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ONTARIO MINING AND EXPLORATION DIRECTORY AND RESOURCE GUIDE 2020 3
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"Exploration finds Mines!"
April 7 and 8, 2020

This year, the Ontario Prospectors Association is once again delivering the OPES at the Valhalla Inn in Thunder Bay. The year has been a test of explorers in Ontario. Raising funds has been extremely challenging for some and easy for others.

The OPES will have over 80 booths and posters, 12 core shacks and more than 30 speakers. Last year, we had 500-plus participants over the two days.

Speakers this year include Great Bear Resources, Warrior Gold, Musselwhite Mine, Noront, Manitou Gold, Wesdome, Alamos and Metals Creek.

OPA activities
Minister’s Mining Committee

The OPA has a seat at the committee table to help inform the Minister on issues that affect the explorers of the province. This committee consists of explorers and miners from large and small companies. To date, the meetings have been very informative and well-attended by the provincial ministers involved in mining and various deputy and assistant deputy ministers.

On Sept. 10, there was a meeting of the Minister’s Mining Committee. This was the first meeting since the inaugural meeting at PDAC.

The agenda included:
• Flow-through increase write-offs in Ontario;
• Support for explorers;
• Resource revenue sharing and consultation.

1. There was good take-up of the concept that Ontario needs to be on a level playing field with the other provinces to be able to retain explorers. I think the Minister is grasping the idea that increased the flow-through write-off provincially will retain funds in Ontario.

2. The JEAP funding model was reviewed and the Ministry has shown that for every dollar that was rebated, 18 industry dollars were leveraged. The Minister spoke of re-tooling NOHFC and looking at ways to create a new program to support industry.

3. Resource revenue sharing was spoken of in context of costs and potential proximal effected communities (including municipalities) to mines sharing more than distant communities. Consultation was discussed with the idea of dealing with the communities that want to talk similar with the execution of the direction being taken for the north south road to Ring of Fire. Also, there was discussion of template agreements for MOUs as we had started with discussion with Wabun Tribal Council.

The OPA has been working with Save Canadian Mining’s Terry Lynch. Save Canadian Mining is a movement to return market rules to the fair and transparent standard that helped deliver prosperity for over 142 years. Together, we can save Canadian mining.

In 2012, IIROC and CSA removed a trading rule known as the “tick test”, which restricted short-selling to neutral or sales to positive price changes at the time of the sale. These changes were applied not only to the main listing venue of TSX Venture Exchange, but are also equally applied across all Canadian trading venues, of which there are 14 today, reducing TSX Venture’s ability to effect any change. Since removal of the tick test, the Canadian markets have evolved, and there now exists a dynamic where short-selling activities, high-frequency trading and algorithms are exploiting the lack of a tick test to the detriment of Canada’s junior markets. We call on CSA and IIROC to evaluate re-instituting the tick test.

Garry Clark
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Ontario's government is working with the mineral sector to create jobs and bring economic prosperity to every corner of the province. We are doing this by keeping taxes and power rates low and cutting unnecessary, costly red tape.

We are optimistic about the future of mining and mineral exploration in Ontario. Our government continues to work hard—alongside our partners at the Ontario Prospectors Association (OPA)—to ensure the interests of prospectors and the mineral exploration industry have a strong voice in Ontario, across Canada and around the world.

Our Mining Working Group, which includes leaders from mining and exploration companies, prospectors and Indigenous business organizations, is focused on addressing key issues facing Ontario’s mining and exploration sector, while identifying opportunities to ensure future growth, competitiveness and prosperity.

That's why regulatory and legislative changes to Ontario's Mining Act are also part of our government's commitment to cut red tape and foster innovation and investment in the sector.

We have good reason to continue driving this change. As a leader in mineral exploration and production, Ontario is among the top 10 jurisdictions in the world for exploration spending. There are about 150 companies actively exploring more than 200 projects in the province. Exploration spending in Ontario was $583 million in 2018, an eight per cent increase over 2017.
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- YR 2 - Primary Crusher + Stockpile Facilities
- YR 5 - Expand Warehouse

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Plan to relocate truck shop in 5 years

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As Canada’s No. 1 mineral producer, Ontario generated $10.1 billion worth of minerals in 2018. The mineral wealth and associated economic activities are a fundamental building block and key source of livelihood for many communities in Northern Ontario. The mining industry creates more than 26,000 direct jobs and approximately 50,000 indirect jobs in mineral manufacturing and processing in Ontario.

The province’s abundant mineral resources, stable financial climate and competitive mining tax regime attracts a wealth of exploration and mining companies, including some of the world’s largest and most accomplished, such as Barrick, Newmont, Glencore, Kirkland Lake Gold and Vale.

Since June 2018, several new mines have opened across Ontario. Newmont opened Borden gold mine in Chapleau, the world’s first all-electric underground gold mine, and the Cochenour gold mine in Red Lake. Harte Gold opened the Sugar Zone gold mine near White River.

In addition, Kirkland Lake Gold, Newmont, Vale, Alamos, Glencore and Pure Gold are all advancing mine expansion or new mine construction projects across Ontario. Promising exploration projects continue to advance across the province as well, such as Great Bear’s Dixie gold project, Frontier Lithium’s PAK lithium project, Greenstone Gold’s Hardrock gold project and Moneta Porcupine’s Golden Highway gold project.

Our government will continue to work hard to increase competitiveness and support an attractive investment climate. The mining sector is an important contributor to the local and provincial economy, creates good paying jobs and a better quality of life for all families across the province.

By working together, we will continue to send a clear message to the world that Ontario is open for business and open for jobs.

The Honourable Greg Rickford
Minister of Energy, Northern Development and Mines

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# Gold Mines

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<td>Pan American Silver Corp. – Tahoe Canada</td>
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<td>Black Fox Mine</td>
<td>McEwen Mining Inc.</td>
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<td>Borden Mine</td>
<td>Newmont Corp. – Porcupine Gold Mines</td>
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<tr>
<td>Cochenour Mine</td>
<td>Newmont Corp.</td>
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<td>Detour Lake Gold Mine</td>
<td>Detour Gold Corp.</td>
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<td>Eagle River Mine</td>
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<td>Holloway – Holt Mine</td>
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<td>Hoyle Pond Mine</td>
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<td>Island Gold Mine</td>
<td>Alamos Gold Inc.</td>
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<td>Macassa Mine</td>
<td>Kirkland Lake Gold Ltd.</td>
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<td>Mishi Gold Mine</td>
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<td>Musselwhite Mine</td>
<td>Newmont Corp.</td>
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<td>Rainy River Mine</td>
<td>New Gold Inc.</td>
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<td>Red Lake Gold Mines</td>
<td>Newmont Corp.</td>
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<td>Sugar Zone Mine</td>
<td>Harte Gold Corp.</td>
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<td>Taylor Mine</td>
<td>Kirkland Lake Gold Ltd.</td>
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<td>Williams Mine</td>
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<td>Young – Davidson Mine</td>
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# Base Metal Mines

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<td>Glencore PLC</td>
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<td>McCreedy West Mine</td>
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<td>Sudbury Operations:</td>
<td>Vale S.A.</td>
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<td>Coleman Mine</td>
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<td>Copper Cliff North Mine</td>
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<td>Creighton Mine</td>
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<td>Garson Mine</td>
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<td>Totten Mine</td>
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<tr>
<td>Sudbury Operations:</td>
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<td>Fraser Mine</td>
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<td>Nickel Rim South Mine</td>
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# Iron Mines

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<td>Tomcild Iron Mine</td>
<td>Ferromin Inc.</td>
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# Platinum Group Metal Mines

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<td>Lac des Iles Mine</td>
<td>Impala Platinum Holdings Ltd. – Impala Canada Ltd.</td>
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# Major Industrial Mineral Operations

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<td>Goderich Brine Field (salt)</td>
<td>Compass Minerals Canada Corp.</td>
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<tr>
<td>Goderich Mine (salt)</td>
<td>Compass Minerals Canada Corp.</td>
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<tr>
<td>Hagersville Mine (gypsum)</td>
<td>Gebr. Krauf KG</td>
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<tr>
<td>Ojibway Mine (salt)</td>
<td>K+S Windsor Salt Ltd</td>
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<tr>
<td>Penhorwood Mine (taic)</td>
<td>Imerys Talc</td>
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<td>St. Lawrence Mine (wollastonite)</td>
<td>Canadian Wollastonite</td>
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<tr>
<td>Tatlock Quarry (calcium carbonate)</td>
<td>OMYA Canada Inc.</td>
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<tr>
<td>Windsor Brine Field (salt)</td>
<td>K+S Windsor Salt Ltd</td>
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Shebandowan and Hemlo: Past, present, future
SHEBANDOWAN GREENSTONE BELT

There was – and is – a lot going on in the Shebandowan Greenstone Belt.

The Shebandowan Greenstone Belt is part of the Wawa Abitibi Subprovince, the world’s second-largest historic gold producing terrane.

According to the Trojan Gold Inc. website (trojangold.com), recent studies “have recognized that the many showings and deposits in this area are likely part of an extensive IOCG (iron ore copper gold) mineralized system.” IOCG ore deposits are important and highly valuable concentrations of copper, gold and uranium ores hosted within iron oxide dominant gangue assemblages which share a common genetic origin.

Tremendous size, relatively simple metallurgy and relatively high grade of IOCG deposits can produce extremely profitable mines.

Gold was first mined in the Northwestern Ontario Shebandowan area in 1871. Shebandowan became very active from 2003 through 2008, and then years later, starting in 2012 through 2019, Shebandowan has – once again – become the target of a staking and acquisition rush.
Tashota Resources Inc. ("TRI") is a Prospect Generator junior exploration company led by a talented team of professionals having significant exploration, engineering, project financing, and permitting experience. Under their guidance, TRI has acquired land positions in Ontario (Hemlo and Larose) and Quebec (Opinaca) that represent significant mineral exploration potential.

**Investment Highlights**

- Well-located, sizeable properties accumulated based on geological merit
- Focused spending: gaining critical mass at core projects to move from project generator model to high growth exploration company
- Expected news on Hemlo out of Barrick likely to support TRI’s shear zone model, further highlighting the potential on TRI’s ground
- Larose has the potential to be a sizeable bulk tonnage prospect with gold-bearing shear zone traced for 9 km
- Sirios’ Cheechoo discovery has reinvigorated the Opinaca Camp. Modest program on TRI’s ground warranted to de-risk and maintain optionality
- Goal to increase strategic corporate and institutional investor exposure with a view to be well supported in an eventual going public transaction

*Both companies expect to be public in 2020*
The dominant player in the area is Wesdome Gold Mines, with the 3,000,000-plus ounce Au, Moss Lake deposit. In 2016, Wesdome consolidated properties adjacent to the Moss Lake deposit, increasing their footprint in the area.

Currently, Tashota Resources Inc. (along with associated companies through joint directors) is involved in a prolific gold/copper/zinc play at Shebandowan. Tashota and partners control over 44,000 acres in the Shebandowan Greenstone Belt, representing the most significant land position in the gold camp. Charles Elbourne, president, director, and CEO of Tashota Resources Inc., says his approach to acquiring Shebandowan – among other properties, such as Hemlo – is “lowkey.”

“It’s taken over eight years to acquire all these properties in the Shebandowan Greenstone belt, and Hemlo Gold Camp. By staying private and not going public, Tashota saved a lot of money for our shareholders,” Elbourne says.

According to Ernst & Young’s latest study, 49 mining and metals companies delisted from the TSX and TSX-V in 2014 and a further 172 companies delisted in 2015.

“You have to acquire the right properties, the right people, then provide the right structure on each deal,” he says.

Elbourne recalls waiting for properties to come open or option at Shebandowan and Hemlo, stating his philosophy is TEO (targeted exploration opportunities): seeking out opportunities where others gave up due to bad market conditions, mismanagement or lack of ongoing financing.

He uses the triangle method, which focuses on three points: property, people, and structure.

Many will argue that the most critical part of the triangle method is people first, then property and structure. Elbourne disagrees with this approach; why would knowledgeable geologists and prospectors be interested in working claims without any merit, or at least some history, unless they are just looking for work?

Instead, the approach should be to acquire a property with a good history, good results, and preferably right beside an existing deposit; this will draw experienced geologists and prospectors and take away some of the risks. The bear market in gold over the past eight years has provided this opportunity.

Next, get prospectors and geologists that are specifically related to the immediate area of acquisition. In this case, Tashota has been very fortunate in acquiring two notable prospectors, Russell Kwiatkowski (original discoverer of Larose and Sungold properties in Shebandowan) and Rudy Wahl (well-known for significant discoveries and very familiar with the Hemlo Gold Camp and surrounding areas).

Both gentlemen have received many awards, from Prospector of the Year to Lifetime Achievement Awards in Mining; Wahl was awarded an honor-
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ary doctorate degree in science from Lakehead University in 2017, and will be awarded the upcoming Bill Dennis Award for 2020. Both prospectors are board members of Tashota.

Once you have good prospectors, one needs to add a very experienced geological team that is familiar with the properties to the equation.

Tashota Resources and sister company Trojan Gold Inc. have been fortunate to attract outstanding geological talent as directors and advisors. The team consists of the following directors: Dr. Mary Louise Hill (on the front cover), professor of geology, Lakehead University; Gerry White, P.Geo., B.Sc., who served many years as resident geologist with the Ministry of Mines; Rodney Barber, P.Geo., B.Sc., recently superintendent geologist for 18 years at Barrick Gold’s Hemlo Mine; Quentin Snider, previously band administrator for Lac des Mille Lacs First Nations; Victor Hugo, senior financial analyst and formerly head of Finance at Barrick’s Hemlo Mine; and Ike Osmani, M.Sc., P.Geo., responsible for developing the Osmani Gold Deposit, containing almost one million ounces of gold (indicated and inferred) at Shebandowan.

Advisors to the companies include Dr. Colin Bowdidge, over 40 years as chief geologist for various public mining companies, and David Malouf. Dr. Bowdidge also has extensive hands-on experience in modern geophysical and geochemical exploration techniques. Malouf brings a lifetime of hands-on experience in Canadian mining and is very experienced as a mine operator, having overseen the Empire Mine operations in Beardmore, Ont.

With prospectors and geologists in charge of the development and advancement of the portfolio of properties, the remaining component is company structure.

During the past few years, there has been an increase in financings for private mining deals as investors have strayed from the public domain. This has forced public junior mining companies to raise capital at distressed prices that, unfortunately, dilute their share base. By staying private for the past six years, Tashota has managed to avoid this situation, but with a new bull market in gold, it is time to go public.

Why, Shebandowan, why Larose, why Sungold?

Management of Tashota acquired the Larose property based on its high-grade gold results by previous owners. In 2011, P1 Trench sampling resulted in 45.93 g/t Au over 3.1 metres and 54.21 g/t Au over 1.4 metres.

With less than 3,000 metres of previous drilling on the 12,000-plus acreage property, Larose provided an excellent opportunity for further development. Past sampling and drilling had resulted in 6.8 g/t to 371.9 g/t Au, extended over 4.6 kilometres of shear zones. These shear zones are now over nine kilometres, based on fieldwork, and a recent discovery, the Alexander Trench, resulted in samples containing 50.9 g/t Au, and 19 g/t Ag. Previous samples from the P1 Trench taken by geologists ranged from 55.88 g/t to 173.39 g/t Au. Drilling during 2019 at the P1 Trench intercepted, at shallow depth (less than 50 feet), 68.6 g/t Au over .55 metres, situated approximately 15 metres from the 2016 drill results, which included 27.69 g/t Au in LR16-01, 19.73 g/t Au in LR16-02 and 37.34 g/t Au in LR16-03, all over core lengths of 0.50 metres.

The 12,000-plus acre Sungold property, situated approximately six kilometres south of the Larose property, is directly adjacent to the west of Wesdome’s Moss Lake 3,000,000 oz/t Au.

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The 12,000-plus acre Sungold property, situated approximately six kilometres south of the Larose property, is directly adjacent to the west of Wesdome’s Moss Lake 3,000,000 oz/t Au.
deposit. Wesdome completed the acquisition of 100-per cent interest in the Moss Lake property in March 2014, through the buyout of the Moss Lake Gold Mines that they did not already own. As noted above, Wesdome continued to expand the Moss Lake claim positions in 2016, consolidating the properties into the present holding.

The Sungold property, acquired in 2018 and recently owned by Noront, met all the requirements for acquisition, especially after Wesdome purchased the southeast extension of Xstrata’s Hamlin IOCGU occurrence. The Hamlin IOCGU occurrence has the potential for Ni-Cu-PGE and Porphyry Cu mineralization. One drill hole, HAM-11-75, approximately 150 metres from the Sungold claim line next to Wesdome, came in at 156.1 metres grading 0.35 per cent Cu, 0.015 per cent Mo, 2.15 g/t Ag and 0.87 g/t Au. Another drill hole, in the immediate area, HAM-05-35, had the copper equivalent of 0.68 per cent over 49 metres (162 feet).

Previously, in 2005, when Freewest Resources owned the Sungold property, backhoe trenching of the Wye Lake Zone intermittently exposed massive, semi-massive and stringer sulphides over an 850-metre strike length. Highlighting the trenching program was the uncovering of massive zinc-copper mineralization at two locales, situated 400 metres apart and on strike with each other. Assays of up to 27.8 per cent zinc and 0.91 per cent copper were obtained at one trench line and up to 29.8 per cent zinc and 0.84 per cent copper at another. A few months earlier in March 2005, the Sungold property purportedly had a street IPV of $54 million. Drill holes during 2005 in the Wye Lake area had also provided exciting results, including WL05-08 of 13.75 metres of 0.77 per cent Cu and WL05-13 of 12.45 metres of 0.72 per cent Cu.

Management of Strike Copper Corp. will start fieldwork during 2020 to further delineate the resource and seek listing on the CSE.

Hemlo – the gold camp that refuses to die

Hemlo has a fascinating history. Although gold was first discovered at...
Hemlo back in 1944 by Peter Moses, an Ojibway prospector from Marathon, nothing took place until 1980 when the 76th drill hole hit a resource that started a major staking rush in the immediate area. In 1981, Corona Resources at the time was trading around $1.10 based on rumours coming out of the camp that something big was happening. By May 1983, Corona was trading at $61.00 (a 5,445 per cent return). Not to be outdone, the other two majors in the camp, Goliath Gold moved from $0.45 to $32 (7,110 per cent), and Golden Sceptre traded from $0.40 to $31 (7,650 per cent). By March 1983, gold had topped out near $500, and the Hemlo Rally was over.

But the Hemlo Gold Camp was just getting started. Noranda spent over $250 million building the first facility, followed by other companies, and production began in 1985. Hemlo became the most significant mine find in the western hemisphere. The David Bell and Golden Giant Mines were among the lowest cost gold mines in the world at the time.

Here is what is interesting about the Hemlo Gold Camp: it’s like the Energizer Bunny – it just keeps going. The central Golden Giant mine was closed in January 2006, and the David Bell and Williams mines scheduled to close in 2009 and 2011, respectively.

Fast forward to the present, and now we find Barrick announcing the probability of the mine continuing to 2028 and possibly 2035.

But that was not the case in 2011 when it was thought that the Williams Mine might close in 2014. In 2013, Barrick Gold announced that another 1,000,000 ounces was discovered, and the mine production would extend to 2018.

Tashota management then moved to acquire claims adjacent to Barrick’s open pit. Why bother purchasing claims nearby if the mine was probably going to close in four years?

The reality is Hemlo has never consistently been explored since the 1980s outside of the immediate comfort area where the original discovery took place.

Here is the problem at Hemlo: approximately 90 per cent of the 22,000,000 ounces of gold extracted from the three mines, until recently, was below 500 metres. This anomaly scares most juniors away from the area, but this doesn’t mean the gold is not there. It’s outside the comfort zone, yes - but well within reach of modern mining technology.

Barrick’s management realized this in 2013, and the result is the present administration at Barrick intends to make Hemlo a Tier 2 mine operating at 215 to 300 koz and generate a 20 per cent IRR.

By 2015, management at Tashota moved to acquire more claims adjacent and close to Barrick’s Williams Mine, accumulating over 18,000 acres, mainly adjacent to Barrick.

A major airborne T-Dem performed in 2014 and 2016 covered the entire...
HERE IS WHAT IS INTERESTING ABOUT THE HEMLO GOLD CAMP:
IT’S LIKE THE ENERGIZER BUNNY – IT JUST KEEPS GOING.

property, including Aster Satellite LWIR Thermal Imaging Survey in May 2019. Combined, this helped determine potential exploration and drill targets. These targets will be carefully examined during 2020, using UAV Mag, MMI and drilling.

Management of Tashota and Trojan Gold is looking forward to working Hemlo during 2020, and Trojan will be applying for listing on the CSE.

A merchant banking company, Interbanc Capital Corp., is presently being formed to better centralize the operation of all the properties and associated companies, this way better utilizing overhead costs, concentrating services, and maintaining proper control.

The “Hemlo Gold Story”, produced by the CBC back in the ’80s provides a fascinating history of Hemlo and can be found on the (tashotaresources.com) website.

Elbourne has another gold project he is working on which he calls “The Sleeper” that shows historical results from shaft work in 1936, showing a test shipment of 1,000 pounds of ore averaging 1.12 ounces per ton of gold, only 100 to 150 feet down in the shaft and adits. While the results may be questionable (it was 1936), a map was drawn by a well-respected company at the time, and nobody talked grams in 1936. Nonetheless, in 2013 drilling over the immediate area resulted in some great numbers starting nine feet from surface, including 8.226 g/t Au over 8.70 metres, which is sufficient to get excited about the prospect. Old historical government files indicate the ongoing opportunities to find gold in Ontario.

The children are the future

Shebandowan is on the cusp of an exploration revival. Tashota Resources has the potential of not only becoming a groundbreaker in new discoveries, but also a forerunner in corporate social responsibility with the First Nations people. Partnering up with Outland Youth Employment Program (OYEP) has been a significant milestone for our company. It’s really about relationship-building with Indigenous communities through consulting with elders to ensure success in training, education and employment for the Indigenous youth.
GOLD MINES

BELL CREEK MINE - Pan American Silver Corp. - Tahoe Canada • gold producer • underground

Address 1515 Government Road South, Timmins, ON P4R 1N4
Tel: (705) 269-4344 | Fax: (705) 268-1794 | www.panamericansilver.com

Mine Manager Dave Bernier
Production Rate 800 tonnes per day (mine), 4,400 tonnes per day (mill)

Production
2016 - 162,000 ounces (estimate for Bell Creek and Timmins West mines combined)
2017 - 167,000 (Bell Creek and Timmins West mines combined)
2018 - 167,500 (estimate for Bell Creek and Timmins West mines combined)
2019 - 157,500 (estimate for Bell Creek and Timmins West mines combined)
2020 - 172,500 (guidance for Bell Creek and Timmins West mines combined)

Resources
17,000,000 tonnes at 3.27 g/t containing 1,787,000 ounces of gold (Measured and Indicated - June 2019)

Opened 2012
Employment 650 employees, 70 contractors (Timmins West and Bell Creek combined)

Notes: Ore from the Bell Creek and Timmins West mines is processed at the Bell Creek Mill. Pan American Silver Corp. purchased its Ontario mines through its acquisition of Tahoe Resources in a US$1.1 billion deal that closed Feb. 22, 2019. Pan American Silver operates its Ontario mines under its subsidiary Tahoe Canada. In 2020, production is expected to be increased by 20 per cent at Bell Creek and incremental production increases are expected over the following four years. Bell Creek and Timmins West are expected to operate through 2025.

BLACK FOX MINE - McEwen Mining Inc. • gold producer • underground

Address P.O. Box 605, Matheson, ON P0K 1N0
Tel: (705) 273-1077 | Fax: (705) 273-1097 | www.mcewenmining.com

Mine Manager Dan Gagnon, General Manager
Production Rate 700 tonnes per day (mine), 2,000 tonnes per day (mill)

Production
2016 – 62,171 ounces of gold
2017 – 66,733 ounces of gold
2018 – 48,848 ounces of gold
2019 – 35,721 ounces of gold
2020 – 39,550 ounces of gold (estimate)

Resources
7,758,000 tonnes at 5.31 g/t containing 1,326,000 ounces of gold (Measured and Indicated – July 2019)

Opened 2009 (open pit, closed 2015), 2011 (underground)
Employment 257

Notes: Black Fox Complex is comprised of the Black Fox and former Stock mines, Black Fox-Stock mill and Froome and Grey Fox deposits. Production at Black Fox is planned to be scaled back in 2020 to allow for greater freedom to explore in the mine and to free resources to advance development of the Froome underground deposit. Updated guidance has yet to be provided reflecting lower production levels. In 2019, an $18-million property-wide exploration program was conducted at Black Fox Complex. Exploration in 2020 will focus on the Stock West, Grey Fox and Black Fox areas.

BORDEN GOLD MINE (PORCUPINE MINES) - Newmont Corp. • gold producer • underground, open pit

Address 4315 Gold Mine Road, P.O. Box 70, South Porcupine, ON P0N 1H0
Tel: (705) 235-6589 | Fax: (705) 235-6551 | www.newmont.com

Mine Manager Marc Lauzier, Mine General Manager, Porcupine Mines Operations
Production Rate 1,800 tonnes per day

Production
2019 – 225,000 ounces of gold (management projection for Porcupine Mines Operations combined)
2020 – 325,000 ounces of gold (guidance for Porcupine Mines Operations combined)

Resources
492,730,000 tonnes at 1.04 g/t containing 16,540,000 ounces of gold
(Measured and Indicated – June 2018 for Porcupine Mines Operations combined)

Opened 2019
Employment 800 employees, 445 contractors (approximate figures for Porcupine Mines Operations combined)

Notes: Porcupine Mines Operations include the Hoyle Pond, Hollinger, Borden, and former Dome mines, several stockpiles and a mill. Ore from Borden is processed at the Porcupine mill near Timmins. Commercial production was declared at Borden Mine effective Oct. 1, 2019, on time and within budget. Between 200 and 250 jobs were created at Borden mine. Borden is the world’s first all-electric underground gold mine.
COCHENOUR GOLD MINE (RED LAKE GOLD MINES) - Newmont Corp. • gold producer • underground

Address 17 Mine Road, Bag 2000, Balmertown, ON POV 1C0
Tel: (807) 735-2077 | Fax: (807) 735-2765 | www.newmont.com

Mine Manager Bill Gascon, Mine General Manager

Production Rate 1,500 tonnes per day

Production 2019 - 155,000 ounces of gold (guidance for Red Lake Gold Mines operations combined)
2020 - 277,869 ounces of gold (estimate for Red Lake Gold Mines operations combined)

Resources 14,490,000 tonnes at 9.83 g/t containing 4,580,000 ounces of gold
(Measured and Indicated for Red Lake Gold Mines operations combined – June 2018)

Opened 1919

Employment 981 employees and contractors (Red Lake Gold Mines Operations combined)

Notes: Cochenour achieved commercial production status in April 2019. Production comes from the old Cochenour mine and the new Upper Cochenour Zone. The redeveloped shaft of the old Cochenour mine is used to access ore between 1,091- and 1,680-metre levels. The Cochenour mine is located on the site of the historic Cochenour-Willans mine that operated from 1929 to 1971, producing 1.2 million ounces of gold.

DETOUR LAKE GOLD MINE - Detour Gold Corp. • gold producer • open pit

Address 86 2nd Street, P.O. Box 1325, Cochrane, ON POL 1CO
Tel: (647) 847-2089 | Fax: (705) 272-2558 | www.detourgold.com

Mine Manager David Londono, General Manager

Production Rate 291,000 tonnes per day

Production 2016 – 537,765 ounces of gold
2017 – 571,463 ounces of gold
2018 – 621,128 ounces of gold
2019 – 601,566 ounces of gold
2020 – 587,000 ounces of gold (guidance)

Resources 613,570,000 tonnes at 1.01 g/t containing 19,867,105 ounces of gold (Measured and Indicated – December 2018)

Opened 2013

Employment 800 employees, 200 contractors

Notes: Detour’s Life of Mine Plan extends to 2040 with average gold production of 659,000 ounces per year. The Detour Gold Corp. and Detour Lake mine are being acquired by Kirkland Lake Gold in a $4.9-billion deal that is expected to close in January 2020. In 2020, a pre-feasibility study is planned for the Lower Detour Underground Zone, a large tonnage, low-grade Zone that extends beneath the current pit. Drilling in 2020 will focus on the SBN area of the mine.

EAGLE RIVER MINE - Wesdome Gold Mines Ltd. • gold • underground

Address 93 Mission Road, P.O. Box 1520, Wawa, ON P0S 1K0
Tel: (705) 856-2721 | Fax: (705) 856-2979 | www.wesdome.com

Mine Manager Dave Whiteway, General Manager

Production Rate 335 tonnes per day

Production 2016 – 40,252 ounces of gold
2017 – 50,996 ounces of gold
2018 – 67,315 ounces of gold
2019 – 88,617 ounces of gold
2020 – 91,500 ounces of gold (guidance)

Resources 1,157,000 tonnes at 11.70 g/t containing 435,300 ounces of gold (Measured and Indicated – December 2018)

Opened 1995

Employment 220

Notes: Eagle River Complex includes the Eagle River Mine and the Mishi mine and mill. In 2020, $9.8 million in exploration at Eagle River is planned. The program will include 72,000 metres of underground exploration drilling, 47,000 metres of definition drilling and 33,500 metres of surface drilling. Five drill rigs will be deployed underground and two on surface.
HOLLINGER MINE (PORCUPINE MINES) - Newmont Corp. • gold producer • open pit

Address 4315 Gold Mine Road, P.O. Box 70, South Porcupine, ON P0N 1H0
Tel: (705) 235-6589 | Fax: (705) 235-6551 | www.newmont.com

Mine Manager Marc Lauzier, Mine General Manager, Porcupine Mines Operations

Production Rate 12,000 tonnes per day (Porcupine Mines Operations combined)

Production 2016 – 277,000 ounces of gold (Porcupine Mines Operations combined)
2017 – 272,000 ounces of gold (Porcupine Mines Operations combined)
2018 – 259,000 ounces of gold (Porcupine Mines Operations combined)
2019 – 225,000 ounces of gold (management projection for Porcupine Mines Operations combined)
2020 – 325,000 ounces of gold (guidance for Porcupine Mines Operations combined)

Resources 492,730,000 tonnes at 1.04 g/t containing 16,540,000 ounces of gold
(Measured and Indicated – June 2018 for Porcupine Mines Operations combined)

Opened 2014

Employment 200 (approximate)

Notes: Porcupine Mines Operations include the Hayle Pond, Hollinger, Borden and former Dome mines, several stockpiles and a mill. Hollinger Mine is located directly adjacent to downtown Timmins. Hollinger Mine is expected to operate until the first quarter of 2023. Newmont’s Ontario gold mines were procured through its acquisition of Goldcorp in a US$10 billion deal that closed Jan. 1, 2019. Newmont’s Century Project, a proposed open-pit gold mine located on the site of the former Dome pit, is still in development and working through the environmental permitting phase. Plans for the Century Project include a 70,000-tonne-per-day pit and a new 70,000-tonne-per-day on-site milling complex.

HOLLOWAY–HOLT MINE (HOLT COMPLEX) - Kirkland Lake Gold Ltd. • gold producer • underground

Address Highway 101 East, Box 609, Matheson, ON P0K 1N0
Tel: (705) 567-4862 | Fax: (705) 567-4863 | www.klgold.com

Mine Manager Evan Pelletier, General Manager, Kirkland Lake Operations

Production Rate Holloway Area: 450 tonnes per day (capacity)
Holt Area: 1,500 tonnes per day (mine), 3,000 tonnes per day (mill)

Production Holloway Area:
2016 – 27,129 ounces of gold
2017 – 287 ounces of gold
2018 – 718 ounces of gold
2019 – See Holt Area
2020 – See Holt Area

Holt Area:
2016 – 57,086 ounces of gold
2017 – 66,677 ounces of gold
2018 – 67,770 ounces of gold
2019 – 113,952 ounces of gold (Holt Complex operations combined)
2020 – 130,000 ounces of gold (guidance for Holt Complex operations combined)

Resources Holloway Area: 2,452,000 tonnes grading 4.20 g/t, containing 328,000 ounces of gold
(Measured and Indicated – December 2018)
Holt Area: 10,473,000 tonnes grading 4.10 g/t, containing 1,385,000 ounces of gold
(Measured and Indicated – December 2018)

Opened Holloway Area: 2009
Holt Area: 2010

Employment Holloway Area: 116 (estimate)
Holt Area: 168

Notes: The Holt Mill processes ore from Holloway-Holt and Taylor Mines. At the start of 2019, reporting for Holloway-Holt and Taylor mines were combined into one segment, the Holt Complex. Holloway area resumed operations during the first quarter of 2019. Operations at Holloway had been suspended since 2016.
HOYLE POND MINE (PORCUPINE MINES) - Newmont Corp. • gold producer • underground

Address 4315 Gold Mine Road, P.O. Box 70, South Porcupine, ON P0N 1H0
Tel: (705) 235-6589 | Fax: (705) 235-6551 | www.newmont.com

Mine Manager Marc Lauzier, General Mines Manager, Porcupine Mines Operations
Production Rate 1,000 tonnes per day, 12,000 tonnes per day (Porcupine Mines Operations combined)

Production 2016 – 277,000 ounces of gold (Porcupine Mines Operations combined)
2017 – 272,000 ounces of gold (Porcupine Mines Operations combined)
2018 – 259,000 ounces of gold (Porcupine Mines Operations combined)
2019 – 225,000 ounces of gold (management projection for Porcupine Mines Operations combined)
2020 – 325,000 ounces of gold (guidance for Porcupine Mines Operations combined)

Resources 492,730,000 tonnes at 1.04 g/t containing 16,540,000 ounces of gold
(Measured and Indicated – June 2018 for Porcupine Mines Operations combined)

Opened 1985
Employment 800 employees, 445 contractors (approximate figures for Porcupine Mines Operations combined)

Notes: Porcupine Mines Operations include the Hoyle Pond, Hollinger, Borden and former Dome mines, several stockpiles and a mill. In November 2019, SafeSight Exploration celebrated its 12-month, 100-flight anniversary using drones for underground mapping, surveying and inspections at Hoyle Pond. The drones can be operated remotely in areas that would be hazardous to workers and can conduct surveys and inspections at less risk and often faster than an employee.

ISLAND GOLD MINE - Alamos Gold Inc. • gold producer • underground

Address 15 Goudreau Road, P.O. Box 456, Dubreuilville, ON P0S 1B0
Tel: (705) 884-2805 | Fax: (815) 797-0166 | www.alamosgold.com

Mine Manager Jean Bastien
Production Rate 1,200 tonnes per day

Production 2016 – 83,323 ounces of gold
2017 – 98,800 ounces of gold
2018 – 105,800 ounces of gold
2019 – 140,000 ounces of gold (guidance)
2020 – 137,500 ounces of gold (guidance)

Resources 3,740,000 tonnes at 10.00 g/t containing 1,200,000 ounces of gold (Measured and Indicated – December 2018)

Opened 2007
Employment 341 employees, 217 contractors

Notes: Ore from Island Gold Mine is processed at the Kremzar Mill, located about 0.8 kilometres from the mine. Alamos Gold Mines is advancing a $68-million expansion project at their Island Gold Mine near Wawa. A Phase 3 expansion study at Island Gold will be completed during the first half of 2020 that will examine increasing production rates beyond 1,200 tonnes per day. Approximately $55 million in capital expenditures are planned at Island Gold in 2020. Capital projects include an expansion of the tailings facility and the construction of a new administration building, dry facility and underground workshop. Island Gold has a 2020 exploration budget of $21 million that will include 76,000 metres surface and underground drilling in the Island Gold Main Zone and a 10,000-metre regional exploration project on the Island Gold property.

MACASSA MINE - Kirkland Lake Gold Ltd. • gold producer • underground

Address 1350 Government Road West, P.O. Box 370, Kirkland Lake, ON P2N 3J1
Tel: (705) 567-5208 | Fax: (705) 568-6444 | www.klgold.com

Mine Manager Evan Pelletier, General Manager, Kirkland Lake Operations
Production Rate 1,000 tonnes per day (mine), 2,000 tonnes per day (mill capacity)

Production 2016 – 175,167 ounces of gold
2017 – 194,273 ounces of gold
2018 – 240,126 ounces of gold
2019 – 241,297 ounces of gold
2020 – 245,000 ounces of gold (guidance)

Resources 4,977,000 tonnes at 20.20 g/t containing 3,233,000 ounces of gold (Measured and Indicated – December 2018)

Opened 2002
Employment 900

Notes: Macassa’s No. 4 Shaft Project began in 2018. The new shaft is expected to increase hoisting capacity to 4,000 tonnes per day. In 2019, the shaft project had expenditures of $45 million. In 2022, Phase 1 of the shaft project will be completed, extending the shaft to a depth of 5,450 feet, and production will commence at a rate of 320,000 to 340,000 ounces per year. In Phase 2, the shaft will be sunk to the 7,000-foot level by the end of 2023, increasing production to 400,000 ounces per year. In 2020, 270,000 metres of drilling is planned at the mine, focused on infill and extension drilling at the SMC, evaluating targets at depth along the Amalgamated Break, and along the Main and ‘04 breaks.
MISHI GOLD MINE - Wesdome Gold Mines Ltd. • gold producer • open pit

Address 93 Mission Road, P.O. Box 1520, Wawa, ON P0S 1K0
    Tel: (705) 856-2721 ext. 507 | Fax: (705) 856-2979 | www.wesdome.com

Mine Manager Dave Whiteway, General Manager

Production Rate 127 tonnes per day (mine), 900 tonnes per day (mill)

Production 2016 – 7,485 ounces of gold
              2017 – 7,985 ounces of gold
              2018 – 4,310 ounces of gold
              2019 – 3,072 ounces of gold
              2020 – 3,500 ounces of gold (guidance)

Resources 123,500 tonnes at 2.80 g/t containing 11,000 ounces of gold (Measured and Indicated – December 2018)

Opened 2012

Employment 40 (approximately)

Notes: Eagle River Complex includes the Eagle River Mine and the Mishi mine and mill. Wesdome has plans to increase the production rate at Mishi Mine from 400 to 900 tonnes per day over the next few years. Mineralization at Mishi is open to the west and at depth. No exploration drilling occurred at Mishi in 2019 and none is planned at Mishi in 2020.

MUSSELWHITE MINE - Newmont Corp. • gold producer • underground

Address P.O. Box 7500, Thunder Bay, ON P7B 6S8
    Tel: (807) 928-2200 | Fax: (807) 928-2067 | www.newmont.com

Mine Manager Don Burke, Mine General Manager

Production Rate 4,500 tonnes per day

Production 2016 – 261,000 ounces of gold
              2017 – 236,000 ounces of gold
              2018 – 205,000 ounces of gold
              2019 – 37,167 ounces of gold (estimated)
              2020 – 140,000 ounces of gold (guidance)

Resources 13,110,000 tonnes at 6.19 g/t containing 2,610,000 ounces of gold (Measured and Indicated – June 2018)

Opened 1997

Employment 380 employees and 332 contractors (estimate)

Notes: Musselwhite was placed on care and maintenance following a fire affecting the underground conveyor system at the mine on March 29, 2019. No injuries were reported but development progress was impacted. Production was not expected to resume until early 2020. Musselwhite Material Handling Project is now expected to be completed in mid-2020. The project involves installing a 5,000-tonne-per-day raisebore winze from the 1,250-metre level to the 250-metre level. The project is expected to increase production by 20 per cent and reduce costs by 10 per cent.

RAINY RIVER MINE - New Gold Inc. • gold producer • underground, open pit

Address 5967 Highway 11/71, P.O. Box 5, Emo, ON P0W 1E0
    Tel: (807) 482-0900 | www.newgold.com

Mine Manager Eric Vinet, General Manager

Production Rate 24,000 tonnes per day

Production 2017 – 37,047 ounces of gold
              2018 – 227,284 ounces of gold
              2019 – 253,772 ounces of gold
              2020 – 257,500 ounces of gold (estimated)

Resources 186,607,000 tonnes graded at 1.06 g/t gold and 3.22 g/t of silver, containing 6,324,000 ounces of gold and 19,436,000 ounces of silver (Measured and Indicated – December 2018)

Opened 2017

Employment 682 employees

Notes: In 2019, 3,580 metres of exploration drilling were completed to test the potential repeats of mineralized lenses north of the Intrepid Zone. Results are still pending. Capital costs at Rainy River were ~$190 in 2019 but are expected to decline in 2020 as construction is substantially complete. An updated life of mine plan for Rainy River is expected to be published in February 2020.
**RED LAKE GOLD MINE (RED LAKE GOLD MINES) - Newmont Corp. • gold producer • underground**

Address | 17 Mine Road, Bag 2000, Balmertown, ON P0V 1C0  
| Tel: (807) 735-2077  | Fax: (807) 735-2765  | www.newmont.com

Mine Manager | Bill Gascon, Mine General Manager
Production Rate | 1,250 tonnes per day
Production | 2016 – 324,000 ounces of gold  
2017 – 209,000 ounces of gold  
2018 – 276,000 ounces of gold (guidance)  
2019 – 155,000 ounces of gold (estimate for Red Lake Gold Mines operations combined)  
2020 – 277,869 ounces of gold (estimate for Red Lake Gold Mines operations combined)
Resources | 14,490,000 tonnes at 9.83 g/t containing 4,580,000 ounces of gold (Measured and Indicated – June 2018)
Opened | 1949
Employment | 981 employees and contractors (Red Lake Gold Mines Operations combined)

Notes: Red Lake Mines operations include the Red Lake mine, including the Red Lake and Campbell areas, the Cochenour mine and the Campbell and Red Lake processing plants. The Red Lake mine began operations in 1949 and produced 23.6 million ounces to December 2018. In 2020, Newmont Goldcorp re-branded as Newmont Corp. Red Lake Gold Mines is currently being acquired by Evolution Mining Ltd. for US$375 million, with up to an additional US$100 million of payments contingent on resources. The deal is expected to close by the end of March 2020.

**SUGAR ZONE GOLD MINE - Harte Gold Corp. • gold producer • underground**

Address | 113 Tukanee Lake Road, White River, ON P0M 3G0  
| Tel: (416) 368-0999  | Fax: (807) 822-2398  | www.hartegold.com

Mine Manager | Gordon Reed, General Manager
Production Rate | 575 tonnes per day
Production | 2018 – 15,100 ounces of gold (pre-production estimate)  
2019 – 27,316 ounces of gold  
2020 – 45,000 ounces of gold (guidance)
Resources | 4,243,000 tonnes at 8.12 g/t containing 1,108,000 ounces of gold (Measured and Indicated – April 2019)
Opened | 2019
Employment | 200 workers (approximate)

Notes: A 54 to 76 per cent increase in production is expected at Sugar Zone in 2020 as a result of increased tonnage and higher grades. Capital expenditures in 2020 are forecast at $29.7 million. Capital projects include Middle Zone ramp development and camp upgrades. In early 2020, a two-rig drill program will commence on the TT8 Zone of Sugar Zone with an initial focus on testing the down dip potential.

**TAYLOR MINE (HOLT COMPLEX) - Kirkland Lake Gold Ltd. • gold producer • underground**

Address | Highway 101 East, P.O. Box 609, Matheson, ON P0K 1N0  
| Tel: (705) 567-4862  | Fax: (705) 567-4863  | www.klgold.com

Mine Manager | Evan Pelletier, General Manager, Kirkland Lake Operations
Production Rate | 590 tonnes per day
Production | 2016 – 42,639 ounces of gold  
2017 – 50,764 ounces of gold  
2018 – 58,633 ounces of gold  
2019 – 52,500 ounces of gold (guidance)  
2020 – 130,000 ounces of gold (guidance for Holt Complex operations combined)
Resources | 1,577,000 tonnes at 4.90 g/t containing 250,000 ounces of gold (Measured and Indicated – December 2018)
Opened | 2015
Employment | 60

Notes: The Holt Complex includes the Taylor mine, Holloway-Holt mine and Holt mill. Ore from Taylor mine is processed at Holt mill. In 2019, a 44,000-metre drilling program was conducted at Taylor focused on the 1004 Zone and West Porphyry Deposit.
### TIMMINS WEST MINE - Pan American Silver Corp. - Tahoe Canada • gold producer • underground

**Address**
1515 Government Road South, Timmins, ON P4R 1N4
Tel: (705) 269-4344 | Fax: (705) 268-1794 | www.panamericansilver.com

**Mine Manager**
Bill Curry

**Production Rate**
3,300 tonnes per day (mine), 4,400 tonnes per day (mill)

**Production**
- 2016 – 162,000 ounces (estimate for Bell Creek and Timmins West mines combined)
- 2017 – 167,000 (Bell Creek and Timmins West mines combined)
- 2018 – 167,500 (guidance for Bell Creek and Timmins West mines combined)
- 2019 – 157,500 (guidance for Bell Creek and Timmins West mines combined)
- 2020 – 172,500 (guidance for Bell Creek and Timmins West mines combined)

**Resources**
17,000,000 tonnes at 3.27 g/t containing 1,787,000 ounces of gold (Measured and Indicated – June 2019)

**Opened**
2011

**Employment**
650 employees, 70 contractors (Timmins West and Bell Creek combined)

**Notes:** Ore from Timmins West Mine is processed at the Bell Creek Mill. Timmins West and Bell Creek are expected to operate through 2025. A shaft upgrade to 1,080 metres was completed at Timmins West in 2019 that is expected to reduce costs in 2020. In November 2019, Pan American Silver announced they no longer intended to sell Timmins West and Bell Creek mines.

### WILLIAMS MINE (HEMLO MINE) - Barrick Gold Corporation • gold producer • underground, open pit

**Address**
P.O. Bag 11, Marathon, ON P0T 2E0
Tel: (807) 238-1041 | Fax: (807) 238-1019 | www.barrick.com

**Mine Manager**
Ian Butler, General Manager

**Production Rate**
11,500 tonnes per day

**Production**
- 2016 – 235,000 ounces of gold
- 2017 – 196,000 ounces of gold
- 2018 – 171,000 ounces of gold
- 2019 – 213,000 ounces of gold
- 2020 – 207,300 ounces of gold (guidance)

**Resources**
61,572,000 tonnes at 1.77 g/t containing 3,498,000 ounces of gold (Measured and Indicated – December 2018)

**Opened**
1985

**Employment**
620 workers (estimate)

**Notes:** In October 2019, Barrick announced the open-pit at Hemlo would be phased out and that underground mining would move to a contract mining model. This optimization will extend the operations life of mine. Currently, most of the resources and underground mill feed comes from the C-Zone at Hemlo. In 2019, exploration drilling at Hemlo confirmed down plunge extensions of C-Zone and additional C-Zone extension drilling is planned for early 2020.

### YOUNG–DAVIDSON MINE - Alamos Gold Inc. • gold producer • underground

**Address**
Highway 566, P.O. Box 187, Matachewan, ON P0K 1M0
Tel: (705) 565-9800 | Fax: (705) 565-2387 | www.alamosgold.com

**Mine Manager**
Luc Guimond, General Manager

**Production Rate**
7,000 tonnes per day

**Production**
- 2016 – 170,041 ounces of gold
- 2017 – 200,000 ounces of gold
- 2018 – 180,000 ounces of gold
- 2019 – 185,000 ounces of gold (guidance)
- 2020 – 152,500 ounces of gold (guidance)

**Resources**
51,058,000 tonnes at 2.82 g/t containing 4,624,912 ounces of gold (Measured and Indicated – December 2018)

**Opened**
2012 (open pit), 2013 (underground)

**Employment**
630 employees, 136 contractors

**Notes:** Decreased production at Young-Davidson is expected in 2020 in order to allow for the completion of the tie-in of the upper and lower mines, which is expected to occur from March to June 2020. During this downtime, ore will be trucked to surface from the upper mine at a rate of approximately 2,500 tonnes per day. A total 10,500 metres of underground exploration drilling is planned at Young-Davidson in 2020. Drilling will explore the down-dip extension of the Young-Davidson ore body, below current Mineral Resources.
OTHER METAL MINES

KIDD CREEK MINE - Glencore PLC • zinc, copper, lead, silver, cadmium, indium, sulphuric acid • underground

Address
11335 Highway 655 North, P.O. Bag 2002, Timmins, ON P4N 7K1
Tel: (705) 264-5200 | Fax: (705) 267-8709 | www.glencore.com | www.kiddoperations.ca

Mine Manager
Mark Furlotte, General Manager, Kidd Operations

Production Rate
7,900 tonnes per day

Production
2016 – 38,300 tonnes copper, 78,500 tonnes zinc, 2,292,000 ounces of silver
2017 – 39,900 tonnes copper, 72,400 tonnes zinc, 2,271,000 ounces of silver
2018 – 33,600 tonnes copper, 65,900 tonnes zinc, 1,893,000 ounces of silver
2019 – 32,000 tonnes copper, 62,400 tonnes zinc, 2,025,497 ounces of silver (estimate)
2020 – 38,000 tonnes copper, 62,900 tonnes zinc, 2,025,497 ounces of silver (estimate)

Resources
10,000,000 tonnes at 1.90 per cent copper, 4.20 per cent zinc and 48.00 g/t silver
(Measured and Indicated – December 2018)

Opened
1966

Employment
850 (employees and contractors)

Notes: Kidd Creek is the world’s deepest base metal mine below sea level. The company is currently mining the 9,600-foot level and the shaft extends to 9,889 feet. The mine life at Kidd is expected to continue through 2022.

LAC DES ILES MINE - Impala Platinum Holdings Ltd. - Impala Canada Ltd. • platinum group metals • underground, open pit

Address
P.O. Box 10547, Thunder Bay, ON P7B 6T9
Tel: (807) 448-2000 | Fax: (807) 448-2001 | www.nap.com

Mine Manager
Bryan Wilson, General Manager

Production Rate
6,755 tonnes per day (underground), 8,984 tonnes per day (mill)

Production
2016 – 158,481 ounces of palladium, 10,230 ounces of platinum
2017 – 208,923 ounces of palladium, 12,267 ounces of platinum
2018 – 242,686 ounces of palladium, 16,368 ounces of platinum
2019 – 227,500 ounces of palladium, 17,000 ounces of platinum (estimate)
2020 – 208,000 ounces of palladium, 18,000 ounces of platinum (estimate)

Resources
72,982,000 tonnes at 2.14 g/t palladium, 0.21 g/t platinum, 0.16 g/t gold, 0.06 per cent copper and 0.07 percent nickel (Measured and Indicated – July 2018)

Opened
1993 (open pit), 2006 (underground)

Employment
Over 700 (employees)

Notes: Ore from Lac des Iles Mine is shipped to Vale’s Sudbury Operations for refining. North American Palladium, including Lac des Iles mine, was acquired by Impala Platinum Holdings (Implats) in a $930-million deal that closed Dec. 13, 2019. The mine is now operated as the Implats subsidiary Impala Canada Ltd. Underground rates at the mine will be ramped up to 12,000 tonnes per day by 2021. In 2019, underground exploration drilling was conducted at C Zone, Offset Satellite (B Zone and Mystery Zone) and Roby-Offset while surface drilling was conducted in the East Mine Block. Near-mine exploration continues at Sunday Lake, with 7,300 metres of drilling conducted in 2019.
MCCREEDY WEST MINE – KGHM International Ltd. • nickel, copper, platinum, palladium • underground

Address 4 Mine Road, P.O. Box 40, Levack, ON P0M 2C0  
Tel: (705) 966-5112 | Fax: (705) 966-5386 | www.kghm.com

Mine Manager Steve Dunlop, General Manager

Production Rate 2,425 tonnes per day

Production
2016 – 2,100 tonnes nickel, 14,400 tonnes copper, 46,000 ounces of precious metals  
2017 – 1,100 tonnes nickel, 9,400 tonnes copper, 38,000 ounces of precious metals  
2018 – 900 tonnes nickel, 7,400 tonnes copper, 30,500 ounces of precious metals  
2019 – 1,700 tonnes nickel, 1,300 tonnes copper, 4,115 ounces of precious metals (estimate)  
2020 – 1,700 tonnes nickel, 1,300 tonnes copper, 4,115 ounces of precious metals (estimate)

Resources 12,972,000 tonnes at 0.91 per cent copper, 1.25 per cent nickel, 0.17 g/t platinum, 0.23 g/t palladium and 0.07 g/t gold containing 118,467 tonnes copper, 161,773 tonnes nickel, 68,867 ounces platinum, 93,977 ounces palladium and 29,707 ounces gold (Sudbury Operations Total Measured and Indicated – December 2014)

Opened 2004

Employment 208 workers (estimate)

Notes: McCreedy ore is processed at Vale’s Clarabelle Mill in Sudbury. In 2019, KGHM Sudbury operations transitioned from mining the Morrison mine to the McCreedy West mine, which had been on care and maintenance since 2015. In 2019, KGHM’s Victoria project, a planned underground copper-nickel mine located 35 kilometres west of Sudbury, was submitted to the Canadian Environmental Assessment Agency (CEAA) for comment and it was determined that an environmental assessment would not be required.

SUDBURY OPERATIONS – VALE – Coleman Mine, Copper Cliff North Mine, Garson Mine, Creighton Mine, Totten Mine Vale S.A • nickel, copper, cobalt, platinum group metals, gold, silver, sulphuric acid, liquid sulphur dioxide • underground

Address Copper Cliff, ON P0M 1N0  
Tel: (705) 682-4211 | Fax: (705) 682-5319 | www.vale.com

Production Rate 35,000 tonnes per day (Clarabelle Mill capacity)

Production
2016 – 80,400 tonnes nickel, 121,600 tonnes copper, 882 tonnes cobalt, 98,000 ounces of gold, 322,000 ounces of palladium, 166,000 ounces platinum, 2,165,000 ounces silver  
2017 – 61,900 tonnes nickel, 98,300 tonnes copper, 840 tonnes cobalt, 74,000 ounces of gold, 214,000 ounces of palladium, 144,000 ounces platinum, 1,875,440 ounces of silver (estimate)  
2018 – 50,600 tonnes nickel, 72,300 tonnes copper, 520 tonnes cobalt, 84,717 ounces of gold, 218,000 ounces of palladium, 135,000 ounces platinum, 1,339,080 ounces of silver (estimate)  
2019 – 58,000 tonnes nickel, 93,394 tonnes copper, 626 tonnes cobalt, 72,611 ounces of gold, 203,300 ounces of palladium, 145,220 ounces platinum, 1,331,427 ounces of silver (estimate)  
2020 – 59,840 tonnes nickel, 93,394 tonnes copper, 626 tonnes cobalt, 72,611 ounces of gold, 260,200 ounces of palladium, 223,000 ounces platinum, 1,300,819 ounces of silver (estimate)

Resources 61,700,000 tonnes at 1.40 per cent nickel, 1.78 per cent copper, 0.03 per cent cobalt, 1.20 g/t palladium, 0.50 g/t gold containing 118,467 tonnes copper, 161,773 tonnes nickel, 68,867 ounces platinum, 93,977 ounces palladium and 29,707 ounces gold (Measured and Indicated – December 2018)

Employment Nearly 4,000 (Vale Sudbury Operations total workforce)

Notes: Vale Ontario Operations include five active mines, the Clarabelle mill, the Copper Cliff smelter/refinery complex and the Port Colborne cobalt refinery. Work at Vale’s $750-million Copper Cliff Deep mine expansion project in Sudbury is expected to be completed by 2021. The mine will employ more than 400 workers when in operation. Vale is currently conducting a feasibility study for a Phase 2 expansion of Copper Cliff Deep that would incorporate additional deposits from the Kelly Lake area into the mine.

COLEMAN MINE

Mine Manager Brent Salem

Production Rate 618,000 tonnes per year

Opened 1992

COPPER CLIFF NORTH MINE

Mine Manager Franco Cazzola

Production Rate 746,000 tonnes per year

Opened 1886
CREIGHTON MINE

Mine Manager  Alan Vermeersch
Production Rate  608,000 tonnes per year
Opened  1902

GARSON MINE

Mine Manager  Rick Filion
Production Rate  655,000 tonnes per year
Opened  1907–1986; 1994 (reopened)

TOTTEN MINE

Mine Manager  John Ryan
Production Rate  710,000 tonnes per year
Opened  2014

SUDBURY OPERATIONS – GLENCORE - Fraser Mine, Nickel Rim South Mine – Glencore PLC • nickel, copper, cobalt, platinum group metals, sulphuric acid • underground

Address  6 Edison Road, Falconbridge, ON P0M 1S0
Tel: (705) 693-2761 | Fax: (705) 966-6530 | www.glencore.com
Production Rate  6,670 tonnes per day
Production  2016 – 24,127 tonnes nickel, 48,150 tonnes copper, 505 tonnes cobalt
          2017 – 22,928 tonnes nickel, 40,427 tonnes copper, 480 tonnes cobalt (estimate)
          2018 – 22,806 tonnes nickel, 38,831 tonnes copper, 477 tonnes cobalt (estimate)
          2019 – 22,806 tonnes nickel, 38,831 tonnes copper, 477 tonnes cobalt (estimate)
          2020 – 18,336 tonnes nickel, 12,240 tonnes copper, 264 tonnes cobalt (estimate)
Resources  28,900,000 tonnes at 2.00 per cent nickel, 2.30 per cent copper, 0.05 per cent cobalt, 1.02 g/t palladium, 0.90 g/t platinum (Measured and Indicated – December 2018)
Employment  1,300 employees, 500 contractors (approximate)

Notes: Glencore’s Sudbury Integrated Nickel Operations consist of the Nickel Rim South and Fraser underground mines, the Strathcona Mill and the Sudbury Smelter. Glencore’s Sudbury production is shipped to the company’s Nikkelverk refinery in Norway for further processing. The Nickel Rim South Mine is currently Sudbury’s largest mining operation, producing approximately 14,000 tonnes of nickel a year. The company’s Onaping Depth Project in Sudbury is currently in construction. The deposit extends to a depth of 2,600 metres and will be Glencore’s deepest mine. First ore production is expected in 2023 and full production is expected in 2025. The mine life at Glencore’s Sudbury Integrated Nickel Operations currently extends through 2034.

FRASER MINE

Manager  Gary Potts, Mine Director
Production Rate  702,631 tonnes per year
Opened  1968

NICKEL RIM SOUTH MINE

Manager  Christian Bruneau, Director
Production Rate  1,299,590 tonnes per year
Opened  2010
TOMCLID IRON MINE - Ferromin Inc. • iron as magnetite • quarry

Address
South Canonto Township, ON
www.ferromininc.com

Production
2016 – 8,000 tonnes of ore (approximate)
2017 – 15,000 tonnes of ore (approximate)
2018 – 0 tonnes of ore
2019 – not available
2020 – not available

Resources
Three million tonnes averaging 40 per cent Fe (1993); reserves estimate has not been adjusted to reflect production from the deposit

Opened
1997 (reopened on an “as-needed basis”)

Notes: Production was restarted in late 1997 by Tomclid Iron Mines Ltd. and operations have continued on an as-needed basis by Ferromin Inc. Magnetite is mined and crushed as high-density aggregate for use in heavy concrete applications including radiation shielding.

DIAMOND MINES

VICTOR DIAMOND MINE - De Beers Canada Inc. • diamond • open pit

Address
119 Pine Street South, Suite 310, Timmins, ON P4N 2K3
Tel: (705) 268-0988 | Fax: (705) 268-0179 | canada.debeersgroup.com

Mine Manager
Alistair Skinner, Manager of Operations

Production Rate
7,400 tonnes per day

Production
2016 – 596,000 carats
2017 – 724,000 carats
2018 – 936,000 carats
2019 – 421,000 carats
2020 – 0 carats (closed)

Resources
1,400,000 tonnes at 0.21 carats per tonne containing 338,000 carats of diamonds
(Measured and Indicated – December 2017)

Opened
2008

Employment
170 employees, 134 contractors (at closure)

Notes: Victor Mine is one of 18 kimberlite pipes discovered on the property, 16 of which are diamondiferous. Victor opened in 2008 and was Ontario’s first diamond mine. In 2019, the final load of ore was trucked from Victor pit on March 5, stockpile was processed until May 25, and plant shutdown was completed by June. Eighty staff continue to work at Victor in reclamation. Site takedown and environmental monitoring is expected to take three to five years after mining ceased.
### Major Industrial Mineral Producers

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Address</th>
<th>Contact</th>
<th>Employees</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Blue Mountain Operations</strong></td>
<td>Covia Canada Ltd.</td>
<td>Alex Vanags, P.Eng., Plant Manager (705) 877-2500 ext. 645</td>
<td>230</td>
</tr>
<tr>
<td><strong>Goderich Evaporator Plant</strong></td>
<td>Compass Minerals Canada Corp.</td>
<td>(519) 524-8338</td>
<td>90</td>
</tr>
<tr>
<td><strong>Goderich Salt Mine</strong></td>
<td>Compass Minerals Canada Corp.</td>
<td></td>
<td>380</td>
</tr>
<tr>
<td><strong>Hagersville Mine</strong></td>
<td>Gebr. Knauf KG</td>
<td></td>
<td>44</td>
</tr>
<tr>
<td><strong>Ojibway Mine</strong></td>
<td>K+S Windsor Salt Ltd.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Penhorwood Mine</strong></td>
<td>IMERYS Talc</td>
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<tr>
<td><strong>St. Lawrence Mine</strong></td>
<td>Canadian Wollastonite</td>
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<tr>
<td><strong>Tatlock Quarry</strong></td>
<td>OMYA (Canada) Inc.</td>
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<tr>
<td><strong>Windsor Evaporation Facility</strong></td>
<td>K+S Windsor Salt Ltd.</td>
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<tr>
<td><strong>Other Industrial Mineral Producers</strong></td>
<td>Spanish River Carbonatite</td>
<td></td>
<td></td>
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<tr>
<td><strong>Other Industrial Mineral Producers</strong></td>
<td>Boreal Agrominerals Inc.</td>
<td></td>
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</tr>
</tbody>
</table>

#### Blue Mountain Operations
- **Covia Canada Ltd.**
  - **nepheline syenite • open pit (Mining Act)**
  - **Location**: Methuen Township
  - **Address**: P.O. Box 2000, Havelock, ON K0L 1Z0
  - **Contact**: Alex Vanags, P.Eng., Plant Manager (705) 877-2500 ext. 645
  - **Employees**: 230

#### Goderich Evaporator Plant
- **Compass Minerals Canada Corp.**
  - **salt in brine (Oil, Gas and Salt Resources Act)**
  - **Location**: Goderich Township
  - **Address**: Evaporation Plant P.O. Box 100, 245 Regent Street, Goderich, ON N7A 3Y5
  - **Contact**: (519) 524-8338
  - **Employees**: 90

#### Goderich Salt Mine
- **Compass Minerals Canada Corp.**
  - **rock salt • underground (Mining Act)**
  - **Location**: Goderich Township
  - **Address**: P.O. Box 370, 300 North Harbour Road, Goderich, ON N7A 3Y9
  - **Contact**: (519) 524-8351
  - **Employees**: 380

#### Hagersville Mine
- **Gebr. Knauf KG**
  - **gypsum • underground (Mining Act)**
  - **Location**: Oneida Township
  - **Address**: P.O. Box 99, Hagersville, ON N0A 1H0 (905) 768-3331
  - **Contact**: (905) 768-3331
  - **Employees**: 44

#### Ojibway Mine
- **K+S Windsor Salt Ltd.**
  - **rock salt • underground (Mining Act)**
  - **Location**: Windsor - Sandwich Township
  - **Address**: P.O. Box 7008, 200 Morton Drive, Windsor, ON N9J 3W9
  - **Contact**: (519) 966-2142
  - **Employees**: 206

#### Penhorwood Mine
- **IMERYS Talc**
  - **talc • open pit (Mining Act) • primary plant • micronising plant**
  - **Location**: Quarry and primary processing plant - Penhorwood Township
  - **Micronising plant - Timmins**
  - **Address**: 100 Water Tower Road, Timmins, ON P4N 7J5
  - **Contact**: (705) 268-2208
  - **Employees**: 65 (130 at peak)

#### St. Lawrence Mine
- **Canadian Wollastonite**
  - **wollastonite • open pit (Mining Act)**
  - **diopside • granite aggregate**
  - **Location**: Seeleys Bay (Kingston)
  - **Address**: 6675 Highway 15 Seeleys Bay, ON K0H 2N0 (613) 387-2734, ext. 101 Bob.Vasily@canadianwollastonite.com
  - **Contact**: (613) 387-2734
  - **Employees**: summer – 16, winter – two

#### Tatlock Quarry
- **OMYA (Canada) Inc.**
  - **calcium carbonate • open pit (Aggregate Resources Act)**
  - **Location**: Tatlock Quarry (Darling Township)
  - **Address**: P.O. Box 245, Perth, ON K7H 3E4
  - **Contact**: (613) 267-5367
  - **Employees**: 400

#### Windsor Evaporation Facility
- **K+S Windsor Salt Ltd.**
  - **salt in brine (Oil, Gas and Salt Resources Act)**
  - **Location**: Windsor - Sandwich Township
  - **Address**: Evaporation Plant P.O. Box 7008, 30 Prospect Avenue, Windsor, ON N9C 3G3
  - **Contact**: (519) 255-5404
  - **Employees**: 92

#### Other Industrial Mineral Producers
- **Spanish River Carbonatite**
  - **Boreal Agrominerals Inc.**
    - **carbonatite, vermiculite • open pit (Aggregate Resources Act)**
    - **Location**: Venturi Township
    - **Address**: Suite 206, 57 Mill Street North Brampton, ON L6X 1S9
    - **Contact**: (905) 456-5436
    - **Website**: www.borealagrominerals.ca
    - **Employees**: 15
<table>
<thead>
<tr>
<th>Producers</th>
<th>Products</th>
<th>General Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Amethyst Mine Panorama - Precious Purple Gemstones/ Amethyst Gift Centre</strong>&lt;br&gt;Steve and Tim Lukinuk&lt;br&gt;400 Victoria Avenue East, Thunder Bay, ON P7C 1A5&lt;br&gt;(807) 622-6908&lt;br&gt;<a href="mailto:info@amethystmine.com">info@amethystmine.com</a>&lt;br&gt;www.amethystmine.com</td>
<td>• specimens&lt;br&gt;• decorative stone&lt;br&gt;• landscaping stone&lt;br&gt;• slabbing and tumbling stone&lt;br&gt;• jewelry, giftware, carvings&lt;br&gt;• faceted gem stones</td>
<td><strong>McTavish Township</strong>&lt;br&gt;Tourist attraction&lt;br&gt;• pick your own site&lt;br&gt;• mine tours</td>
</tr>
<tr>
<td><strong>AquaRose Gems and Minerals - Beryl Pit/Rose Quartz Pit</strong>&lt;br&gt;Dave Patterson&lt;br&gt;1327 Lower Craigmont Road, RR 2, Combermere, ON K0J 1L0&lt;br&gt;(613) 756-1361&lt;br&gt;<a href="mailto:berrylpit@nexicom.net">berrylpit@nexicom.net</a></td>
<td>• mineral specimens&lt;br&gt;• decorative stone&lt;br&gt;• landscaping stone&lt;br&gt;• slabbing &amp; tumbling stone&lt;br&gt;• quartz, feldspar, 35 accessory minerals in a complex pegmatite</td>
<td><strong>Lyndoch Township</strong>&lt;br&gt;Tourist attraction&lt;br&gt;• fee for collecting site&lt;br&gt;• mine tours</td>
</tr>
<tr>
<td><strong>Assiniboia Amethyst Mine</strong>&lt;br&gt;Paul and Thelma Smitham&lt;br&gt;Wawa, ON&lt;br&gt;(705) 856-4221 (winter)&lt;br&gt;(705) 852-0686 (summer)&lt;br&gt;www.assiniboiaamethystmine.weebly.com</td>
<td>• mineral specimens</td>
<td><strong>McTavish Township</strong></td>
</tr>
<tr>
<td><strong>Auralite 23 Mine (Amethyst)</strong>&lt;br&gt;Howard Pilsmaker&lt;br&gt;Thunder Bay, ON&lt;br&gt;(807) 629-4300&lt;br&gt;<a href="mailto:auralite@hotmail.com">auralite@hotmail.com</a>&lt;br&gt;www.auralite23canada.com</td>
<td>• mineral specimens&lt;br&gt;• polished and tumbled stone&lt;br&gt;• jewelry&lt;br&gt;• tiles and countertop stone</td>
<td><strong>Tartan Lake Area</strong>&lt;br&gt;Tourist attraction&lt;br&gt;• guided tours available</td>
</tr>
<tr>
<td><strong>Blue Points Amethyst Mine</strong>&lt;br&gt;Lyndon Swanson&lt;br&gt;5 Road North, Pearl, ON P0T 2M0&lt;br&gt;(218) 409-1584 (winter)&lt;br&gt;(807) 629-1127 (summer)&lt;br&gt;<a href="mailto:lynswan1@lakenet.com">lynswan1@lakenet.com</a></td>
<td>• specimens&lt;br&gt;• decorative stone</td>
<td><strong>McTavish Township</strong>&lt;br&gt;Tourist attraction&lt;br&gt;• pick your own site</td>
</tr>
<tr>
<td><strong>Boulder Creek Amethyst Quarry</strong>&lt;br&gt;Chuck Anderson&lt;br&gt;27 3rd Street, Nipigon, ON P0T 2J0&lt;br&gt;(807) 887-2615&lt;br&gt;<a href="mailto:bouldercreek@shaw.ca">bouldercreek@shaw.ca</a>&lt;br&gt;<a href="http://mininglifeonline.net/company_page_487.html">http://mininglifeonline.net/company_page_487.html</a></td>
<td>• specimens&lt;br&gt;• giftware</td>
<td><strong>McTavish Township</strong></td>
</tr>
<tr>
<td>Producers</td>
<td>Products</td>
<td>General Information</td>
</tr>
<tr>
<td>-----------</td>
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</tr>
</tbody>
</table>
| **Diamond Willow Amethyst Mine**  
Brandon Leroux and Carol Fayle  
5 Road North, Pearl, ON  
(807) 627-5515  
diamondwillowamethyst@hotmail.com  
• specimens  
• decorative stone  
• landscaping stone  
• slabs  
• tumbling stone  
• jewelry  
McTavish Township  
Tourist attraction  
• pick your own site  
• mine tours  |
| **Princess Sodalite Mine (operation: May 1 to October 12)**  
Andy Christie  
Rock Shop and Rock Farm  
31241 Highway 28 East, Bancroft, ON K0L 1C0  
(613) 332-8274  
Andy@PrincessSodaliteMine.ca  
http://www.princesssodalitemine.ca/  
• specimens  
• decorative stone  
• landscaping stone  
• giftware  
• jewelry  
Bancroft  
Tourist attraction  
• pick your own site  |
| **Purple Haze Mine (Amethyst)**  
Michael and Sandra Grieve  
22 Knight Street, Thunder Bay, ON P7A 5M2  
(807) 345-6444  
info@purplehazeamethyst.com  
www.purplehazeamethyst.com  
• specimens  
• giftware  
• jewelry  
• landscaping stone  
• decorative stone  
Tartan Lake Area  |
| **Windy Ridge Amethyst Quarry**  
Larry Kowtuski  
71 Stover Street South, Norwich, ON N0J 1P0  
(519) 468-3090  
windyridge@live.ca  
• specimens  
• giftware  
• garden rock  
McTavish Township  |
Lime and Specialty Limestone Producers

Beachville Operations
Carmeuse Lime (Canada) Limited
• limestone: agricultural lime, crushed • high calcium lime • hydrator
Location Zorra Township
Address 3746-81 37th Line, Oxford County Road 6
Ingersoll, ON N5C 3K5
Contact (519) 423-6283
Website www.carmeusena.com
Employees 175

Blair Quarry
A.L. Blair Construction Ltd.
• limestone: agricultural lime, crushed
Location Finch Township
Address 7 Labrosse Street, P.O. Box 220
Moose Creek, ON K0C 1W0
Contact (613) 538-2271 (head office)
Website www.alblairconstruction.com
Employees 10

Bucke Quarry
Miller Minerals (Division of Miller Paving Co.)
• limestone: crushed, agricultural lime
Location Bucke Township
Address P.O. Box 248
New Liskeard, ON POJ 1P0
Contact (705) 672-2282
Employees Six

Dundas Operations
Carmeuse Lime (Canada) Limited
• dolomitic lime
Location Town of Flamborough
West Flamborough Township
Address 600 Highway 5, Gate 1, Building 13, P.O. Box 2029
Dundas, ON L9H 5E2
Contact (905) 628-8800
Website www.carmeusena.com/locations/dundas-operation
Employees 53

Dundas Quarry
Lafarge Canada Inc.
• dolostone: crushed • metallurgical grade limestone
Location Town of Flamborough
West Flamborough Township
Address 628 Highway 5
Dundas, ON L9H 5E2
Contact (905) 527-2744, (905) 527-3671
Website www.lafarge.ca/en
Employees 85

Meldrum Bay Quarry
Lafarge Canada Inc.
• dolostone: crushed • metallurgical and chemical stone, aggregate
Location Dawson Township, Manitoulin Island
Address 95 Mississauga Lighthouse Road, P.O. Box 6
Meldrum Bay, ON P0R 1R0
Contact (705) 283-3011

Northern Operation
Carmeuse Lime (Canada) Limited
• high calcium lime (limestone quarried in Michigan, plant in Blind River)
Location Blind River
Address Highway 17 East, P.O. Box 1690
Blind River, ON P0R 1B0
Contact (705) 849-2201
Website www.carmeusena.com
Employees 26

Sydenham Quarry
E.C. King Contracting Division of Miller Paving
• dolostone: crushed • dolomitic lime
Location Sydenham Township
Address 2125 20th Avenue East, P.O. Box 457
Owen Sound, ON N4K 5P7
Contact (519) 376-6140
Armstrong Quarry
AECOn Mining Inc.
• basalt • diabase
Location Armstrong, Ontario
Address Aecon Mining Inc.
c/o Fudge & Associates
160 Bryan Road
North Bay, ON P1C 1C2
Contact (705) 472-3053

Bridgewater Trap Rock Mine
Danford Granite Ltd.
• gabbro • mineral wool raw material, high-performance aggregate, railway ballast, filter stone
Location Elzevir Township (northeast of Madoc)
Address P.O. Box 749, 326 Durham Street
Madoc, ON K0K 2K0
Contact (613) 473-2468
info@danfordconstructionltd.com
Website www.danfordconstructionltd.com

Havelock Quarry
Drain Bros. Excavating Ltd.
• basalt • rail ballast, rock wool, high-quality asphalt
Location Belmont Township (east of Havelock)
Quarry - 6830 Highway 7, Belmont-Havelock
Mailing address
2130 8th Line Road North
Douro-Dummer, ON K0L 2H0
Contact (705) 639-2301
info@drainbros.ca

Hillsport Quarry
AECOn Mining Inc.
• diabase • mineral wool raw material, high-performance aggregate, railway ballast, filter stone
Location Hillsport, Ontario
Address Aecon Mining Inc.
c/o Fudge & Associates
160 Bryan Road
North Bay, ON P1C 1C2
Contact (705) 472-3053

I.K.O. Quarry
I.K.O. Industries Ltd.
• andesite • roofing granules, HL-1 aggregate
Location Madoc Township
Address P.O. Box 839, 105084 Highway 7
Madoc, ON K0K 2K0
Contact (613) 473-0430

Iroquois Falls Quarry
AECOn Mining Inc.
• basalt • gabbro • diabase
Location Iroquois Falls, Ontario
Address Aecon Mining Inc.
c/o Fudge & Associates
160 Bryan Road
North Bay, ON P1C 1C2
Contact (705) 472 3053

MRT Traprock
MRT Aggregates Inc.
• gabbro • HL-1, DFC, OFC, SMA, FC-1, FC-2 • railway ballast
Location Methuen Township
Address c/o MRT Aggregates Inc.
4999 County Road 46
Havelock, ON K0L 1Z0
Contact (705) 877-8423

Ontario Trap Rock Quarry
Ontario Trap Rock Ltd.
• diabase • mineral wool raw material, high-performance aggregate, railway ballast, filter stone
Location Bruce Mines
Address 9630 King’s Highway 17
Bruce Mines, ON P0R 1C0
Contact (705) 785-3833

Smelter Bay Aggregates Quarry (owned by Lafarge)
Smelter Bay Aggregates
• diabase • construction aggregate, abrasives, roofing granules
Location Nestorville (five kilometres west of Thessalon)
Address Boundary Road Industrial Park, P.O. Box 400
Thessalon, ON P0R 1L0
Contact (705) 842-2597
Brick Producers

Brampton Brick Ltd.
- shale • clay brick
Address 225 Wanless Drive
Brampton, ON L7A 1E9
Contact (905) 840-1011
www.bramptonbrick.com

Cheltenham Quarry
Location Brampton, Chinguacousy Township

Hungry Hollow Quarry (Inactive)
Location Lambton Shores, West Williams Township
Employees 68

Jazbrick Group (formerly Century Brick)
- shale • clay brick
Address 22 Airport Road
Brantford, ON N3T 5R7
Contact (416) 741-4498 or 1 (888) 772-8099
www.jazbrick.com

Georgetown Quarry
Location Esquesing Township

Meridian Brick Ltd. (formerly Forterra Brick, Hanson Brick)
- shale • clay brick
Address 5155 Dundas Street West
Burlington, ON L7R 3Y2
Contact 1 (800) 263-6229, (905) 335-3401
jan.jensen@meridianbrick.com

Aldershot Quarry
Location City of Burlington, East Flamborough Township

Burlington Quarry
Location City of Burlington, Nelson Township

Niagara-on-the-Lake Quarry
Location Niagara Township
Employees 150-175

Cement Producers’ Quarries

Bath Quarry
Lafarge Canada Inc.
- limestone • cement
Location Ernestown Township
Address Highway 33, P.O. Box 160
Bath, ON KOH 1G0
Contact (613) 352-7711
Employees 110 at the plant and 10 at the quarry

Bowmanville Quarry
St. Marys Cement Inc.
- limestone • cement
Location Darlington Township
Address 400 Waverley Road South
Bowmanville, ON L1C 3K3
Contact (905) 623-3341
Employees 117 at the plant and 18 at the quarry

Ogden Point Quarry
CRH Canada Group Inc.
- limestone • cement
Location Cramahe Township (quarry); plant in Mississauga
Address 176 Victoria Beach Boulevard, P.O. Box 160
Colborne, ON K0K 1S0
Contact (905) 355-2534
Website www.crhcement.com
Employees 160 at the plant and 21 at the quarry

Picton Quarry
Lehigh Cement (Heidelberg Cement Group)
- limestone • cement
Location Sophiasburg Township
Address 1370 Highway 49 South
Picton, ON K0K 2T0
Contact (613) 476-3233
Kreg Roblin, kreg.roblin@lehighhanson.com
Website www.lehighhanson.com
Employees 136

St. Marys Quarry
St. Marys Cement Inc.
- limestone • cement
Location Blanshard Township
Address 585 Water Street South, P.O. Box 1000
St. Marys, ON N4X 1B6
Contact (519) 284-1020
Employees 115-120 at the plant and eight at the quarry

Federal White Cement
- cement (they purchase limestone from Lafarge’s Carmeuse quarry)
Address P.O. Box 1609
Woodstock, ON N4S 0A8
Contact (519) 485-5410
Employees 50-60
## Dimension Stone and Specialty Aggregate Producers

### A and A Natural Stone Ltd.
- **Address**: Concession 17 Keppel Township, RR 1
  P.O. Box 967, Wiarton, ON NOH 2T0
- **Contact**: Dawn Forbes, Manager
  Tel: (519) 534-5966 | (519) 534-5540
  Fax: (519) 534-2435
  aanaturalstone@forbessandandgravel.ca
- **Quarries**: Keppel Township (Owen Sound)

### Allstone Quarry Products Inc.
- **Address**: 16105 Highway 27, Schomberg, ON L0G 1T0
- **Contact**: Peter Melo
  Tel: (905) 939-8491 | 1 (800) 263-1270
  Fax: (905) 939-2797 | info@allstonequarry.com
  [website](http://www.allstonequarry.com)
- **Quarries**: Bigwood Township (near Sudbury)

### Aqua Rose Gems and Minerals
- **Address**: 1327 Lower Craigmont Road
  RR 2 Combermere, ON K0J 1L0
- **Contact**: Dave Patterson
  Tel: (613) 756-1361 | berylpit@nexicom.net
- **Quarries**: Lyndoch Township (near Bancroft)

### Arriscraft International Inc.
- **Address**: 875 Speedsville Road, P.O. Box 3190
  Cambridge, ON N3H 4S8
- **Contact**: Trevor Cochrane | trevor.cochrane@arriscraft.com
  Tel: (519) 653-3275 | 1 (800) 265-8123
  Fax: (519) 653-1337 | solutions@arriscraft.com
  [website](http://www.arriscraft.com)
- **Quarries**: Albemarle Township (near Owen Sound)

### Attia Quarries
- **Address**: 6 Satchell Boulevard, Toronto, ON M1C 3B4
- **Contact**: Eid Attia | eidattia3@gmail.com
  Tel: (416) 286-7233 | (705) 325-5068
  (416) 453-2978 | Fax: (416) 286-5693
  [website](http://www.attiaquarry.com)
- **Employees**: Four
- **Quarries**: 6414 County Road 169, Rama Township

### Birkendale Natural Stone
- **Address**: 144 Stephenson Road 8 East, Huntsville, ON POB 1M0
- **Contact**: Mimi Lawrenson
  Tel: (705) 385-8000 | Fax: (705) 385-3260
  info@ontariostonedepot.com
  [website](http://www.ontariostonedepot.com)
- **Quarries**: Franklin Township (near Huntsville)

### Block and Stone Resource Group Inc.
- **Address**: 370 2nd Avenue Southeast, Owen Sound, ON N4K 5T1
- **Contact**: Andrew Negus or Ben Snyder
  Tel: (519) 416-7625 | 1 (855) 416-7626
  Fax: (519) 416-7626 | dsnyder@bsrg.ca
- **Website**: [www.bsrg.ca](http://www.bsrg.ca)
- **Quarries**: Amabel Township (near Wiarton)
- **Employees**: 18-48

### Bot Aggregates Ltd.
- **Address**: 6791 Concession Road B-C, Ramara, ON L0K 1B0
- **Mailing address**: 1224 Speers Road, Oakville ON L6L 2X4
- **Contact**: Tel: 1 (877) 898-2688 | (905) 827-4167
  Fax: 1 (866) 268-4177
  generalinquiry@botconstruction.ca
- **Website**: [www.botconstruction.ca](http://www.botconstruction.ca)
- **Quarries**: Sebright (near Orillia)

### Brent Quarrries
- **Address**: 3841 Muskoka District Road 118 West
  Port Carling, ON POB 1JO
- **Contact**: Ron Brent
  Tel: (705) 765-6447 | inquiry@brentquarry.com
  [website](http://www.brentquarry.com)
- **Quarries**: Medora, Humphrey and Watt townships (near Parry Sound)

### Bruce Peninsula Stone Ltd.
- **Address**: 451 Mar Sideroad
  South Bruce Peninsula, ON NOH 2T0
- **Contact**: Eric Shouldice, Manager
  Tel: (519) 534-3991, (519) 935-3333
  Fax: (519) 534-4191
  office@brucepeninsulastoneltd.com
  [website](http://www.brucepeninsulastoneltd.com)
- **Quarries**: Amabel Township, Albemarle Township, Lindsay Township (near Owen Sound)

### Callander Industries Ltd.
- **Address**: P.O. Box 121, Callander, ON POH 1H0
- **Contact**: Gary M. Mote
  Tel: (705) 752-2396 | Fax: (705) 752-5643
calind@sympatico.ca
- **Website**: [www.callanderindustries.com](http://www.callanderindustries.com)
- **Quarries**: McAuslan Township, Jocko Township, Garrow Township (North Bay)

### Canadian Colour Rock Inc.
- **Address**: 244 Copper Street, Suite 301, Sudbury, ON P3E 2C2
- **Contact**: H. Tsambis, Manager
  Tel: (705) 690-0300 | jskakoon@gmail.com
- **Quarries**: Gordon Township, Robinson Township (Manitoulin Island), Aylmer Township (near Sudbury)
Dimension Stone and Specialty Aggregate Producers

**Colonial Brick and Stone Inc.**
Address: 5956 Perth Road 119, Brunner, ON N0K 1C0  
Contact: Elroy Wagler  
Tel: (519) 595-4261 | Fax: (519) 595-2399  
dwight@colonialbrickandstone.com  
Website: www.colonialbrickandstone.com  
Quarries: Robinson Township (Manitoulin Island)

**Coloured Aggregates Inc.**
Address: Unit 12, 158 Don Hillock Drive, Aurora, ON L4G 0G9  
Contact: Jeff Oravecz | jeff_oravecz@colouredaggregates.com  
Tel: (416) 491-0230 | 1 (800) 465-5066  
Fax: (416) 494-1014  
Website: www.colouredaggregates.com  
Quarries: Canonto Township magnetite (near Kingston), Ashby Township marble, Marmora mill

**Credit Valley Quarries Co. Ltd.**
Address: 14550 Heritage Road, Caledon, ON L7C 1P5  
Contact: Tel: (905) 877-3686 | Fax: (905) 877-3686  
stone@creditvalleyquarries.com  
Website: www.creditvalleyquarries.com  
Quarries: Chingacousy Township (near Caledon)

**Cushman Stone and Gravel**
Address: P.O. Box 161, 166 Savage Settlement Road  
Novar, ON POA 1RO  
Contact: Jim Cushman, Owner  
Tel: (705) 789-7830 | Fax: (705) 789-7830  
Quarries: Perry Township (near Huntsville)

**Cut Above Natural Stone**
Address: 7172 Concession B-C, Ramara, ON L3V 0K7  
Contact: Scott Gareau, Owner  
Tel: (705) 327-1158, 1 (888) 557-7625  
Fax: 1 (888) 349-7625  
sales@cutabovenaturalstone.com  
Website: www.cutabovenaturalstone.com  
Quarries: Rama Township (near Orillia)

**Dufferin Aggregates**
Address: 2300 Steeles Avenue West, 4th floor  
Concord, ON L4K 5X6  
Contact: Jeff Benedict, Sales  
Tel: 1 (855) 225-5332 | Fax: (905) 761-5905  
Website: www.dufferinaggregates.com  
Quarries: Flamborough, Acton, Carden, Buckhorn, Milton

**Ebel Quarrries Inc.**
Address: 161 Old Oliphant Road, P.O. Box 69  
Wiarton, ON NOH 2T0  
Contact: Mark Ebel, Vice-President  
Tel: (519) 534-0380 | 1 (877) 614-4406  
Fax: (519) 534-0077 | office@ebelquarries.com  
Website: www.ebelquarries.com  
Quarries: Amabel Township (near Owen Sound)

**Fowler Construction Company Limited**
Address: 1206 Rosewarne Drive, PO Box 630  
Bracebridge, ON P1L 1T9  
Contact: Tel: (705) 645-2214 | 1 (800) 268-7687  
Fax: (705) 645-5025 | info@fowler.ca  
mballa@fowler.ca  
Website: www.fowler.ca  
Quarries: McDougall Township (near Parry Sound), Rama Township (near Orillia), MacAuley Township (near Bracebridge)

**Georgian Bay Marble and Stone Inc.**
Address: 3555 Bruce County Road 13, Wiarton, ON NOH 2T0  
Contact: Carl Anson Barfoot, Owner  
Tel: (519) 534-3992 | Fax: (519) 534-3586  
georgianbaymarble@bellnet.ca  
Website: www.gbmstone.com  
Quarries: Amabel Township (near Owen Sound)

**Harold Sutherland Construction**
Address: 323545 East Linton Sideroad West, RR 2  
Kemble, ON NOH 1SO  
Contact: Jennifer Sutherland  
Tel: (519) 376-5698 | Fax: (519) 371-6121  
amorrison@walkerind.com  
Website: www.hsc-ltd.com  
Quarries: Keppel Township, Lindsay Township, St. Vincent Township (near Owen Sound)

**Hilltop Stone and Supply Inc.**
Address: P.O. Box 241, Georgetown, ON L7G 4Y5  
Contact: J. Ferraro  
Tel: (416) 571-8775, (905) 877-8587  
Fax: (905) 877-0138 | info@hilltopstone.ca  
Website: www.hilltopstone.ca  
Quarries: 11679 17th Sideroad, Halton Hills, Equesing Township (near Brampton)  
Employees: 10

**Hope Bay Quarry Inc.**
Address: 1664 Bruce County Road 9, Wiarton, ON NOH 2T0  
Contact: Paul Bridge  
Tel: (226) 668-8268 | Cell: (519) 378-8766  
info@hopebayquarry.ca  
Website: www.hopebayquarry.ca  
Quarries: Albermarle Township (near Wiarton)

**J.C. Rock Ltd.**
Address: 4337 Burnside Line, Unit 1, Orillia, ON L3V 6H4  
Contact: Cynthia Lis  
Tel: 1 (877) 326-4006, (705) 326-4000  
Fax: (705) 329-2473 | sales@jcrock.ca  
Website: www.jcrock.ca  
Quarries: Norland (north of Lindsay), Crookston (north of Belleville)
<table>
<thead>
<tr>
<th>Company Name</th>
<th>Address</th>
<th>Contact Information</th>
<th>Website</th>
<th>Quaries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jeff Parnell Contracting Ltd.</td>
<td>1199 Connaught Drive, Ennismore, ON K0L 1T0</td>
<td>Tel: (705) 292-6587</td>
<td>(705) 292-6587</td>
<td><a href="mailto:sales@jeffparnellcontracting.com">sales@jeffparnellcontracting.com</a></td>
</tr>
<tr>
<td>John Bacher Construction limited</td>
<td>5054 Muskoka Road 117, P.O. Box 190</td>
<td>Tel: (705) 787-5038</td>
<td>(705) 766-0204</td>
<td><a href="mailto:kathleen@johnbacherconstruction.com">kathleen@johnbacherconstruction.com</a></td>
</tr>
<tr>
<td>Johnston Quarry</td>
<td>1148 Blare Hampton Road, Minden, ON K0M 2K0</td>
<td>Tel: (705) 489-2829</td>
<td>(705) 489-2829</td>
<td></td>
</tr>
<tr>
<td>Keystone Granite</td>
<td>2451 Highway 60, P.O. Box 5287</td>
<td>Tel: (705) 783-6370</td>
<td>(705) 788-2655</td>
<td></td>
</tr>
<tr>
<td>Limberlost Stone Inc.</td>
<td>1692 Highway 6, Town of South, ON NOH 2T0</td>
<td>Tel: (519) 793-3830</td>
<td>(519) 793-3994</td>
<td><a href="mailto:info@limberloststone.com">info@limberloststone.com</a></td>
</tr>
<tr>
<td>McFadyen's Stone Quarry</td>
<td>1020 Old Highway, RR 4, Huntsville, ON P1H 2J6</td>
<td>Tel: (705) 635-2983</td>
<td>(705) 635-9706</td>
<td><a href="mailto:mcfadyenstone@hotmail.com">mcfadyenstone@hotmail.com</a></td>
</tr>
<tr>
<td>Mill Lake Stone Quarry Limited</td>
<td>RR 3, Compartment 4, Parton Road</td>
<td>Tel: (705) 746-9882</td>
<td></td>
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<tr>
<td>Keiythstone and Specialty</td>
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</tbody>
</table>

Ontario Mining and Exploration Directory and Resource Guide 2020
## Dimension Stone and Specialty Aggregate Producers

### Redstone Quarries
- **Address:** 1128 County Road 49, P.O. Box 424, Bobcaygeon, ON K0M 1A0
- **Contact:** Ted Sturman | tsturman@trytel.net
- **Website:** www.redstonequarries.com
- **Quarries:** Harvey, Galway, Cavendish Townships (near Peterborough)

### Rice and McHarg Ltd.
- **Address:** 40 Cleavelholm Drive, Georgetown, ON L7G 3E1
- **Contact:** Joe Rice or Ivan Rice, Owners (905) 877-2129 | jrice15@cogeco.ca
- **Quarries:** 12224 5th Line, Limehouse, ON L0P 1H0 (Esquesing Township)

### Rideauview Contracts Ltd.
- **Address:** 2081 Washburn Road, RR 2, Inverary, ON K0H 1E1
- **Contact:** Jim Jackson, President (613) 546-7779 | Saw Shop: (613) 387-3851
- **Website:** www.rideauviewcontracts.com
- **Quarries:** Camden, Portland, Pittsburgh, Rear of Leeds and Lansdowne Townships (near Kingston)

### Rigbe Quarry
- **Address:** Head Office: 443 Railside Drive, Brampton, ON L7A 1E1
- **Contact:** (705) 333-3523
- **Email:** info@rigberock.com

### Rockleith Quarry Ltd.
- **Address:** 2181 Brennan Line, Orillia, ON L3V 6H3
- **Contact:** Graham Harper (705) 326-1407 | 1 (866) 288-2516
- **Website:** www.rockleith.com
- **Quarries:** Severn Township (near Orillia)

### Silicorp Developments Inc.
- **Address:** 144 Stephenson Road 8 East, Huntsville, ON POB 1MO
- **Contact:** Greg Marsh (647) 220-6852 | gregmarsh@rogers.com
- **Quarry:** Wyse Township (North Bay area)

### Speiran Quarries
- **Address:** 376 Millard Street, Orillia, ON L3V 4H4
- **Contact:** Diane Speiran, Owner and Manager (705) 329-4899
diane.speiran@sympatico.ca
- **Quarries:** Rama Township (near Orillia)

### Stonescape Quarry
- **Address:** 2189 County Road 36, P.O. Box 72, Buckhorn, ON K0L 1J0
- **Contact:** Rob Darling | rob@stonescapeinc.com (705) 657-7111 | (877) 657-7111
- **Website:** www.stonescapeinc.com
- **Quarries:** Harvey Township (near Peterborough)

### Taillefer Quarry
- **Address:** Sturgeon Falls, ON P2B 3K8
- **Contact:** Edgar Taillefer, Owner (705) 753-9077
- **Website:** www.tailleferquarries.com/home.html
- **Quarries:** Aylmer Township (near Capreol)

### Ted Boyes and Sons Construction Limited
- **Address:** P.O. Box 75, Burk’s Falls, ON P0A 1CO
- **Contact:** Tom Boyes, Manager | tomboyes10@gmail.com (705) 382-3626 | (705) 382-2920
- **Fax:** (705) 382-2199

### The Rock Centre
- **Address:** 140 Pinewood Park Drive, North Bay, ON P1B 8Z4
- **Contact:** Jamie Fuller | jamie@therockcentre.ca (705) 495-1744 | (705) 358-3060
- **Cell:** (705) 358-1100 | Fax: (705) 495-1745
- **Website:** www.therockcentre.ca
- **Quarries:** Five quarries, North Bay Area

### Upper Canada Stone Company Ltd.
- **Address:** 3094 Line 4 North, RR 1, Oro Medonte, ON L0L 2L0
- **Contact:** Richard Scratch, Vice-President (705) 835-7530 | 1 (800) 806-0000
- **Fax:** (705) 835-7535
- **Email:** charlie@uppercanadastone.com
- **Website:** www.uppercanadastone.com
- **Quarries:** Gibbons Township (near Sudbury), Mayo, Cashel, Madoc, Rear of Leeds and Lansdowne Townships (near Kingston)

### Muskoka Rock Company
- **Address:** 1165 Bethune Drive North, Gravenhurst, ON P1P 1R1
- **Contact:** Mike Ebel | mke@muskokarockcompany.com (705) 788-7666 | (705) 787-6241 (quarry)
- **Fax:** (705) 687-8700 (sales) | Fax: (705) 788-5121
- **Website:** muskokarockcompany.com
- **Quarries:** Franklin Township (near Huntsville)

### Wiarton Stone Quarry Inc.
- **Address:** 3577 Bruce Road 13, RR 3, Wiarton, ON NOH 2T0
- **Contact:** Mike Ebel | mike@wiartonstonequarry.com (519) 534-2226 | Fax: (519) 534-5120
- **Website:** www.wiartonstonequarry.com
- **Quarries:** Amabel Township (near Owen Sound)
Corporate Offices of Companies with Metal Mines in Ontario

Alamos Gold Inc.
181 Bay Street, Suite 3910, Toronto, ON M5J 2T3
Toll-Free: 1 (866) 788-8801 | Tel: (416) 368-9932
Fax: (416) 368-2934 | www.alamosgold.com
• Island Gold Mine • Young-Davidson Mine

Barrick Gold Corp.
Brookfield Place, TD Canada Trust Tower
161 Bay Street, Suite 3700, P.O. Box 212, Toronto, ON M5J 2S1
Toll-Free: 1 (800) 720-7415 | Tel: (416) 861-9911
Fax: (416) 861-2492 | www.barrick.com
• Williams Mine

Detour Gold Corp.
Commerce Court West
199 Bay Street, Suite 4100, P.O. Box 121, Toronto, ON M5L 1E2
Tel: (416) 304-0800 | Fax: (416) 304-0184
www.detourgold.com
• Detour Lake Gold Mine

Ferromin Inc.
158 Don Hillock Drive, Unit 13, Aurora, ON L4G 0H6
Toll-Free: 1 (800) 465-5066 | Tel: (416) 491-0230
Fax: (416) 494-1014 | www.ferromininc.com
• Tomclid Iron Mine

Glencore PLC
Glencore Canada Corp.
100 King Street West, Suite 6900, Toronto, ON M5X 1E3
Tel: (416) 775-1500 | Fax: (416) 775-1744 | www.glencore.ca
• Kidd Creek Mine

Kirkland Lake Gold Ltd.
Royal Bank Plaza, South Tower
200 Bay Street, Suite 3120, Toronto, ON M5J 2J1
Tel: (416) 840-7884 | www.klgold.com
• Holloway-Holt Mine • Macassa Mine • Taylor Mine

McEwen Mining Inc.
150 King Street West, Suite 2800, Toronto, ON M5H 1J9
Toll-Free: 1 (866) 441-0690 | Tel: (647) 258-0395
Fax: (647) 258-0408 | www.mcewenmining.com
• Black Fox Mine

New Gold Inc.
Brookfield Place
181 Bay Street, Suite 3320, Toronto, ON M5J 2T3
Tel: (416) 324-6000 | Fax: (416) 324-9494
www.newgold.com
• Rainy River Mine

Newmont Corp.
666 Burrard Street, Suite 3400, Vancouver, BC V6C 2X8
Tel: (604) 696-3000 | www.newmont.com
• Cochenour Mine • Muswellwhite Mine • Porcupine Gold Mines (Borden Mine, Hollinger Mine, and Hoyle Pond Mine) • Red Lake Mine

Pan American Silver Corp.
Tahoe Canada
625 Howe Street, Suite 1440, Vancouver, BC V6C 2T6
Tel: (604) 684-1175 | Fax: (604) 684-0147
www.panamericansilver.com
• Bell Creek Mine • Timmins West Mine

Vale S.A.
Vale Canada Limited
Royal Bank Plaza, South Tower
200 Bay Street, Suite 1500, Toronto, ON M5J 2K2
Tel: (416) 361-7511 | www.vale.com/ca
• Coleman Mine • Copper Cliff North Mine • Creighton Mine • Garson Mine • Totten Mine

Wesdome Gold Mines Ltd.
220 Bay Street, Suite 1200, Toronto, ON M5J 2W4
Tel: (416) 360-3743 | www.wesdome.com
• Eagle River Mine • Mishi Mine

KGHM Polska Miedz S.A.
KGHM International Ltd.
191 Creditview Road, Vaughan, ON L4L 9T1
Tel: (647) 265-9191 | Fax: (640) 689-8556 | www.kghm.com
• McCreedy West Mine
## Companies Actively Exploring in Ontario

<table>
<thead>
<tr>
<th>#</th>
<th>Company Name</th>
<th>Address</th>
<th>City, Province</th>
<th>Phone Number</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>21C Metals Inc. (formerly Declan Cobalt Inc)</td>
<td>1620 West 8th Avenue, Suite 302</td>
<td>Vancouver, BC</td>
<td>(604) 639-4472</td>
<td><a href="http://www.21cmetals.com">www.21cmetals.com</a></td>
</tr>
<tr>
<td>2</td>
<td>55 North Mining Inc. (formerly SGX Resources Inc.)</td>
<td>401 Bay Street, Suite 2702</td>
<td>Toronto, ON</td>
<td>(416) 567-9087</td>
<td><a href="http://www.55northmining.com">www.55northmining.com</a></td>
</tr>
<tr>
<td>3</td>
<td>Agnico Eagle Mines Ltd.</td>
<td>145 King Street East, Suite 400</td>
<td>Toronto, ON</td>
<td>(416) 947-1212</td>
<td><a href="http://www.agnicoeagle.com">www.agnicoeagle.com</a></td>
</tr>
<tr>
<td>4</td>
<td>Alamos Gold Inc.</td>
<td>181 Bay Street, Suite 3910</td>
<td>Toronto, ON</td>
<td>(416) 368-9932</td>
<td><a href="http://www.alamosgold.com">www.alamosgold.com</a></td>
</tr>
<tr>
<td>5</td>
<td>Alto Ventures Ltd.</td>
<td>800 West Pender Street, Suite 615</td>
<td>Vancouver, BC</td>
<td>(604) 689-2599</td>
<td><a href="http://www.altoventures.com">www.altoventures.com</a></td>
</tr>
<tr>
<td>6</td>
<td>Ambershaw Metallics Inc.</td>
<td>First Canadian Place, 100 King Street West, Suite 5600</td>
<td>Toronto, ON</td>
<td>(416) 846-0230</td>
<td>ambershaw.ca</td>
</tr>
<tr>
<td>7</td>
<td>Ardiden Ltd.</td>
<td>34 Colin Street, Level 1</td>
<td>West Perth, WA</td>
<td>61-8-9322-7600</td>
<td><a href="http://www.ardiden.com.au">www.ardiden.com.au</a></td>
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<td>8</td>
<td>Argosy Gold Inc.</td>
<td>350 Bay Street, Suite 700</td>
<td>Toronto, ON</td>
<td>(416) 786-7860</td>
<td><a href="http://www.argogold.com">www.argogold.com</a></td>
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<tr>
<td>9</td>
<td>Argonaut Gold Inc.</td>
<td>9600 Prototype Court</td>
<td>Reno, NV</td>
<td>(775) 284-4422</td>
<td><a href="http://www.argonautgold.com">www.argonautgold.com</a></td>
</tr>
<tr>
<td>10</td>
<td>Atacama Resources International Inc.</td>
<td>P.O. Box 811, 33 Father Costello Drive</td>
<td>Schumacher, ON</td>
<td>(519) 222-3890</td>
<td><a href="http://www.acrintl.com">www.acrintl.com</a></td>
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<tr>
<td>11</td>
<td>AurCrest Gold Inc.</td>
<td>22 Adelaide Street West, Suite 3600</td>
<td>Toronto, ON</td>
<td>(807) 737-5353</td>
<td>aurcrest.ca</td>
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<tr>
<td>12</td>
<td>Aurelius Minerals Inc.</td>
<td>110 Yonge Street</td>
<td>Toronto, ON</td>
<td>(416) 304-9095</td>
<td>aureliusminerals.com</td>
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<tr>
<td>13</td>
<td>Avalon Advanced Materials Inc.</td>
<td>130 Adelaide Street West, Suite 1901</td>
<td>Toronto, ON</td>
<td>(416) 364-4938</td>
<td>avalonadvancedmaterials.com</td>
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<td>14</td>
<td>Balmoral Resources Ltd.</td>
<td>700 West Pender Street, Suite 1750</td>
<td>Vancouver, BC</td>
<td>(604) 638-3664</td>
<td><a href="http://www.balmoralresources.com">www.balmoralresources.com</a></td>
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<td>15</td>
<td>Barrick Gold Corp.</td>
<td>161 Bay Street, Suite 3700</td>
<td>Toronto, ON</td>
<td>(416) 861-9911</td>
<td><a href="http://www.barrick.com">www.barrick.com</a></td>
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<tr>
<td>16</td>
<td>Battery Mineral Resources Ltd.</td>
<td>100 King Street West, Suite 5600</td>
<td>Toronto, ON</td>
<td>(416) 306-5790</td>
<td>batterymineralresources.com</td>
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<tr>
<td>17</td>
<td>Benton Resources Inc.</td>
<td>684 Squier Street</td>
<td>Thunder Bay, ON</td>
<td>(807) 475-7474</td>
<td><a href="http://www.bentonresources.ca">www.bentonresources.ca</a></td>
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<tr>
<td>18</td>
<td>Bold Ventures Inc.</td>
<td>22 Adelaide Street West, Suite 3600</td>
<td>Toronto, ON</td>
<td>(416) 864-1456</td>
<td><a href="http://www.boldventuresinc.com">www.boldventuresinc.com</a></td>
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<tr>
<td>19</td>
<td>Brixton Metals Corp.</td>
<td>409 Granville Street, Suite 551</td>
<td>Vancouver, BC</td>
<td>(604) 630-9707</td>
<td>brixtonmetals.com</td>
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<tr>
<td>20</td>
<td>BTU Metals Corp.</td>
<td>789 West Pender Street, Suite 1240</td>
<td>Vancouver, BC</td>
<td>(604) 683-3995</td>
<td>btumetals.com</td>
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<tr>
<td>21</td>
<td>Cadillac Ventures Inc.</td>
<td>1099 Kingston Road, Suite 269</td>
<td>Pickering, ON</td>
<td>(416) 203-7722</td>
<td><a href="http://www.cadillacventures.com">www.cadillacventures.com</a></td>
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<tr>
<td>22</td>
<td>Canada Cobalt Works Inc.</td>
<td>3028 Quadra Court</td>
<td>Coquitlam, BC</td>
<td>(604) 828-1475</td>
<td><a href="http://www.canadacobaltworks.com">www.canadacobaltworks.com</a></td>
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<tr>
<td>23</td>
<td>Canadian Gold Miner Corp.</td>
<td>141 Adelaide Street West, Suite 301</td>
<td>Toronto, ON</td>
<td>(416) 644-1747</td>
<td><a href="http://www.canadiangoldminer.com">www.canadiangoldminer.com</a></td>
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<tr>
<td>24</td>
<td>Canadian Orebodies Inc.</td>
<td>100 King Street West, Suite 5600</td>
<td>Toronto, ON</td>
<td>(416) 846-0230</td>
<td>ambershaw.ca</td>
</tr>
<tr>
<td>25</td>
<td>Central Timmins Exploration Corp.</td>
<td>4950 Yonge Street, Suite 1008</td>
<td>North York, ON</td>
<td>(416) 203-3776</td>
<td><a href="http://www.centraltimmins.com">www.centraltimmins.com</a></td>
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<tr>
<td>26</td>
<td>Champion Bear Resources Ltd.</td>
<td>200-9th Street Southwest</td>
<td>Calgary, AB</td>
<td>(403) 229-9522</td>
<td><a href="http://www.championbear.com">www.championbear.com</a></td>
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<tr>
<td>27</td>
<td>Commander Resources Ltd.</td>
<td>1111 Melville Street, 11th Floor</td>
<td>Vancouver, BC</td>
<td>(604) 685-5254</td>
<td><a href="http://www.commanderresources.com">www.commanderresources.com</a></td>
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<tr>
<td>28</td>
<td>Comstock Metals Ltd.</td>
<td>850 West Hastings Street, Suite 310</td>
<td>Vancouver, BC</td>
<td>(604) 639-4533</td>
<td><a href="http://www.comstock-metals.com">www.comstock-metals.com</a></td>
</tr>
<tr>
<td>29</td>
<td>Conquest Resources Ltd.</td>
<td>55 University Avenue, Suite 1805</td>
<td>Toronto, ON</td>
<td>(416) 728 4126</td>
<td><a href="http://www.conquestresources.com">www.conquestresources.com</a></td>
</tr>
</tbody>
</table>
Companies Actively Exploring in Ontario

Copper Lake Resources Ltd.
501 Alliance Avenue, Suite 401
Toronto, ON M6N 2J1
(416) 561-3626
copperlakeresources.com

Cruz Cobalt Corp.
701 West Georgia Street, Suite 1470
Vancouver, BC V7Y 1C6
(604) 899-9150
www.cruzcobaltcorp.com

Crystal Lake Mining Corp.
13236 Cliffstone Court
Lake Country, BC V4V 2R1
(604) 261-4466
crystallakeminingcorp.com

De Beers Canada Inc.
1601 Airport Road Northeast, Suite 300
Calgary, AB T2E 6Z8
(403) 930-0991
www.canada.debeersgroup.com

Delta Resources Ltd.
1718 Christine Crescent
Kingston, ON K7L 4V4
(613) 328-1581 | www.deltaresources.ca

Detour Gold Corp.
199 Bay Street, Suite 4100, P.O. Box 121
Toronto, ON M5L 1E2
(416) 304-0800 | www.detourgold.com

Dynasty Gold Corp.
610 Granville Street, Unit 1613
Vancouver, BC V6C 3T3
(604) 633-2100
www.dynastygoldcorp.com

Edison Cobalt Corp.
789 West Pender Street, Suite 1080
Vancouver, BC V6C 1H2
(416) 276-6689 | edisoncobalt.com

Empire Metals Corp.
889 West Pender Street, Suite 702
Vancouver, BC V6C 3B2
(604) 683-3288
www.empiremetalscorp.com

Falcon Gold Corp.
470 Granville Street, Suite 520
Vancouver, BC V6C 1V5
(604) 683-1991 | www.falcongold.ca

Fancamp Exploration Ltd.
7290 Gray Avenue
Burnaby, BC V5J 3Z2
(604) 434-8829
www.fancampexplorationltd.ca

First Cobalt Corp.
140 Yonge Street, Suite 201
Toronto, ON M5C 1X6
(416) 900-3891 | www.firstcobalt.com

First Energy Metals Ltd.
588 Broughton Street, Suite 1206
Vancouver, BC V6G 3E3
(604) 375-6005
www.firstenergymetals.com

First Mining Gold Corp.
1188 West Georgia Street, Suite 2070
Vancouver, BC V6E 4A2
(844) 306-8827 | firstmininggold.com

Frontier Lithium Inc.
2736 Belisle Drive
Val Caron, ON P3N 1B3
(705) 897-7622
www.frontierlithium.com

Frontline Gold Corp.
1 Toronto Street, Suite 201, P.O. Box 10
Toronto, ON M5C 2V6
(416) 362-9100
www.frontlinegold.com

G2 Goldfields Inc.
141 Adelaide Street West, Suite 1101
Toronto, ON M5H 3L5
(416) 628 5904 | www.g2goldfields.com

Galiano Gold Corp.
TD Canada Trust Tower,
161 Bay Street, Suite 2700
Toronto, ON M5J 2S1
(416) 644-0066
www.galianogold.com

Gatling Exploration Inc.
200 Burrard Street, Suite 1680
Vancouver, BC V6C 3L6
(604) 678-5308
www.gatlingexploration.com

Generation Mining Ltd.
P.O. Box 70,
100 King Street West, Suite 7010
Toronto, ON M5X 1B1
(416) 640-0280 | genmining.com

Golden Goliath Resources Ltd.
688 West Hastings Street, Suite 910
Vancouver, BC V6B 1P1
(604) 682-2950
www.goldengoliath.com

Golden Share Mining Resources Corp.
145 Riviera Drive, Unit 7
Markham, ON L3R 5J6
(905) 968-1199 | www.goldenshare.ca

GoldON Resources Ltd.
108-800 Kelly Road, Suite 416
Victoria, BC V9B 6J9
(250) 474-7999
www.goldonresources.com

Gowest Gold Ltd.
80 Richmond Street West, Suite 1400
Toronto, ON M5H 2A4
(416) 363-1210 | www.gowestgold.com

Great Bear Resources Ltd.
1020-800 West Pender Street
Vancouver, BC V6C 2V6
(604) 646-8354
greatbearresources.ca

Greenstone Gold Mines GP Inc.
2381 Bristol Circle, Suite B203
Oakville, ON L6H 5S9
(905) 829-3134
www.greenstonegoldmines.com

Global Energy Metals Corp.
128 West Pender Street, Suite 1501
Vancouver, BC V6B 1R8
(604) 688-4219
www.globalenergymetals.com

Glencore Canada Corp.
100 King Street West, Suite 6900
Toronto, ON M5X 1E3
(416) 775-1500 | www.glencore.ca

Glencore Canada Corp.
100 King Street West, Suite 6900
Toronto, ON M5X 1E3
(416) 775-1500 | www.glencore.ca

Globex Mining Enterprises Inc.
89 Belzile Drive
Toronto, ON M4S 1L3
(819) 797-5242
www.globexmining.com

GFG Resources Inc.
640 Broadway Avenue, Suite 202
Saskatoon, SK S7N 1A9
(306) 931-0930
www.gfgresources.com

Great Bear Resources Ltd.
1020-800 West Pender Street
Vancouver, BC V6C 2V6
(604) 646-8354
greatbearresources.ca

Greenstone Gold Mines GP Inc.
2381 Bristol Circle, Suite B203
Oakville, ON L6H 5S9
(905) 829-3134
www.greenstonegoldmines.com

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Companies Actively Exploring in Ontario

Grid Metals Corp.
3335 Yonge Street, Suite 304
Toronto, ON M4N 2M1
(416) 955-4773
www.gridmetalscorp.com

Group Ten Metals Inc.
409 Granville Street, Suite 904
Vancouver, BC V6C 1T2
(604) 357-4790 | groupentenmetals.com

GTA Resources and Mining Inc.
855 Brant Street
Burlington, ON L7R 2J6
(905) 681-1925
www.gtaresources.com

Harte Gold Corp.
161 Bay Street, Suite 2400
Toronto, ON M5J 2S1
(416) 368-0999 | www.hartegold.com

Highgold Mining Inc.
800 West Pender Street, Suite 320
Vancouver, BC V6C 2V6
(604) 629-1165
www.highgoldmining.com

Honey Badger Exploration Inc.
145 Wellington Street West, Suite 1001
Toronto, ON M5J 1H8
(416) 364-7029 | honeybadgerexp.com

IAMGOLD Corp.
401 Bay Street, Suite 3200
Toronto, ON M5H 2Y4
(416) 360-4710 | www.iamgold.com

IM Exploration Inc.
181 Bay Street, Suite 4400
Toronto, ON M5J 2T3
(647) 880-6414

iMetal Resources Inc.
580 Hornby Street, Suite 510
Vancouver, BC V6C 3B6
(604) 739-9713 | imetalresources.ca

Impala Canada Ltd.
1 University Avenue, Suite 1601
Toronto, ON M5J 2P1
(416) 360-7590 | impalacanada.com

Infinite Lithium Corp.
789 W Pender Street, Suite 1240
Vancouver, BC V6C 1H2
(604) 683-3995
www.infinitelithium.com

International Lithium Corp.
1030 West Georgia Street, Suite 1910
Vancouver, BC V6E 2Y3
(604) 449-6520
internationallithium.com

International Montoro Resources Inc.
625 Howe Street, Suite 600
Vancouver, BC V6C 2T6
(604) 683-6648
www.montororesources.com

International Prospect Ventures Ltd.
2864 chemin Sullivan
Val d’Or, QC J9P 0B9
(819) 824-2808
www.iprospectventures.ca

Inventus Mining Corp.
82 Richmond Street East, Suite 1
Toronto, ON M5C 1P1
(416) 258-0395 ext. 280
www.inventusmining.com

Kesselrun Resources Ltd.
278 Bay Street, Suite 102
Thunder Bay, ON P7B 5N2
(866) 416-7941
www.kesselrunresources.com

KGH International Ltd.
191 Creditview Road, Suite 400
Vaughan, ON L4L 9T1
(647) 265-9191 | www.kghminerals.com

Kirkland Lake Gold Ltd.
200 Bay Street, Suite 3120
Toronto, ON M5C 2J1
(416) 840-7884 | www.klgold.com

KWG Resources Inc.
141 Adelaide Street West, Suite 420
Toronto, ON M5H 3L5
(416) 646-1374 | www.kwgresources.com

Landore Resources Ltd.
555 Central Avenue, Suite 1
Thunder Bay, ON P7B 5R5
(807) 623-3770 | www.landore.com

Laurion Mineral Exploration Inc.
40 King Street West, Suite 5800
Toronto, ON M5H 3S1
(705) 788-9186 | www.laurion.ca

LiCo Energy Metals Inc.
789 West Pender Street, Suite 1220
Vancouver, BC V6C 1H2
(236) 521-0207 | licoenergymetals.com

Magna Mining Corp.
P.O. Box 130, 45 Oak Street
Dowling, ON P0M 1R0
(705) 665-0262 | magnamining.com

Manitou Gold Inc.
82 Richmond St East
Toronto, ON M5C 1P1
(705) 698-1962 | manitougold.com

Marquee Resources Ltd.
22 Townshend Road
Subiaco WA 6005 Australia
61 08 6380-2471

Maxtech Ventures Inc.
595 Howe Street, Suite 702
Vancouver, BC V6C 2TS
(604) 484-8989
www.maxtech-ventures.com

McEwen Mining Inc.
150 King Street West, Suite 2800
Toronto, ON M5H 1J9
(416) 258-0395
www.mcewenmining.com

McLaren Resources Inc.
44 Victoria Street, Suite 1616
Toronto, ON M5C 1Y2
(905) 903-6423
www.mclarensresources.com

Melkior Resources Inc.
66 Brousseau Avenue, Suite 207
Timmins, ON P4N 5Y2
(705) 267-4000 | www.melkior.com
<table>
<thead>
<tr>
<th>Company Name</th>
<th>Address</th>
<th>Phone</th>
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<tr>
<td>MetalCORP Ltd.</td>
<td>490 Maureen Street, Thunder Bay, ON P7B 6T2</td>
<td>(807) 683-8161</td>
<td><a href="http://www.metalcorp.ca">www.metalcorp.ca</a></td>
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<tr>
<td>Metalex Ventures Ltd.</td>
<td>1634 Harvey Avenue, Suite 203, Kelowna, BC V1Y 6G2</td>
<td>(250) 860-8599</td>
<td>metalexventures.com</td>
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<tr>
<td>Metals Creek Resources Corp.</td>
<td>945 Cobalt Crescent, Thunder Bay, ON P7B 5Z4</td>
<td>(807) 345-4990</td>
<td><a href="http://www.metalscreek.com">www.metalscreek.com</a></td>
</tr>
<tr>
<td>Meteoric Resources NL</td>
<td>P.O. Box Z5187, 33 Ord Street, Level 1, West Perth, WA 6005 Australia</td>
<td>61 08 9226-2011</td>
<td><a href="http://www.meteoric.com.au">www.meteoric.com.au</a></td>
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<tr>
<td>Mistango River Resources Inc.</td>
<td>55 University Avenue, Suite 1805, Toronto, ON M5J 2H7</td>
<td>(416) 644-1567</td>
<td><a href="http://www.mistango.com">www.mistango.com</a></td>
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<td>Moneta Porcupine Mines Inc.</td>
<td>65 Third Avenue, Timmins, ON P4N 1C2</td>
<td>(416) 579-3040</td>
<td><a href="http://www.monetaporcupine.com">www.monetaporcupine.com</a></td>
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<td>New Age Metals Inc.</td>
<td>2148 West 38th Avenue, Suite 101, Vancouver, BC V6C 2T6</td>
<td>(604) 685-1870</td>
<td>newagemetals.com</td>
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<tr>
<td>New Dimension Resources Ltd.</td>
<td>625 Howe Street, Suite 1020, Vancouver, BC V6C 2T6</td>
<td>(604) 314-2662</td>
<td><a href="http://www.newdimensionresources.com">www.newdimensionresources.com</a></td>
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<tr>
<td>New Gold Inc.</td>
<td>181 Bay Street, Suite 3320, Toronto, ON M5J 2T3</td>
<td>(416) 324-6000</td>
<td><a href="http://www.newgold.com">www.newgold.com</a></td>
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<tr>
<td>Newmont Corp.</td>
<td>666 Burrard Street, Suite 3400, Vancouver, BC V6C 2X8</td>
<td>(604) 696-3000</td>
<td><a href="http://www.newmont.com">www.newmont.com</a></td>
</tr>
<tr>
<td>Niobay Metals Inc.</td>
<td>1111 St. Charles West, Suite 101, Longueuil, QC J4K 5G4</td>
<td>(514) 866-6500</td>
<td>niobaymetals.com</td>
</tr>
<tr>
<td>Noble Mineral Explorations Inc.</td>
<td>120 Adelaide Street West, Suite 2500, Toronto, ON M5H 1T1</td>
<td>(416) 214-2250</td>
<td><a href="http://www.noblemineralexploration.com">www.noblemineralexploration.com</a></td>
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<tr>
<td>Noront Resources Ltd.</td>
<td>212 King Street West, Suite 501, Toronto, ON M5H 1K5</td>
<td>(416) 367-1444</td>
<td>norontresources.com</td>
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<tr>
<td>Northern Fox Resources Inc.</td>
<td>2857 Sherwood Heights Drive, Suite 1, Oakville, ON L6J 7J9</td>
<td>(416) 878-1460</td>
<td><a href="http://www.northernfoxresources.com">www.northernfoxresources.com</a></td>
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<tr>
<td>Northern Graphite Corp.</td>
<td>290 Picton Avenue, Suite 201, Ottawa, ON K1Z 8P8</td>
<td>(613) 241-9959</td>
<td>northerngraphite.com</td>
</tr>
<tr>
<td>Northern Sphere Mining Corp.</td>
<td>121 King Street West, Suite 2150, Toronto, ON M5H 3T9</td>
<td>(647) 299-1153</td>
<td></td>
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<tr>
<td>Northern Superior Resources Inc.</td>
<td>1351C Kelly Lake Road, Unit 7, Sudbury, ON P3E 5P5</td>
<td>(705) 525-0992</td>
<td><a href="http://www.nsuperior.com">www.nsuperior.com</a></td>
</tr>
<tr>
<td>Northstar Gold Corp.</td>
<td>17 Wellington Street North, New Liskard, ON P0J 1P0</td>
<td>(604) 617-8191</td>
<td><a href="http://www.northstargoldmining.com">www.northstargoldmining.com</a></td>
</tr>
<tr>
<td>Nuinsco Resources Ltd.</td>
<td>80 Richmond Street West, 18th Floor, Toronto, ON M5H 2A4</td>
<td>(416) 626-0470</td>
<td><a href="http://www.nuinsco.ca">www.nuinsco.ca</a></td>
</tr>
<tr>
<td>O3 Mining Inc. (Subsidiary of Osisko Mining Inc.)</td>
<td>155 University Avenue, Suite 1440, Toronto, ON M5H 3B7</td>
<td>(416) 363-8653</td>
<td>o3mining.ca</td>
</tr>
<tr>
<td>Odin Metals Ltd.</td>
<td>35 Richmond Street, West Perth, WA 6005 Australia</td>
<td>61-8-6117-0447</td>
<td>odinmetals.com.au</td>
</tr>
<tr>
<td>Orefinders Resources Inc.</td>
<td>55 University Avenue, Suite 1805, Toronto, ON M5J 2H7</td>
<td>(416) 644-1567</td>
<td><a href="http://www.orefinders.ca">www.orefinders.ca</a></td>
</tr>
<tr>
<td>Pacton Gold Inc.</td>
<td>200 Burrard Street, Suite 1680, Vancouver, BC V6C 3L6</td>
<td>(855) 584-0258</td>
<td><a href="http://www.pactongold.com">www.pactongold.com</a></td>
</tr>
<tr>
<td>Palladium One Mining Inc.</td>
<td>800 West Pender Street, Suite 550, Vancouver, BC V6C 2V6</td>
<td>(778) 327-5799</td>
<td><a href="http://www.palladiumoneinc.com">www.palladiumoneinc.com</a></td>
</tr>
<tr>
<td>Pan American Silver Corp.</td>
<td>625 Howe Street, Suite 1440, Vancouver, BC V6C 2T6</td>
<td>(604) 684-1175</td>
<td><a href="http://www.panamericansilver.com">www.panamericansilver.com</a></td>
</tr>
<tr>
<td>Pancontinental Resources Corp.</td>
<td>217 Queen Street West, Suite 401, Toronto, ON M5V 0R2</td>
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<td>61-8-6266-8600</td>
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**Warrior Gold Inc.**
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(647) 344-3433 | warriorgoldinc.com

**Wesdome Gold Mines Ltd.**
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(416) 360-3743 | www.wesdome.com

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(416) 203-9181
www.westredlakegold.com

**Z**

**ZEN Graphene Solutions Ltd.**
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Thunder Bay, ON P7B 6M5
(844) 730-9822
www.zengraphene.com

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**Advanced Mineral Projects in Ontario 2020**

![Map of Ontario showing mineral projects](image-url)
Exploring under conductive clay cover:

Galvanic HeliSAM case studies from Australia and Canada using the magnetometric conductivity technique

By Ryan Olson¹, Brent Robertson², derived from works by Malcolm Cattach³
¹ Gap-Discovery HeliSAM, ² Discovery Int’l Geophysics, ³ Gap Geophysics Australia

Exploration in the Abitibi clay belt, or other regions where conductive regolith is dominant (e.g. saline aluvial cover, sediment cover in desert valleys under range front pediments, etc.) can greatly limit the effectiveness of traditional electromagnetic (EM) or electrical (IP/Res) geophysical exploration. It is essential when planning an explorative geophysical survey to take into account the potential masking effects that conductive cover can create. Galvanic SAM minimizes inductive response from conductive cover by utilizing long galvanic dipoles to drive current deep into the underlying bedrock geology, thereby creating linear electrical current flow along structures below the conductive cover.

The Galvanic SAM method measures the magnetic field induced by a time-varying electrical current applied to the Earth. The applied current is created with a high-power transmitter system producing a low-frequency square-wave signal that is introduced into the ground through distant electrodes placed along strike of the structure or lithology under investigation. The transmitter current is preferentially channelled along geological features that are relatively less resistive than their surroundings. The electromagnetic signal from current distribution within the ground is measured simultaneously with the Earth’s spatially varying magnetic field using a Cs Vapour total-field magnetometer that samples at a very high sample rate.

SAM MMC Case Study – Polar Bear, WA

Case study from Western Australia. Magnetometric conductivity over salt lake. Showing conductors masked from traditional inductive EM. COURTESY OF GAP GEOPHYSICS.
to effectively measure the full spectrum of the artificial waveform. The signals from Earth’s static magnetic field, combined with the electromagnetic field due to the applied current (including that from the transmitting wire) are spectrally distinct. They may be separated with the aid of digital signal processing techniques and processed to remove these effects and to sample parts of the waveform to produce total-field magnetometric conductivity (TFMMC), total-field electromagnetics (TFEM) and total magnetic intensity (TMI).

Galvanic SAM can be employed in either airborne mode, which is suited to rugged or heavily forested terrain, or ground walking mode, which is suited to open, easily traversed terrain. Either mode can rapidly map electrical current flow in the range of 20 to 200 line/kilometres per day acquiring high-resolution data to a depth of 200 to 300 meters below conductive regolith. Measured conductivity contrast can be associated with conductive minerals, differential weathering within shear zones, different lithologies, lithological contacts, alteration zones, and related structures. In general, TFMMC highs can be interpreted as sites of increased current flow in zones of higher conductivity, whereas TFMMC lows highlight more resistive areas. Offsets observed in TFMMC trends can be interpreted to result from cross-cutting faults and structures. Swelling along linear features can be interpreted to be areas of alteration (possible sweet spots) along strike. High-resolution total magnetic intensity (TMI) is also a standard deliverable product.

Frequently structures controlling mineralization require close-spaced drilling along and across strike to properly evaluate for potential economic mineralization. The SAM technique can be used to more accurately define narrow zones of conductivity contrast and areas more likely to control mineralization and identify the extent of known mineralization.

Key advantages:
- Rapid acquisition 100 to 200 line/kilometres per day airborne, 10 to 30 line/kilometres per day walking mode;
HELISAM CAN SIGNIFICANTLY ADVANCE A PROJECTS POTENTIAL BY PRECISELY REFINING PROSPECTIVE CONDUCTIVITY TARGETS TO A DEPTH OF 200 TO 300 METERS IN A MATTER OF DAYS.

- Very high-resolution, identification of subtle anomalous features;
- Multi-parameter data sets. TFM-MC/TFEM/TMI offers multiple complementary views of the geology below conductive cover;
- Relatively inexpensive – high value for money spent.

A case study (see figure 1) compiled by Gap Geophysics from the Yilgarn Craton in Western Australia highlights an exploration program over a salt lake. Due to the uniformity of the terrain, the SAM sensor was mounted to a sled and towed by ATV for a total of approximately 600 line-kilometers, across approximately 20 dipoles. The magnetometric conductivity was able to highlight structures below the salt flat to help define potential gold and nickel targets.

A Galvanic HeliSAM test survey was flown over the Patterson Lake Corridor in Northern Saskatchewan through a joint venture between Discovery International Geophysics and Gap Geophysics in an effort to open up accessibility to the HeliSAM system for the Canadian industry. Although not explicitly plagued by conductive cover other than the typical conductive lake bottom, the survey serves as a proof of concept of the galvanic HelisAM method, and the improvement in resolution compared to a standard helicopter TEM survey because of the EM smearing effects of the conductive lake-bottom sediments. The magnetometric conductivity and total field EM data sets were jointly inverted to create a high-resolution conductivity model of the basement unconformity as illustrated in Figure 2.

For projects in the Abitibi clay belt, or other regions where geophysical exploration is hindered by conductive cover, a Galvanic HeliSAM survey should be considered to provide low-cost, high-resolution, multi-parameter data sets. HeliSAM can significantly advance a projects potential by precisely refining prospective conductivity targets to a depth of 200 to 300 meters in a matter of days, as opposed to weeks or months common to ground electrical/electromagnetic surveys.

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