

# EXPLORATION NEWSLETTER

March 2020



## EXPLORATION NEWS

**Barsele Minerals Corp** reported on January 10 an operational update of the Barsele Gold-VMS Project. The exploration program is being operated by joint venture partner **Agnico Eagle Mines Limited**. Diamond drilling for the 2019 year totaled 12,310 m in 56 completed core holes. Since late 2015, a total of 147,452 m of overburden penetration and core collection has been tabulated from a total of 367 drill holes. The pursuit of volcanogenic massive sulphide mineralization was the principal focus in 2019. Additionally, there was some minor drill testing along the extensive Avan-Central-Skiråsen gold system. The gold intercept in one hole extends the mineralization roughly 600 m to the northwest for a known strike length approaching 3.6 km.

On September 10, **Dragon Mining Limited** advised that the processing of the initial batch of ore from the Company's Fäboliden Gold Mine has commenced at the Svartliden Plant. This initial batch comprises only marginal ore and will be used during the start-up phase to optimize the carbon-in-leach circuit at the Svartliden Plant for the Fäboliden ore type. It is expected that the Company will process all ore mined from the Fäboliden test-mining operations at the Svartliden Plant.

**Gungnir Resources Inc** announced on October 2 a new gold discovery at Knaften. Assay results include 59.6 g/t Au over 1.0 m. Results have been received for two holes. The high-grade gold occurs within a 4.25 m wide Lower Zone. On November 5, **Gungnir** reported results of the 2019 drill program at its Knaften project. Results from three more holes continue to demonstrate continuity of two gold zones and further discovery potential. New assays include an upper zone intercept of 5.39 g/t Au over 2 m (includes 9.21 g/t Au over 1 m) and 4.94 g/t Au over 0.90 m.

**Mandalay Resources Corporation** announced on January 14 that extensional drilling at the Aurora zone at the Björkdal gold mine continues to enlarge the structurally controlled, high-grade mineralization, which trends at depth towards the east. Drilling of high-grade targets, including skarn mineralization near underground infrastructure, have improved mine planning to deliver sustainable high head grades from the mine; and target testing holes have confirmed the continuation of mineralization in new veins up to 500 m northward from the presently defined Aurora zone.

**Talga Resources Ltd** announced on October 15 a maiden JORC Mineral Resource Estimate ("MRE") for its Niska graphite deposits which form part of the wider Vittangi Graphite Project. The Niska deposits (North and South) are located 1-2 km northeast along strike of the current Nunasvaara graphite deposit. The Niska MRE includes a maiden JORC (2012) Indicated resource of 4.6Mt @ 25.8% Cg using a 10% lower cut-off.

**ScandiVanadium Limited** announced on December 18 a maiden JORC Mineral Resource of 116.9Mt @ 0.39% V<sub>2</sub>O<sub>5</sub> at the Hörby Target in the Skåne Vanadium Project. Indicated Mineral Resource of 61.8Mt @ 0.39% V<sub>2</sub>O<sub>5</sub>. The ore body begins near surface and dips at ~5° to the east where 75% of the Indicated Mineral Resource occurs within 100 m of surface. The results show strong continuity of grade and thickness within two seams.

**Nordic Iron Ore AB** announced on October 2 that the Blötberget Feasibility Study (undertaken by **Golder Associates**) has been completed. The study shows that the conditions are in place for a profitable mining operation.

**Aura Energy Limited** announced on October 10, a finalized resource upgrade for Häggån following a program of drilling and resource modelling. This has resulted in a new Global Resource of 2 Billion t at an average grade of 0.3% V<sub>2</sub>O<sub>5</sub>, containing 13.3 billion lbs V<sub>2</sub>O<sub>5</sub>, at a 0.2% V<sub>2</sub>O<sub>5</sub> cutoff, which includes 320 million lbs V<sub>2</sub>O<sub>5</sub> at 0.35% V<sub>2</sub>O<sub>5</sub> as Indicated Resource. The infill drilling and modelling work has confirmed 42 Mt at 0.35% V<sub>2</sub>O<sub>5</sub> at 0.2% V<sub>2</sub>O<sub>5</sub> cut-off as Indicated Resource in a coherent near-surface zone.

**Copperstone Resources AB** announced on November 1 reception of all assays for the phase 1 Viscaria A zone drilling. A total of four shallow holes were drilled. One hole intersected 20 m @ 1.27% Cu from 26 m, including 5 m @ 2.99% Cu and 0.25 g/t of gold from 39 m down-hole depth. A second hole intersected the main zone and the footwall lode copper, respectively, on three locations, 18 m @ 1.22% Cu including 3 m @ 3.28% Cu from 60 m and another 5 m @ 0.48% Cu from 112 m. The third one, 2 m @ 0.63% Cu from 122 m.

**Sienna Resources Inc** announced on November 20 results from a two-hole drill program in October at its Slättberg project. One hole intersected a PGE rich vein 0.55 m wide (from 88.0 m to 88.55 m), averaging 0.22% Ni, 1.79% Cu, and 4.15 ppm PGE (4.05 g/t Pt vs 0.095 g/t Pd). A second drill hole was drilled to test the western anomaly. Several zones of sulfide mineralization were intercepted in the hole over a 28 m interval from depths of 167 to 195 m. The best intercept from within the zone of sulfide mineralization was 5.0 m (from 167.75 m to 172.75 m) averaging 0.57% Ni, 0.47% Cu, 0.06% Co, and 0.48 ppm PGE (True thickness estimated to be 55-65% of reported interval).

**Alicanto Minerals Ltd** announced on November 19, results from its maiden exploration program in the Oxberg and Naverberg VMS Project. The first two drill holes intersected shallow massive sulphides at the Lustebo Prospect, Oxberg. The first drill hole intersected 2.5 m @ 4.2g/t gold, 43g/t silver, 2.2% copper and 1.7% zinc from 151.5 m. Includes massive sulphide zone of 0.8 m @ 13.1g/t gold, 126g/t silver, 6.43% copper, 1.9% lead and

4.7% zinc from 152.63 m. A second drill hole intersected 2.72 m @ 0.3g/t gold, 43g/t silver, 1.1% copper, 0.4% lead and 1.1% zinc from 152.68 m including a massive sulphide zone of 0.2 m @ 0.5g/t gold, 285g/t silver, 9.5% copper, 2.6% lead & 6.5% zinc from 152.68 m.

**Vilhelmina Mineral AB** announced on October 17 the submission of an extensive supplement to the ongoing application for exploitation concession in Stekenjokk and Levi. The documentation was sent to the **Mining Inspectorate**. The **Mining Inspectorate** had requested that the Company answered several questions regarding the potential impact on reindeer herding and the nearby Natura 2000 area. In the supplement to the concession application, the Company argues that the proposed seasonal mining during winter means that co-existence between reindeer herding and mining operations in the area is possible. Therefore, both activities of national interest can be secured.

**Ragnar Metals Limited** announced on January 2 that **GeoVista AB**, have completed an Induced Polarization & Resistivity/ Chargeability Survey over **Ragnar's** nickel projects at Tullsta and Gaddebo. The survey successfully highlighted the mineralization at Tullsta, which is characterized by a steeply dipping zone forming an anomaly of up to 150 m wide. Within this zone there are multiple lenses and the two combined models form a continuous body that extends from surface to below the boreholes and open to the north and west. Magnetic and gravity modelling also indicates a western to north-western plunging body which is supported by the results of this recent geophysical survey.

## MINING NEWS

In a Q4 report **Boliden** announced that Aitik's milled volume reached a high level. Mining took place in areas with lower grades as a result of changed mining plans. Copper grades reached 0.22% (0.27). Gold production decreased due to a fall in gold grades to 0.10 (0.15) g/t. The Boliden Area's milled volume decreased somewhat compared to the third quarter but were higher than the fourth quarter 2018. During the quarter, Renström obtained an environmental permit to increase annual mill production by around 50 thousand tonnes. The production of metal in concentrate increased for most metals. However, gold production decreased due to lower grades. Garpenberg's milled volume was in line with the previous quarter's record high level. However, the zinc grade was lower, which lead to lower zinc production. The higher silver

production is explained by higher grades. In 2020, the average zinc grade is predicted to total 3.7% and the silver grade to 100 g/t.

**Lovisagruvan AB** announced in a Q4 report that production amounted to 38,548 t (41,730), and the stock increased by 2,150 t to 4,150 t. Experiments with mechanical screening of the ore began at the end of the year. It is clear that a significant improvement in results can be achieved through screening.

**Lundin Mining Corporation** announced on January 22 production results for the three and twelve months ended December 31. Zinkgruvan zinc, lead and copper production increased in 2019. Increased zinc and lead production were primarily a result of sustained improvements in recovery and ore head grades.

**LKAB** announced in a year end report that for the full-year 2019, 14.7 (15.0) Mt of finished products were produced by the Northern Division at the Kiruna mine. The lower production volumes are mainly due to production disruption at the pelletizing plants in the final quarter. The production by the Southern Division at Malmberget mine and Svappavaara mines was higher than last year at 12.6 Mt (11.9).

## SUSTAINABILITY

On December 19, **LKAB** announced that the prestudy for **LKAB's** project, of which the aim is to industrialize a process whereby critical raw materials such as phosphorus and rare earth metals are recovered from mine waste, will continue with an assessment and comparison of several possible production technologies and partners. After conclusion of the prestudy the project will move into a pre-project planning phase that will provide a basis for an investment decision. Flotation and production of apatite concentrate will take place in facilities that are directly adjacent to existing iron ore production in Malmberget and Kiruna. The concentrate will then be shipped by rail to a plant at an as-yet-to-be-decided location near the coast, where further processing will take place. Here, the apatite will be dissolved, and phosphorus, rare earth elements and gypsum will be separated to create pure, high-quality products.

# SGU

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