

MINING NORTH

AN OFFICIAL PUBLICATION OF

MINES • 2013

A GLITTERING FUTURE

The North offers a world of opportunity – to business and communities





Ventures West Going the Distance Fueling the Future

FUEL • GASOLINE • AVIATION FUELS • LUBRICANTS • GLYCOL • WASTE OILS • AMMONIUM NITRATE

Ventures West Transport LP is one of the largest bulk fuel and industrial liquids carriers in Western Canada. We bring a large fleet of tankers and power units, an impeccable record for safety and on-time delivery, a well-established trucking network throughout Western Canada, and nearly 40 years' experience to our Northern operations.



Ventures West Transportation LP
is 70% aboriginally owned



VENTURES WEST
TRANSPORT LP

780-998-7243 ext 302

www.ventureswesttransport.ca



glennbauer@ventureswest.net



In the North contact Dale Wheaton P: 867-920-7288 (Ext 239) Fax: 867-920-7328 dwheaton@tichologistics.com

Board of Directors (2013-2014)

PRESIDENT

Cathie Bolstad De Beers Group of Companies
300-5102 49th St. Yellowknife NT X1A 1P8
P: 867-766-7325 F: 867-766-7347
cathie.bolstad@debeerscanada.com

VICE-PRESIDENT NWT

Robin Goad Fortune Minerals Limited
1600-148 Fullarton St London ON N6A 5P3
P: 519-858-8188 F: 519-858-8155
rgoad@fortuneminerals.com

VICE-PRESIDENT NUNAVUT

Larry Connell Agnico-Eagle Mines Ltd.
400-145 King St. Toronto ON M5C 2Y7
P: 416-669-8901 F: 416-367-4681
lconnell@agnico-eagle.com

SECRETARY/TREASURER

Gary Vivian Aurora Geosciences Ltd.
3506 McDonald Drive Yellowknife NT X1A 2H1
P: 867-920-2729 F: 867-820-2739
gary.vivian@aurorageosciences.com

VICE-PRESIDENT AT LARGE

Barry McCallum AREVA Resources Canada Inc.
817 45 St W, PO Box 9204 Saskatoon, SK S7K 3X5
P: 306-343-4596 C: 306-262-4636 F: 306-343-4044
barry.mccallum@areva.ca

IMMEDIATE PAST PRESIDENT

Pamela Strand
207-11633 105 Ave Edmonton AB T5H 0L9
P: 780-428-3465 ext 223 F: 780-428-3476
pamelastrand1@gmail.com

NWT DIRECTORS

Don Bubbar Avalon Rare Metals Inc.
1901-130 Adelaide St W Toronto ON M5H 3P5
P: 416-364-4938 F: 416-364-5162
dsbubar@avalonraremetals.com

Lane Dewar Cassidy Point Exploration Services
PO Box 1059 Yellowknife NT X1A 2N8
P: 867-873-1871 lanedewar@lincsat.com

Chris Hrkac GGL Resources Corp.
906-675 West Hastings St Vancouver BC V6B 1N2
P: 604-688-0546 F: 604-608-9887
chris.hrkac@gglresourcescorp.com

John Kearney Canadian Zinc Corporation
700-220 Bay Street Toronto ON M5J 2W4
P: 416-362-6686 F: 416-368-5344
kearney@canadianzinc.com

Peter Larsen Sandvik Mining & Construction
100 Magill Street Lively ON P3Y 1K7
P: 705-692-7325 C: 705-492-8998
peter.larsen@sandvik.com

Chantal Lavoie Dominion Diamond Ekati Corporation
1102-4920 52 St Yellowknife NT X1A 3T1
P: 867-766-6909 F: 867-669-9293
Chantal.Lavoie@Ekati.dccorp.ca

Jason McKenzie North American Tungsten Corp. Ltd.
1640-1188 West Georgia St Vancouver BC V6E 4A2
P: 604-684-5300 F: 604-684-2992
jmckenzie@natcl.ca

Corey McLachlan Diavik Diamond Mine
PO Box 2498 Yellowknife NT X1A 2P8
P: 867-669-6508 F: 867-669-9058
Corey.McLachlan@riotinto.com

Brent Murphy Seabridge Gold Inc.
400-106 Front Street St E Toronto ON M5A 1E3
P: 867-445-5553 F: 416-367-2711
b.murphy@theedge.ca

Hugh Wilson Tyhee Gold Corp.
339 Hunters Run Edmonton AB T6R 2N9
P: 780-433-8336 F: 780-988-2186
hugh@tyhee.com

NUNAVUT DIRECTORS

Alex Buchan TMAC Resources Inc.
Box 1203 Cambridge Bay NU X0B 0C0
P: 604-983-2385 C: 867-444-0702
F: 867-983-2386 alex.buchan@newmont.com

Brooke Clements Peregrine Diamonds Ltd.
201-1250 Homer St Vancouver BC V6B 2T6
P: 604-408-8880 F: 604-408-8881
brooke@pdiam.com

Darcy Hirsekorn Cameco Corporation
2121 11th Street West Saskatoon, SK S7M 1J3
P: 306-956-6362 darcy_hirsekorn@cameco.com

John Laitin Sabina Gold & Silver Corp.
202-930 West 1st St North Vancouver BC V7P 3N4
P: 604-998-4175 F: 604-998-1051
jlaitin@sabinagoldsilver.com

Denise Lockett Lockett Consultation Services Inc.
1205 Adams Rd, RR 1 Bowen Island BC V0N 1G0
P: 604-947-2587 F: 604-340-4756
lockett@telus.net

Greg Missal Baffinland Iron Mines Corporation
1016-120 Adelaide St W Toronto ON M5H 1T1
P: 416-364-8820 F: 416-364-0193
greg.missal@baffinland.com

Brad Ryder Xstrata Zinc
7050 - 100 King Street W Toronto ON M5X 1E3
P: 416-775-1400 F: 416-775-1493
bryder@xstratazinc.ca

Sahba Safavi MMG Limited
Level 26, 1177 West Hastings St. Vancouver BC V6E 2K3
P: 778-373-5600 F: 778-373-5598
sahba.safavi@mmg.com

Bernie Swarbrick Advanced Exploration Inc.
2828-401 Bay Street Toronto ON M5A 2Y4
P: 416-203-0057 F: 416-869-9900
bernie@advanced-exploration.com



MINING NORTH

VOLUME 17 • NOVEMBER 2013

COURTESY DE BEERS GROUP OF COMPANIES/BILL BRADEN

President's Message

The past year has been challenging for the minerals industry. The outlook calls for a brighter future. **By Cathie Bolstad P4**

DEPARTMENTS

News Portal

Northern mining news — from an eye-popping diamond drill sample, to green power and online staking. **P6**

Profiles: Faces in Mining

The Northern mining industry depends on the efforts of individuals doing many different kinds of work. Meet seven of them. **P14**

Field Notes

A snapshot of Northern mining's past, present — and potential future. **P62**

COLUMNS

NWT Exploration Update

In the big picture, mining and exploration projects showed resilience in the face of soft economic conditions. **P20**

NUNAVUT Exploration Update

Exploration was down in 2013, but Nunavut remained a destination for resource investment. **P24**

ON THE COVER: Vicky Peloquin, a human resources trainee at Agnico Eagle Mines Ltd.'s Meadowbank mine, poses for the camera with a gold brick. Photo Angela Gzowski/Up Here Publishing

FEATURES

Potential: Unlimited

The NWT and Nunavut are home to world-class mineral deposits. Developing them is a challenge — but those challenges are being met. **P28**

Adding Investment Certainty

Complex regulatory systems have been barriers to investment in the past. Here's the good news: The process is becoming faster, clearer and more efficient. **P34**

Building Success One Person at a Time

Mines need workers. Northerners want jobs. Together, they are creating opportunities and building capacity across the territories. **P41**

Open for Business

As mineral development has grown in the North, so have the skills of the Northern mine-services sector. If you need it, they've probably got it. **P48**

Mining North is published annually for:

NWT and Nunavut Chamber of Mines
P.O. Box 2818, Yellowknife, NT X1A 2R1
Tel: 867-873-5281 Fax: 780-669-5681

Published for the NWT/NU Chamber of Mines by:

Up Here Publishing

Box 1350, Yellowknife, NT X1A 2N9
Tel: 867-766-6710 Fax: 867-873-2844

Publisher: Tom Hoefler, Executive Director
NWT and Nunavut Chamber of Mines

Return undeliverable copies (covers only) to:
Box 1350, Yellowknife, NT X1A 2N9

ISSN No. 1193-8927. Printed in Canada
Registered with the National Library of Canada.



Tom Hoefler
Executive Director

Cheryl Wourms
Office manager

Elizabeth Kingstom
General Manager, NU

Managing editor: Cooper Langford

Designer: John Pekelsky

Photo Researcher: Angela Gzowski

Advertising Manager: Kathy Gray

Advertising designer: Beth Cowey





DE BEERS GROUP OF COMPANIES/BILL BRADEN

NWT and Nunavut are proving to be resilient in the face of the headwinds, with several projects expected to come online over the next few years.

We've Got a Story to Tell

Let me begin by welcoming you to the 2013 edition of *Mining North* magazine. I always enjoy this project as it gives the NWT & Nunavut Chamber of Mines an opportunity to tell our stories and introduce readers to the people, communities, companies and ideas that make our Northern minerals industry such a dynamic and exciting one.

Looking back over 2013, I have to admit this has been a challenging year. Global economic conditions have made it difficult for exploration companies to raise financing, while soft commodity prices have put pressure on active producers. The numbers don't paint the prettiest picture, but I'm optimistic. Markets will strengthen as business cycles turn. More importantly, the NWT and Nunavut are proving to be resilient in the face of the headwinds, with several projects expected to come online over the next few years. To my mind, that proves we possess the right stuff.

Better yet, the North has a bigger story to tell than one of current investor sentiment. That story centres on significant developments on numerous fronts that, when combined, point to a positive future.

Some of those developments deal with our improving regulatory environment. The new Nunavut Project Planning and Assessment Act and coming amendments to the Mackenzie Valley Resource Management Act, for example, will help streamline the North's regulatory systems and make them more efficient. We are also seeing important steps being taken by Aboriginal governments under land claims, such as the creation of land-use plans in the Tlicho and Sahtu regions. And of course, there is the coming devolution of power over natural resources in the NWT. This is a major step forward and I believe it will contribute to the positive momentum that's building with Northern efforts to improve investment certainty.

The NWT and Nunavut governments — in partnership with industry and Aboriginal governments — are also making strides in the areas of training and business development. More than 2,000 Northerners today work in the minerals sector, either for mines themselves or with

mining-related companies. Ongoing training programs, supported from the community level right up to the federal government — and with strong industry support — are helping ensure Northerners are ready to meet the opportunities that lie ahead. Similarly, a growing community of entrepreneurs has emerged in both territories, thanks to a combination of initiative on the part of business owners and strong support from industry to foster Northern business development. If you're a mining company in the North today, chances are we can provide what you need.

Looking ahead, I'd also like to draw attention to efforts in the NWT to develop and implement a full-fledged mineral development strategy. As I mentioned earlier, economic conditions at this time are not especially favourable for the mining industry. That gives us all the more reason to be preparing for the future. After all, mines are not easy to find and they do not last forever. The NWT Mineral Development Strategy, which has already been the subject of considerable work and consultation, is a key component of addressing this. Thus, it is critical to the economic future of the North that we have a good plan to take full advantage of the opportunities the minerals industry presents — from grassroots exploration through to mining and then closure and reclamation. The Chamber of Mines is a proud partner in the development of this strategy, and we are equally supportive of developments to grow our industry in Nunavut.

Many of the ideas I've touched on here are dealt with in more detail in the stories that follow, and I encourage you to spend some time with them. As president of the NWT & Nunavut Chamber of Mines, I can tell you I'm proud of the success our industry has achieved, just as I'm proud of the support it has earned from the community level to the highest offices of our governments — even from Prime Minister Stephen Harper himself. You'll learn more about that in this issue of *Mining North*, and it is my pleasure to introduce you to it.

Cathie Bolstad
President

THE PEAK OF POSSIBILITIES



867 873 4464

www.FlySummitAir.com

SUMMIT AIR



**SUMMIT
HELICOPTERS**



A MEMBER OF THE LEDCOR GROUP OF COMPANIES

A Fine Start

A Kennedy Diamonds Inc. drill program comes up eye-popping results

Every now and again, an exploration project produces a story that captures the imagination. Some become the stuff of legend. Like the image of diamond pioneers Chuck Fipke and Stu Blusson as lone-wolf eccentrics before discovering the kimberlite zone that would become Ekati, Canada's first diamond mine. Or that of Eira Thomas and her team cracking open a core sample to find a two-carat diamond embedded within. The site of that discovery is now part of the Diavik diamond mine.

Today, Kennedy Diamonds Inc. president and CEO **Patrick Evans** may be on the cusp of adding another chapter to the Northern diamond story. In August, his company released spectacular results from a 5,000-metre winter drill program on the Kelvin and Faraday kimberlites at its Kennady North project, 280 kilometres northeast of Yellowknife. The 1.1-tonne sample graded at 8.44 carats per tonne, a result that Evans described as "exceptional," adding that the distribution of diamonds in the sample suggests "the potential to host a high grade diamond resource."

Highlights from the sample included a 2.48-carat off-white transparent diamond, as well as a 0.9-carat diamond and .75-carat diamond, both of which are off-white and transparent. Approximately 65 per cent of recovered diamonds were also classified as white and transparent, with either no inclusions or only minor inclusions. To sweeten the result, three per cent of the diamonds were classified as yellow and transparent, with either no inclusions or only minor inclusions.

Of course, the results released this summer are from the early stages of exploration. Kennady Diamonds is continuing to drill at the site. Whether ongoing and future work will live up to these first results remains to be seen. Still, they make for an exciting place to start.



KEEP DIGGING: Patrick Evans stops for a photograph at Kennedy Diamond's Kennady North project. The site is home to the Kelvin and Faraday pipes, which are currently the subject of exploration drilling. Courtesy Kennedy Diamonds Inc. billbradenphoto

Fast Company

Det'on Cho makes the grade with *Profit* magazine



Canada's major business magazines are fond of their rankings — top stocks, best CEOs, largest companies, and so on. As an economically nascent region, the North generally gets overlooked in such articles.



ROY ERASMUS
CHIEF EXECUTIVE OFFICER
DET'ON CHO

But things were a little different this year. When *Profit* magazine published its Profit500 annual ranking of Canada's fastest-growing companies, there was a little surprise for the Northern business community. There at No. 276 was Det'on Cho Corp., the economic development arm of the Yellowknives Dene First Nation. With more than \$82 million in revenue during 2012, *Profit* noted that the company had posted a 210 per cent growth rate over the past five years. The magazine reported that Det'on Cho had also grown its staffing levels more than 10-fold, to 311 people, during the same period.

"For a few years now, we figured we were one of the fastest growing companies in the North," Det'on Cho chief executive Roy Erasmus said after the rankings were released. "We were pleasantly surprised to find out we are one of the fastest growing in Canada."

Det'on Cho launched 25 years ago with a \$15,000 grant. With the arrival of diamond mining in the NWT, it began to focus on joint ventures with southern companies to build its own capacity and expertise. Today, it has 16 subsidiary firms — several of them wholly-owned — and a strong focus on mining and camp catering services, construction and logistics.



TAKING FLIGHT Jet charter service to Baffinland Iron Mines' Mary River project will begin in Kitchener-Waterloo. It will stop in Iqaluit then fly on to the project site, 1,000 kilometres north of Iqaluit.

COURTESY BAFFINLAND

Prepare for Landing

Baffinland Iron Mines launches weekly charter service to Mary River

Baffinland Iron Mines celebrated a milestone in the development of its Mary River project on Sept. 25: the landing of a charter jet at the site, the first in what will be weekly cargo and passenger flights between Kitchener-Waterloo and the project, located 1,000 kilometres north of Iqaluit.

"The ability to move passengers and large volumes of cargo quickly into the site is a big step for us," Michael Anderson, Baffinland's vice-president of operations, said of the new flights. "For employees, the ability to return them as quickly as possible to their homes and families safe after two weeks working on site is very important."

The new service is the result of a partnership between Sarvaq Logistics — an Inuit-owned and staffed company based in Iqaluit — and the Quebec-based charter airline, Nolinor Aviation. Leaving Kitchener-Waterloo in the mornings, with capacity for up to 119 passengers, Nolinor's 737 jets will land in Iqaluit. There, the Sarvaq team will service and refuel the aircraft before completing the flight to Mary River.

Baffinland began mobilizing for construction at Mary River earlier this year, following the project's approval by the Nunavut Impact

Review Board. (The company received its water licence this past July.) About two weeks before the inaugural flight landed, Baffinland's board gave the project the formal go-ahead. Construction is scheduled to continue through 2013 and 2014, with ore production anticipated in 2015.

Online Staking in Nunavut

New regulations poised to lower barriers to exploration

Mineral exploration in Nunavut is about to become easier for those involved in the industry: under proposed new regulations, companies and prospectors will be able to use on-line map selection for staking mineral claims — helping offset the costs and challenges of working in the harsh Arctic environment.

Draft versions of the regulations to support online map selection are expected in the spring or early summer of 2014, with the goal of implementing the system by the end of March 2015. On the information technology side, Aboriginal Affairs and Northern Development Canada hopes to roll out an internal version of the system in April 2014, coinciding with the devolution of resource authority to the NWT.

"All of a sudden, the opportunity came around on the mining side, an opportunity that had not been there since the Diavik exploration started in 1991."

Robert Gannicott, CEO of Dominion Diamonds, a partner in Diavik mine and key figure in the development of the Canadian diamond industry, on his company's decision to buy BHP Billiton's 80 percent share of the Ekati Diamond Mine.



IN THE WIND Power costs are a major budget item for mining projects in the NWT and Nunavut. Diesel fuel is a major source for generating electricity. Diavik's wind farm project, however, proves that alternatives can offset diesel consumption — and lessen a project's environmental footprint.

In October, the project was honoured by the Canadian Wind Energy Association with its Group Leadership Award, presented annually to a government, company or non-profit group for its contribution to the development of wind energy in Canada.

"It's an honour to have received this award," Diavik president Marc Cameron said, following the association's announcement. "Numerous individuals played a role in this project and everyone at Diavik shares in this recognition... Its success demonstrates our commitment to environmental protection and shows wind power is a viable power source in remote cold climates."

The Diavik wind farm project was completed in September of 2013, coming in at total cost of \$31 million. Each of its four turbines stands about 100 metres tall. The design of the turbines — constructed by the German firm, Enercon GmbH — had to be adapted so that they would work in the mines' Arctic environment. They were trucked to the mine site via winter road.

Air Power

Diavik's wind farm has been operational for a year now — and it's good

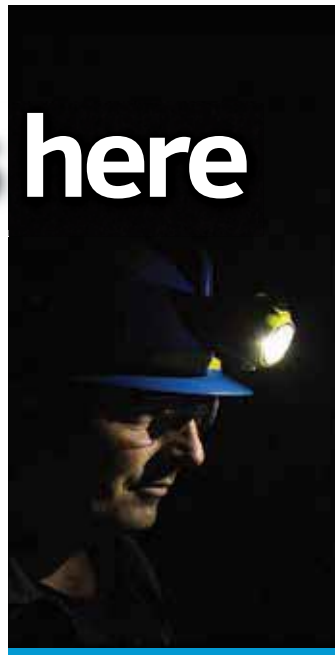
Just over a year ago, Diavik Diamond Mines brought its wind farm online. Ever since then, the four-turbine, 9.2-megawatt project — the first of its kind in the Northwest Territories — has been supplying electricity to the site, lo-

cated 300 kilometres northeast of Yellowknife.

In its first year of operation, the wind farm generated about seven per cent of the mine's electricity on average, peaking at 58 per cent, with wind-generated electricity reducing diesel fuel consumption by three million litres. During its first eight months of operation, the farm also reduced Diavik's carbon-dioxide emissions by more than five tonnes.

Rio Tinto

My career is here



Looking to take your career in an amazing direction?

At the Diavik Diamond Mine in Canada's Northwest Territories, career opportunities go above and beyond mining.

- Proven underground mine
- Award winning wind project
- World-class diamonds
- Bright future

Diavik Diamond Mines Inc. — for the third year in a row, a top employer at the top of the world.



diavik.ca



Safety Firsts

Who came out on top at the 2013 WSCC Mine Rescue Competition?

Mine rescue teams from the NWT, Nunavut and Yukon met in Yellowknife on the weekend of June 15 for the Workers' Safety and Compensation Commission's annual Mine Rescue Competition. How did they fare? We've got the results right here.

First Aid:

De Beers, Snap Lake Diamond Mine

Surface Practical Bench:

Dominion Diamond, Ekati Diamond Mine

Fire Fighting:

Dominion Diamond, Ekati Diamond Mine

Rope Rescue:

Agnico Eagle Mines, Meadowbank Mine

Surface Written Test:

Dominion Diamond, Ekati Diamond Mine

Underground Written Test:

Dominion Diamond, Ekati Diamond Mine

Surface Smoke:

Agnico Eagle Mines, Meadowbank Mine

IN THE WORDS of the Workers' Safety and Compensation Commission, "emergency situations in a mine require communication, astute decision making, skilled action and rescue equipment." Mine rescue teams get to show their skills at the WSCC's annual Mine Rescue Competition.



COURTESY DIAVIK DIAMOND MINE

Underground Smoke:

Dominion Diamond, Ekati Diamond Mine

Underground Bench/Field Test:

Rio Tinto, Diavik Diamond Mine

Surface Obstacle/Extraction:

Dominion Diamond, Ekati Diamond Mine

Underground Obstacle:

Rio Tinto, Diavik Diamond Mine

Overall Surface Winner:

Dominion Diamond, Ekati Diamond Mine

Overall Underground Winner:

Dominion Diamond, Ekati Diamond Mine

Thanks to all the sponsors: Rio Tinto, Dominion Diamond, Levitt-Safety, Nuna Logistics, Agnico Eagle Mines, Draeger Canada, De Beers Group of Companies and Workers' Safety and Compensation Committee.



Nuna group of companies
Dependable Project Development



We're at work on top of your world

All-weather Roads & Runways
Contract Mining
Dams & Frozen Core Dams
Dikes

Earthworks & Site Development
Exploration Support
Ice Roads & Runways
Large Diameter Drilling

Mine Reclamation – Care & Maintenance
Remote Infrastructure Planning
Site Services & Crushing
Training – Heavy Equipment – Field & Simulator

OPERATIONS & HUMAN RESOURCES OFFICE: EDMONTON 1.877.499.9114

EXECUTIVE OFFICE: VANCOUVER 1.888.734.5773

VANCOUVER BC | EDMONTON AB | YELLOWKNIFE NT | RANKIN INLET NU | PRINCE ALBERT SK | THUNDER BAY ON

www.nunalogistics.com

DEMCo? You'll Be Hearing About Them

New company brings First Nations into exploration

There's a new player on the exploration block — and this one has a story to tell that's about more than rocks. The company? Denendeh Exploration and Mining Co. — aka DEMCo — which is 100 percent owned by the Dene people of the NWT through Denendeh Investment Inc.

DEMCo, founded to explore, develop and operate mines, has already acquired 13 mineral claims and two leases at the old Terra mining camp near the mouth of the Camsell River at Great Bear Lake. The company holds a further 13 mineral claims that cover eight known kimberlite pipes and promising geophysical anomalies, and has claims on a gold-iron formation about 100 kilometres north-west of Yellowknife.

Based in Yellowknife, DEMCo is led by Darrell Beaulieu, CEO of Denendeh Development Corp., DDI's parent. It's first employee is Trevor Teed, a well-known member of the Northern prospecting community.

In the Winners' Circle

Nunavut honours its best in mining for 2013

More than 500 delegates gathered in Iqaluit in early April for the 2013 Nunavut Mining Symposium. Over three days, they were treated to dozens of presentations on subjects including exploration overviews, project updates, regulatory processes, geoscience, sustainable development and community relations.

A highlight of the program, though, was the presentation of the Nunavut Mining Awards, sponsored by Canadian North. Meet the winners here.

The Mike Hine Award: Named in memory of Mike Hine, a former manager of Qikiqtaaluk Corp. and former Chamber board member, who died in 2009, the award honours an individual who has made a significant contribution to mining in Nunavut, shown outstanding progress as a Nunavut employee in the mining industry, or as a student at school, engaged with the mining industry in a notable way.

The 2013 award went to Robert Connelly, a Rankin Inlet resident who has been involved with mining in Nunavut at various levels. In 1996, he served on the committee that organized the very first Nunavut Mining Symposium. As Rankin Inlet's manager of community economic development, he has also played a key role in the development of Nunavut businesses that serve the mining industry.

Murray Pyke Award: Murray Pyke was a well-known figure in Canadian and Northern mining circles, both as an executive and director in corporate offices and as an explorer in the field. The award that carries his name recognizes the contribution an exploration, mining or services company has made to economic or social development in Nunavut.

The winner of this year's award was 1984 Nunavut, a joint venture company that is a leader in the field of site-specific staffing and safety services to the resource industry. Hiring Inuit employees and working continuously to build the knowledge and technical ability of their workforce are hallmarks of 1984 Nunavut's approach to work in the North. 1984 Nunavut president Navalik Tologanak



Serving Nunavut + Northwest Territories

Architecture

Civil & Structural Engineering

Project Management

We stack at the very top.
24 years **strong**.

867-873-3266 • Yellowknife

867-979-0473 • Iqaluit



Ingenuity + Results

GUY ARCHITECTS

ARCTIC SEALIFT YOU CAN DEPEND ON

“RELIABLE”

“OUTSTANDING CUSTOMER SERVICE”

“★★★★★”

“FLEXIBLE SCHEDULES AND EXPERT PLANNING”

“INUIT OWNERSHIP AND EMPLOYMENT”



Succeed with **NEAS**

Reserve online www.NEAS.ca

Reserve now **1-877-225-6327**



RELIABLE

RELIABLE SERVICES ACROSS NUNAVIK AND NUNAVUT,
INCLUDING BAFFIN, KWALLIQ, AND KITIKMEOT COMMUNITIES



YOUR NORTHERN GEOSYNTHETIC SPECIALIST

www.aatechnical.ca



specializing in Cold Weather Installations

- Textured Geomembranes – Geotextiles
- Factory direct HDPE, LLDPE, Bituminous (BGM), GCL's, Geotextiles
 - Certified welding technicians
- SAFE – QUALITY – PRODUCTION



Ph: 867-669-7022 Fax: 867-669-7077

327 Old Airport Road, Box 2922 Yellowknife, NT X1A 2R2
al@aatechnical.ca bertha@aatechnical.ca

INNOVATIVE
 engineering services
 for the
 northern mining sector

Follow us:
williamsengineering.com
 1.800.263.2393

WE WILLIAMS
 ENGINEERING
CANADA
 Engage. Innovate. Inspire.

and chief operating officer Jennifer Tompson accepted the award on behalf of the company.

The Government/Organization Award: Government agencies and other organizations are often overlooked partners in the development of Northern resources. But their work — and the work of their employees — is important to the economic development of the region. This year, the Nunavut Mining Awards recognized the contributions of the Workers' Safety and Compensation Commission for its role in ensuring the safe operation of Northern exploration and mining camps. Martin van Rooy, from WSCC's Iqaluit office, was singled out for special recognition based on the guidance he has provided for companies working in the North to ensure that safety is job No. 1.

... And More Awards

Northerners earn recognition for leadership and corporate citizenship

Long-time Yellowknife Hendrik Falck was honoured by the Canadian Institute of Mining this past May with the J.C. Sproule Memorial Plaque, an award that recognizes individual contributions to the mining sector.

As a district geologist with Aboriginal Affairs and Northern Development Canada, Falck tracks exploration work in the NWT, following up on companies through press releases, research and visits to active sites. This on-the-ground expertise makes him a valuable resource for companies considering work in the region. But Falck's contributions don't stop there. He is also known for geological research that has helped other geologists and mining companies in pursuit of their own goals. In addition, Falck has a long record of volunteer work within the industry and associated professional organizations.

A member of the NWT and Nunavut Chamber of Mines was also recognized this year by *Corporate Knights* magazine in its 2013 ranking of Canada's Best 50 Corporate Citizens. Agnico Eagle Mines Ltd. placed 39th in the field, based on analysis of Canadian companies with revenue of \$2 billion or more and at least 2,000 employees. The ranking measures the firms based on their track records for energy and carbon management, water conservation, diversity in leadership, safety, innovation and fair CEO compensation. Agnico Eagle placement came in ahead of well-known companies such as Loblaw Co., TMX Group and Potash Corp. of Saskatchewan. First place went to Vancouver City Savings Credit Union.

Total Professional Guard Services

TRAINING • STAFFING • JOINT VENTURES



- Ice road security
- Mine site security
- Remote site security
- Background checks & fingerprinting
- Due diligence investigations

P: 867.920.2547

F: 867.873.3059

infor@scarletsecurity.ca

www.scarletsecurity.ca



ORBITING THE NORTH

At a Global level Aurora Telenet has proven expertise in engineering, installation and integration solutions for all data communications networks for any requirement.

With over 13 years of servicing the far north from Grass Roots through Construction phase to building full ground and Satellite based infrastructure to our production mines Aurora is the go to solution provider for the mining community.

Our networking solutions offer flexible platforms. Aurora's end-to-end solutions are backed by world-class implementation, training, and technical support.



Vancouver Office:

Ph: 604-765-7600

TF: 1-866-962-8767

INFO@AURORATELE.NET

Alberta Office:

Ph: 1 (403) 287-5019

TF: 1-866-962-8767

WWW.AURORATELE.NET

Mining: It's about the people



Jody Ningeocheak

Meadowbank Gold Mine

Like most communities in Nunavut, Coral Harbour is a place where ATVs, boats and snowmobiles are the mainstays when it comes to getting around. Cars and trucks? Not so much. It's perhaps surprising, then, the community has produced a notable driver. She's Jody Ningeocheak, who has spent the last two years working at Agnico Eagle Mine's Meadowbank gold mine as a haul-truck operator. And no one was more surprised than Jody that her career would take such a turn.

"I never knew I would become a haul-truck driver, ever," says Jody, who initially thought of joining the RCMP after high school. That changed when she was accepted through a local

mine-training society to go to Morrisburg, Ont., for a six-week heavy-equipment operators program. It was an exciting course — "like a big playground," Jody says of the hands-on training.

Within a few months of completing the program, she was hired at Meadowbank, where she has been working ever since. During her two years at the mine, she has learned to operate other

mine's emergency-response team, a responsibility where she has previous experience, having been a volunteer junior firefighter in Coral Harbour.

Today, Jody says she is very happy with the turn her career has taken and recommends other people look at the mining industry when thinking about careers. She's especially excited by the opportunities the industry offers

"I never knew I would become a haul-truck driver, ever. I want to be in the mining business for the rest of my life." Jody Ningeocheak

equipment and is working towards a long-term goal of becoming certified as a pit boss — the person who oversees all the open pit operators. In addition, she is a member of the

to learn new skills and advance, and she expects to stay in the industry. "I want to be in the mining business for the rest of my life," Jody says.



Joseph Bond

Snap Lake Diamond Mine

Joseph Bond was no stranger to the resource industry when he joined De Beers Group of Companies at its Snap Mine project a few years back. He had already spent time working in northern Alberta's oil patch and he was familiar with the rhythms of a career based around rotations in and out of camp.

Even so, he found a different world at Snap Lake: this time, he would be working underground. "It's been a new experience, that's for sure," says Joe, whose job involves mine services, which means looking after the piping, ventilation, pumps and other underground infrastructure. "It's something you have to get used to."

Joe has adjusted to the rigours of underground work, however. He's now been at Canada's first completely underground diamond mine for about two years and plans to stay. In fact, the Fort Providence resident's move from the oil patch to the mining world couldn't have come at a better time.

A couple of years back, Joe learned that his partner was pregnant. He was between seasons at his work in northern Alberta, and decided it might be a good time to look for some-

Connected to the Mining industry



We connect your workforce in Canada's challenging North

For more than 65 years we've been on the leading edge in Canada's northern frontier. Providing Cellular, IP-Voice, Internet and Enterprise solutions through Satellite and Microwave connections across the three territories.

To learn more about our in-the-field-business solutions call **1-800-661-0790** or email **sales@nwtel.ca**.



nwtel.ca/Industry



Northwestel
Bringing us together.

thing new. So he enrolled in a NWT Mine Training Society program and was hired at Snap Lake soon after that.

Today, he especially enjoys his fly-in rotations, which give him time off to spend with his two-year-old daughter. “To watch her grow for two weeks at home is a very good thing to see,” Joe says. He’s also looking forward to the opportunities he finds at work. With a couple of years experience under his belt working underground, Joe says he’s eager to explore new jobs and responsibilities at Snap Lake “and find out what mining is really all about.”



Tim Harris

Gahcho Kué Diamond Project

When Tim and Alana Harris moved far from home and family on Prince Edward Island in 2012, the newlyweds had more than job prospects on their minds. “A lot of young people are moving north and looking for adventure. We wanted to take a chance and do something we’d remember,” says Tim, 31, who was lured here by De Beers to be the manager of business development on the Gahcho Kué Project.

Alana readily found work as a nurse. Tim, meanwhile, has been busy with his new assignment: helping Gahcho Kué (a joint venture between De Beers Group of Companies and Mountain Province Diamonds) meet a minimum expenditure of 30 percent Northern sourcing for construction procurement, and 60 percent for operations for Gahcho Kué. “It means working with the business community to show them the opportunities that exist, and let them know what it takes to do business with us,” says Tim, who holds an MBA from St. Mary’s University in Halifax.

Tim has the advantage of successful business alliances already proven from De Beers’ Snap Lake mine, but notes that the Gahcho Kué Project will be looking for keen competition among its suppliers and contractors. “It encourages innovation and helps companies create new value for their customers,” he says. (Suppliers and contractors interested in meeting Tim and other members of the materials management team can find them at De Beers’ annual Business Breakfast during the Geoscience Forum.)

Meantime, Tim and Alana are exploring the North outside of work. They have met many like-minded people around Yellowknife. And Tim, an avid golfer, is adjusting to the sandy links at the Yellowknife Golf Club. That said, he’s a big fan of rolling grass fairways at the Hay River course.



Chris Daniels

NICO Base Metal Project

Growing up in Whati, Chris Daniels was fascinated by the large trucks that delivered supplies to the community, wondering what it would be like to operate them. He got his chance when he was a little older and entered the field.

His career eventually led him to Fortune Minerals’ NICO gold-cobalt-bismuth-copper project last summer, where Chris served as site manager — a job that kept him in close contact with the machines that awed him as a kid, and one that he takes pride in. “With the amount of stuff we did at Fortune, I’d say we have the cleanest site in the North,” he says. But the route Chris followed to the project makes for a remarkable story.

Following his childhood interest in trucks, Chris started his working life with Nishi Khon Freeway Inc., as an equipment operator. After about seven years, he decided to make a career change, eventually joining the RCMP as a constable. But heavy equipment kept calling and he returned to the profession, working several years as a haul-truck driver for Kete Whii at the Ekati diamond mine.

It was good work, but when his life partner passed away, Chris decided to stay closer to

home to look after their young children. Eventually, he found his way into local politics, serving as mayor of Behchoko until in the early 2000s. Once more, he returned to heavy equipment.

This past summer, Fortune Minerals contacted Chris and asked if he was available for work at the NICO site. He was, and after completing a Level 2 supervisor’s ticket, was promoted to site manager. It was a seasonal job, but with NICO now advancing through the permitting process and construction poised to begin, Chris will likely be spending more and more time at the site. Which suits him just fine.

“We have a lot of fresh air to breathe. The hills, the scenery, the wildlife, the nature. It’s all there,” he says of the NICO camp. “I love working out there, and this is one of the places that brought me back to mining. What more could I say?”



Knud Rasmussen

Prospector

When it came to rock back in the 1960s and 1970s, Knud Rasmussen was the kind of guy Yellowknife needed. That’s because he was very, very good at blowing it up. There aren’t



NOLINOR
Aviation

www.nolinor.com



SARVAQ LOGISTICS
Qikiqtani Region

KITIKMEOT AIR
Kitikmeot Region

SARLIAQ VENTURES
Kivalliq Region

UPPIK AVIATION
Nunavik Region

Building strong local partnerships across Northern Canada.

With a fleet to meet your needs: five **Convair 580**s and three **Boeing 737-200**s.

1-888-505-7025 514-978-1744 marketing@nolinor.com

many foundations, water lines or streets of that era that the soft-spoken, ball-capped Dane did not have a hand in sculpting, with a lot of skill and some CIL Forcite-40 blasting powder.

Arriving in Canada in 1959, the 19-year-old Knud (no relation to the famous Arctic explorer) hoped his farming heritage would find roots in the Prairies. But he was soon in Yellowknife, befriended by fellow Dane and market gardener Martin Bode, and working at Giant Mine. He would be there for 10 years, working his way up from mill hand to underground stope miner and learning the blasting trade.

After leaving the mine, he went into construction, eventually starting his own company, Knud Rasmussen Drilling and Blasting. “In 30 years, I never had an insurance claim,” he says, proud of his record of safe, controlled explosions.

But Rasmussen was happiest working the small high-grade gold deposits around Yellowknife that others had tried and abandoned. Applying his skill with drill and powder, he harvested showings all over the region, claiming his most successful venture was a vein at Long Lake, near the Yellowknife airport, with veteran mining engineer and prospector Dave Nickerson as a partner.

“I generally made more than I lost,” he reckons. By the late 1990s, however, new technology and younger competitors “outdated” his operation. Knud and his wife, Roxanna, moved to Texada Island, B.C. Not that he’s complaining. The Rasmussens keep busy looking after the acreage they call

home. Knud also occasionally flies an ultralight aircraft he keeps hangared at the island’s airstrip. And sometimes he sneaks back to the North to explore his copper showing – and do a little fishing.



Kimbo Okpatauyak

Meliadine Project

The Meliadine gold project near Rankin Inlet has a history on the Nunavut mining scene. The first gold occurrences were reported in 1972, and the site has attracted exploration for more than 25 years. So it’s no surprise that Meliadine — a major project in Agnico Eagle Mines’ gold portfolio since 2010 — has staff with history at the project.

One of those people is Rankin Inlet’s Kimbo Okpatauyak, who first started working at the project seven years ago, when it was still owned by Comaplex Minerals. Today, Kimbo works for Agnico Eagle as a loader-operator and says he has seen a lot of changes as the project advances. “It’s been new stuff coming in,” he says. “It’s growing each year... You see more people and equipment. You learn more. I like it.”

Kimbo, who is also part of Meliadine’s emergency-response team, now looks at mining as a long-term career. The rotations at camp can be stressful at times, he admits. “But the next day, it’s like nothing happened.” Better yet, he enjoys the long breaks, using his time to travel and visit friends in other parts of Canada or to go hunting, sometimes stopping in at Meliadine for a coffee and a quick chat with friends.

Although only 34, he says he plans to continue working in the mining industry until he retires. He’s met a lot of good people and appreciates the opportunities to gain new experience, he says. “You meet new people here, good people. They help you out a lot.”



Len Tuckey

Diavik Diamond Mine

Len Tuckey describes himself as having an analytical mind. In the early years of his career, that led him into the field of computers in his hometown of Fort Smith and, eventually, into repairs for electronics and office equipment. Today, he works as a lead hand on one of the security teams that monitors the diamond-processing and recovery system at the Diavik diamond mine — a job he never

imagined doing.

“I always wanted to be in computers. That’s been a passion since I left high school,” Len says. “But after working with equipment for so long, I found I liked dealing with people more than I liked dealing with equipment.”

Indeed, security is a people-oriented business. In his work, Len helps control access to the mine’s diamond recovery operations, from the point where raw kimberlite ore enters the processing plant to the final extraction of the diamond concentrate. That brings him in contact with people who work in various professions — millwrights, electricians, x-ray technicians, and so on — and it’s part of Len’s job to monitor them on the mine’s CCTV system.

Interestingly, that completes a circle. Len says he’s been learning a lot about the technical work people do at Diavik, and that appeals to his analytical mind. “I like to watch and learn when somebody takes something apart,” he says. “You watch enough and the next thing you know, you can tell them what comes next.”

Between that, and the fact he enjoys the people who work at the mine, Len expects to stay on his current career path for some time, even though he took it initially in hopes getting a foot in the door and then moving on to something else. “It’s been a really good change,” he says. ■



Iconic brands.
Legendary service.

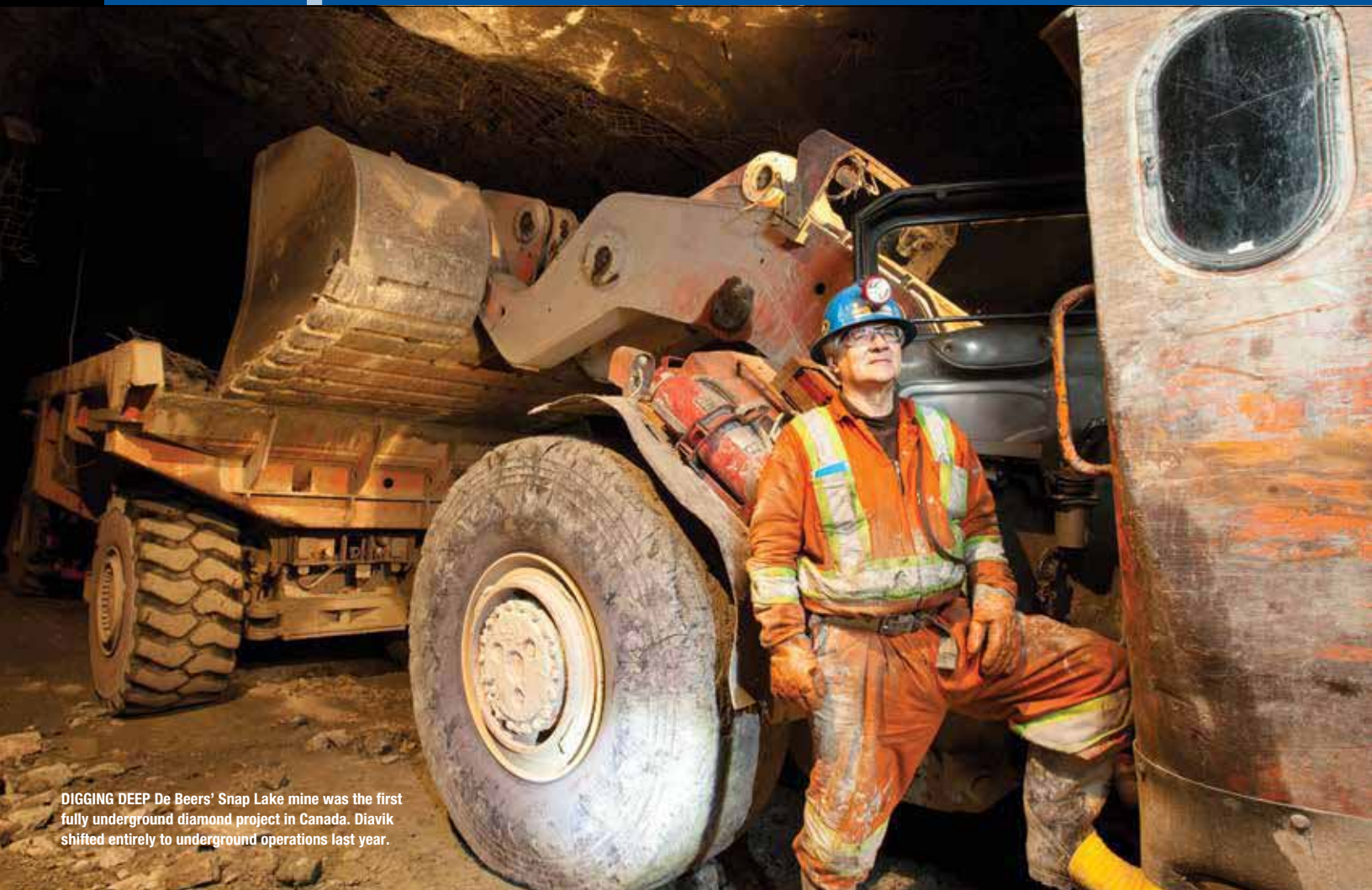


**midnight
sun energy**

sustainable mining & industrial solutions

3538 Old Airport Road, Yellowknife, NT
(867) 873-6360
www.midnightsunenergy.com





DIGGING DEEP De Beers' Snap Lake mine was the first fully underground diamond project in Canada. Diavik shifted entirely to underground operations last year.

COURTESY OF DE BEERS' GROUP OF COMPANIES

BY KAREN GOCHNAUER – DISTRICT GEOLOGIST, NWT GEOSCIENCE OFFICE

Not all is quiet on the Northern front

Many mining and exploration projects in the NWT stayed resilient, despite soft market conditions

Funding of mineral exploration projects were impacted by global financial uncertainties and dropping metal prices, with gold from US\$1,800 this time last year to US\$1,270. Despite the economic climate, optimism generated by Gahcho Kué's advancement to production status and the finalization of the Ekati Diamond Mine sale spurred resurgence in diamond exploration in the Lac De Gras and Gahcho Kué areas.

Positive reinforcement in the diamond sector came with ownership settlements of the Diavik and Ekati Diamond Mines. BHP Billiton completed the sale of its 80 per cent of the Ekati Mine with Dominion Diamond Corp. in April and Rio Tinto decided not to sell its 60 per cent of Diavik Mine in July. Dominion Diamond Corp. evolved from former Harry Winston Inc. after selling its luxury-brand segment to focus on: its 40 per cent diamond

production from Diavik; its offer to buy out Rio Tinto's portion of Diavik for 100 per cent ownership; and its offer to buy BHP Billiton's share of the Ekati mine.

Most of the advanced metals projects remained resilient: Prairie Creek lead-zinc, Courageous Lake gold, NICO gold-cobalt-bismuth and Nechalacho rare earth projects; whereas Pine Point and Yellowknife Gold projects were having financing difficulties. Canadian Zinc's Prairie Creek lead-zinc project cleared the regulatory steps to commence development and expand its drill program this fall. Seabridge Gold's Courageous Lake gold project and Kennady Diamonds Inc.'s Kennady North diamond project underwent large drill programs of more than 8,000 metres each to increase their mineral resources. Both are close to existing infrastructure.

Calm Air is dedicated to consistently deliver safe and reliable service to our valued customers and communities.

With our versatile fleet, off-strip and ice-strip capabilities, we strive to meet the diverse needs of our customers.

Call or visit us online to see how Calm Air can be your air travel and cargo solution.



CalmAir.com

Passenger 1.800.839.2256

Charter & Cargo 1.888.225.6247

Photo by Tanice Steiner

The NWT Mineral Development Strategy: Unlocking our Potential

Mining has a long history in the Northwest Territories and this development has brought with it unprecedented opportunities for our residents, communities, and businesses. With a wealth of untapped resources, interest in the Canadian North as the new frontier for mineral development only continues to grow.

The new NWT Mineral Development Strategy, developed in partnership with the Government of the Northwest Territories and the NWT and Nunavut Chamber of Mines, sets out a clear path to ensure the long-term growth of an environmentally sustainable mining industry.

Addressing our investment challenges, having a qualified and prepared work force, and fostering new innovative exploration techniques will help to ensure that mining remains a key economic driver for the Northwest Territories. Most importantly, this new Strategy represents a commitment – on the eve of the GNWT's devolution of resource management authority – that we are serious about addressing our investment challenges and unlocking the mineral potential of our territory.



Northwest Territories Industry, Tourism and Investment

For more information visit www.iti.nt.gov.ca/mineralsoilgas

An estimated \$81 million intended expenditures on exploration and deposit appraisals for the NWT (October 2013, NRCan) are down approximately 30 per cent from 2012 preliminary estimates and 13 per cent from 2011 actual expenditures. A more accurate account will not be known until 2014. Gold and diamonds make up over 50 per cent of the exploration and deposits expenditures (NRCan, October 2013). Reduced spending

saw exploration for metals and diamonds in the NWT concentrated on formerly worked areas and near existing infrastructure.

The number of exploration permits issued, often a gauge of grassroots exploration, were 19 in 2013, up from 11 in 2012 but down from 46 in 2011. The number of lapsed mineral claims far exceeded the number staked in 2013, as was the case last year. As of September, approximately 3.1 per cent of the

NWT was covered by mineral tenure (claims, leases and permits), similar to last year and a far cry from a 19.8 per cent peak in 2005.

OPERATING MINES

Since 2008, the NWT has had four producing mines: Ekati, Diavik and Snap Lake diamond mines and the Cantung tungsten mine.

BHP Billiton sold its interest in the Ekati Diamond Mine, 300 kilometres northeast of Yellowknife, on April 10, 2013 to Dominion Diamonds Corp. for \$480 million after operating the mine since its start in 1998. Dominion Diamond Ekati operates (80 per cent interest) the Core Zone joint venture of Ekati (Koala, Koala North, Misery, Pigeon, Sable and Fox kimberlites) with 10 per cent ownership by C. Fipke Holdings Ltd. and 10 per cent by S. Blusson; and Dominion Diamonds Resources Corp. operates the Buffer Zone joint venture (58.8 per cent interest), including the Jay and Lynx kimberlites, with 31.2 per cent held by Archon Minerals and 10 per cent by C. Fipke Holdings Ltd.

Production from the Ekati mine during the first nine months of 2013, including BHP Billiton's quarter ending March 2013, totals 1.45 million carats, sourced largely from the Fox open pit and supplemented by underground extraction from Koala and Koala North. From April 10 to the end of September 2013, Dominion Diamonds reports a 100 per cent production from Ekati of 0.8 million carats from processing 1.8 million tonnes (Mt) of ore reserves (Fox open pit, Koala and Koala North underground, Misery) with an average grade of 0.42 carats per tonne (cpt), plus 0.25 million carats from processing 0.25 Mt of coarse rejects, with an average grade of 1.14 cpt.

Efforts to sustain diamond production started the day of the sale with a new 43-101 report for Ekati using data up to December 2012. (Note: the following resources and reserves have been depleted by the amount of 2013 production). The new mineral reserve of 20.6 million tonnes of ore was estimated to contain 19.6 million carats from five kimberlite pipes plus stockpile from the Core Zone. The indicated mineral resource was estimated at 105.7 million tonnes containing 127.5 million carats including the reserve and three additional kimberlite pipes, one from the Core Zone and two from the Buffer Zone. The Core Zone makes up 68.2 million tonnes of the indicated resource grading 0.7 cpt and containing 48.4 million carats. The Buffer Zone adds 37.5 million tonnes, grad-

"The line between disorder and order lies in logistics."

- Sun Tzu [b. 544 BC]



Photo credit - Glenn Winsor

"We draw the line."

Supply Chain Management - Freight Forwarding - Field Logistics Staffing - Courier - Cargo Services

solutions@bbex.com



www.bbex.com

ing 2.1 cpt and containing 79.1 million carats. The indicated mineral resource includes Koala, Koala North, Fox, Misery, Pigeon, Sable, Jay and Lynx.

The current mine plan extends production to 2020. Dominion Diamond expects carat production to decline, whereas grade is expected to increase with additional ore production from the Misery and Pigeon open pits. As part of the Ekati mine-expansion plan, Dominion Diamonds has submitted a project report for the Lynx pipe, soon to be followed by a report for the Jay-Cardinal project for a new land use permit and water license.

Dominion Diamonds has selected 12 high-priority targets that warrant exploration from the 150 kimberlites discovered by extensive exploration programs on Ekati's property. Exploration has remained dormant since 2007.

Ownership of Diavik Diamond Mine, approximately 20 kilometres southeast of Ekati, remains as a 60:40 joint venture between Diavik Diamonds Inc. (Rio Tinto) and Dominion Diamonds Corp. after Rio Tinto's rejection of Dominion Diamonds offer to buy. The first nine months of production from Diavik, ending Sept. 30, 2013, was 5.2 million carats from 1.6 million tonnes of kimberlite. Production includes the fully underground extraction from A-154 South, A-154 –North, and A-418 kimberlite pipes as well as reprocessed plant rejects (RPR). The average processed grade for the nine months was 3.28 cpt compared with 3.35 cpt for the same period in 2012. The decrease was largely due to increased production of the higher value, lower grade A-154N pipe. The joint venture's 2013 forecast is for approximately 7.3 million carats from 1.9 Mt of ore and 0.5 Mt of stockpiled ore, a 22 per cent increase in production over the original forecast, attributable to an increased mining rate and increased production of stockpiled ore. On top of that will be recovery of RPR and small diamond production. The current mine plan is expected to take production to 2022.

Seventy kimberlites are known to exist on the Diavik property; half of which are diamond-bearing.

Dominion Diamonds Corp. formed a joint venture agreement with North Arrow Minerals Inc. for the Lac de Gras property, within 10 kilometres of Diavik Mine, covering potential extensions of kimberlite trends from Diavik through the centre of the property and from Ekati along its western edge. An overburden drill program testing basal

tills produced 1,704 samples from 757 drill holes, which were submitted for kimberlite indicator analysis. Dominion Diamonds is funding the work as part of an agreement to earn a 55 per cent interest in the project.

Production at Snap Lake Mine, 220 kilometres northeast of Yellowknife, was hampered in 2012 by surface and underground water issues, requiring additional capital expenditures. A slight reduction in carat production was due

to dilution and lower than expected ore grade. In 2012, DeBeers treated 918,000 tonnes of ore and recovered 870,000 carats. DeBeers continues optimization at the Snap Lake mine as well as its commitment to socioeconomic work.

Cantung, North America's only tungsten mine, is operated by North American Tungsten, located in the Northwest Territories approximately 300 kilometres by road northeast of Watson Lake, Yukon. CONTINUED ON PAGE 52.



**small rocks create
BIG
opportunities**

Northern and Aboriginal businesses are the key to sustaining northern jobs and the northern economy.

De Beers is the owner of the Snap Lake and Victor mines, and operating partner of the Gahcho Kué Project.

We want to work with companies who value mining while respecting both the environment and local communities, and who will live up to everything a diamond represents – forever.

DE BEERS
GROUP OF COMPANIES

www.debeersgroup.com/canada



ON THE GROUND Exploration geologists from Agnico Eagle Mines take samples at the company's Meliadine gold project, near Rankin Inlet. The company also operates the Meadowbank mine near Baker Lake.

COURTESY GRAEME OXBYP/AGNICO EAGLE

BY THE AANDC NUNAVUT REGIONAL OFFICE, MINERAL RESOURCES

Another Good Year

Market conditions dampened exploration in Nunavut in 2013, but the territory remained a major destination for resource investment

In 2013, mining and mineral exploration companies have continued to find success in Nunavut. However, decreased commodity prices, reduced availability of equity financing and the high costs associated with work in a remote environment have all contributed to lower levels of activity than in previous years. Fewer projects were active as some companies chose to maintain tenure until market conditions improve or to focus efforts on other priorities. As of September, the area held under Crown mineral tenure (including claims, leases and prospecting permits) totalled more than 8.9 million hectares, of which almost 400,000 hectares was acquired in 2013. Nearly 1.2 million hectares are held under coal licences.

The principal commodities being explored for in Nunavut are gold, base metals and uranium. Exploration is also ongoing

for iron, diamonds and coal. Based on the results of Natural Resources Canada's semi-annual industry survey, mineral exploration and deposit appraisal spending intentions in Nunavut for 2013 are estimated to be \$312.9 million. There is reason to believe that the actual number will be somewhat lower than this amount, as several operators reduced their exploration budgets or did not complete planned programs. Junior exploration companies have been hardest hit by present market conditions, as such the bulk of the expenditures, approximately two-thirds, are anticipated to be by senior companies.

In addition to exploration spending, an estimated \$371.7 million is planned to be spent on mine complex development. The bulk of this expenditure (\$334.3 million) is devoted to Baffinland Iron Mines' Mary River iron project on northern Baffin



A Strong North Begins With Dominion Diamond Ekati Corporation

A long and productive life for the Ekati Diamond Mine is an important factor in building a stronger North. Since the discovery of diamonds in the North over 20 years ago, the Ekati Diamond Mine has led the way in shaping a sustainable future for our northern communities. By extending the mine's operational life, Dominion Diamond Ekati Corporation will continue to provide the people of the North with opportunities for employment, training and prosperity.



To find out how DDEC is helping build a stronger North through its operation of the Ekati Diamond Mine, visit www.ddcorp.ca.



Challenging jobsites don't intimidate a Doosan crawler excavator. Hydraulic pump performance delivers fast, class-leading cycle times, with a synchronized engine and hydraulic system that boosts efficiency. It's designed to offer increased flotation in soft soil, while precision controls provide accuracy and power. Whether you're digging a trench, handling boulders or dumping debris, the Doosan crawler excavator keeps you productive no matter what.

Visit us to see what Doosan equipment can do for you.



Ron's Auto Service, Ltd.
Equipment Rental & Industrial Supply
103 Kam Lake Road | Yellowknife, NT
867-766-6025 | www.ronsauto.ca



Doosan and the Doosan logo are registered trademarks of Doosan Corp. in the United States and various other countries around the world. 13-D046.2

Raise the bar as high as you want.

Island. The remainder, \$37.4 million, is devoted to Agnico Eagle Mines' Meadowbank gold mine in the Kivalliq region. The overall level of mine complex development spending emphasizes a shift in focus for Nunavut, from exploring for new resources to development and eventual production of existing resources.

Nunavut is divided into three regions, the Kitikmeot (western Arctic), the Kivalliq

(central Arctic) and the Qikiqtaaluk (eastern and high Arctic). There are companies exploring for diverse commodities and progressing through the regulatory process in each of those regions.

KITIKMEOT

Most exploration in the Kitikmeot region is focused on the search for gold and base metals. Sabina Gold & Silver Corp. bud-

geted \$65 million this year for work on its Back River gold project. A resource estimate was published for the project in early 2013, which indicates the deposits include more than 6.5 million ounces of gold. A preliminary feasibility study is currently underway, with results expected in mid-October. TMAC Resources Inc. acquired the Hope Bay gold project from Newmont Mining Corporation in March of this year. Newmont had previously put the project on care and maintenance status in January 2012, so the reactivation of Hope Bay is welcome news for residents of local communities because of the potential for employment at site. TMAC is currently engaged in an exploration program at Hope Bay and, pending market conditions, plans an IPO for the fourth quarter of 2013. The Itchen Lake gold project is controlled by a joint venture between Transition Metals Corp. and Nunavut Resources Corp. This early stage exploration project is on the Nunavut-Northwest Territories border. In 2013, the joint venture completed airborne geophysical surveys over the property and reconnaissance surface exploration. The past-producing Lupin gold mine and the Ulu gold project are owned by Elgin Mining Inc. As part of cost-cutting measures, these projects have been placed on care and maintenance indefinitely so that the company can focus its efforts outside the territory.

The Hackett River zinc-silver volcanogenic massive sulphide deposit is owned by GlencoreXstrata Plc, a company formed earlier this year from a merger of Glencore International Plc and Xstrata Plc. The company carried out an aggressive drilling program this year to upgrade resources at Hackett River. Prior to the merger, Xstrata had partnered with Sabina to advance the Bathurst Inlet Port and Road (BIPR) project through the regulatory process, to support the proposed mines on their respective properties. However, the future of both Hackett River and BIPR is in question following an announcement from GlencoreXstrata of cost-cutting measures that would see work suspended at 44 of Xstrata's 88 projects. MMG Ltd. controls the Izok Corridor project, which proposes development of the zinc-copper deposits at Izok Lake and High Lake linked to a proposed port on Grays Bay by a 325-kilometre all-weather road. Exploration on the property in 2013 focused on regional target identification. CONTINUED ON PAGE 54.

WORKING IN HARMONY FOR A STRONGER COMMUNITY

ᐱᑦᑕᓕᓂᐱᑦᑕᓂᐱᑦᑕᓂᐱᑦ
ᐃᑦᑕᓂᐱᑦᑕᓂᐱᑦᑕᓂᐱᑦ ᐱᑦᑕᓂᐱᑦᑕᓂᐱᑦ
ᐃᑦᑕᓂᐱᑦᑕᓂᐱᑦᑕᓂᐱᑦ



Respect for the land and its people is at the core of everything we do at AREVA. That means listening more than speaking, treading softly and lending a helping hand wherever we can. A new mining operation would create hundreds of jobs and business opportunities for Nunavummiut. The North isn't just where we work; it's part of who we are.

ᐃᑦᑕᓂᐱᑦᑕᓂᐱᑦᑕᓂᐱᑦ ᐃᑦᑕᓂᐱᑦᑕᓂᐱᑦ
ᐃᑦᑕᓂᐱᑦᑕᓂᐱᑦᑕᓂᐱᑦ ᐃᑦᑕᓂᐱᑦᑕᓂᐱᑦ
ᐃᑦᑕᓂᐱᑦᑕᓂᐱᑦᑕᓂᐱᑦ ᐃᑦᑕᓂᐱᑦᑕᓂᐱᑦ
ᐃᑦᑕᓂᐱᑦᑕᓂᐱᑦᑕᓂᐱᑦ ᐃᑦᑕᓂᐱᑦᑕᓂᐱᑦ
ᐃᑦᑕᓂᐱᑦᑕᓂᐱᑦᑕᓂᐱᑦ ᐃᑦᑕᓂᐱᑦᑕᓂᐱᑦ
ᐃᑦᑕᓂᐱᑦᑕᓂᐱᑦᑕᓂᐱᑦ ᐃᑦᑕᓂᐱᑦᑕᓂᐱᑦ

Baker Lake Office
ᐱᑦᑕᓂᐱᑦᑕᓂᐱᑦᑕᓂᐱᑦ ᐱᑦᑕᓂᐱᑦᑕᓂᐱᑦ

1-867-793-2000

arevaresources.ca • kiggavik.ca



WHEN BUSINESS COMES NORTH...



Experience unparalleled service in the 95 room FROBISHER INN and enjoy Iqaluit's finest restaurant, conference centre and newly opened fitness centre.

www.FrobisherInn.com
Toll Free: 1.877.422.9422

At THE EXPLORER HOTEL in Yellowknife, enjoy the largest hotel in Canada's Arctic with 187 rooms, a 350 person conference centre and innovative cuisine.

www.ExplorerHotel.ca
Toll Free: 1.800.661.0892



...EXPERIENCE THE WARMTH OF CANADA'S PREMIER ARCTIC HOTELS

WE MINE FOR PROGRESS



mmg.com





POTENTIAL:

THE NWT AND NUNAVUT ARE HOME TO SOME OF THE WORLD'S GREAT MINERAL DEPOSITS. BUT THOSE CHALLENGES CAN – AND ARE – BEING MET. BOTTOM LINE? THE

Need to Know The NWT and Nunavut are home to world-class mineral deposits. They are famous not only for their size, but also for their variety. Despite soft financing conditions today, the **Conference Board of Canada** expects substantial growth in NWT and Nunavut mining GDP in the next few years. • In its annual **Survey of Mining Companies**, the **Fraser Institute** reports that investment conditions are improving across the North, with the NWT and Nunavut moving up in the institute's rankings. • Changes to regulatory frameworks are creating greater **investment certainty** in the NWT and Nunavut.

When it comes to mineral development, everything ultimately boils down to the quality of the rocks. The NWT and Nunavut have some very good ones. That much has been known for a very long time.

In the late 19th century, for instance, E.A. Blackney stopped at the shores of Great Slave Lake on his way to the Klondike gold fields and staked a claim that assayed at a remarkable two ounces of gold per tonne. A generation later, Gilbert LaBine discovered silver, copper, cobalt and uranium ores at Great Bear Lake, setting off a staking rush that led to the creation of the NWT's first mine in 1933, Eldorado, which produced uranium, copper and silver. Eldorado was followed by the discovery of gold at Yellowknife Bay and the establishment of many mines, including Giant and Con, which remained in production for more than 50 years.

WELCOME TO MARY RIVER: Baffinland Iron Mines is developing the Mary River iron mine on Baffin Island. The ore body holds approximately 365 million tonnes of mineable, high-grade ore. Photo courtesy Baffinland

UNLIMITED

DEVELOPING THEM RESPONSIBLY COMES WITH MANY CHALLENGES. MINERAL POTENTIAL OF CANADA'S FAR NORTH IS A STORY YOU DON'T WANT TO MISS.

Those early efforts were followed by the development of many other world-class projects. The Pine Point lead-zinc mine near Hay River produced more than eight billion pounds of zinc and 2.6 billion pounds of lead during its life. In Nunavut, the Polaris lead-zinc project mined 21 million tonnes of ore valued at \$15 billion over its 20-year life. Millions more tonnes of ore were produced from the territory's Nanisivik mine, which operated between 1976 and 2002.

And of course, there was the Great Lac de Gras Diamond Rush of 1990s, leading to the founding of the Ekati, Diavik and Snap Lake diamond mines, which today have established Canada as the third largest diamond producer in the world.

All in, mining in Canada's Far North has generated more than \$60 billion in production since the 1930s. But the scale of the discoveries

is only part of the equation. Of equal importance is their variety, a point that Avalon Rare Metals president and CEO Don Bubar makes specifically about the Slave geological province in the NWT, where his company expects to bring a rare earths mine into production, hopefully by 2017. "The Slave geological province is one of the most richly endowed mineral terrains on Earth," he says. "If you want to find truly world-class mineral deposits, regardless of type, the NWT is a very good place to find them." Nunavut holds similar promise, says Jim Paterson, CEO of Kivalliq Energy, which is exploring promising uranium deposits in the territory's Kivalliq region. "You really need expertise. But once you have it, and if you can raise the capital, the potential is huge." CONTINUED ...



ABOVE: ANGELA GZOWSKI/UP HERE PUBLISHING RIGHT: COURTESY NUNA LOGISTICS BOTTOM: COURTESY DEBEERS GROUP OF COMPANIES/BILL BRADEN

Indeed, the North has globally significant potential. But as Paterson notes in his comment, it also comes with challenges. Market conditions for raising financing are certainly one of the most pointed at the moment. In a presentation at the Nunavut Mining Symposium this past March, Patricia Mohr, vice-president of economics at ScotiaBank and a commodities market specialist, noted that global concerns over sovereign debt in Europe, the slowdown in economic growth in China, and the sluggish recovery from recession in U.S. have all contributed to a serious slump in commodity markets and a severe pullback in investment. Conditions haven't improved since then.

But difficult as times may be for financing, the NWT and Nunavut are showing resilience. In a report released in October, the Conference Board of Canada estimated that the North's overall mineral output (including the northern provinces) will grow at 7.5 percent on a compound annualized basis between 2011 and 2020, almost doubling during that timeframe. (For comparison, the conference board noted that the growth rate forecast for the Canadian economy over the same period comes in at 21.5 percent, or 2.2 percent on a compound annualized basis.)

ABOVE: Agnico Eagle Mines' Meadowbank project is expected to produce 360,000 ounces of gold in 2013. RIGHT: TMAC's Hope Bay gold project, 160 kilometres southwest of Cambridge Bay, could host nine million ounces of gold. BELOW: The view inside the processing plant De Beer's Snap Lake mine.



The NWT and Nunavut will share in that bounty. After a brief dip, the conference board foresees an upswing in NWT mining GDP, which it estimates will reach \$1.3 billion in 2020, with new diamond, gold, lead-zinc and rare-earth projects coming online over the next few years. Nunavut's mining GDP, meanwhile, will reach \$325 million by 2020, a remarkable figure given that its mining GDP in 2009 was zero.

Adding to the cause for optimism is this year's Fraser Institute Survey of Mining Companies, in which both the NWT and Nunavut improved their rankings as attractive investment environments.



“[With devolution] you’ll have a local government that will be motivated to make the process more efficient,”

Don Bubar, president and CEO of Avalon Rare Metals

That said, there are still several challenges ahead in seeing the full, responsible and sustainable development of the Northern mineral industry. Infrastructure — or the lack thereof — remains a major concern. This can be espe-

cially true for companies developing certain kinds of projects, says Robin Goad, president of Fortune Minerals, which is now in the permitting process for its NICO gold-cobalt-bismuth-copper project in the Tlicho region north of Yellowknife. “You have to be in an area where you can get your product out,” he says. “Or you have to be looking at commodities where you

can fly product out. Diamonds, for example. Or gold... You can fly out a gold bar.” Interestingly, though, mineral development makes a significant contribution to addressing the North’s infrastructure deficit, Goad notes. The hydro dams that today help power Yellowknife were first built to support its gold mines. The rail line to Hay River was installed to serve lead-zinc operations at Pine Point. The longest all-weather road in Nunavut today, at 24 kilometres, links Agnico Eagle’s Meliadine project to Rankin Inlet. The prospect of further infrastructure development, Goad says, increases with mineral industry interest, providing the rationale and return that lays important groundwork for investment.

A second challenge — arguably the major one — comes from investment certainty. Issues surrounding regulatory regimes and the settlement of land claims have long been a disincentive to mineral development in the NWT. The good news is that considerable improvements have been made to date, especially with the settlement of the Nunavut land claim and several more in the NWT, although there is still work to be done in the territory.


mitting process. Aboriginal groups, such as those in the Tlicho and Sahtu regions of the NWT, have meanwhile developed land-use plans that provide greater clarity on where exploration companies are most welcome to do their work.

All of this points to a growing maturity in the North and its attitudes towards resource development. A notable example comes from Kivalliq Energy and its Angilak and Baker Basin uranium projects.

The politics surrounding uranium is always charged, and the story is no different in Nunavut. Yet in 2007, Nunavut Tunngavik Inc., the body that oversees the Nunavut claim, released a policy detailing the terms under which it would support uranium proposals. The Nunavut government released a similar policy last year. With clear-cut policies and a stable regulatory process, Kivalliq Energy — along with uranium developers such as Cameco and — is now pursuing a project that would have been hard to imagine not all that long ago. Nunavut Tunngavik is even a partner in the Angalik project, which is on land owned by Inuit under the Nunavut claim.

Without the certainty created by the claim and government policy, Paterson says his company probably wouldn’t be working in the territory. But he’s pleased with the clarity of the working environment in Nunavut. Regulations can be tough, he says, but “it doesn’t matter as long as they are consistent and understandable. If they are tough, you plan accordingly. You just have to raise more money or allocate more time or bring in different professionals.”

In the NWT, Bubar says the devolution of control over resources to the NWT government from the federal government, which officially takes effect in April 2014, will create further incentives to improve the regulatory system in the territory. “You’ll have a local government that will be motivated to do what it can to make the process more efficient,” he says. “They’re obviously motivated to promote more investment and economic development generally.”

To put that another way, the story of mining in the NWT and Nunavut continues to move forward. The territories are steadily rising to challenges and working to improve their attractiveness as destinations for resource investment. There are many more improvements to come on many fronts, but the potential remains — starting from the ground up. The North has a story to tell. It’s one you don’t want underestimate. 



LEFT: COURTESY OF RIO TINTO DIAMOND MINE. BELOW: COURTESY OF RIO TINTO DIAMOND MINE.



ABOVE: Wind now generates about seven percent of the electricity that powers the Diavik diamond mine. LEFT: Diavik has been an all-underground diamond mine since 2012.

cially true for companies developing certain kinds of projects, says Robin Goad, president of Fortune Minerals, which is now in the permitting process for its NICO gold-cobalt-bismuth-copper project in the Tlicho region north of Yellowknife. “You have to be in an area where you can get your product out,” he says. “Or you have to be looking at commodities where you

Encouraging progress is also being made on the regulatory front. Elsewhere in this issue of *Mining North*, you’ll read about developments like the new Nunavut Planning and Project Assessment Act, which will help streamline the territory’s regulatory processes. In the NWT, amendments to the Mackenzie Valley Resource Management Act will also help streamline per-

nwt & nunavut

Where We're Working

Mining and mineral exploration — at both advanced and grassroots levels — knows few boundaries. Companies go where they believe they have the best chance of success. That means you'll find them across the NWT and Nunavut, working on projects whose targets range from diamonds and gold to base metals and rare earths. The fact that many companies are prepared to work in the challenging Northern environment speaks volumes about the region's mineral potential. You can see the story unfolding on the map presented here, which details the locations and activities of the North's active mines, advanced exploration projects and promising grassroots work. It's a big picture — one that speaks to the North's present, it's likely future and, potentially, what lies over the horizon.

(For more detailed maps of exploration activity in the NWT and Nunavut, visit miningnorth.com and follow the "Maps" link in the "Library" section.)

LEGEND

■ ACTIVE ■ MAJOR EXPLORATION ■ GRASSROOTS EXPLORATION

- | | |
|----------------------|-----------------------------|
| GD GOLD | IO IRON ORE |
| DS DIAMONDS | SR SILVER |
| LZ LEAD, ZINC | CL COAL |
| CR COPPER | RE RARE EARTH METALS |
| TN TUNGSTEN | MM MULTIPLE MINERALS |
| UR URANIUM | |



ACTIVE MINES

Cantung Mine - North American Tungsten Ltd. Tungsten and copper property in western N.W.T. Mine life to 2014.

Diavik Mine - Rio Tinto (60%)
Dominion Diamonds Corp. (40%)
Canada's largest diamond mine. 300 km northeast of Yellowknife. Underground operation. Mine life to 2023.

Ekati Diamond Mine
Dominion Diamonds Corp. (80%) Chuck Fipke (10%) Stu Blusson (10%)
Canada's first diamond mine. Open pit and underground. Mine life to 2019.

Meadowbank Gold Mine
Agnico Eagle Mines Ltd.
Open-pit gold mine in Nunavut's Kivalliq region. 70 kilometres north of Baker Lake. Mine life extended to 2018.

Snap Lake Mine - De Beers Group of Companies. Canada's first all-underground diamond. 220 kilometres northeast of Yellowknife. Mine life to 2028.

MAJOR EXPLORATION

Back River - Sabina Gold & Silver Corp. Gold project in Nunavut's Kitikmeot region. Pre-feasibility study expected before the end of 2013.

Chidliak - Peregrine Diamonds Ltd. Diamond project located about 180 km south of Pangnirtung. More than 60 known diamond-hosting formations.

Courageous Lake - Seabridge Gold Inc. Proposed open-pit gold mine 240 km northeast of Yellowknife. 6.5 million ounces proven and probable reserves.

Doris North/Hope Bay - TMAC Resources Inc. Proposed gold mines 130 km south of Cambridge Bay. Covers majority of Hope Bay Greenstone Belt.

Gahcho Kué - De Beers Group of Companies & Mountain Province Diamonds
Proposed open-pit diamond mine 180 km northeast of Yellowknife. Positive environmental assessment. Recommended for licensing.

Hackett River - GlencoreXstrata plc
Proposed open-pit zinc, silver, copper, lead mine. 104 km south-southwest of Bathurst Inlet. Environmental impact statement expected before end of 2013.

High Lake/Izok Lake - MMG Resources Inc.
High Lake: Copper, zinc, silver and gold property 190 km east-southeast of Kugluktuk. **Izok Lake:** High-grade zinc, copper, lead, silver deposit 225 km southwest of Kugluktuk.

Jericho Diamond Mine - Shear Diamonds Ltd. Project to assess viability of reopening diamond mine 225 km south-southeast of Kugluktuk. Currently on hold.

Kiggavik - AREVA Resources Canada Inc. Proposed uranium mine 80 km west of Baker Lake. Areva to submit final environmental impact statement in September 2014.

Lac-50 - Kivalliq Energy Corp. High-grade uranium deposit at Kivalliq Energy's Angalik project in central Nunavut.

Mactung - North American Tungsten Corp. Tungsten mine located in Yukon, 160 km northwest of North American Tungsten's Cantung mine. Currently in territorial environmental review process.

Mary River - Baffinland Iron Mines Corp. Proposed open-pit iron mine, served by a port and rail line, 1,000 km north of Iqaluit. Five known deposits.

Meliadine Gold - Agnico Eagle Mines Ltd. Proposed gold mine. Six known deposits, including the Tiriganiaq deposit, 25 km northeast of Rankin Inlet.

Nechalacho - Avalon Rare Metals Inc. Proposed underground rare earth metals mine. 100 km southeast of Yellowknife. Mackenzie Valley Environmental Review Board recommends project advance to permitting and licensing.

NICO - Fortune Minerals Ltd. Proposed open-pit and underground cobalt, gold, bismuth, copper mine. 50 km northeast of Wha Ti. Federal and Tli Cho governments approved project to proceed to regulatory phase.

Pine Point - Tamerlane Ventures Inc. Proposed underground lead-zinc mine east of Hay River.

Prairie Creek - Canadian Zinc Corp. Proposed underground lead, zinc, silver mine. 120 kilometres west of Fort Simpson. Permits in place to begin mine construction and operation.

Roche Bay - Advanced Explorations Inc. Iron ore project near deep-water harbour at Roche Bay in the Baffin Region.

Selwyn Project - Selwyn Chihong Mining Ltd. Proposed underground lead and zinc mine in Yukon, access from NWT. Selwyn Chihong has acquired full control of the project from Selwyn Resources.

Three Bluffs - North Country Gold Corp. Gold deposit north of Baker Lake comparable to Agnico Eagle Mines' Meadowbank and Meliadine deposits.

ULU & Lupin - Eglin Mining Inc. Gold projects southeast of Kugluktuk. Ulu deposit has indicated resource of 751,000 tonnes. Past production at Lupin mine totaled 3.7 million ounces.

Yellowknife Gold Project - Tyhee Gold Corp. Proposed open-pit and underground mine. 90 km northeast of Yellowknife. Two deposits, Ormsby and Nicholas Lake.

GRASSROOTS EXPLORATION

Coates Lake - Copper North Mining Corp. Copper project located in Copper North's Redstone property, about 290 km south of Norman Wells.

Colomac Gold Project - Nighthawk Gold Corp. Based around the site of the old Colomac gold mine. 220 km northwest of Yellowknife. Contains at least five separate gold deposits.

Darnley Bay - Darnley Bay Resources Ltd. Darnley Bay is exploring a major magnetic anomaly near Paulatuk similar to other world-class mineral districts.

HOAM Project - Olivut Resources Ltd. Diamond exploration project in the Interior Plains region south of Great Bear Lake. Olivut has discovered 29 kimberlites to date.

Itchen Lake - Transition Metals Corp./Nunavut Resources Corp. Property hosts gold deposit similar to that of the Lupin gold deposit. 365 km northeast of Yellowknife.

Kennady North - Kennady Diamonds Inc. Located 280 km northeast of Yellowknife. Home to the diamondiferous Kelvin and Faraday kimberlites.

Kiyuk Lake - Prosperity Goldfields Corp. Gold project located in Nunavut near Saskatchewan border. Company conducted 4,000 metres of drilling in winter of 2013.

Lac de Gras Diamond Project
Dominion Diamonds Corp./North Arrow Minerals Inc. Diamond exploration project near the Ekati and Diavik diamond mines. Completed overburden drilling program in October.

Mazenod Project - BFR Copper & Gold Inc. 7,500 hectares in mining leases northwest of Yellowknife. Potential for copper and other minerals.

Mel Project - North Arrow Minerals Inc. Diamond exploration. Sampling and mapping underway.

Northbelt - TerraX Minerals Inc. Gold exploration projected located 15 km north of Yellowknife on extension of the geology that contained Giant and Con mines.

Qilalugaq - North Arrow Minerals Inc. Diamond exploration northwest of Repulse Bay. Eight known kimberlites.

Redemption - North Arrow Minerals Inc. Diamond exploration at Lac de Gras in the vicinity of the Ekati and Diavik mines.

Up Town Gold Project - Manson Creek Resources Ltd./North Sur Resources Inc. Gold exploration project located just outside Yellowknife. Focused on five known gold zones near the old Giant mine.

Wrigley Property - Devonian Metals Inc. Lead-zinc project across the Mackenzie River from Wrigley. Property hosts several closely grouped known ore bodies.



Need to Know The new **Nunavut Planning and Project Assessment Act** will reduce regulatory duplication and set 24-month timelines for project reviews. • Coming amendments to the **NWT's Mackenzie Valley Resource Management Act** will simplify the regulatory process by eliminating regional permitting boards in favour of a single board for the territory. It will also bring in process timelines. • The new **NWT Surface Rights Board Act** is creating a new tribunal to resolve disputes between minerals-rights holders and land-owners. • Aboriginal governments in the **Sahtu** and **Tlicho** regions of the NWT have **released land-use plans**, identifying areas for exploration and, in the **Tlicho** case, **lifting a seven-year moratorium** on development.



ADDING INVESTMENT CERTAINTY

COMPLEX REGULATORY SYSTEMS HAVE BEEN A BARRIER TO NORTHERN RESOURCE INVESTMENT IN THE PAST. **HERE'S THE GOOD NEWS:** THE APPROVALS PROCESS IS BECOMING FASTER, CLEARER AND MORE EFFICIENT.

BY MARTIN DOVER

This past August, Stephen Harper made his eighth consecutive tour of Canada's north as prime minister. He picnicked along the blue-green waters of Miles Canyon near Whitehorse, hung out inside in the belly of a Herc with kids in Hay River, shot a rifle and roasted hotdogs with Canadian Rangers in Gjoa Haven.

But Harper's visit wasn't just about photo ops. During his tour, he also made important policy announcements, including funding for mine job-training and geoscience mapping. Delivered by the Prime Minister of Canada, the messaging underscores the federal govern-



COURTESY AGNICO EAGLE MINE

ment's longstanding commitment to mineral development as the driver of economic growth in the North.

Moreover, Harper's pledges are only part of a bigger plan to improve the framework for sustainable development of Northern resources, one that kicked off back in 2007 when the federal government appointed Neil McCrank to assess the territories' regulatory systems for snags and inefficiencies. McCrank, a veteran Calgary-based resource lawyer, found many and his recommendations were rolled into the federal Action Plan to Improve the Northern Regulatory Regimes, which got its legs in 2010.

SAMPLE STUDY Geologists examine core samples at Agnico Eagle Mines' Melladine project. New rules in the NWT and Nunavut are expected to bring more certainty to the exploration and development process.

The action plan remains an important road map for how to smooth the path for resource development while upholding the original aims of the North's unique regulatory structure, created out of comprehensive Aboriginal land-claim agreements. And it has already borne fruit with the passage this past spring of the Nunavut Planning and Project Assessment Act and pending changes to the NWT's Mackenzie Valley Resource Management Act.

Such steps are already improving the climate for the resource industry and other stakeholders, says Tom Hoefer, executive director of the NWT and Nunavut Chamber of Mines. “Investor uncertainty is driven in large part by regulatory complexity and inconsistency,” says Hoefer, a northern geologist by training who has been obsessed with rocks since he was a kid. “If you look at the big picture, the federal government’s regulatory improvements are intended to help provide this certainty.”

In other words, the roadblocks of the past are starting to come down.

Moreover, the timing couldn’t be better for both territories. In the NWT, both the Ekati and Diavik diamond mines are reaching the mature stages of their lives. New projects are in

OTTAWA’S GOAL: Faster. Simpler.

When NWT’s Mackenzie Valley Resource Management Act (MVRMA) was implemented in 1998, it was hailed as a groundbreaking approach to governing natural resources. Created out of the land-claim agreements of the Sahtu and Gwich’in, the Act set out unprecedented participation in resource projects by Aboriginal groups in the form of guaranteed seats on land and water boards that granted permits in each settlement region—the Sahtu, Gwich’in and, later, Tlicho. Aboriginal representation was also guaranteed on a territory-wide environment review board that would take over the environmental assessment process from the federal government.

A decade after MVRMA, McCrank’s report was frank about the workings of multiple boards: they were creating unnecessary

certainty and inspiring investor confidence.

Timelines are also a centrepiece of the new Nunavut Planning and Project Assessment Act (NUPPAA). Among its features are requirements that the Nunavut Impact Review Board and the Nunavut Planning Commission complete their reviews within 24 months. The legislation also reduces duplication by creating a single process for the review board and the planning commission to evaluate proposals.

“Providing this structure is key,” says Elizabeth Kingston, the Chamber of Mines’ general manager in Nunavut. “The proponents need to know if a project is moving forward or not because they’re trying to get investors on board, and the communities want to know because it affects them as well. It really helps the proponents and the federal government to have just one group to go through.”

This summer, along with NUPPAA, the federal government also created the NWT Surface Rights Board Act. The long-promised legislation

“Proponents need to know if a project is moving forward or not because they’re trying to get investors on board, and the communities want to know because it affects them as well.”

— Elizabeth Kingston, Chamber of Mines, general manager, Nunavut

complexity, delay and expense. Thus, McCrank’s overarching recommendation was to revise the MVRMA to stipulate that one board — the Mackenzie Valley Land and Water Board — assume the permitting duties of the three regional boards, mirroring the structure of the NWT environmental review board.

It has been a tough pill to swallow for the local boards, which have worried about the effects of streamlining and what might be lost. But Hoefer says he’s seen a coming-around among them. “Over the past few years, the boards themselves began to understand and then address the complexity around their processes,” he says. “Creating one consistent process through a single board would make it easier for investors to understand. At the same time, we know that the boards have served the land claims regions well, and that’s something we don’t want to lose.”

Among other changes, the amended MVRMA, set to become law by April 2014, will also mandate clear timelines for regulatory proceedings, which is critical to creating greater

lays out a mediation tribunal process to resolve stalemates between mineral-rights holders and the landowners, which, if left to fester, can indefinitely stall or kill an exploration project. “It’s another way to help provide certainty in the regulatory process,” Hoefer says. “Basically it provides a court of last resort and its presence gives the parties an incentive to find their own solution.”

DEVOLUTION: To improve clarity

As long-awaited initiatives like NUPPAA and the MVRMA amendments finally become law, the federal government is concurrently preparing to stand back as the non-renewable resource landlord in the NWT via devolution. The target date for the official federal-territorial transfer of power is April 2014, when the NWT government will fulfill a long-standing goal and finally assume responsibility for managing its own natural resources. (Past agreements have already devolved power to the territorial government for education, health administration, forestry and airports, among other areas.)

This latest piece of devolution legislation grants the territorial government authority to create laws relating to public land and



SUPPORT FROM THE TOP During his 2013 tour, Prime Minister Harper announced federal funding for mine training and geoscience mapping.

pipeline, but they do not match Canada’s first two diamond projects in terms of scale, meaning that the territory has a strong incentive to attract new investment. Nunavut, meanwhile, is in the midst of an exploration boom, with several projects already in the approvals process. A more efficient regulatory process will help the territory develop this important economic sector and provide greater opportunities for its people.

In addition to federal changes, several shifts are also underway at the territorial and aboriginal government level — notably around land-use planning and mineral strategies — aimed at improving the environment for the resource industry as well as Northern communities.

While there is still a long to-do list, work is underway—not only to put out the welcome mat for mineral investment, but also sweep the floors and toss the clutter.



Mine Training Society
NORTHWEST TERRITORIES

CONNECTING NORTHERNERS WITH JOBS IN
THE MINING INDUSTRY FOR OVER TEN YEARS.

We Change Lives

By 2017, there will be nearly 5,000 mining jobs in the NWT, along with another 9,000 related and support positions.

That's a total of 14,000 well-paying jobs for people with the right skills. And making sure Northerners have those skills is what the Mine Training Society has been doing for the last decade. Since 2003, MTS has trained over 1,200 Northerners, delivering more than 150 programs across the North, from small in-community courses

to territory-wide initiatives. MTS is also capable of working with mining/mine services employers to deliver specialized training. Our record suspension program helps ensure that everyone has a fair chance. Currently, more than 850 of our trainees are working in the industry.

Contact us today at **867-765-0445** or visit us at

MINETRAINING.CA

water, issue water licences, monitor the effects of land- and water-use, and coordinate environmental assessment decisions without that layer of federal bureaucracy. “We’ll have a lot more say on decisions about resource exploration and development,” says Tim Coleman, the territorial government’s director of minerals oil and gas. “The people of the NWT — the ones who’ll be impacted by decisions

— will now be closer to the decision-makers.” Though it’s too soon to know exactly how devolution will play out for industry, the NWT government has been preparing for the hand-off by drafting its first-ever mineral development strategy, which will assert its official position on the future of mining and offer a plan for system improvements. The territorial government kicked off the process last year, appoint-

ing an expert panel to glean the opinions of some 120 stakeholders on the state of mining in the NWT. The recommendations were published in the 78-page Pathways to Mineral Development report, and will feed into the official Mineral Development Strategy, to be launched in the fall of 2013. “This is meant to be a strongly supportive document,” Hoefler says. “One with action items and measurable outcomes ... and one that says to investors, ‘come on in, the NWT is a great place to invest.’”

Simply the news of the panel consultations and impending mineral strategy has created a buzz within the industry. In the Fraser Institute’s latest annual survey of global mining companies, NWT was named most-improved jurisdiction, and jumped a few ranking spots on the list of “best places to do business,” though it still falls below the Yukon and Nunavut. “I think the fact that this mineral strategy is in progress contributes to that perception,” Coleman says. “We’ve been doing an extensive job of getting out and talking to people and explaining our position.”

As the NWT Mineral Development Strategy takes shape, so too are the territory’s regional land-use plans — critical pieces of the regulatory framework that clarify for developers where they can explore and what’s off-limits. This past spring, both the Sahtu and Tlicho approved their plans after years in the making. The finalized Tlicho plan not only lifts a seven-year development moratorium, but also supports mineral exploration on 40 percent of its 39,000 square kilometres. The Tlicho also recently launched the Kwe Beh Working Group office in Yellowknife, a kind-of one-stop-liaison between the communities and mining companies.

Even in the Akaitcho territory, where the land-claim is still unsettled, leaders have signed a Memorandum of Understanding with the NWT and Nunavut Chamber of Mines to help establish a similar point-of-contact organization, to be called the Akaitcho Mineral Industry Support Office.

Having the support of landowners is key to responsible mineral development in the North. In Nunavut, where the government released its own mineral policy years ago, a supportive sentiment reverberates and “helps reinforce investor certainty,” says Elizabeth Kingston. “Generally speaking, people here want to see industry succeed. There’s obviously going to be bumps along the road, but overall there’s a desire to move the industry forward and for people to realize the benefits. When you have that in your favour, you can make great strides.”



**Kitikmeot Corporation is a
100% Inuit owned company capable of
fulfilling all your mining needs.**

Kitikmeot Cementation
underground mine development

Kitikmeot Caterers
camp management and catering

Nuna Group of Companies
open pit mining, earthworks
construction, large diameter drilling

Medic North Nunavut
remote site medical services

Kitikmeot Blasting Services
for all your blasting needs

Toromont Arctic Caterpillar
mining equipment

Kitnuna Group of Companies
cat trains, earthworks,
fuel and supplies

Diamonds International Canada
diamond valuation

867.983.2200
www.kitikmeotcorp.ca



*Kitikmeot
Corporation*
ᑭᑭᑭᑭᑭᑭ ᑭᑭᑭᑭᑭᑭ

SOLUTIONS

PLANNING

STRATEGY

ABORIGINAL

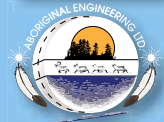
SUCCESS

GROWTH



TLI CHO INVESTMENT CORPORATION

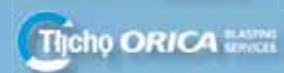
www.tlicho.ca



Tlicho Engineering & Environmental Services



Tlicho Domco Inc.



Tlicho Quantum Murray LP

Tlicho Investment Corporation has aligned itself with 100 percent ownership of companies and strategic partnerships to provide all your mining needs in the north which include, remote site services, catering, expediting and logistics, civil earthworks construction, bulk fuel and cement sales, bulk commodity transportation (Fuels Cement), full truck load services (FTL), less than truck load services (LTL), heavy haul, freight management services, explosives supply, drill and blast services, site reclamation and remediation services, air transportation fixed wing and helicopter, Ice road construction and maintenance, and hydro power generation. Industrial Construction, Construction Management, Design Build, Pre Engineered buildings.

Dennis G. Romanson, COO
Tlicho Investment Corporation
P: 867.766.4909 ext. 222

Dale Wheaton, General Manager
P: 867.920.7288 ext. 239
C: 867.446.0284



The Tlicho Investment Corporation is owned by the Tlicho Government for the Tlicho people.



BUILDING SUCCESS

ONE

BY MELANIE GREEN

MINES NEED WORKERS. Northerners want jobs. Put those together and you've got the foundation for top-tier training programs. So it's no surprise that the North and its mining industry are proving to be Canadian leaders in local employment. And it's getting better all the time.

PERSON AT A TIME

If you haven't heard of Stacie McSwain, you should know her story. It's one she told to Prime Minister Stephen Harper this summer — and it shows how important training is to Northerners like her. As a young Hay Riverite, McSwain's trajectory is a fine example of the opportunities available in our mining industry, showing that people can start off with a job and end up with a career.

Back in 2007, McSwain was a couple of years out of high school and clocking hours at a local retail outfit. The work was fun and it was nice to be making her own money, but McSwain knew the job did not offer much in the way of future growth. After seeing an ad by the NWT Mine Training Society offering a course in mineral processing, she decided to apply. CONTINUED ...

Need to Know Diamond mining in the NWT has created more than **20,000 person years** of employment for Northerners to date. • **More than half of the Northern jobs** created by diamond mining have gone to **Aboriginal** people. • Almost **400 Inuit** were working at **Agnico Eagle's Meadowbank** mine in 2012, either working for the company itself or its contractors. • The NWT, Nunavut and Yukon are working on a **\$200 million, five-year pan-territorial training strategy** that to prepare Northerners for work in all phases of the mining sector, from exploration and community engagement to site remediation.

COURTESY DOMINION DIAMONDS CORPORATION/DANE BROSHA

“We ran the pilot two years ago and we thought we’d be lucky if we had 11 folks enrolled. We had 24. It was a game-changer.”

Hilary Jones, general manager, NWT Mine Training Society



MAIN: COURTESY DOMINION DIAMONDS CORPORATION/DAVE BROSHA RIGHT: COURTESY CANADIAN ZINC CORPORATION

Three months later, McSwain graduated from the course at Aurora College’s Fort Smith campus, and things began happening fast. De Beers hired her on to train at its Snap Lake mine. A few months later, the company hired her as full time process-plant operator. McSwain found the job challenging and fascinating. Better yet, there was always something new to learn. Not one to lollygag, McSwain also grabbed opportunities for further training: skid-steer loader, forklift and crane operator, plus additional health and safety training.

With smarts and zeal, McSwain eventually earned a promotion. Today, she is a control-room supervisor, overseeing the whole kimberlite-processing operation from behind a bank of computer monitors. On the side,

she gives mine tours, trains new staff and participates on the health and safety committee. There are times when she can’t believe where she has ended up, considering only a few years ago she was in a classroom learning the basics. “I never thought that in four years I’d be here,” she says.

Creating Jobs, Building Careers

Although she never intended it, McSwain has come to represent the new face of Northern mine employees. And there are a lot more people like her across the NWT and Nunavut — people who are finding success thanks to both their own initiative and to long-standing commitments by the private and public sectors to support job training and career development.

Indeed, the NWT and Nunavut have made great strides over the past decade. Today, industry, schools, colleges, and governments — from the federal and territorial to the local and Aboriginal — all are working in partnership to develop Northern workforce capacity. With continuous improvement as a major theme, training is evolving to better meet the challenges that are often barriers to employment: low education rates and social issues in our communities. But the North’s training record to date is already remarkable and the success stories are a powerful driver of continued optimism.

The NWT’s three diamond mines, for example, have created more than 20,000 person years of employment for Northerners to date. About half of those positions have gone to



GOING UNDERGROUND: Trainees from a NWT Mine Training Society course tour operations at Dominion Diamond's Ekati mine. RIGHT: NWT Mine Training Society students from the Deh Cho gain hands-on experience at Canadian Zinc's Prairie Creek project.



Gearing Up in the Deh Cho

With Canadian Zinc poised to begin construction at its Prairie Creek lead-zinc-silver project, the company has been partnering with NWT Mine Training Society and Deh Cho communities to deliver training programs.

Called "More Than a Silver Lining," the 2012/13 program attracted 97 students to 12 different courses, including camp cooking, mining exploration field assistant, diamond drilling, small-engine repair and building trades helper.

Many graduates are expected to find work at the mine, which will require 235 full-time employees. But the training will have further benefits. The skills developed during Silver Lining are marketable and transferable, giving people the opportunity to find work in their communities or elsewhere in the North.

Dene, Métis and Inuit workers, making mining the largest employer of Aboriginal people in the North today. In Nunavut, Agnico Eagle Mines Inc. — the owners of the Meadowbank gold mine, currently the territory's only operating mine — has become a major employer, as well. Now in its third year of production, Meadowbank already employs about 250 Inuit, largely from the nearest community of Baker Lake, and generated some \$20 million in payroll in 2012. Another 136 Inuit were employed by contractors working on the project that year, generating a further \$11 million in payroll.

Northern mines have also proven themselves to be strong supporters of trades training and apprenticeships. Meanwhile, more than 1,300 further individuals have received training through the NWT Mine Training Society

and its partners in various areas, including mineral processing, heavy equipment operation, camp cooking, basic geoscience and construction. The majority have gone on to find work in their fields with various companies.

But the goal is not only to help people find jobs and create a ready workforce for mining companies. It's also about building careers — both by supporting individuals already in the workforce and by creating awareness among youth about the opportunities available to them.

A prime example is the Northern Leadership Development Program, offered through a partnership between the NWT Mine Training Society and Aurora College. Originally developed by Diavik Diamond Mines as an in-house initiative, the Northern Leader-

ship Development Program is geared toward people already employed in industry. The eight-module course equips participants with practical training in communication, team leadership, problem solving and conflict resolution — the stuff of good leaders. And it has found a wealth of interested students. "We ran the pilot two years ago and we thought we'd be lucky if we had 11 folks enrolled," says Hilary Jones, general manager of the NWT Mine Training Society. "We had 24. It was a game-changer."

The mining industry has also been a strong supporter of education, offering a variety of scholarships. De Beers Group of Companies, for example, launched a new program in 2012 to support NWT-resident students studying in mining related fields. CONTINUED...

This is in addition to scholarships the company supports through its impact-and-benefit agreements with Aboriginal communities. Diavik, meanwhile, has distributed more than 1,500 scholarships under various programs through to 2012, with a total value of more than \$2 million. Ekati has a comparable record.

In Nunavut, Agnico Eagle supports education through an annual payment to the Kivalliq Inuit Association, which uses some of the money to support scholarships for Inuit students. This past year, Agnico Eagle also signed an MOU to contribute significant funding to the Nunavut Government to put the PDAC Mining Matters

educational program into the Nunavut school curriculum — a development Nunavut's then-premier Eva Aariak said will provide students with "outstanding learning material on earth sciences, helping them stimulate their interest in careers in the mining industry."


Baffinland Iron Mines, the proponents behind the Mary River project, also supports scholarships through its impact-and-benefit agreement and has a strong policy commitment to training at all levels. Early during the project approvals process, Baffinland also contributed to an Arctic College program to have local Pond Inlet students earn a Diploma in Environmental Technology. And that's just the beginning.

Meeting Future Needs

Though support for higher education is important, the benefits are longer-term. In the meantime, training for mainstay jobs (underground mining, heavy equipment operators) continues due to rising demand. In Nunavut, where several new projects have either been approved or are in the approvals process, "there's going to be a need for a lot of employees, from housekeepers to administrators to engineers to computer techs," says Michelle Buchan, manager of Inuit employment for the Kitikmeot Inuit Association. "Some of our beneficiaries will attend college or university and get their training there. But it's crucial that we target those folks who are not interested in the college route, but have the skills and interest in getting in on the ground floor to be a driller or plumber."

Indeed, the benefits of that route are myriad. Consider the story of Anthony Alonak. Growing up in Kugluktuk, he worked a variety of local jobs: a stock boy at the Northern store, maintenance and coordinator at the rec complex, swamper and then driver of the hamlet water/sewer truck. When he heard about the introduction to underground mining training via Kitikmeot Inuit Association, he jumped for it. (Since there is currently no Nunavut training society, KIA partnered with the NWT Mine Training Society to offer some basic mine training.)

Alonak completed the introductory course in Kugluktuk, trained in Yellowknife for 12 more weeks and then completed his on-site training at Snap Lake. He likes the work, but Alonak also sees a rich road of opportunities ahead. "I can start a career here and challenge myself," he says. "I like setting goals and reaching them. And here, I can work my way up. It takes time, but I'll get there." CONTINUED PAGE 58.




KING MANUFACTURING
Made in the NWT, Canada

Serving the North since 1965

Division of Kingland Ford Sales Ltd.
9 Aspen Drive, Hay River NT, X0E 0R6

Providing Shop & Field Erected Tankage Solutions



We specialize in custom tank fabrication including everything from shop fabricated ULC Double Wall Enviro-Tanks and truck tankage to field erected API 650 tank farm construction.

For Information on how we can help you with your tankage requirements contact us:

Toll Free: 800.719.3888
Phone: 867.874.2373
Fax: 867.874.4819
Email: kingman@kinglandford.com

Or visit us at our website: www.king-manufacturing.com



business

Subscribe to digital editions of Up Here Business magazine. upherebusiness.ca

SHARING

HOW MINING SUPPORTS THE NORTH

Mining matters. Without it, the NWT and Nunavut would be very different places. Government revenues through royalties and taxes — vital to delivering important public services — would be smaller. Job opportunities would be fewer in communities, both large and small. Career prospects for Northerners would be diminished in many fields.

Fortunately, the North is an established mining region. And the benefits are easy to see. In addition to government revenues, the mining industry supports a maturing business and entrepreneurial community, especially among Aboriginal-owned companies. Substantial invest-

ments have also been made in training. The result: Northerners have more opportunities to develop skills and put them to work in satisfying careers with potential for further growth.

Mining also makes a difference at the community level, supporting local arts, culture, education and wellness initiatives, large and small. Trying to put a value on all the benefits mining brings to the North is difficult. But it is possible to get a sense of the scale. You can start here, as Mining North presents a sampling of the benefits mining's contribution. This package is far from complete — but you'll get the picture.

GOVERNMENT

VALUE OF CROWN RESOURCE ROYALTIES SHARED WITH LAND CLAIM GROUPS



29%

The proportion of mining's direct contribution to the GDP of the NWT.

"We cannot deny that mining and resource development is the foundation of our territorial economy."

David Ramsay, NWT Minister of Industry, Tourism and Investment.

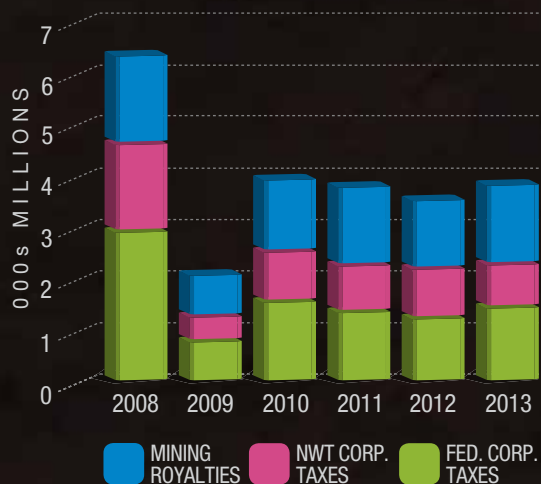
26%

The proportion of mining's direct contribution to Nunavut's GDP.

"Nunavut's mining sector represents at least a quarter of our economy. Its rapid growth explains why Nunavut's economic growth was the highest in Canada for both 2010 and 2011."

Peter Taptuna, Nunavut Minister of Economic Development.

TAXES PAID BY DIAMOND MINES



NUGGET: On April 1, 2014, the federal government will devolve power over resources to the government of the NWT. Under the new arrangement, the territorial government will gain decision-making authority over the use public land, water and resources. It will also share in Crown royalty payments (up to \$60 million a year), which will be further shared with aboriginal governments.

Nunavut does not have a similar devolution agreement. Inuit, however, benefit directly from mining through royalties paid on resources extracted from land they now own under the Nunavut land claim. In 2012, Angico Eagle paid \$2.2 million for work at its Meadowbank gold mine to Nunavut Tunngavik Inc, the land claim's governing body. It was the first-ever payment made under the claim. The value of payments to NTI is expected to soar as mining activity increases in the territory.

BUSINESS

\$9.3 billion
Value of diamond mining to Northern business (1996-2011).

WHAT THE MEADOWBANK MINE MEANS FOR NUNAVUT'S ECONOMY:

\$2 BILLION Total spending on the Meadowbank mine between 2007 and 2012

56
NUMBER OF ABORIGINAL

BUSINESSSES CREATED TO PROVIDE SERVICES TO NWT DIAMOND MINES

WHO ARE WE WORKING WITH? HERE'S A SAMPLE: COMPANIES OWNED BY THE YELLOWKNIVES DENE FIRST NATION (DET'ON CHO CORP.) Bouwa Whee Catering • Det'on Cho Logistics • Det'on Cho Mining Supplies • Det'on Cho Scarlet Security • Det'on Cho Medic North • KeteWhii/Procon COMPANIES OWNED THE TLICHO DENE (TLICHO INVESTMENT CORP.) Tli Cho Logistics • Tli Cho LandTran • Tli Cho/Orica Mining Services • Tli Cho Comco, Air Tindi/Tlicho Air COMPANIES OWNED BY THE LUTSEL K'E FIRST NATION (DENESOLINE CORP.) Denesoline Western Explosives • Ventures West

THE WEALTH

EMPLOYMENT

9,500

1,500

Approximate number jobs held by Northerners at diamond mines each year. The total is 35% more than what the mines projected during their planning stages.

19,000

Person-years of northern employment created by diamond mining between 1998 and 2010.

\$33.7

 MILLION

Total wages to Inuit employees in 2012 by Agnico Eagle and contractors at Meadowbank/Meliadine projects

NUMBER OF PERSON-YEARS OF EMPLOYMENT IN ABORIGINAL COMMUNITIES CREATED BY DIAMOND MINING BETWEEN 1996 AND 2011, MORE THAN HALF OF TOTAL NORTHERN EMPLOYMENT.

COMMUNITY INVESTMENT

\$102

 MILLION

Value of community investments over the past 15 years by diamond-mining companies in the NWT.

The funding has supported a range of activities, from social events like hand-game tournaments to enhanced school programming in communities covered by impact-and-benefit agreements, literacy programs, health programs, and cultural and recreational programs. Organizations that have benefited from the investment include: Aven Cottages Territorial Dementia Centre, Chekoa House, Folk on the Rocks, Hay River Hospital Foundation, Wekweeti Arbour, Habitat for Humanity NWT, Skills Canada NWT, and many more.

250

 Number of computers presented by Baffin Iron Mines Corp. to graduating

high school students in Hall Beach, Arctic Bay, Igloodik, Pond Inlet and Clyde River between 2007 and 2011. Baffinland has since added the communities of Kimmirut and Cape Dorset to its program.

2

 The number of years it takes to complete Nunavut Arctic College's Environmental Technology diploma program. In 2012, the college launched the program in Pond Inlet, thanks in part to financial support from Baffinland Iron Mines Corp. The program does more than train individuals for potential careers at the Baffinland's Mary River project. Graduates also have skills to support work at three nearby national parks and a proposed marine mammal sanctuary in Lancaster Sound. The program was recognized by Tides Canada as one its Top 10 initiatives for 2012.

\$768

MILLION
Money spent with Nunavut-based companies

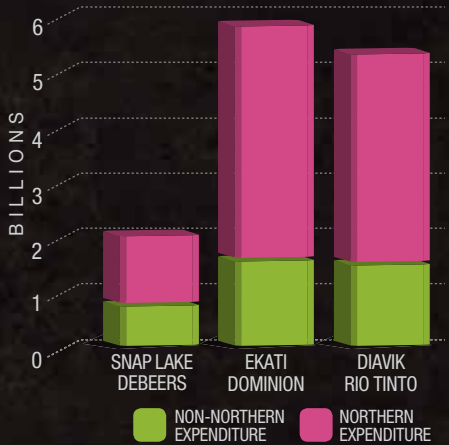
\$519.1

MILLION
Money spent with NTI-registered companies

\$307.4

MILLION
Money spent with companies in Baker Lake, the nearest community

VALUE OF SPENDING WITH NORTHERN BUSINESS BY DIAMOND MINES ('96-'11)



NUGGET: Baffinland Iron Mines completed its 2013 sealift in October of this year. The contract for the job — valued at approximately \$60 million — went to a pair of majority Inuit owned companies: Nunavut Sealink and Supply Inc. and Nunavut Eastern Arctic Shipping Inc. The entire lift totaled approximately 33,000 tonnes, using nine dry cargo vessels and three fuel vessels.

“A successful sealift operation takes meticulous plan-


ning and execution in order to be safely and effectively completed,” said Ron Hampton, Baffinland’s vice-president and project director. “The Baffinland team, along with the knowledge of our Inuit-owned partners, allowed our project to get underway on schedule.” This year’s sealift will support construction of the Mary River iron ore project, which will continue through 2014, with start of production expected in 2015.

Need to Know Joint ventures between Northern companies and experienced partners are a key strategy for building local expertise. • Northern firms bring unique knowledge of the region to their work, an important quality considering the challenges of the environment. • Some mining companies workshop their needs with Northern contractors and may even tailor some contracts to meet the capacities of local businesses. • Northern companies that have grown alongside mineral development in the region have matured to the point they are looking at business opportunities further afield.

BY BILL BRADEN

OPEN FOR BUSINESS

As mineral development has grown the in North, so have the skills and capacity of the Northern mine services sector. If you need it, they've probably got it.



GETTING IT DONE: A full-fledged business community has developed in the North to serve the mining industry. **RIGHT:** Jacquelynn Baran, a sous chef with Det'on Cho Corp.'s Bouwa Whee Catering, preps dinner for workers at Diavik mine.

Mineral production in NWT and Nunavut topped out at more than \$2.3 billion in 2012. Nice number eh? But it tells only part of the story when it comes to the value of mining in today's North. That production number courses through the economy like a vein of gold in a quartz showing. One of the most important channels is the North's service and supply sector, which keeps the NWT and Nunavut's five operating mines (and multiple exploration projects) fuelled, fed and functioning.

Essential today and vital for tomorrow, the mining services sector has been characterized by dynamic expansion, driven by Northern entrepreneurs seeking a share of the opportunities at hand. And many of those entrepreneurs are from Inuit and First Nations communities, which have become successful players in a competitive and demanding game.

Add it up, and you'll see that the North is home to a vibrant mine-services sector, one that's grown year-over-year since the Great Diamond Rush of the early 1990s. Here's how Northern entrepreneurs are meeting — even exceeding — the mining industry's needs.

Building Relationships, Growing Business

"A few years ago, I didn't think we'd have that many Northern employees, let alone aboriginal," says Vince Halushka, general manager of Bouwa Whee Catering, a company owned by the Yellowknives Dene First Nation through its Det'on Cho Corp. Halushka is tallying up a spreadsheet listing the 250-plus people he employs in kitchens and camps for the Diavik and Snap Lake mines, among other businesses. With a Northern hire rate of 80 percent, a third of whom are Aboriginal beneficiaries, he's got every reason to be proud of Bouwa Whee's performance. "It's Det'on Cho's largest company, and clearly our flagship," he says.

Launched 25 years ago, Det'on Cho now has 16 subsidiaries, many of which serve the mining industry. The focus and determination of the corporation's leadership has certainly been the foundation for Det'on Cho's success. But a share of the credit belongs to the management at the Ekati, Diavik and Snap mines, who Halushka says have a "first-class" attitude toward fostering Aboriginal companies and making them sustainable across the North.

Det'on Cho Corp. is clearly one of the standout successes, but it shares a common thread with many others: Northern start-ups

that joint venture with more seasoned partners to learn the ropes, in several cases eventually taking 100 percent ownership of the companies.

That model helped make Tlicho Investment Corp., owned by the North Slave region's Tlicho government, a major player with a portfolio companies including outfits such as Tlicho Logistics, Tlicho Landtran and Aboriginal Engineering Ltd. And it's now becoming a core business strategy in Nunavut. Agnico Eagle Mines, owner of the Meadowbank gold mine near Baker Lake since 2008, is forging ahead with the Meliadine property near Rankin Inlet. Graeme Dargo, superintendent of communications and community affairs in Nunavut, says they're seeing a lot of joint ventures coming together. "We want service based on what I call the Three P's: product, price and people," Dargo says. "With expertise from the south with companies expert in mining, there's starting be some pretty decent exchanges with new Nunavut companies."

To aid in the development of the mining services sector, Agnico Eagle has created the Inuit Business Opportunities Initiative as part of its "best-effort" IBA commitment to support local contractors. Through the initiative, the company keeps a database of Northern business, work-shopping its needs with local firms and even tailoring its contracts to suit the scope and capacity of a given company. Since beginning its \$1 billion investment at Meadowbank in 2008, 48 percent of the spending has gone to Nunavut suppliers, Dargo says. "And that's a chunk of change. It's not recycled government money, it's new."

Though the opportunities are substantial, Dargo also notes they come with challenges. One of the most significant: the lack of a ready workforce. For that reason, industry, governments and communities are partnering on training programs, which have already yielded positive benefits to mining and mine services companies. Dargo adds he's optimistic that, in time, businesses in larger centres such as Rankin Inlet will be positioned to take on opportunities.

Leveraging the Northern Advantage

TMAC Resources recently took over the sprawling Hope Bay gold project 90 kilometres south of Cambridge Bay. Its previous developer, world giant Newmont Mining, had set up a strong network of regional suppliers, but TMAC is building its own team.

"Our strategy, for at least the first year, will be building strategic relationships with very



key contractors and suppliers, and those suppliers who have a Northern heritage," says Gordon Morrison, TMAC's president. "We use Northern contractors almost exclusively," he adds, listing a who's who of NWT and Nunavut operators including First Air, Canadian North, Buffalo Air and Great Slave Helicopters for air support, BBE for logistics, and Nuna Logistics, its principal operations contractor.

"All those fears that people had about working in the Arctic — that costs are going to skyrocket, problems with supply chain, that's not happened. That's because the people in the North have responded beyond the expectations that we have," Morrison says. CONTINUED...

“If you’re working in the Arctic, you want to have people who want to be there, who enjoy working the Arctic ... It’s their backyard, that’s why we use them.” That attitude is backed up by other companies operating in the North. Over at Diavik Diamond Mines, for example, communications advisor Doug Ashbury says, “Northern companies have a real understanding of the environment. They know the neighbourhood, so working with Northern companies makes good business sense.”

Momentum in Challenging Times

In the exploration game, it falls on the camp expeditor to pull together the intricate bundle of services to keep both the camp running smoothly and the client happy. And at thousands of dollars a day, there’s not much tolerance for shortages or delays because of a lagging supplier. With more than two decades in the industry, Yellowknife-based Discovery Mining Services, a subsidiary of Discovery Air,

has seen a steady build up of Northern businesses looking for a share of the action, says president Andy Young. He echoes that joint ventures, combined with supportive mining company clients, are what give Northern owners the best chance to meet the challenge.

But the big limiting factor to sustained expansion, Young says, is the North’s sparse population and shortage of skilled workers. Exploration fieldwork tends to be remote and short term, meaning jobs are just too scarce and short-lived to build much resident capacity North of 60. As a consequence, Discovery recruits a lot of its camp staff from outside the territories — not ideal, but essential to provide clients with the service they need.


Young also offers the sobering observation that in the current investment climate, there’s not much room for new starts. With the global metals slowdown, the drought of junior financing, and corporate belt-tightening over the past three years, suppliers and operators are all being squeezed to do more for less. “Competition’s always good. We need to have opportunities created that will help grow the service sector,” he says.

But even if the resource investment climate is in a lull, the larger Northern business story still has momentum. “They’re moving forward. Northerners are working at meeting the expectations of the clients,” Young says. “And it builds capacity not only for the [mining] client, but for the region.”

Another seasoned Northern mining hand, Chris Hanks, has worked in the diamond fields of the NWT and more recently at Hope Bay during Newmont’s tenure, building community and corporate capacity. He’s seen a lot of change. “It’s an exciting time for the NWT and Nunavut,” Hanks says. “Over the past 20 years, the mining services sector in the North has matured. Companies like Tlicho have developed from land claims companies protected under IBAs to competitive businesses.”

Building on the lessons of the past two decades, the North’s entrepreneurs and Aboriginal companies are making an impact in their hometowns and regions. Living by the *carpe diem* motto, they’re also taking on what used to be the domain of outsiders. Fact is, they might even be turning that around. Vince Halushka at Det’on Cho says they’re looking at potential opportunities outside of the NWT, and he’s been getting calls from Yukon, Saskatchewan and Ontario, asking his advice on how to build a great Aboriginal business. “If they want to be where we are in 10 years, we can help,” he says.

Carpe diem, to be sure. ■



Workers’ Safety
& Compensation Commission

ᐃᔪᐆᐃᔭᐃᔭᐆᐆᐆᐃ ᐃᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱ
ᐱᐱᐱ ᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱ

The WSCC’s vision is to eliminate workplace diseases and injuries.

- We work with our partners in the mining industry to foster a strong Northern safety culture.
- With our partners, we offer safety education courses and resources to stakeholders across the North.
- We continually look for like-minded individuals to join our team of safety professionals.

safety & care

Contact us | wscc.nt.ca 1.800.661.0792 | wscc.nu.ca 1.877.404.4407



GO MOBILE.

**MAKE YOUR SITE WORK FOR EVERYONE.
EVERYWHERE.**

We know that more and more people in the North are accessing the web with their mobile devices. That's why we build sites that are mobile-friendly and device-responsive. That's why we're the North's most advanced digital solutions team. We're Outcrop. We make it easy to connect.



YUKON / NORTHWEST TERRITORIES / NUNAVUT

OUTCROP.COM

facebook.com/outcropcom  
twitter.com/outcropcom

Not all diamond exploration was focused around Lac de Gras or Kennady Lake. Far from the diamond mines, Olivut Resources commenced a low level-helimag geophysical survey over selected high priority targets on their Hoam property, near Fort Simpson, and Talmora Diamond Inc. continue to analyze new data from their 2012 exploration on the Horton River project, 150 kilometres south of Paulutuk.

METAL EXPLORATION

Avalon Rare Metals' completed a feasibility study in Q2 2013 on their Nechalacho rare earth element deposit of their Thor Lake property, approximately 100 kilometres southeast of Yellowknife. In July, the MVEIRB completed its report on the Environmental Assessment Report, and Avalon received conditional approval for their project. Avalon concentrated on improvements to the concentrator design and hydrometallurgical process. Pre-construction work has been delayed until further financing and adjusted plans incorporate a shorter production start-up time. A four-hole infill drill program targeting the high-grade zone this summer was located near the planned decline to provide mill feed upon start-up. A new internal mineral resource was completed with the addition of eight drill holes from winter 2013 and the final 41 holes from summer 2012.

Canadian Zinc Corp. received its type "A" water license, the final permit needed for construction, development and operation at the Prairie Creek lead-zinc project, 500 kilometres west of Yellowknife. In September, a drill was mobilized one kilometre from the mine site and adjacent to the current defined mineral resource for a five-hole surface drill program.

Fortune Minerals Ltd. secured a land-access agreement with the Tlicho government to complete geotechnical, detailed engineering, and construction preparations for the NICO gold-copper-bismuth-cobalt project, 160 kilometres northwest of Yellowknife. The MVEIRB submitted its Environmental Assessment Report in January to the Tlicho government and the Minister of Aboriginal Affairs and Northern Development Canada for their approval and signa-

ture of the mine and mill. Fortune Minerals and Procon have agreed to work on advancing the project under a private-placement agreement.

Seabridge Gold Inc. drilled 8,278 metres in winter 2013 after their 2012 Walsh Lake discovery of the Courageous Lake project, 240 kilometres northeast of Yellowknife. The objective of the program was to define

bility Study for their R-190 and N-204 deposits with an upgraded mineral resource for nine deposits referred to as the Cluster Pits. Tyhee Gold Corp. concentrated on financing of its YGB gold project, 60 kilometres north of Yellowknife.

Grassroots exploration continues at a subdued pace with the inability of some junior companies to raise money on the market.



FORTUNE MINERAL'S gold-cobalt-bismuth-copper project in the Tlicho region has a greenlight from the federal and Tlicho governments. It is now in the permitting process.

COURTESY FORTUNE MINERALS


a new resource and to add to the Mathews Lake Greenstone Belt gold resource. Walsh Lake is 10 kilometres south of their Fat deposit containing a 6.5-million ounce proven and probable reserve. Metallurgical tests on the Walsh Lake deposit reveal a head grade range on three separate drill composite samples of 2.9 to 12.2 grams per tonne gold. The gold from the samples is not refractory. Cyanidation leach tests recovered 93.88-95 per cent recoveries over 48 hours and flotation recoveries ranged from 95 per cent with high grade to 88 per cent with the lower grade material.

A few companies were not able to raise exploration funds for their advanced projects but managed to release updated NI 43-101 technical reports including: Tamerlane Ventures' Pine Point lead-zinc project near Hay River, and Nighthawk Gold Corp.'s Colomac's gold project, Indin Lake property, 220 kilometres north of Yellowknife. Tamerlane released a NI 43-101 technical report for development of its Pine Point Project by combining results of a 2012 Feasi-

Gold exploration is focused close to Yellowknife, on formerly examined properties including **North SUR Resources Inc.'s Uptown Gold**, and **TerraX Minerals' Northbelt properties**. **North Sur** commenced a field program in September including sampling with a "winky" drill. TerraX re-logged and re-analysed historic drill core from 200 drill holes and surveyed 123 drill collars at the Crestaurum deposit, Northbelt property 15 kilometres north of Yellowknife.

Near the Arctic coast, **Darnley Bay Resources** completed a magneto-telluric survey on their Paulutuk base metal project in October, while in the Mackenzie Mountains near the Yukon, Carlincore Resources conducted a silt and soil sampling program on the Hudex and DJ properties.

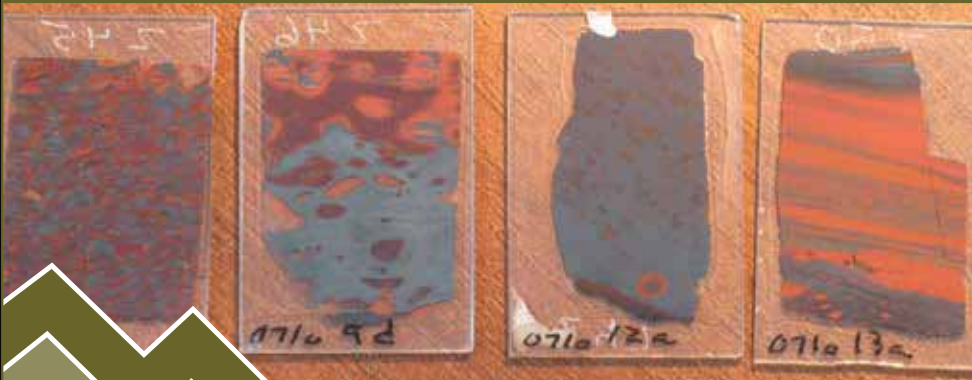
Prospectors worked approximately five properties targeting gold, nickel and rare earth elements.

The difficulty remains in raising money for new ideas and new areas of exploration; previous targets with known mineralization continue to be re-worked. 

NORTHWEST TERRITORIES GEOSCIENCE OFFICE

RESEARCH • ANALYSIS • INFORMATION

DISCOVERY STARTS HERE



For more information, please visit our website or call us at: (867) 669-2636



www.nwtgeoscience.ca

nunavutupdate

CONTINUED FROM PAGE 26.

MMG requested a halt to the permitting process for the project in April, as the company examines options to improve its economic viability. A revised project description is expected to be submitted in December, and may include development of the Hood copper-zinc deposits.

KIVALLIQ

Gold is also a key exploration target in the Kivalliq region, along with uranium. The territory's sole operating mine is Agnico Eagle Mines (AEM) Ltd.'s Meadowbank gold mine, located north of Baker Lake. In the first six months of 2013, the mine produced 173,691 ounces of gold at total cash costs per ounce of \$986, as compared to 177,084 ounces at \$901 per ounce in 2012. The lower number of ounces produced reflect the lower realized grade in 2013 despite a higher tonnage being processed and lower mine site costs per tonne. Exploration at Meadowbank in 2013 had a budget of \$3.6 million, consisting of 21,600 metres of exploration, conversion and delineation drilling. AEM also controls the Meliadine gold project, near Rankin Inlet. The budget for work on the property was reduced to \$80 million for 2013, and consisted of a planned 80,000 metres of drilling, as well as the completion of a 24-kilometre all-weather road from site to Rankin Inlet. For 2014, AEM has reduced its proposed expenditures from \$125 million to \$45 million; planned work includes exploration drilling and continued development of the exploration ramp.

Three junior exploration companies were also exploring for gold in the Kivalliq in 2013. Prosperity Goldfields Corp. completed a 4,427-metre winter drill program at its Kiyuk gold project in the southwest corner of the region, but was forced to curtail further planned work due to difficulties in finding investors. Northquest Ltd. completed 2,016 metres of drilling at its Pistol Bay gold project near Whale Cove, along with ground geophysical surveys and surface reconnaissance work. Anconia Resources recently started a drill program with up to 2,000 metres of drilling budgeted at its polymetallic zinc-copper-lead-silver-gold ATLAS-1 project to follow-up work from its 2012 program.

Joint venture partners AREVA Resources

NTCL
Northern
Relation-SHIPS.

Northern Transportation Company Limited
Suite 1209, 10104-103 Avenue
Edmonton, AB Canada T5J 0H8
1.866.935.6825 charters@ntcl.com



Canada Inc., Daewoo International Corp. and JCU Exploration (Canada) Co. Ltd., control the most advanced uranium project in Nunavut, Kiggavik. The project is currently in the regulatory process. Following a preliminary hearing conference in Baker Lake in June, the Nunavut Impact Review Board (NIRB) issued a report that sets out the commitments AREVA must adhere to when preparing the Kiggavik Final Environmental Impact Statement (FEIS). AREVA has stated that it intends to submit the FEIS by Sept. 30, 2014. Exploration at the project continued in 2013 with ground geophysical surveys and 10,593 metres of diamond drilling. Kivalliq Energy Corp. controls the Angilak uranium project, located southwest of Baker Lake. Exploration on the project in 2013 included diamond drilling and geochemical surveys; two new uranium discoveries have been announced as the result of this work.

QIKIQTAAALUK

The primary commodity of interest in the Qikiqtaaluk region is iron, with exploration also on-going for base metals and diamonds. Baffinland Iron Mines Corp. controls the Mary River iron project, located on northern Baffin Island. Late in 2012, NIRB issued a project certificate that authorizes Baffinland to proceed with its plans for the site, which would include mining 18 million tonnes of iron ore per year which would be transported to Steensby Inlet by a proposed 150-kilometre railway, and then overseas via year-round shipping, with estimated capital costs of \$4 billion. Almost immediately after this issuance, the company announced its intention to proceed with an "early revenue phase" that would decrease the initial capital investment needed to \$740 million, decrease initial production to 3.5 million tonnes per year, and defer the railway and port at Steensby Inlet in favour of transporting the ore via the existing Milne Inlet tote road and port, and seasonal shipping. These changes will require an amendment to the project certificate, and are under review now. Baffinland announced in September that an Inuit Impact Benefit Agreement had been signed with the Qikiqtani Inuit Association, and that a positive construction decision had



FORTUNE
MINERALS LIMITED

TSX:FT | OTC QX: FTMDF

Emerging Canadian Producer of Metallurgical Coal, Gold and Specialty Metals



Join our email list



- Two development projects in permitting – Both have Positive Feasibility Studies
- Arctos Anthracite Project, BC: One of the world's premier metallurgical coal developments
- NICO, Northwest Territories: Significant gold, cobalt and ~15% of the world's bismuth reserves
- Deloitte engaged to secure strategic partners – POSCO & China CAMC Engineering already invested

fortuneminerals.com | 519.858.8188

Integrated Business Solutions

SLR's global mining team provides you with integrated engineering and environmental business solutions.



Dr. Leslie Gomm
Ph.D., P.Eng.
20+ Years Experience

- Water Resources Engineering
- Water Quality
- Environmental Assessment



Dr. Ian Hutchison
Ph.D., P.Eng.
40+ Years Experience

- Minesite Infrastructure & Design
- Mine Waste Management
- Mine Closure & Remediation



Stephen Morison
M.Sc., P.Geol.
30+ Years Experience

- Project Strategy & Management
- Environmental Assessment
- Facilitation & Mediation



Talk to us about your project needs.

1.867.689.2021

www.slrconsulting.com



DYNO
Dyno Nobel
Groundbreaking
Performance

POLAR
POLAR EXPLOSIVES LTD.

DWE
DENESOLINE WESTERN EXPLOSIVES INC.

Ph: 867-920-2343 **Ph: 800-565-8375**
Yellowknife Head Office *Calgary Head Office*


www.dynonobel.com

been made for the project. Production is anticipated to begin in 2015. There are several other iron projects in the region, including Advanced Explorations Inc.'s Roche Bay and Tuktu projects, West Melville Metals Ltd.'s Fraser Bay project and Canadian Orebodies Inc.'s Haig Inlet project, but none were active this year.

Two companies were exploring for base metals in the region in 2013. Vale Canada Ltd. continued exploration on the Melville Peninsula this year at its West Melville nickel project. Aston Bay Holdings Ltd. has an option from Commander Resources Ltd. to explore the Storm copper project on Somerset Island. This year the company acquired historic data from a previous operator to better understand the mineralization at Storm. A brief exploration program was also conducted to complete additional sampling of historic drill core and to collect rock and soil samples.

Peregrine Diamonds owns the Chidliak diamond project located on the Hall Peninsula northeast of Iqaluit. In the spring of 2013, Peregrine funded and operated a bulk sampling program that collected a 508 wet tonne bulk sample from the CH-6 kimberlite; the sample is scheduled to be processed for diamond recovery late in 2013. During the summer, De Beers Group of Companies completed a \$2-million exploration program at Chidliak under the terms of an option agreement signed with Peregrine in 2012 — the agreement gives De Beers exclusive right, until Dec. 31, 2013, to enter into a joint-venture agreement with Peregrine on the property. Two new kimberlites were discovered at Chidliak as the result of this program. A third kimberlite was discovered on the property by government geologists working for the Canada-Nunavut Geoscience Office during the Hall Peninsula mapping program.

Despite waning commodity prices and difficult market conditions, Nunavut is still experiencing considerable levels of exploration activity, discoveries are being made, and several projects continue to advance through, or have completed, the regulatory process needed before they can move to production.

For more information visit www.nunavut-geoscience.ca 



AURORA GEOSCIENCES

Kimberlite

If only it were this easy.
www.aurorageosciences.com

**Yellowknife
Whitehorse
Juneau**



Locally owned and operated for over 40 years!



Complimentary Customer Pick-Up
Replacement Vehicles
Insurance

Reservations, Out-of-town and Worldwide Toll-Free
1-800-387-4747

YELLOWKNIFE AIRPORT, 101 Bristol Court Airport
Email yk_ncr@live.ca

For worldwide service please call
1-800-CAR-RENT / 1-800-227-7368

www.nationalcar.ca



Tapping into our Vast Potential

Resource development is a crucial part of the Northwest Territories economy. Vast potential in the mining sector, combined with a renewed focus on developing that potential, ensures that mineral exploration and development will long remain a key industry here.

Mining in the NWT and continued investment in exploration and development creates jobs, opens up educational opportunities, and strengthens northern businesses. The Government of the Northwest Territories is committed to encouraging and supporting environmentally sustainable mineral development that will help to create a sustainable economic future for northern communities.

For more information about the NWT mining sector, visit www.iti.gov.nt.ca/mineralsoilgas



Over 45 years experience
serving the North



Let us do the dirty work!

- General Contracting
- Water and Sewer Installation
- Ice Road Construction
- Crushing and Aggregate Supply
- Mining Support Services
- Industrial Remediation
- Ready Mix Concrete

Head Office

350 Old Airport Road
PO Box 1807
Yellowknife, NT X1A 2P4
Phone: 867-873-6271
Fax: 867-920-2661
admin@rtl.ca
www.rtl.ca



CONSTRUCTION

FORACO

FORACO CANADA LTD. SERVING THE GLOBAL MINING INDUSTRY

Diamond Drilling



Surface Drills to 3000 Metres



RC, Large Diameter Bulk Sampling



Oil Sands Coring



Skid and Track Mounted & Heliportable Drills

Kamloops, BC

2007 West Trans Canada Hwy
Kamloops, BC V1S 1A7
Tel: 250.374.3366
Fax: 250.374.9212
1.855.374.3366

Yellowknife, NT

139 Enterprise Drive, Box 280
Yellowknife, NT X1A 2N2
Tel: 867.873.2533
Fax: 867.873.6097

Calgary, AB

#305-10820, 24th Street S.E.
Calgary, AB T2Z 4C9
Tel: 403.279.3161
Fax: 403.279.3261

North Bay, ON

1839 Seymour Street
North Bay, ON P1A 0C7
Tel: 705.495.6363
Fax: 705.495.4951
1.877.795.6363

www.foraco.com

TSX:FAR

Looking ahead, the NWT and Nunavut are going to need more people like Alonak. Current projections put the need for new mine employees at 1,400 in the NWT and more than 3,000 in Nunavut, assuming that all projects recently approved or working through the regulatory process go ahead. Furthermore, those projections don't take into account indirect employment and future demand based on all phases of mineral exploration

and development, from early community engagement to site remediation when mines reach the end of their lives. When those opportunities are factored in, the demand for workers across the North rises even further to 14,000, according to projections by the NWT Mine Training Society.

To meet these needs, Northern training organizations will require considerable support. Some has already arrived — delivered by none

other than the Prime Minister himself. On his Northern tour this summer, Stephen Harper announced \$5.8 million for job-training initiatives in the NWT, the final instalment of the territory's share of the national Skills and Partnership Fund. Substantial support has also come from the federal government's Aboriginal Skills and Employment Partnership. But both of these programs have either reached or are nearing the end of their five-year lives. New funding sources need to be developed.

To address the challenge, the NWT, Nunavut and Yukon teamed up to create a working group to develop a pan-territorial mine-training strategy. The group submitted its estimate to the federal government last year, calling for \$200 million for programs over the next five years, with territorial partners, including mining companies, shouldering half of the costs. That ask is now being reinforced with labour-market research compiled in partnership with the national Mining Industry Human Resources Council, which is determining mine-employment needs projects and the amount of money required to keep up.

Continuous Improvement

According to Jones at the training society, the new funding would be used to offer training beyond the bread-and-butter "trades and technologies" jobs (heavy equipment operators and camp cooks), to careers in exploration, community engagement and mine clean-up. "We target the jobs that have the best opportunities for long-term sustainable employment," Jones says. "Let's face it, we'll have mines shutting down and we'll need the skill sets to do that. And, on the other end, if you don't have boots on the ground looking for the rocks, they won't find you anything to mine."

Early steps are being taken to meet these goals. The Mine Training Society, for instance, has launched a five-week program to train people for work as geoscience field assistants, preparing them for entry-level positions in mineral exploration. Among the course load are modules on basic geology, sampling, prospecting and surveying, along with coursework in orienteering and first aid. It's also rolling out its "Mining the Future," which, among other goals, focuses on removing barriers to employment in the Northern mining sector.

And there's more to come. Much more. With ongoing partnerships between governments, industry and communities committed to that vision, combined with building on past successes, the North's employment future will be bright indeed. **M**

Serving Mining & Exploration, Oil & Gas, Remediation Projects, Construction Sites



**We've
got
remote
under
control.**

- Connecting you to business
- Semi-permanent camps
- long term camps
- Phone, fax, computer network
- Flexible data packages
- Secure VPN
- Custom solutions
- Wireless networking
- Satellite TV
- On-call support
- Canada wide deployments
- Northern owned & operated



T: 867.765.2020
F: 867.765.2021
sales@cascom.ca

PARENTY REITMEIER TRANSLATION SERVICES



Professional Translation Services
in over 100 languages including:

French, Inuktitut and Inuinnaqtun

We translate technical and
business documentation:

- Manuals
- Catalogues
- Brochures and Marketing Materials
- Training Materials (Printed and Video)

We offer voice-over
and subtitling services for:

- Websites
- Software
- Audio and Visual Material



HELPING THE WORLD COMMUNICATE

www.parentyreitmeier.com
Telephone: 204.237.3737
Toll Free: 1.877.445.3737
Email: contact@prtranslation.com

Northwest Territories & Nunavut Association of Professional Engineers & Geoscientists



NAPEG
WWW.NAPEG.NT.CA

If you are a Geoscientist or Engineer working North of 60°,
don't forget to register as a Professional.

If you are already registered with a Canadian Professional
Association, it is easy to add a northern registration.



NAPEG... Integrity and Excellence

NORTHERN OWNED
& OPERATED



PROTECTING what matters most

Fire Prevention Services Ltd.
is the North's only full
service company offering
design, installation
and servicing
of all your
fire protection
system requirements.

INSPECTIONS, TESTING & MAINTENANCE

Is your inspector:

- Properly Certified?
- Adequately Insured?
- Up to date on Training & Technologies?

We take the worry out of Fire Prevention!



Reports available online 24/7

#1 Melville Drive, P.O. Box 2422, Yellowknife, NT X1A 2P8
Phone: 873-3800 TOLL FREE in NWT & Nunavut: 1-888-202-4091
www.ykfireprevention.ca



THERE'S SAFETY IN OUR NUMBERS



Staffing

First Aid

Safety

1984 Nunavut, a division of the 1984 Group of
Companies, provides complete site-specific safety
and staffing solutions for the resource sector. From
dual-position kitchen support personnel, first-aid
equipment rental and trained safety professionals to
the implementation of entire safety programs -
we've got you covered.

5th Floor, 838 West Hastings St. Vancouver, BC V6C 0A6
t: 604.736.8142 • f: 604.736.8119 • tf: 866.462.1984

www.1984inc.com



OPENING WINDOWS O

Become a member of the NWT & Nunavut Chamber of Mines, and become a part of the predominant voice of mineral exploration and development in the Northwest Territories and Nunavut. Established in 1967, the Chamber of Mines represents hundreds of members including geoscientists, prospectors, engineers, entrepreneurs, exploration



NWT & Nunavut Chamber of Mines, Box 2818, Yellowknife, NT X1A 2R1
Tel: (867) 873-5281 • Fax: (780) 669-5681 • Email: info@miningnorth.com

A photograph of a wooden cabin window. The window is framed by dark wood and has a view of a snowy mountain range and a blue sea with icebergs. In the foreground, a stack of rocks is visible on the windowsill.

N NORTHERN MINING

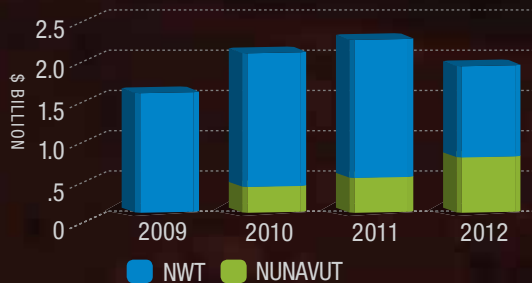
companies, suppliers, mineral producers, and associations that are engaged in mineral exploration and development in the NWT, Nunavut and throughout the world. Through leadership, advocacy, and partnerships, the Chamber of Mines promotes a healthy environment and business climate for the minerals industry.

Past, Present ... and a Potential Future

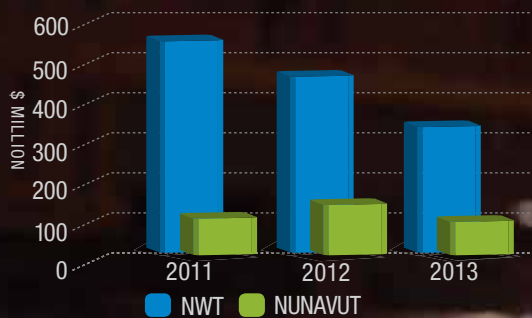
Mining is an important part of the Northern economy today. It has been an anchor of the past — and it is a promising foundation for tomorrow.

Today Trends in Spending on Northern Mining

VALUE OF MINING PRODUCTION IN THE NWT & NUNAVUT



EXPLORATION SPENDING AND DEPOSIT APPRAISAL SPENDING



Tomorrow An Optimistic view of Future Potential

NORTHWEST TERRITORIES

6 Potential new mines, coming on stream as diamond mines mature.

1,650 Potential jobs at peak of new mining activity.

\$12 BILLION Potential life of project expenditures

\$2 BILLION Potential capital investment

25,000 Potential total person years of employment in the mining sector

NUNAVUT

10 Potential new mines, covering Nunavut's three regions.

7,000 Potential jobs at peak of new mining activity.

\$35 BILLION Potential life of project expenditures

\$10 BILLION Potential capital investment

100,000 Potential total person years of employment in the mining sector

Yesterday What Mining Has Been Worth Over Time

\$60 BILLION Value of mineral production from the NWT and Nunavut since 1932 ... and the mines that produced the wealth.

- DIAMONDS** Ekati, Diavik, Snap Lake
- GOLD** Meadowbank, Con, Giant, Lupin, Discovery, Supercrest, Ruth, Colomac, Tundra, Camlaren, Ptarmigan, Tom, Mon, Cullaton Lake, Salmita, Hope Bay, Negus, Thompson-Lundmark, Rycon, Bullmoose
- LEAD/ZINC** Polaris, Nanasivik, Pine Point
- URANIUM** Rayrock, Contact Lake
- TUNGSTEN** Cantung, Outpost Island
- NICKEL** North Rankin Inlet
- SILVER** Terra, Norex, Silver Bay, Contact Lake, El Bonaza
- RADIUM** Eldorado

(Sources: Natural Resources Canada, NWT & Nunavut Chamber of Mines)



A GOLD BRICK from Agnico Eagle Mines Ltd.'s Meadowbank mine, near Baker Lake. The opening of the mine has created numerous local job and business opportunities.

Complete support... for the life of your mine

LOGISTICS AND EXPEDITING

Det'on Cho Logistics

Customized solutions to move more than 20 million lbs. of freight and more than 6,500 people per year to and from site.

CONSTRUCTION

Det'on Cho Construction

State-of-the-art equipment for year-round site and road preparation/production (even through the harshest northern winters).

CATERING, JANITORIAL AND CAMP MANAGEMENT

Bouwa Whee Catering

Feeding more than 1,000 employees every day at mining camps across the NWT. And that's just the start.

REMEDIATION

Det'on Cho Nuna

Care and maintenance at one of the most complex remediation sites in Canada: Giant Mine.



Creating Prosperity For
The Yellowknives Dene





Our Claim... a serious commitment to a resourceful future.

In the mining business, the stakes are high.
Getting crews and equipment to site could mean the difference between profit or loss.

At Canadian North we understand that,
and have the people and equipment to move you towards a resourceful future.

Call us. We're serious about your business.



CANADIAN NORTH
seriously northern