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Mining at Depth and Transition to Electric Vehicles

By Peter Xavier, Vice President Sudbury Integrated Nickel Operations, A Glencore Company

29 September 2022

SUDBURY INTEGRATED NICKEL OPERATIONS























Sudbury Integrated Nickel Operations, a Glencore Company (Sudbury INO)





Our materials are sent to our port facilities in Quebec City, and to final destination at Glencore's Nikkelverk refinery in Norway. 29 September 2022

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Sustainability Health & Safety, Environment and Community

- Highly engaged, Zero Harm culture five times recipient of prestigious John T. Ryan Provincial Safety Award since 2013
- 1200 employees, 1,200 contractors
- ISO 14001 certified sites including Port of Quebec
- Indigenous Partnership Participation Agreement/MoU signed with Wahnapitae, Atikameksheng Anishnawbek, Sagamok Anishnawbek and Métis Nations of Ontario
- Proactive participation in various community initiatives and programs
- Investment of approximately \$19 million over past 12 years

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Fraser Mine

- The site continues to focus improving safety through a risk- based approach.
- Nickel (Ni), Copper (Cu) operation producing ~0.7M tonnes/year from three separate Mining Deposits.
- Reopened in 2010, seizing the opportunity to mine the high value, narrow-vein Footwall Cu Deposit.
- Entered a partnership with Vale in 2011, to mine and process the narrowvein Cu resources adjacent to the Fraser Mine Footwall Copper Deposit (Bowtie Deposit).
- Fraser Morgan is a bulk tonnage Ni Zone that commenced operation in 2014 and is currently producing out of two zones (Zone 9 and 11).



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- Glencore and Vale collaboratively continue to examine a 50-50 Joint Venture
- 3 parallel work streams underway: Legal term sheet, Technical studies, JV Operational design



Strathcona Mill

- The concentrator can treat up to 2.8M tonnes / year of high Nickel and Copper bearing ore and recycled by products, and has a flexible flow sheet to allow it to effectively process multiple combinations of feed materials.
- Mineral selectivity is a concentrator's capability to separate different mineral types efficiently.
- Innovative metallurgy and flexible operations, able to produce high quality concentrates from high and low grade ores and recycled materials.
- World class tailings and water treatment facility
- Over 98% recycled water use
- Coarse tailings are returned to the mines for backfill

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