#)



*Baffinland's 4.1 million tonnes shipped over 75 days marks the largest shipping program by volume ever executed in the Canadian High Arctic.*

## **Det'on Cho Corp awarded Snap Lake care and maintenance contract**

Det'on Cho Corp, the business development arm of the Yellowknives Dene First Nation (YKDFN), has been awarded the contract for extended care and maintenance at De Beers Canada's Snap Lake Mine. The three-year contract with an option for extension will see Det'on Cho provide ongoing care and maintenance services at Snap Lake, working alongside De Beers Canada staff.

"The Yellowknives Dene and Det'on Cho have been involved at Snap Lake since it opened, and although its closing was unfortunate, we are pleased to be selected as the team responsible for the Care and Maintenance of the site," said Chief Edward Sangris.

"Caring for the land is important to the Yellowknives Dene; care and maintenance of the Snap Lake Mine Site is a natural fit for us. We are happy with the agreed upon plan and look forward to working with De Beers on this project," said Chief Ernest Betsina.

"This is an exciting win for the Det'on Cho team. De Beers has been an exceptional partner throughout production at Snap Lake and we look forward to working with them on this project. This contract adds to Det'on Cho's growing portfolio of care and maintenance projects and positions us well for future mine closure and remediation work across the North," said Paul Gruner, president & CEO of Det'on Cho.

Under terms of the contract, Det'on Cho will provide personnel for site safety, camp support, travel and logistics, environmental monitoring and management services while the mine is in extended care and maintenance.

"This is another example of a tier one contract being awarded to an Indigenous business by De Beers in the Northwest Territories," said Kim Truter, CEO of De Beers Canada. "This will create jobs and new opportunities for the Det'on Cho Corporation and the YKDFN."

De Beers Canada wants to thank the four Snap Lake impact benefit agreement groups that submitted proposals. This is the fourth tier one contract De Beers has awarded in the NWT over the past year as part of a focus on providing long-term benefits to northern and Indigenous companies. Tier one is a 100% Indigenous owned corporation. [View release](#)



*Snap Lake Mine is located 220 km northeast of Yellowknife, NWT. The mine opened in 2008 and was placed on care and maintenance in December 2015. Det'on Cho has been awarded a contract for care and maintenance.*

## **Premier issues red alert and calls for national debate on the NWT's future**

Northwest Territories Premier Bob McLeod is calling for a national debate on the future of the territory.

Policies from Ottawa and southern Canada threaten the NWT's economic potential and the decades long work government has done to address Indigenous reconciliation. Whether it be ill conceived ways of funding social programs, or new and perplexing restrictions on our economic development, our spirit and energy are being sapped, Premier McLeod said.

He added that protecting the North requires national debate and invited Cabinet to visit the Northwest Territories to see first-hand the territory's successes and challenges.

View the Premier's full text [here](#).

### ***Chamber of Mines responds with support***

The Premier of the Northwest Territories, Bob McLeod does not stand alone in issuing his red alert in which he appeals to the Federal Government for an urgent national debate on the future of the Northwest Territories because "the promise of the North is fading and the dreams of northerners are dying as we see a re-emergence of colonialism."

We support the Premier's appeal. The NWT has 85 years of resource production history in both mining and oil and gas, creating significant benefits to Canada. We aren't a colony.

Over the past 21 years, our northern diamond mining industry alone has made nationally significant and progressive strides, including:

- Training to assist over 1,300 Indigenous and northern residents get mining jobs;
- Providing over 26,000 person-years of northern jobs of which 50% are Indigenous;
- Conducting \$13 billion in northern business of which \$5.6 billion is Indigenous business;
- Contributing over \$100 million to Indigenous and northern communities in various benefit agreement payments, scholarships, and donations; and
- Providing resource royalties to Indigenous governments, perhaps the first in Canada to do so.

The Federal Government was elected on a strong mandate for Indigenous reconciliation and creation of middle class, the very goals that our minerals industry is achieving in the north and for Canada. However,

- We have received virtually no acknowledgement of our efforts and needs as we work to create significant new opportunities and benefits for Indigenous and northern communities. Our appeals for regulatory assistance go largely unanswered;
- While Canada once supported northern resource development to help advance the region as an economic part of Canada, a 40 year infrastructure investment gap has left industry on its own, forced to generate its own power, build its own roads, ports and airstrips;
- Compounding that, we see Ottawa announcing a carbon tax that will further burden our development efforts given the northern infrastructure gap Canada has failed to fill;
- We see Ottawa unilaterally apply a moratorium on oil and gas development, creating concerns that mineral development might be next. And with another Ottawa announcement to protect 17% of Canada from development, our concerns mount, as over 30% of the NWT is already off limits to development given Ottawa's lack of

progress on land claims. These policies have been initiated without consultation with northerners;

- Ottawa speaks about creating a new Arctic Policy Framework, but there has been no discussion of how northerners and our industry might be involved in this work. Of great concern, the evidence we provided the Minister’s Special Representative working on this Arctic policy was ignored in her final report, as observed by the Nunavut Premier to media: “The disappointing part about the report is that there are no recommendations on, nor mention of, resource development, a critical part of building healthy and sustainable communities in the Arctic”;
- All of this flies in the face of devolution, the process in which Ottawa supposedly handed control over to the NWT to start standing on its own economic legs. And even that process still sees Ottawa retaining control over resource management legislation, and limiting the GNWT’s ability to collect resource royalties.

As the Premier was quoted in the media, "We need jobs. We need work. You want us to leave the North because we can't work there. You want us to live in a large park. That's essentially what's happened."

As our President, Gary Vivian told the Federal Standing Committee on Finance this fall, “Resource development generates huge benefits for the North and its residents. We’ve seen enormous results and we still have huge untapped mineral wealth in the Northwest Territories and Nunavut. But we cannot do it alone. There is a huge need for the Federal Government to help.

“We stand with Premier McLeod and his Red Alert, calling for Ottawa to support northerners’ economic self-determination with northern involvement in building a strong and viable northern economy,” he added. “That would include using the great northern mineral endowment to sustain the nationally significant benefits that our minerals industry has set in motion over the past eight decades in the NWT and the past two decades in both territories.”

[View release](#)

## **Mountain Province reports Q3 production and diamond sale results**

Mountain Province Diamonds Inc. reports production results for the third quarter ended September 30, 2017 from the Gahcho Kué Diamond Mine, as well as the results of its recently completed eighth diamond sale.

### ***Q3 production highlights***

- Mining of overburden, waste rock and ore in the 5034 open pit for the third quarter was approximately 8.3 million tonnes, with approximately 695,000 tonnes of ore (100 percent basis) stockpiled at period end.
- In the third quarter of 2017, the GK Mine treated approximately 823,000 tonnes of ore through the process plant (14% greater than current forecast) and recovered approximately 1,825,000 carats on a 100% basis (19% greater than current forecast) for an average grade of approximately 2.22 carats per tonne. The Company’s attributable share of third quarter diamond production was approximately 894,000 carats.

### **Q3 production statistics**

“The recovered grade in the third quarter of 2.22 carats per tonne remains substantially above the 1.62 initially projected for 2017,” said David Whittle, interim president and chief executive officer. “Given the continuation of our strong plant performance and favourable grade experience at the GK Mine, we are well on track to meet and exceed our current full-year 2017 production guidance of 2,720,000 tonnes processed and 5,500,000 carats recovered on a 100% basis,” he added.

### **Eighth diamond sale results**

Tonnes processed in the month of September reflects the impact of a planned five-day shutdown in that month for annual maintenance. This shut-down was incorporated in the determination of production guidance for 2017, and was successfully executed as planned.

Price experience in the eighth sale is consistent with that reported by the industry generally and reflects the seasonally slow period in the rough diamond sector around Jewish and Hindu New Years’ holiday periods. Also, like the seventh sale, realized value per carat in the eighth sale reflects the inclusion of significantly fewer fancies and specials than previous sales, as well as a finer size distribution experienced in the summer’s production.

“The October tender sale saw our highest levels of competition to date with an average of 11.8 bids per lot and 145 companies attending. This strong participation reflects continued deepening of Mountain Province’s customer base and interest in our diamond offering,” said Reid Mackie, vice president diamond marketing. “The result is that Mountain Province’s sell through rate is one of the highest among major producers, despite recent market corrections and the traditionally slow lead up to the Diwali holiday period,” he added.

[View release](#)

### **Chamber message to federal government – ‘support northern minerals industry’**

“It is very important that we all work to sustain and grow the northern minerals industry, and the significant benefits it is providing in northern Canada” was a key message that the NWT & Nunavut Chamber of Mines delivered October 5<sup>th</sup> to the Federal Standing Committee on Finance, as part of Canada’s pre-budget consultation. Cumulative benefits from NWT diamond mining alone, includes:

- Over 1,500 trained (almost 6% of NWT’s employed workforce);
- Over 26,000 person-years of northern jobs of which 50% are Indigenous;
- \$13 billion plus in northern business of which \$5.6 billion is Indigenous businesses; and
- \$100 million to communities in various benefit agreement payments, scholarships, and donations

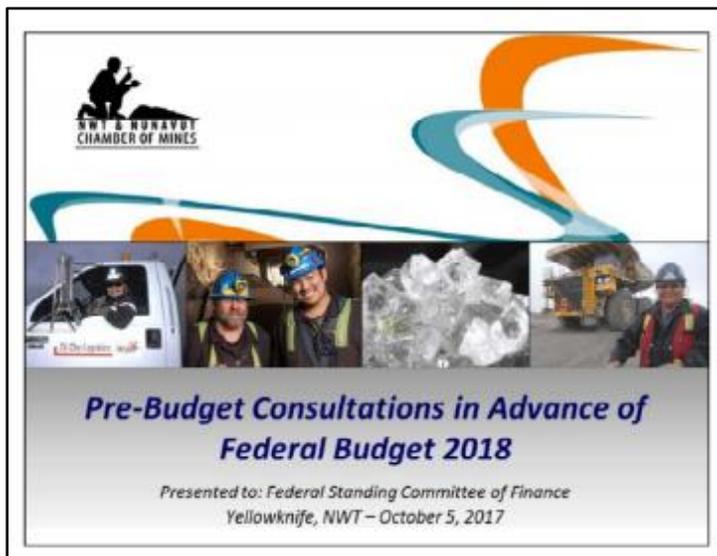
In sharing its priorities with the Committee for the 2018 Federal Budget, the Chamber detailed the following key areas that need Ottawa’s action, including:

- Investing in road and power infrastructure;
- Enhancing mineral exploration;

- Building community capacity;
- Improving the regulatory environment; and
- Creating a new Arctic Policy with northerners.

In the detailed presentation, the Chamber provided specific actions the government should address under each of the key areas.

“Resource development generates huge benefits for the North and its residents. We’ve seen enormous results and we still have huge untapped mineral wealth in the Northwest Territories and Nunavut,” said Chamber of Mines President Gary Vivian. “But we cannot do it alone. There is a huge need for the Federal Government to help. Much, if not all our major power, road and rail infrastructure was supported by Ottawa for resource development over 40 years ago. We need their help to meet today’s needs.”



[View release](#) which includes links to [presentation](#) and [speaking notes](#) and to the three northern Premiers’ *Pan-Territorial Vision for Sustainable Development*.

### **Students and teachers learn *Mining Matters* in the NWT**

At a recent Mining Matters field trip, North Slave teachers and students learned about the importance of rocks, minerals, exploration, mining and careers through hands-on activities.

A team of dynamic educators and role models from Mining Matters, the GNWT and TerraX Minerals delivered professional development workshops and a field trip for teachers, as well as an engaging four-day school program and field trip for students. As so many things we use in our daily lives are made up of minerals found in the Earth, these teacher workshops and student programs are designed to create both awareness and excitement for learning about the geology around us and rewarding career choices.

Participating schools will receive a reusable resource kit that includes useful teaching materials. The focus is to train interested teachers in the North Slave to deliver the Earth science curriculum with confidence. Laura Clinton, Executive Director of Mining Matters, explains, “We want to provide an informative professional development workshop and resources to inspire teachers to explore new ways to bring Earth science to life in the classroom and raise awareness of the vital roles that rocks and minerals play in our daily lives.” The resource kits are tailored to address the science curriculum in Grades 4 and 7, and provide rock and mineral samples, equipment and lesson plans.

The workshops included a presentation by well-known prospector and instructor, Jessica Bjorkman. Teachers joined Ms Bjorkman as she led an interpretive geological field trip on September 30 to the Ranney Hill Trail. The trail was established by prospector Winslow Ranney, who with his brother and the Ranney Hill Gold Company helped uncover the mineral potential of the Yellowknife Gold Belt in the 1930s and 40s.

“Rocks and minerals are the foundation of our modern society. Our partnership with ITI and Mining Matters will help youth understand the important role minerals and geology play in northerners’ lives and expose students to the many enjoyable and fulfilling employment opportunities provided by rocks in the NWT,” said Joe Campbell, chairman and CEO of TerraX Minerals.

One lucky Grade 4 class at Range Lake North School participated in a full four-day hands-on program including a field trip to the Ranney Hill Trail. Students in Mr. Mansfield’s class tested the properties of minerals, learned about the mining cycle and environmental activities in mining, matched career descriptions with education requirements, engaged with industry professionals, made connections between minerals and everyday items, carved soapstone and crafted pendants from polished amethyst and copper.



Teachers from all the school boards in the North Slave are welcome to take part in this unique professional development opportunity. This Mining Matters NWT event was funded via a public private partnership. The GNWT, through Industry Tourism and Investment, the Yellowknife School Board No. 1 and TerraX Minerals Inc. contributed approximately equal amounts.

[View release](#)



## **MAC adds new actions to address climate change**

To further enhance its climate change efforts, the Mining Association of Canada (MAC) and its members have committed to several actions to help in the fight against climate change.

These actions are based on recommendations from the association's Community of Interest (COI) Advisory Panel—an independent, multi-stakeholder group that advises MAC on the Towards Sustainable Mining (TSM) initiative and on issues of mutual interest.

MAC's Principles for Climate Change Policy Design include support for a broad-based price on carbon, one that protects emissions-intensive and trade-exposed sectors, minimizes compliance burden, and is sensitive to regional and geographical circumstances.

"We thank the members of the panel for their thoughtful and constructive recommendations. Thanks to their input, we have a set of actions that will allow us to build on the significant progress that MAC and its members have made over the past two decades to address climate change," said Pierre Gratton, MAC president and CEO. "Operating some of the lowest-emitting mines throughout the world, our members are committed to sustainably producing the minerals, metals and energy products needed for the transition to a low carbon future."

MAC worked in consultation with the panel and experts within its membership to determine how to best incorporate the recommendations. This work has led MAC and its members to commit to actions under the following areas:

- **Towards Sustainable Mining:** Review the TSM program to identify further opportunities to incorporate climate change-related action and guidance; and encourage performance improvement in GHG reductions.
- **Operations Level:** Seek opportunities to expand the use of low emissions technologies; advocate for government investment in mining innovation to expedite progress; conduct climate change risk assessments; and implement appropriate adaptation measures.
- **Local and Indigenous Communities:** Explore ways to assist communities in increasing access to and managing renewable energy technologies; and support community development of energy efficient, healthy and local sustainable food supplies.
- **Supply Chains:** Encourage the mining supply chain to develop innovative and low energy technologies; communicate the role of mining products in the transition to a low carbon future; assess opportunities for the industry to work with others to recycle products containing minerals and metals.
- **Public Policy Engagement:** Share MAC members' innovative initiatives related to climate change, energy and community development; enhance Canadians' understanding of the link between minerals, metals and energy products in low carbon solutions; advocate for public policies that lead to an effective price on carbon and stimulate demand for low carbon infrastructure; work alongside other organizations to achieve common goals.
- **Disclosure of Climate Risks and Opportunities:** Continue to disclose climate-change related information, including GHG emissions data; identify ways to further enhance data disclosure.

[View release](#)

## **De Beers Canada receives awards for Gahcho Kué mine IT infrastructure design**

De Beers Canada has received two major international awards, with the Critical Business Systems (CBS) team being recognized for its work in designing Gahcho Kué Mine information technology infrastructure.

The team won the North American and Global Architecture Excellence awards in the category of IT Infrastructure. At the same event, David Heppenstall, Chief Information Officer for De Beers Group of Companies, received the Business CIO Award while John Cooper received the award for Chief IT Architect.

“These awards are the result of innovation and forward thinking found at all levels inside De Beers Canada as we prepared to open the world’s largest new diamond mine with Gahcho Kué,” said Kim Truter, De Beers Canada CEO.

De Beers Canada Critical Systems Manager Alex MacKay said his team was proud to play a key role in development of the remotely located Gahcho Kué Mine, the company’s third in Canada.

“This is significant recognition for the work by our team to design the computer and data network needed to support Gahcho Kué Mine, which is located on the tundra of Canada’s Northwest Territories hundreds of kilometres from the nearest infrastructure,” said MacKay. “The IT infrastructure at the mine has to be robust and reliable to withstand extreme Arctic conditions and provide an effective two-way data and voice connection with our operational support centre in Calgary and rest of the company

Gahcho Kué Mine began commercial production in March 2017 following two years of construction. The latest milestone is completion of a tower that will link the mine to the microwave network connecting the other NWT diamond mines to the Northwestel voice and data network and installation of a fibre optic cable connecting various areas of the mine site. The new microwave link is expected to be in operation by the end of this month.

[View release](#)



*De Beers Canada accepting two awards in September in Washington, D.C. during the Architecture World Summit.*

## Tiny bird nest stops mine drill rig at Gahcho Kué

Sometimes, it's the little things that make a big difference: like parking a large drill rig for a month to let a batch of Robin eggs hatch.

That's exactly what happened at Gahcho Kué Mine when a Robin's nest was discovered inside the housing of a drill rig motor at the Northwest Territories diamond mine.

The piece of equipment which was integral to construction activities on site and had been parked long enough for the Robin to make a nest and lay her eggs.

Adhering to the mine's wildlife procedures and the Migratory Birds Convention Act (MBCA), the operator called in the Environment department upon discovering the nest during a pre-operative check.

"We have a commitment to legal compliance and Zero Harm at all of our operations. After reporting the nest to Environment Canada, the Mining and Environment Departments made the decision to tag out and cordon off the piece of equipment, so the nest wouldn't be disturbed," said Patrick Kramers, Environmental Superintendent at the mine.

The equipment was cordoned off with reflective tape and a sign stating it was a nesting area and that it was not to be disturbed. The equipment was out of service for five weeks, long enough for the eggs to hatch and the fledglings to leave the nest.

This isn't the first time De Beers has taken steps to halt or modify operations to accommodate nesting birds. In 2015, the discovery of a Herring Gull nest halted the construction of a dyke critical to dewatering activities at Gahcho Kué, and in 2012, operations inside the Victor Mine pit were modified to let swallows nesting in a portion of the pit wall hatch that year's young.

[View release](#)



*Monitoring of the nest for progress continued until the birds were gone, after which the drill rig was cleaned and returned to use.*

## North Arrow Discovers diamonds at Mel Project, Nunavut

North Arrow Minerals Inc. report discovery of diamonds at the company's 100% owned Mel Diamond Project on the Melville Peninsula, Nunavut.

Highlights of this announcement include:

- Diamondiferous kimberlite float, including pieces up to 0.50 m in size, has been identified over a 100 m extent within, and to the north of, a small lake near the up-ice termination of a well-defined kimberlite indicator mineral (KIM) train. This discovery is herein referred to as the ML-8 kimberlite
- A 62.1 kg sample of the ML-8 kimberlite has returned 23 diamonds larger than the 0.106 mm sieve size, including a single, colourless diamond larger than the 0.85 mm sieve size
- The ML-8 kimberlite discovery is coincident with an identified airborne magnetic geophysical anomaly that straddles the northern shoreline of the 200 m by 400 m lake
- A number of additional geophysical targets, coincident with permissive topographic areas, have been identified near the up ice termination of unexplained KIM trains within the property and, along with ML-8, will be drilled tested in 2018



"As we thought possible, detailed prospecting of the well-defined KIM trains at Mel has led to the discovery of kimberlite and diamonds - the second discovery by North Arrow of a diamondiferous kimberlite field in Canada. Delineation and exploration drilling of the ML-8 discovery and other identified targets is now planned for 2018 and will benefit from sharing logistics and infrastructure with North Arrow's ongoing evaluation of the Q1-4 kimberlite at the Naujaat Diamond Project," said Ken Armstrong, North Arrow president and CEO.

### Kimberlite discovery and diamond results

The Mel property is located within 18 km of the Arctic Ocean, approximately 140 km south of the Hamlet of Hall Beach and 210 km northeast of the Naujaat Diamond Project. Kimberlite was discovered at Mel during detailed prospecting near the up-ice termination of several KIM trains identified from previous North Arrow till sampling programs. The kimberlite is heavily moss, and lichen covered and has been identified as float and possible subcrop over an approximate 100 m by 10 m extent at the up ice termination of one of the KIM trains. Kimberlite blocks up to 0.50 m in diameter were identified within, and immediately north of, a 200 m x 400 m lake and coincident with previously identified magnetic anomaly ML-8. A second locality of kimberlite float was identified approximately 500 m east from the main discovery. The ML-8 kimberlite is

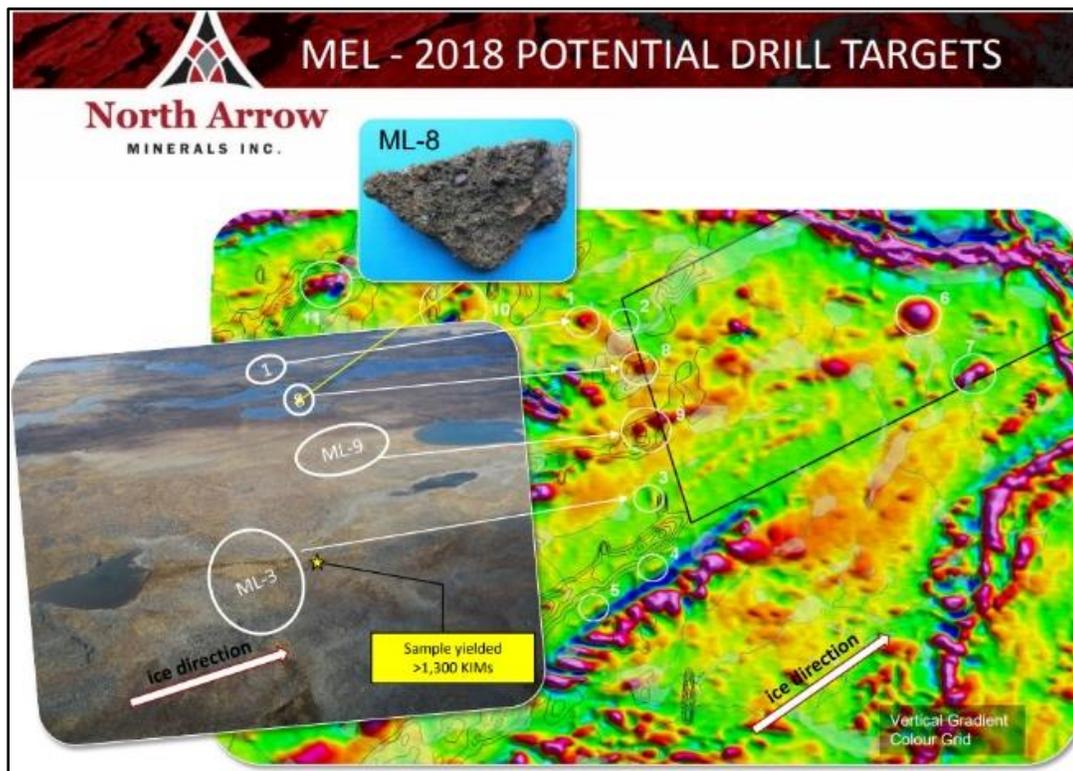
described as a dark grey-green, medium to very coarse (>1.6 cm) grained coherent kimberlite containing abundant olivine as well as common ilmenite, orange to purple garnet and phlogopite. Caustic fusion results from a 62.1 kg composite sample of the ML-8 kimberlite are summarized in the [news release](#)

### Exploration potential

Separate, prominent KIM trains immediately to the north and south of the ML-8 kimberlite discovery remain unexplained, as do positive till samples in the southern part of the project. A number of geophysical targets, coincident with permissive topographic areas, have been identified near the up ice termination of these positive till samples. The strongest KIM anomaly identified on the property is located approximately 1.5 km south of the ML-8 discovery and is defined by samples returning hundreds to over 1,300 KIMs. These exceptionally high KIM counts are located immediately down-ice (northeast) from a promising, broad topographic low and partially coincident magnetic and electromagnetic geophysical anomalies. A presentation outlining the details of the ML-8 discovery is available [here](#) along with information on other potential targets.

North Arrow has plans to mobilize an exploration drill and camp to Mel in the spring of 2018. The drill is presently located only 140 km north of the property. Fuel has also been mobilized in anticipation of a 2018 program of geophysics and drilling to define the size and extent of the ML-8 kimberlite discovery and to test targets at the up-ice terminations of the remaining unexplained KIM trains. North Arrow has all required exploration permits for this work and is presently staking additional mineral claims to expand the Mel project and cover additional prospective areas near this new Canadian diamond discovery.

[View release](#)



## **TMAC Resources reports third quarter operations update**

TMAC Resources Inc. provided its third quarter operations update and production results in advance of reporting its financial and operating results for the unaudited interim periods ended September 30, 2017 in mid-November and reports third quarter 2017 gold sales of 13,760 ounces realizing \$22.1 million (US\$17.7 million) at an average realized gold price of US\$1,288 per ounce.

“TMAC continues to systematically work through the plant to ramp up to consistent plant operation near or at design throughput levels which will enable us to focus on achieving design recoveries,” Dr. Catharine Farrow, TMAC CEO.

“We have identified three remaining key areas requiring improvement, the cyclones that feed the flotation cells, a de-watering cone to reduce excess water in the concentrate treatment plant and the resin columns where we are working to remedy resin bead issues. A new cyclone distributor head is being fabricated and is expected to arrive at site by mid-November and we are awaiting a shipment of replacement resin later this month,” she added

“At Doris Mine, underground development continues with the ramp to Doris Connector, our next mining area, well underway, and with the ramp continuing below the diabase dyke at Doris for future stope access and diamond drill platforms. Permits are in hand to conduct advanced exploration, including underground development, at both Boston and Madrid.”

### **Processing plant update**

The components for the crushing, grinding, gravity and flotation circuit (Python) delivered during the successful 2017 sealift in August and September were placed in the laydown area at the Doris site. Assembly of this second Python will be deferred until mid-2018 for TMAC personnel to continue to focus on the processing plant performance improvements in order to reach design recoveries.

### **Third quarter production highlights**

- Sold 13,760 ounces of gold for \$22.1 million (US\$17.7 million) and 29,640 ounces for \$48.7 million (US\$37.6 million) for the nine months ended September 30
- Average price of US\$1,288 per ounce of gold for the third quarter of 2017 (\$1,606 per ounce at an exchange rate of 1.2472) and US\$1,268 per ounce for the first nine months of 2017 (\$1,644 per ounce at an exchange rate of 1.2969)
- Mining at Doris continues at a deliberately reduced rate and will be ramped up when Plant throughput and recoveries demonstrate continued improvement
- Doris Mine development continues
- Ore stockpiles at September 30, 2017 were estimated to contain 82,700 tonnes of ore at an average grade of 16.6 g/t, or 44,000 ounces of contained gold
- Guidance for 2017 remains unchanged at 50,000 to 60,000 ounces of gold sold for 2017
- Cash balances at September 30, 2017 were \$17.3 million of unrestricted cash, including the \$10 million minimum cash balance required under the terms of TMAC’s Amended and Restated Debt Facility, and \$43.9 million of restricted cash.

[View release](#)

## **TerraX acquires Burwash property, raises funds and adds to Walsh**

TerraX Minerals Inc. reports that it has entered into an agreement to acquire the historic Burwash Mine property, immediately adjacent to its Eastbelt property, Yellowknife City Gold Project.

The Burwash Mine was the first gold producer in the Yellowknife gold district in 1935 when a pit was excavated and a shallow shaft (40 meters) was sunk on a high grade gold vein.

An initial surface sampling program at Burwash consisting of 85 grab samples from outcrop was carried out by TerraX this past summer as part of its due diligence prior to completing the agreement to acquire the property (see the map [here](#)).

### **Highlights Include:**

- 201 g/t Au, 23.2 g/t Ag in outcrop grab sample
- 2.87 g/t Au, 16.2 g/t Ag, 5.55% Zn, 0.68% Pb in outcrop grab sample

The sample grading 2.87 g/t Au, 16.2 g/t Ag, 5.55% Zn, and 0.68% Pb occurs in a highway quarry approximately 1.1 kilometers south of the 201 g/t Au sample located near the old Burwash shaft. This sample is also 1.8 kilometers north of TerraX's Angel vein showing on Eastbelt (up to 65.7 g/t Au and 4,910 g/t Ag reported July 18, 2017). All three of these areas could be on related structures.

"The acquisition of the Burwash property gives TerraX complete coverage of a 3 km trend of very high grade gold and silver values extending from our Angel target to the Burwash Mine area. TerraX has completed airborne geophysics, lake sediment sampling and biogeochemical sampling over this area in the summer of 2017, and this information will be used to aggressively explore this target next year," said Joe Campbell, TerraX CEO.

The Burwash property consists of mineral leases totalling 252 hectares. The property has no environmental liabilities, having been fully remediated by the Canadian federal and territorial governments.

With the Burwash option and the recent staking of additional claims, the Yellowknife City Gold (YCG) project now encompasses 440 sq km of contiguous land immediately north and south of the City of Yellowknife, NWT.

Through a series of acquisitions, TerraX controls one of the six major high-grade gold camps in Canada. Being within 15 km of the City of Yellowknife, the YCG is close to vital infrastructure, including transportation, service providers, hydro-electric power and skilled tradespeople.

[View release](#)

TerraX Minerals Inc. also reports generating \$1,910,759 from share purchase warrants. With the exercise of these warrants, the company now has cash on hand of \$2.8 million. [View release](#)

Additionally, the company reports an extension of its Walsh Lake zone. [View release](#)

## Canadian Zinc files positive feasibility report of Prairie Creek Mine

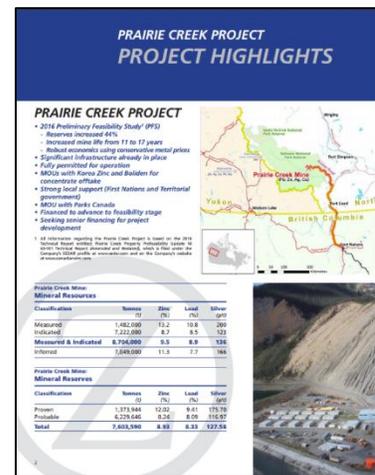
Canadian Zinc Corporation has filed a new technical report on its Prairie Creek Zinc-Lead-Silver Project in the Northwest Territories.

The report provides the results of the recently completed 2017 Feasibility study, was prepared by AMC Mining Consultants. AMC concludes that the Prairie Creek Mine is shown to be a viable project, based on the Mineral Reserves, mine plan and production and economic parameters determined within the 2017 Feasibility Study.

The Prairie Creek Property contains a high-grade, silver-lead-zinc-copper vein along with other lead-zinc deposits and deposit types. The Technical Report indicates a Mineral Reserve of 8.1 million tonnes and a life of mine from mill start-up of 15 years at a steady-state mining production rate of 584,000 tonnes of ore per annum.

AMC recommends that Canadian Zinc advance the Project to the next stage, which will include detailed design and planning of the required services, construction of the all season road, refurbishment of the mill, ordering the long-lead equipment for power generation, portal refurbishment, access widening, and development of ramp declines and underground infrastructure in preparation for ore production and processing.

Mill start-up is projected for August 2020. The mine start-up schedule is significantly influenced by the seasonal weather conditions in the Northwest Territories. Target start-up for commencement of production/milling operations at Prairie Creek mine is scheduled for August 1, 2020 with commissioning of the mill for three months prior to this date.



The first year of the project schedule comprises detailed engineering and initial site/portal preparation, including the completion of permitting and design of the all season road, the second year to procure long-lead-time items and further prepare the site, followed by continuous site construction and mine development to production. Mobilization will initially be by winter road, concurrent with construction of the all season road.

[View release](#)

## 12<sup>th</sup> International Kimberlite Conference coming to Yellowknife!

Yellowknife will host the International Kimberlite Conference (ICK) in 2021. This international geological conference brings together academic and industry leaders. The Government of the Northwest Territories, the City of Yellowknife and Northwest Territories Tourism developed a bid package which was also endorsed by the Northwest Territories' diamond industry stakeholders including the Chamber of Mines. The conference is expected to attract upwards of 500 delegates and guests to the NWT and an estimated \$1 million in economic benefit to the NWT.

## **Sabina & KIA announce terms for land tenure and Inuit benefits for Back River**

Sabina Gold & Silver Corp. and the Kitikmeot Inuit Association announced the execution of a binding term sheet setting forth the principle terms that are to be included in a definitive Framework Agreement. The FA, upon completion, would be a comprehensive agreement which would set out rights and obligations with respect to surface land access on Inuit owned land and will include an Inuit Impact and Benefits Agreement (“IIBA”) among other obligations required by the Nunavut Agreement.

“On behalf of the KIA Board, I am pleased to announce the signing of this binding term sheet,” said Stanley Anablak, President of the KIA. “We believe we have negotiated terms that focus on the interests of Inuit of the Kitikmeot Region providing them with training, employment, business opportunities and direct economic benefits from the Back River Project. Throughout our negotiations KIA’s primary concern was including appropriate measures in the term sheet to conserve the land, water and wildlife while advancing socio-economic development for the region. We have made significant advancements in both socio-economic and caribou mitigation concerns. We thank the Sabina team for their effort and commitment to complete the term sheet and look forward to completing the definitive agreements in the coming months.”

“The FA terms have been negotiated in good faith with a result that benefits both Sabina and all of our Nunavut stakeholders. We appreciate the considerable effort by the KIA throughout the process and are looking forward to working with the KIA upon completion of the FA to implement the initiatives contemplated by the FA. We believe the FA terms demonstrate our genuine long-term commitment to the Inuit of the Kitikmeot Region and Nunavut, and that our already strong partnerships in the region will be made stronger,” said Bruce McLeod, Sabina president & CEO.

The FA, when completed, would have a maximum term of 20 years and would include several provisions and agreements.

[View release](#)

## **Environmental assessment for Grays Bay Road and Port**

The Grays Bay Road and Port will undergo a full environmental review, the Nunavut Impact Review Board (NIRB) reports in its October 31 screening decision.

The 89-page NIRB screening decision report is available on the board’s web site [here](#).

Led by a unique partnership between the Nunavut Government and the Kitikmeot Inuit Association, the project includes a deep-water port on the Arctic Ocean with a 230-kilometre all-season road into the mineral-rich Slave Geological Province. A future phase will extend the all-season road a further 95 kilometres to the NWT border, and would link Nunavut to Canada by road for the first time in Canada’s history.

The GN and KIA have received confirmation that the project meets funding criteria under the National Trade Corridor Fund and preparing a detailed business case. The project schedule is for construction to begin in 2020 and be open in early 2024 to serve exploration companies, mine developers, community re-suppliers and local Kitikmeot residents, seeking to drive south.

## **Agnico Eagle reports Q3 results**

Nunavut highlights from [Agnico Eagle Mines Limited's third quarter report](#) include:

- Meadowbank mine production costs per tonne in the third quarter of 2017 were essentially the same when compared to the prior-year period. Production costs per ounce in the third quarter of 2017 decreased when compared to the prior-year period due to higher production. Minesite costs per tonne in the Q3 2017 increased when compared to the prior-year period due to lower tonnage. Total cash costs per ounce in the third quarter of 2017 decreased when compared to the prior-year period.
- At the Amaruq satellite deposit, Agnico Eagle is working closely with the Nunavut Impact Review Board and the Nunavut Water Board on the Whale Tail joint permitting process. The final public hearings with NIRB and with NWB were conducted in late September. The NIRB's final recommendation to the Federal Minister is expected by November 6. Whale Tail pit permitting remains on schedule and permits are expected by the Q3 2018. The Company expects a conventional open pit mining operation to begin on the Whale Tail deposit in the third quarter of 2019. Other satellite deposits, such as the V Zone, are being evaluated and considered for future development and will require additional permitting. The planned Whale Tail pit currently extends to a depth of approximately 250 metres and is open for expansion. Significant drilling results at Amaruq include: 7.3 grams per tonne over 16.1 metres at a depth of 627 metres at Whale Tail and 20.6 g/t gold over 6.2 metres at the V Zone at 452 metres depth, beneath the current planned pit outline.
- At Meliadine, construction and development activities remain on schedule and on budget. The construction management team is now fully staffed, and at the end of Q3 2017, engineering was approximately 89% complete. Surface construction is progressing well with outside cladding and roofing expected to be completed on the mill facility, multi-service building and powerhouse in November 2017. Underground development for 2017 is on plan, and critical mining equipment, which was received during the 2017 summer sealift, is currently being commissioned. During the third quarter, approximately 1,265 metres of underground development was completed. In the first nine months of 2017, approximately 3,789 metres of development has been completed (a total of approximately 5,600 metres of development is planned for 2017). The second underground portal is expected to be completed by mid-November 2017, and the ramp to this portal is progressing from underground. Installation of underground ventilation and heating continues and is expected to be completed by the first quarter of 2018. At the laydown area in Rankin Inlet, installation of the 13.5 million litre fuel tank is complete and the first delivery of fuel occurred in mid-October 2017. Construction of a second larger fuel tank is well advanced with completion expected in 2018. The Rankin Inlet bypass road is expected to be completed before the 2018 barge season.
- The total initial capital cost of the Meliadine project remains unchanged at \$900 million. Given the construction progress achieved to date, capital spending for 2017 has been accelerated by approximately \$12 million. The total capital budget for 2017 is now approximately \$372 million.

## Mining and exploration awards to celebrate key resource sector contributors

Industry, government and business stakeholders will recognize key contributors to mining and resources at the inaugural Mineral and Exploration Awards Banquet, scheduled November 16 during the Yellowknife Geoscience Forum. The awards will identify recipients in five categories:

- **Distinguished Service Award:** This award recognizes an individual or a company who has achieved one or more of the following: made a substantial contribution to mineral exploration and mining development over a number of years; made outstanding contributions to the mineral industry in the field of finance, geology, geophysics, geochemistry research, or a related activity.
- **Leadership in economic Contribution to Mineral Sector:** This award highlights the work of an individual, organization, service company, entrepreneur or a team of entrepreneurs whose company or project has made significant contributions to the NWT economy in either the mineral exploration or development and mining industry over the past year(s) and historically. This progress can be related to the development of a specific project or to the overall activities of the company.
- **Environmental & Social Responsibility Award:** This award honours an individual or organization demonstrating outstanding initiative, leadership, stewardship and accomplishment in protecting and preserving the natural environment and/or in establishing good community relations during an exploration program or operation of a mine.
- **Indigenous Achievement in Mining/Exploration:** This award celebrates and recognizes Indigenous leaders or companies in the mining and/or exploration sector who have demonstrated excellence in innovation, best practices, sustainability, and capacity building in their home community or region.
- **Special Achievement Award:** From time to time, a Special Achievement Award can be awarded that recognizes exceptional contributions to the mineral industry.



DON'T MISS THE EVENT OF THE YEAR! **GET YOUR TICKETS NOW!**

**NWT MAX AWARDS**  
EXCELLENCE IN MINING & EXPLORATION

Government of Northwest Territories

CELEBRATING 50 YEARS  
NWT & NUNAVUT CHAMBER OF MINES

### Celebrating Excellence in Mining and Exploration

Join us on Thursday, November 16, 2017 as we celebrate the NWT & Nunavut Chamber of Mines' 50th anniversary with the inaugural MAX Awards event.

**Where:** Explorer Hotel, Yellowknife  
**Reception:** 6pm  
**Dinner:** 7pm sharp  
**Dress:** Business casual  
**Tickets:** \$135 (includes GST)

Limited tickets available, to purchase [click here.](#)

Questions, please call 867-447-XXXX

Sample ☺

CHAMBER OF MINES  
IN PARTNERSHIP WITH THE  
GOVERNMENT OF THE NORTHWEST TERRITORIES

## Exploration & Development News Briefs (See [website](#) for more information)

**Aston Bay Holdings Ltd.** [announced](#) that it has engaged Integral Wealth Securities Limited to provide market-making services to the company in accordance with applicable securities laws and the policies of the TSX Venture Exchange. Integral will trade shares of the Company on the TSX-V for the purposes of maintaining an orderly market and improving the liquidity of the Company's issued shares. The capital and securities required for any trade undertaken by Integral as principal will be provided by Integral.

Aston Bay has engaged Integral to provide market making services for a 12-month term, with a one-time right by the Company to terminate the engagement after the first three months. After 12 months, the agreement may be terminated by the Company on 30 days' written notice.

**Auryn Resources Inc.** announced new mineralization discovered at the Inuk prospect at its Committee Bay Gold Project located in Nunavut, Canada. Auryn intercepted 25 meters of 1.15g/t Au (including 3.05 meters of 4.13g/t Au) 400 meters away from the historic intercept of 12.6 meters of 16.04 g/t Au in hole INR003 within sulphidized banded iron formation. This hole extends the mineralized system considerably and demonstrates significant widths of mineralization under barren intrusive rocks that were not previously tested. This is the third area drilled at Committee Bay during 2017 to yield positive results and warrant further exploration.

### Highlights:

- Intercepted 25 meters of 1.15g/t Au (including 3.05 meters of 4.13g/t Au) 400 meters along strike from the historic intercept of 12.6 meters of 16.04 g/t Au at the Inuk prospect.
- 31% of holes still to be reported from the Committee Bay drilling, including results from Kinng Gold, Kinng Mountain, Mist, Koffy targets in the northeast portion of the belt.
- Results are pending from 37 holes (14,811 meters) drilled at the Company's Homestake Ridge Project in the Golden Triangle, British Columbia. Targets tested included South Reef and the Homestake Main zone extension.
- Committee Bay follow-up drilling to resume in March at the Aiviq discovery and the Three Bluffs deposit.

Auryn has completed 14,811 meters in 37 drill holes (with all results pending) at the Homestake Ridge

project (last hole was drilled as of October 12th, 2017). Numerous drill holes have encountered geological features consistent with gold and silver mineralization at both the South Reef prospect and the Homestake Main extension.

Committee Bay - Follow up planned for March 2018

Auryn plans to undertake both discovery expansion drilling at the Aiviq prospect and deposit expansion drilling at the Three Bluffs deposit in a planned 10,000 meter drill program in March 2018. [View release](#)

**Crystal Exploration Inc.** announce mobilization for exploration work at its 100% owned Contwoyto Gold Project in Nunavut, Canada. The work program will consist of up to 500 meters (m) of core drilling and include ground magnetic and HLEM geophysical surveys. Focus of work will be to validate historical work and to examine new zones for continuity while better understanding the trend potential. The Project holds two mining leases and two mining claims covering over 60km<sup>2</sup> located adjacent to the Lupin Gold Mine. Crystal has partnered with Apex Geoscience Ltd. to compile an extensive and comprehensive data package and will include geological modelling for its Contwoyto Gold Project. Diamond chemistry results are expected during Q4, 2017. [View release](#)

**Crystal Exploration Inc.** proposes to complete a non-brokered private placement financing on a best efforts basis of up to 7,142,857 units at a price of \$0.07 per Unit for gross proceeds of up to \$500,000. Each Unit will consist of one common share and one common share purchase warrant. Each whole warrant entitles the holder to purchase one additional common share of the Company at an exercise price of \$0.11 for a period of 12 months from the date of issue of the warrant. In addition, Crystal is amending the flow-through financing announced on September 15, 2017. Crystal proposes to complete on a best efforts basis of up to 2,222,222 flow-through common shares at a price of \$0.09 per share for gross proceeds of up to \$200,000. Proceeds from the private placement will be used for Canadian exploration expenditures and working capital to advance gold and diamond projects located in Nunavut, Canada. [View release](#)

**Nighthawk Gold Corp.** [announced](#) additional drill results from its wholly owned Colomac Gold Project

located within its Indin Lake Gold Property, Northwest Territories, Canada. Drilling at Zone 1.0 and Zone 2.0 has intersected broad zones of gold mineralization with internal higher-grade intervals. Drill hole C17-17B delivered one of the best intercepts to-date from the northern region of Zone 2.0, returning 89.10 metres (50.00 metre true width) grading 1.52 grams per tonne gold, including 12.00 metres of 5.02 gpt gold, and including 6.40 metres of 8.61 gpt gold. Drilling has also been successful in extending Zone 1.0 to depth, and hole C17-19 yielded the zone's best intercept of 48.50 metres (45.00 metres true width) grading 1.88 gpt gold, including 20.00 metres of 3.07 gpt gold, and including 9.85 metres of 5.08 gpt gold. The zone remains open down plunge and along strike to the north for expansion.

### **Colomac Drilling Highlights:**

#### **Zone 1.0**

- Hole C17-19, returned the best intercept to date at Zone 1.0 - 48.50 metres (45 metres true width) of 1.88 gpt Au, including 20.00 metres of 3.07 gpt Au, and including 9.85 metres of 5.08 gpt Au;
- Zone 1.0 appears to widen from 70.00 metres true width close to surface to 115.00 metres at depth; a similar expansion was reported for Zone 1.5 where the mineralized true width had tripled to depth

#### **Zone 2.0**

- Hole C17-17B intersected 89.10 metres (50.00 metre true width) of 1.52 gpt Au, including 12.00 metres of 5.02 gpt Au, and including 6.40 metres of 8.61 gpt Au;
- C17-17B confirms that the mineralized widths, and internal higher-grade core previously intersected in 2012 drilling to the south, extend further north and remain open – presenting another high-grade Au target within the Colomac sill.

**Kivalliq Energy Corporation** [announced](#) results from the 2017 summer exploration program at its 100% owned, Baffin Gold Property in Nunavut. The Baffin Gold Property is one of the largest undeveloped greenstone-iron formation gold belts in Nunavut, totalling 408,981.6 ha and covering 160 km of the Foxe Fold Belt on central Baffin Island. These results are the first step toward understanding and advancing significant gold-bearing zones and

anomalies that occur in a variety of geological settings within the Baffin Gold Property.

### **2017 Highlights:**

Results from 424 rock samples confirmed high-grade gold in banded iron formation (BIF) and (intrusion?)-metasediment hosted quartz veins. Highlight grab and channel sample assays include:

- 268 g/t (7.8 oz/ton) Au - Malrok BIF grab sample
- 211 g/t (6.1 oz/ton) Au over 0.5 m and 102.5 g/t (3.0 oz/ton) Au over 0.5 m - Kanosak quartz vein channel sample
- 114.5 g/t (3.3 oz/ton) and 96.2 g/t (2.8 oz/ton) Au - Brent quartz vein grab sample
- 86.1 g/t (2.5 oz/ton) Au over 0.96 m, includes 193 g/t (5.6 oz/ton) Au over 0.32 m
- W Kanosak/Qim 4 BIF channel sample
- 20% of rock samples taken in 2017 (85) were > 0.5 g/t Au

Results from 492 till geochemical samples identified a new 10 km long corridor of anomalous gold at south Kanosak, and further outlined seven anomalous areas warranting follow-up at Kanosak, Brent and Central Belt west;

Rock and new till geochemical results have extended the strike length of known gold occurrences at Brent, confirmed gold in BIF over 5 km and 6 km at west and north Kanosak, and expanded anomalies around historic gold in till results;

65 sq.km. of high resolution airborne drone imagery flown in key target areas will be used to develop digital surface models and aid structural interpretation.

**North Arrow Minerals Inc.** [reported](#) the start of processing of samples collected during its recently completed summer drilling and mini-bulk sampling programs at the Company's 100% owned Naujaat (now-yat) Diamond Project, Nunavut. The 2017 program focused on delineation drilling and mini-bulk sampling of the 12.5 hectare Q1-4 kimberlite, one of the largest undeveloped diamond resources in Canada, containing a significant population of extremely rare, potentially high value, fancy vivid orangey yellow diamonds as certified by the Gemological Institute of America and Canadian Gem Labs. The Q1-4 kimberlite hosts a total Inferred Mineral Resource of 26.1 million carats from 48.8 million tonnes with an average +1 DTC total diamond content of 53.6 carats per hundred tonnes (cpht) extending from surface to a depth of 205m (-135

metres above sea level (masl)). The summer program was completed in early September and included the collection of a 234 wet tonne mini-bulk sample and over 10,000 kg of kimberlite in drill core.



Sealift loading Q1-4 Bulk Sample in Sept 2014, Nauyasat.

**NxGold Ltd** advised that a Type B Water Licence has been issued by the Nunavut Water Board in respect of the Kuulu Project in Nunavut. This licence authorizes water use and waste management associated with camp and drilling activities for the Kuulu Project. Upon renewal of the existing Land Use Licences, KVL311B01 and KVRW12E01, all licenses and permits will have been issued to permit the company to drill test high priority gold targets at the Kuulu Project. As previously announced on June 19, 2017, the company has also obtained a positive decision from the Nunavut Impact Review Board for the Kuulu Project. The company continues its dialogue with the Kivalliq Inuit Association and remains optimistic that it will secure renewal of the land use licences in due course. [View release](#)

**Pine Point Mining Limited** has remobilized a drill rig at its Pine Point lead-zinc project near Hay River in the Northwest Territories. The drill will begin testing several anomalies outlined in an ongoing ground gravity survey which began in August. To date, 50.7 line kilometres of a 97-kilometre survey have been completed. The target areas are located near the former Pine Point townsite and mill site. The initial survey results confirmed the presence of the two gravity anomalies along strike to the east from the N-42 deposit, one of Cominco's higher grade open pits. Historical production from this deposit was 2,959,680 tonnes grading 5.3% lead and 9.5% zinc.

Another anomaly has been located immediately north of the historical O-42 deposit, which produced 2,742,720 tonnes grading 8.8% lead and 11.6% zinc. These anomalies have no recorded drilling from previous operators. There is also a strong gravity response at the north end of the grid that requires further definition. The company also announced it has received a modification its Land Use Permit to complete exploration work on its eight new claims, of which six claims cover the old Pine Point townsite.

[View release](#)

**Sabina Gold & Silver Corp.** [announced](#) additional results from the summer exploration diamond drilling program at its 100% owned Back River Gold Project in Nunavut, Canada. A summer exploration drill program of 9,868 metres in 17 drill holes has now been completed. Drilling successfully tested high impact exploration targets in and around existing resources at the Goose Property, including five holes in the high-grade Umwelt Vault zone. Two of these drill holes; 17GSE522B and 17GSE517, tested the central area of the Vault zone and one drill hole, 17GSE520 tested an eastern fold hinge of the zone and are reported in this release. See Figure 1.0 for drill hole locations and Table 1.0 for significant intervals. "These drill results have advanced this high grade target area by increasing the down plunge expression of the Vault Zone and improving confidence in the continuity of the zone," said Bruce McLeod, President & CEO.

**Silver Range Resources Ltd.** provided an [update](#) on exploration results from its Hard Cash Property in Nunavut. Ground total magnetic field (TMF) and horizontal loop electromagnetic (HLEM) surveys conducted at Hard Cash during July 2017 have defined a compelling drill target along the length of the 1.1 kilometre-long Swamp Trend. This trend is defined by 96 samples, 16 of which have returned analyses greater than 30 g/t Au (peak value 174 g/t Au) and 40 of which have returned analyses greater than 5 g/t Au. High silver values up to 1192 g/t Ag occur with gold and 16 samples along the trend have returned greater than 200 g/t Ag. (Silver Range Press Release October 11, 2016) The geophysical surveys mapped a magnetic break and parallel conductive zone bracketing the Swamp Trend to the southeast and northwest along its length. The geophysical survey results suggest a clear proximal source for the float samples and a southwest extension of high-grade bedrock mineralization at the north end of the trend.

## Member news releases this past month

Click on the news release headlines which are live links for news releases issued by our member companies this past month.

- 2 November 2017, [Industry supports NWT Premier McLeod's red alert](#)
- 1 November 2017, [Dominion Diamond announces completion of plan of arrangement](#)
- 31 October 2017, [Canadian Zinc files technical report on feasibility study of Prairie Creek](#)
- 27 October 2017, [Dominion announces receipt of Investment Canada Act approval](#)
- 26 October 2017, [De Beers Canada announces care and maintenance contract](#)
- 26 October 2017, [Det'on Cho awarded Snap care and maintenance contract](#)
- 25 October 2017, [TerraX acquires Burwash](#)
- 25 October 2017, [Kivalliq Energy Corporation identifies new gold, confirms gold zones](#)
- 25 October 2017, [Nighthawk intercepts gold at Colomac](#)
- 24 October 2017, [Mountain Province Q3 production report and diamond sale results](#)
- 24 October 2017, [Stornoway announces third quarter release date](#)
- 23 October 2017, [North Arrow commences diamond processing, Naujaat project](#)
- 20 October 2017, [Crystal Exploration announces private placement](#)
- 19 October 2017, [NxGold granted water permit for the Kuulu Gold project](#)
- 19 October 2017, [Auryn expands mineralized system at Inuk, provides portfolio update](#)
- 19 October 2017, [Silver Range defines drill target at Hard Cash](#)
- 19 October 2017, [Pine Point To drill geophysical anomalies](#)
- 19 October 2017, [Sabina increases continuity and expands Vault gold zone potential](#)
- 19 October 2017, [Sabina & KIA announce terms for Back River gold project](#)
- 18 October 2017, [Cameco provides date for Q3 conference call](#)
- 18 October 2017, [Baffinland Iron Mines concludes record-setting shipping season](#)
- 17 October 2017, [TerraX receives \\$1,910,759 from the exercise of warrants](#)
- 17 October 2017, [De Beers rough diamond sales for cycle 8, 2017](#)
- 16 October 2017, [TMAC provides third quarter operations update](#)
- 16 October 2017, [North Arrow Discovers diamonds at the Mel Project, Nunavut](#)
- 11 October 2017, [TerraX extends the Walsh Lake structure](#)
- 11 October 2017, [Aston Bay results of AGM; Benjamin Cox to step down from board](#)
- 10 October 2017, [Stornoway announces third quarter production and sales results](#)
- 4 October 2017, [Crystal Exploration commences gold drilling program](#)
- 3 October 2017, [Kennady announces resource of 5m carats for Faraday kimberlites](#)

## Chamber of Mines' Social Media

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## Welcome New Members!

On behalf of our members, we would like to welcome the following new member to the Chamber of Mines. We encourage your support of their business. Please join us in a warm welcome to:

- **Fednav Limited** is Canada's largest ocean-going dry-bulk ship owning and chartering group. With a reputation built on a commitment to customer care and reliability, Fednav, based in Montreal, is the leader in international shipping boasting the world's largest fleet of ice-class bulk carriers. <http://www.fednav.com/en>
- **Delta Remediation**, an Alberta-based environmental consulting/engineering firm, provides a cost effective, safe alternative for the elimination of hydrocarbon contaminants from soil and water. Treating soils and water in place using natural processes minimizes energy inputs resulting in a much smaller carbon footprint relative to many other remediation methods. <http://deltaremediation.com/>
- **Gowling WLG LLC** is a global law firm with over 1,400 legal professionals and a range of dedicated business support teams across 19 cities in Canada, the UK, Europe, Asia and the Middle East. <https://gowlingwlg.com/en/canada>
- **Midnight Sun Drilling Inc.** has been serving the drilling industry with specialized equipment and quality drilling since 1970. Whitehorse-based MSD operates the most advanced equipment available on the market. Its drill rig fleet of nine rigs; including truck, track, and heli-portable unit and the company offers a complete range of drilling techniques. <http://www.midnightsundrilling.com/>
- **Nunavut Economic Developers Association** is a membership driven organization assisting community economic development officers and economic development professionals in Nunavut. Based in Iqaluit, its mandate is to support members through professional development, networking, and advocacy. <http://www.nunavuteda.com/>
- **Mandalay Resources Corporation** creates exceptional shareholder value through the acquisition of undervalued assets that can become rapidly cash generative, self fund exploration, establish and maintain high operating margins, and return cash to shareholders. Based in Toronto, the company has properties in Chile, Australia, and Sweden. <https://www.mandalayresources.com/>
- **Rowes Construction**, based in Hay River, NT, provides logistics support and mine site services. The construction, energy and equipment company began in 1975 in Hay River providing general contracting services. <http://www.rowes.ca/construction>
- **Sakku Investments Corp**, based in Rankin Inlet, Nunavut, is the Inuit-owned economic development arm of the Kivalliq Inuit Association. <http://www.sakkuinvestments.ca/>
- **Solvest Inc.** is a solar project development and installation firm specializing in remote energy projects. The team has experience building systems across Canada and the arctic in the harshest of conditions. <http://solvest.ca/>

## Calendar of events

- **Canadian Aboriginal Minerals Association 25<sup>th</sup> Anniversary Conference: "Water For Life, Mining For Need, Achieving Balance"**. November 12-14, 2017, Toronto. For more information and to register, visit [here](#).
- **45<sup>th</sup> Annual Yellowknife Geoscience Forum**, the North's largest combined tradeshow and conference, will be held November 14 - 16, 2017 in Yellowknife, NT. Watch for updates at the website [here](#). #ykgeo2017
- **MAX Awards**, celebrating excellence in NWT mining and exploration. To attend this inaugural event, sponsored by the Chamber of Mines and the Government of the Northwest Territories, purchase tickets [here](#). The MAX Awards will be held Thursday, November 16, at the Explorer Hotel in Yellowknife.
- **Our Land, Our Future: National Summit on Indigenous Youth and Natural Resource Development**, Conference Board of Canada, Calgary, AB November 21 - 22, 2017. Relationships between industry, government and Indigenous peoples lie at the heart of Canada's natural resource sector. Each holds a powerful position with unique rights and responsibilities. A collaborative, mutually-beneficial approach is also critical to ensuring sustainable, environmentally responsible development. Click title to learn more.
- **Association for Mineral Exploration Roundup 2018**, January 22-25, 2018, Vancouver, BC. Roundup brings together geoscientists, prospectors, investors, suppliers and First Nation partners to share ideas that will help shape the future of mineral exploration and development in Canada. Learn more [here](#).
- **PDAC 2018 International Convention, Trade Show & Investors Exchange** - March 4 - 7, 2018, Metro Toronto Convention Centre, Toronto, ON. Learn more [here](#).
- **Nunavut Mining Symposium 2018**, Dates are set - April 9-12, 2018 for #NuMS18. Don't miss it and stay tuned for the call for speakers and call for sponsors. Click [here](#).
- **Resources for Future Generations (RFG2018)**, June 16-21, 2018, Vancouver Convention Centre, BC. With themes covering all the key geoscience sectors across all professional practice – Minerals, Energy, Water and the Earth. Organizers are calling for Sessions and you can submit your session proposal at: [www.RFG2018.org](http://www.RFG2018.org). Abstracts will be sought in June 2017.



## Mines & promising Northwest Territories mine projects

The following table describes several leading mineral development projects in the NWT.

Project Name	Owner(s)	Commodity	Description	Status
<a href="#">Ekati Mine</a>	<a href="#">Dominion Diamond Mines</a> , and Dr. Stewart Blusson.	Diamonds	Canada's first and largest diamond mine, 310 km. NE of Yellowknife. Open pit and underground. Mine life to 2042. Workforce in 2016, 1,889. The Ekati mine consists of two joint ventures, the Core Zone Joint Venture and the Buffer Zone Joint Venture, in which the company has an interest of 88.9% and 72.0%, respectively. All the production in fiscal year 2017 was sourced from the Core Zone. Reserves at 31 January 2017 were 68.9 million tonnes at 1.5 carats per tonne for 105.4 million carats. Inferred mineral resources were 20.6 million tonnes at 1.0 carats per tonne for 19.8 million carats. Additionally, Fox Deep indicated and inferred resources of 51.0 million tonnes at 0.4 carats per tonne for 18.7 million carats.	News release, 1 November 2017, Dominion Diamond announces completion of plan of arrangement  News release, 27 October 2017, Dominion announces receipt of Investment Canada Act approval
<a href="#">Diavik Mine</a>	<a href="#">Rio Tinto (operator) &amp; Dominion Diamond Mines</a>	Diamonds	Canada's largest producer of diamonds, 300 km NE of Yellowknife. Mine life to 2025. Became all underground mine in 2012. Workforce in 2016, 1,187. Work to develop new A21 open pit well underway and will cost US\$350m over 4 years. A21 is on track to commence ore production in the second half of 2018. The A21 workforce will peak at approximately 200 people. Reserves at Dec 31, 2016 were 16.3 million tonnes at 2.8 carats/tonne for total of 46.0 million carats. Inferred mineral resources are 1.9 million tonnes at 2.9 carats per tonne for 5.5 million carats.	News Release, 31 March 2017: Dominion Diamond files updated technical report for Diavik Diamond Mine
<a href="#">Gahcho Kué Mine</a>	<a href="#">De Beers Canada (51% is operator) and Mountain Province (49%)</a>	Diamonds	Located approximately 280 km NE of Yellowknife, NWT. Open pit mine with life of 12 years. Mine reached commercial operation in Q1 2017. Workforce in 2016, 628. Plan is for three open pits to mine 5034, Hearne and Tuzo ore bodies producing average of 4.5 million carats/year. Reserves at 31 March 2014 (production commenced Q3 2016) were 35.4 million tonnes at 1.6 carats per tonne for 55.5 million carats.	News release, 26 October 2017, De Beers Canada announces care and maintenance contract  News release, 26 October 2017, De'ton Cho awarded Snap care and maintenance contract  News release, 24 October 2017, Mountain Province Q3 production report and diamond sale results  News release, 17 October 2017, De Beers rough diamond sales for cycle 8, 2017
<a href="#">Prairie Creek</a>	<a href="#">Canadian Zinc Corporation</a>	Zinc-lead-silver	Proposed underground mine 120 km W of Ft. Simpson. Estimated mine jobs: 220  All permits now in place to construct and operate the mine. Feasibility Study completed in 2017 supports 15-year mine life. Subject to completion of financing, and 2.5-year	News release, 31 October 2017, Canadian Zinc files technical report on feasibility study of Prairie Creek  News release, 27 September 2017, Canadian Zinc announces feasibility study results for Prairie Creek Mine

			<p>construction phase, production proposed for mid-2020.</p> <p>In 2017, the Mackenzie Valley Environmental Impact Review Board recommended approval of the proposed all season road.</p> <p>Over the past eight years Canadian Zinc has successfully completed numerous environmental assessments related to exploration and development of the Prairie Creek Mine. Canadian Zinc has obtained all the significant regulatory permits and social licences required to complete construction and development and undertake mining and milling at Prairie Creek, including construction and use of a winter access road to the mine site.</p>	<p>News release, 12 September 2017, Mackenzie Valley Review Board approves Prairie Creek Mine road</p>
NICO	Fortune Minerals Ltd.	Cobalt-gold-bismuth-copper	<p>Proposed open pit and underground mine located 50 km NE of Wha Ti. Estimated mine jobs: 150.</p> <p>In September 2017, the GNWT announced completion of the request for qualification phase of the proposed private-public-partnership to design, build, finance, operate and maintain the Tlcho All Season Road and has selected three consortiums to advance to the request for proposal stage, subject to progress of the EA. Earlier this year, the Canadian, GNWT and Tlcho governments announced conditional approval of federal funding for 25 per cent of the construction costs for the TASR through the P3 Canada Fund. The winning consortium will fund the remaining 75 per cent of the cost of the road and will be repaid with interest over the life of the contract by the GNWT.</p>	<p>News release, 19 September 2017, Fortune Minerals reports all-season road milestone</p>
Kennady North	Kennady Diamonds Inc.	Diamonds	<p>Kennady Diamonds controls 100% of Kennady North project comprising 13 leases and claims immediately to north and west of 4 leases controlled by the Gahcho Kué Joint Venture (see above). Kennady Diamonds aims to identify a resource along the Kelvin – Faraday kimberlite corridor of between a 12 and 15 million tonnes at a grade of between 2 and 2.5 carats per tonne and also to identify new kimberlites outside of the corridor. The Kelvin – Faraday corridor is a target for further exploration. The tonnage estimate is based on the drilling completed to date. The potential quantity is conceptual in nature as there has been insufficient drilling to define a mineral resource and it is uncertain if further exploration will result in the target being delineated as a mineral resource.</p>	<p>News release, 3 October 2017, Maiden inferred mineral resource of 5m carats for Faraday kimberlites</p>

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<a href="#">Nechalacho</a>	<a href="#">Avalon Advanced Materials Inc.</a>	Rare earth metals	Proposed underground mine 100km SE of Yellowknife. Estimated mine jobs: 200. The company remains optimistic that rare earth demand will recover sufficiently in 2015 to attract Project financing and allow construction work to begin by summer 2015.	News release: 16 August 2017, Avalon completes non-brokered private placement for gross proceeds of \$450,000
<a href="#">Indin Lake</a>	<a href="#">Nighthawk Gold</a>	Gold	Nighthawk controls over 90% of the prospective Indin Lake Greenstone Belt in this historic gold camp with a total ground position now comprising 930 sq km, approximately 220 km north of Yellowknife, NT. The Indin Lake Greenstone Belt is one of Canada's most underexplored gold camps. The property contains 14 known gold deposits and showings, 3 are historic mines (eg Colomac)	News release, 25 October 2017, Nighthawk intercepts gold at Colomac
<a href="#">Pine Point</a>	<a href="#">Pine Point Mining (formerly Darnley Bay)</a>	Lead-zinc	Proposed open pit mine east of Hay River, NT. 10 open pits mined sequentially with 321 jobs. Darnley Bay Resources acquired the project in 2017, and has begun active exploration to advance the project. Darnley Bay Resources is planning to start feasibility study in September, with results expected the following year. PEA quotes 13-year mine life.	News release, 19 October 2017, Pine Point To drill geophysical anomalies
<a href="#">Courageous Lake</a>	<a href="#">Seabridge Gold Inc.</a>	Gold	Proposed open pit mine 240 km NE of Yellowknife. 6.5 Moz proven and probable reserves in 91.0 million tonnes at 2 g/t (2016 Annual Report). Positive PFS July 2012. The FAT deposit is one of Canada's largest undeveloped gold projects. Seabridge is currently focusing on their KSM mine and other BC projects.	News release: 11 August 2017, Seabridge Gold files second quarter report to shareholders and its financial statements and MD&A
<a href="#">Selwyn (Howard's Pass Project)</a>	<a href="#">Selwyn Chihong Mining Ltd.</a>	Zinc, lead	Proposed base metal mine in Yukon on NWT border and access is through NWT. Agreements signed with NWT (Sahtu) Indigenous land corporations. The project will process multiple open pit mines over an approximate 10+ year mine life and includes a mineral processing plant, tailing management facility and the required on-site infrastructure. The mine is being designed to process 38,500 tonnes per day (tpd) of ore which, after processing, is expected to result in 2,500 tpd of zinc and 600 tpd of lead concentrate, which would be trucked to the Port of Stewart for export. Selwyn Chihong estimates the proposed mine will create approximately 1500 jobs during construction and approximately 750 during operation.	Selwyn Chihong Mining's proposed upgrade of a road to its lead-zinc mining project in Yukon's Selwyn Mountains will undergo an environmental assessment. Parks Canada has referred the 79km Howard's Pass Access Road (HPAR) to Environmental Assessment under the MVEIRB, which accepted the referral in July 2015. The HPAR was developed in the 1970s, and runs from the Nahanni Range Road to the NWT-Yukon border. Passing through 2 national parks. Yukon media reported in Feb 2016 that Selwyn Chihong has decided to slow their project down due to the current low zinc prices, and will not to take the project to the permitting stage this year. According to External Affairs VP Maurice Albert, SC has opted for a traditional drilling program and hopefully add another 10 years to the mine life.

## Mines & promising Nunavut mine projects

The following table describes several leading mineral development projects in Nunavut.

Project	Owner(s)	Commodity	Description	Status
<a href="#">Meadowbank Gold Mine</a>	<a href="#">Agnico Eagle Mines</a>	Gold	In operation since 2010. Open pit mine located in the Kivalliq Region, 300 km west of Hudson Bay and 70 km N of Baker Lake. Mine jobs: 775 AEM announced they will develop Amaruq satellite deposit, 50km from mine site and add 6 years to mine life, beginning in 2019. Construction of the Amaruq Exploration Access Road commenced in first quarter 2016. Road construction is ongoing with nine kms completed to date of expected total length of 64kms.	News release, 22 September 2017, Agnico Eagle provides notice third quarter results release  News release, 5 September 2017, Agnico Eagle reports positive exploration results at multiple projects
<a href="#">Mary River Iron Mine</a>	<a href="#">Baffinland Iron Mines Corporation</a>	Iron	In operation since September 2014; Open pit mine located 936 km N of Iqaluit. Mine jobs: 602 Production from Early Revenue Phase (ERP) began September 8, 2014. company has proposed a Phase 2 project with increased production and shipping. AANDC Minister has approved application for exemption from NPC negative conformity determination, July 14, 2015.	News release: 18 October 2017, Baffinland Iron Mines concludes record-setting shipping season
<a href="#">Hope Bay</a> (Mine began commercial production May 15, 2017)	<a href="#">TMAC Resources Inc.</a>	Gold	Gold mine 130 km S of Cambridge Bay. TMAC's property covers the majority of the Hope Bay Greenstone Belt. Workforce in 2016: 335 First gold poured in first quarter 2017 and achieved commercial production in second quarter 2017.	News release, 16 October 2017, TMAC provides third quarter operations update
<a href="#">Meliadine</a>	<a href="#">Agnico Eagle Mines Ltd.</a>	Gold	Proposed open pit and underground gold mine, 25 km NE of Rankin Inlet. Estimated construction jobs: 1,000 Estimated mine jobs: 700 IIBA signed June 2015. Initial capital cost estimate \$911m; initial production life of 9 years. On February 15, 2017: Agnico Eagle approved Meliadine and Amaruq projects for development with production beginning in 2019.	News Release, July 26, 2017: Agnico Eagle Reports Second Quarter 2017 Results
<a href="#">Back River</a>	<a href="#">Sabina Gold &amp; Silver Corp.</a>	Gold	Approximately 60KM from Hackett River; adjacent to the Wishbone Greenstone belt. Consists of George and Goose Lake deposits and holds significant gold resources. Estimated construction jobs: 1,600 Estimated mine jobs: 900 Sabina's Feasibility Study on its 100% owned Back River Gold Project presents a project designed on a fit-for purpose basis, with the potential to produce ~200,000 ounces a year for ~11 years with a rapid payback of	News release, 19 October 2017, Sabina increases continuity and expands Vault gold zone potential  News release, 19 October 2017, Sabina & KIA announce terms for Back River gold project

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			2.9 years (at a US\$1,150 gold price and a 0.80 exchange rate). Initial CAPEX of \$415 million.	
<a href="#">Kiggavik</a>	<a href="#">AREVA Resources Canada Inc.</a>	Uranium	Proposed uranium mine 80 km W of Baker Lake. Estimated Construction jobs: 750 Estimated mine jobs: 600	July 25, 2016, Federal Minister of Indigenous and Northern Affairs Canada, on behalf of responsible ministers for authorizing whether the Kiggavik Project should or should not proceed, accept NIRB's determination that the Project should not proceed at this time.
<a href="#">Izok Corridor Project (with High Lake &amp; Hood River deposits)</a>	<a href="#">MMG Ltd.</a>	Copper, Zinc, Gold, Silver	High Lake is 1,710-hectare, copper-zinc-silver-gold property, 190 km ESE of Kugluktuk. Izok is high-grade zinc-copper-lead-silver deposit, 255 km SW of Kugluktuk. Estimated construction jobs: 1,140 Estimated mine jobs: 710	MMG examining alternative designs to reduce costs, add value, and improve economic viability of the project. Company stated publicly that project needs Grays Bay Road and Port project infrastructure to become a mine.
<a href="#">Chidliak</a>	<a href="#">Peregrine Diamonds Ltd.</a>	Diamonds	Located 120 kilometres NE of Iqaluit, the capital of Nunavut, and 180 km S of Pangnirtung. 71 kimberlites discovered to date with 8 potentially economic on 413,000-hectare site. Positive Phase One Preliminary Economic Assessment in July 2016 highlights: <ul style="list-style-type: none"> <li>• After-tax payback period of 2 years,</li> <li>• LOM of 10 years.</li> <li>• Commercial production 2021 with 3-year construction schedule.</li> <li>• LOM average production rate of 1.2 million carats per annum, peaking at 1.8 million carats/year.</li> <li>• LOM average head grade 1.67 ct/T</li> <li>• Estimated pre-production capital of approximately C\$434.9 million, includes construction of 160-kilometre, all-weather road to connect to Iqaluit.</li> <li>• 2,000 tonnes per day.</li> <li>• LOM Opex of C\$94.4/tonne of C\$57.7/carat.</li> </ul>	News release, 21 September 2017, Peregrine Diamonds successfully completes program at Chidliak
<a href="#">Angilik</a>	<a href="#">Kivalliq Energy Corp.</a>	Uranium	340,268-acre property located SW of Baker Lake; Hosts the high-grade Lac 50 Trend deposit	News Release, 25 October 2017, Kivalliq Energy Corporation identifies new gold, confirms gold zones
<a href="#">Qilalugak</a>	<a href="#">North Arrow Minerals / Stornoway Diamonds</a>	Diamonds	7 km from tidewater; 9 km from Repulse Bay, Melville Peninsula; 7,143 hectares of contiguous mineral claims. Largest kimberlite in Nunavut.	News release, 24 October 2017, Stornoway announces third quarter release date  News release, 23 October 2017, North Arrow commences diamond processing, Naujaat project  News release, 16 October 2017, North Arrow Discovers diamonds at the Mel Project, Nunavut  New release, 10 October 2017, Stornoway announces third quarter production and sales results
<a href="#">Committee Bay Gold Project</a>	<a href="#">Auryn Resources (purchased North Country Gold Corp.)</a>	Gold	Committee Gold Bay Project Highlights: <ul style="list-style-type: none"> <li>• High grade gold endowment</li> <li>• Existing exploration infrastructure</li> <li>• 217,600 hectares with district scale discovery opportunities</li> </ul>	News release, 19 October 2017, Auryn expands mineralized system at Inuk, provides portfolio update

Project maps

