

Government of
Northwest Territories

Northwest Territories Exploration and Mining Summary

2025



FOR MORE
INFORMATION

Northwest Territories Geological Survey

Phone: (867) 767-9211 (63469) E-mail: NTGS@gov.nt.ca
NWTGEOSCIENCE.CA





Current Mining Activities

OWNER	PROJECT	COMMODITY	DESCRIPTION	UPDATES
Burgundy Diamond Mines Ltd.	Ekati Mine	Diamonds	Canada's first diamond mine, owned 100% by Burgundy Diamond Mines Ltd. Over 100 Mct produced to date. 2025 Mineral Resource Estimate: Misery Inferred 1.3 Mt, 3.3 c/t grade at 4.3 Mct, and Indicated 0.1 Mt, 4.6 c/t grade at 0.6 Mct. Fox Indicated 41.2 Mt, 0.34 c/t grade at 13.9 Mct, and Inferred 5.6 Mt, 0.40 c/t grade at 2.2 Mct. Probable Fox Ore Reserve 33.6 Mt, 0.3 c/t grade at 10.6 Mct.	2028 Life of mine with conceptual extension to 2040. Currently mining Misery underground, Sable open pit remnant ore, and processing Fox stockpiles. Point Lake bulk sample returned 67,757 carats from 122,291 tonnes (average \$52 per carat). Point Lake Pit mining is on hold and is anticipated to resume operations mid-2026, subject to diamond prices.
Rio Tinto	Diavik Mine	Diamonds	Canada's largest producer of diamonds. Opened in 2003, currently 100% owned by Rio Tinto. A21 underground entered commercial production, anticipated to produce over 2 Mct. Mine slated for closure in 2026.	First half 2025 production produced 2,179,000 carats. Submitted Final Closure and Reclamation Plan.
De Beers Canada Inc. & Mountain Province Diamonds Inc.	Gahcho Kué Mine	Diamonds	A joint venture with De Beers Canada Inc. (51%) and Mountain Province Diamonds Inc. (49%). Commenced production in March 2017. Open pit mining at Hearne was completed. 2024 Mineral Reserve Estimate: Probable Reserve of 23.6 Mt at 1.74 c/t, Indicated 24.7 Mt at 1.57 c/t, and Inferred 13.3 Mt at 1.79 c/t.	Life of mine extended to 2031. Currently producing Tuzo and Wilson (2020 to 2030) and 5034 (2014 to 2026). Tonnes processed were slightly lower in Q3 compared to Q2, grades processed in Q3 increased to 1.18 c/t from 0.8 c/t in Q2, resulting in an increase in carats recovered in Q3 compared to Q2 2025.
Sixty North Gold Mining Ltd.	MON Mine	Gold (Au)	Historical gold mine in the Yellowknife Volcanic Belt with 15,000 oz Au produced between 1989 and 1997. Announced commencement of commercial production in 2024.	Accessed the A-Zone quartz veins below historic stopes. Recently ordered a 100 tpd mill to be delivered via winter road. Drill hole results report DHH VMS1 0.03 g/t Au and <1.0 g/t Ag, and DDH VMS2 0.04 g/t Au with 15% base metal sulphides over 3.5 m in VMS1 and 7 m sulphide-rich zones in VMS2. Plan to mine 20,000 tonnes from the A-Zone using the mechanised rescue mining method for maximum recovery.

Critical & Base Metal Exploration Activities

OWNER	PROJECT	COMMODITY	DESCRIPTION	UPDATES
Vital Metals Ltd. (Cheetah Resources Corp.) & Avalon Advanced Materials	Nechalacho	Rare Earth Elements (REE)	First REE producer in Canada and the second in North America; assets include the Tardiff deposit, one of the highest-grade rare earth deposits in the world.	Measured and Indicated Mineral Resource Estimate updated to 192.7 Mt at 1.3% Total Rare Earth Oxide (TREO), a 56% increase over the 2024 estimate, including 636,000 tonnes of neodymium-praseodymium oxides. Completed a scoping study showing an estimated 56 kt annual concentrate production with 26.4% TREO and 3.3% Nb ₂ O ₅ , and a TREO recovery of 45.1%.
NorZinc Ltd.	Prairie Creek	Zinc-Lead-Silver (Zn-Pb-Ag)	Historical deposit located approximately 100 km northwest of Nahhani Butte. 2021 Mineral Resource Estimate: 9.8 Mt Measured and Indicated at 22.7% ZnEq, and 6.4 Mt Inferred at 24.1% ZnEq. A Preliminary Economic Assessment indicates a 20-year mine life, which includes a proposed underground mine and mine construction.	No activities reported in 2025.
Fireweed Metals Corp.	Gayna	Zinc-Lead (Zn-Pb)	The project includes 12,800 hectares, with historical results from over 28,000 m of drilling, containing Zn-Pb-Ag mineralisation. Modern rock and soil sampling results confirm massive zinc, gallium, and germanium sulfide mineralisation. A new exploration model suggests Kipushi-style massive sulfide targets.	The new exploration model was validated with 3,800 m drilling, which returned 51.22 m at 4.4% Zn, including 24.00 m at 7.3% Zn, and 5.17 m at 10.0% Zn (GR25-013); 17.84 m at 3.4% Zn, including 3.00 m of 6.3% Zn (GR25-012).
Slave Lake Zinc Corp.	O'Conner Lake	Lead-Zinc-Silver-Copper & Lithium (Pb-Zn-Ag-Cu & Li)	Historical lead-zinc mineralisation 60 km from all-weather road infrastructure. The property also contains granitic pegmatites with potential lithium mineralisation.	Conducted a field program to confirm and evaluate historical mineralisation. Fieldwork results are pending. The company secured a Mining Incentive Program grant from the Government of Northwest Territories.
Redbed Resources Ltd.	Redstone	Copper (Cu)	Historical sediment-hosted copper-silver mineralisation and delineated copper mineralisation in the south and central deposit.	No activities reported in 2025.
Fortune Minerals Limited	NICO	Gold-Cobalt-Silver-Bismuth-Copper (Au-Co-Ag-Bi-Cu)	Iron oxide-copper-gold (IOCG)-type mineral deposit with Proven and Probable Mineral Reserves of 33.1 Mt with 1.11 Moz Au, 82.3 Mlb Co, 102.1 Mlb Bi and 27.2 Mlb Cu. There are plans for a mine and concentrator in the Northwest Territories and a hydrometallurgical process facility in Lamont County, Alberta. In 2024, awarded \$17 M from the United States Department of Defence, Natural Resource of Canada, and the Alberta Government towards project development.	Completed acquisition of the Lamont County refinery site and facilities using a \$3.8 M loan from Prosper NWT, a public agency of the Government of Northwest Territories. Improved the bismuth hydrometallurgical process, achieving positive test blending with Rio Tinto material. A feasibility study update is in progress.
Osisko Metals Inc. & Appian Natural Resources Fund III LP	Pine Point	Lead-Zinc (Pb-Zn)	A joint venture project with Osisko Metals Inc. (35%) and Appian Natural Resources Fund III LP. (65%). Proposing an open pit mine at a past producer with road, rail, and power access. 2024 Mineral Resource Estimate: 9.5 Mt at 5.52% ZnEq Indicated and 8.3 Mt at 5.64% ZnEq Inferred. There is an updated Mineral Resource Estimate and optimised Preliminary Economic Assessment pending.	No activities reported in 2025.
Northern Critical Minerals Corp.	Allende	Rare Earth Elements & High Field Strength Elements (REE & HFSE)	An early-stage REE and HFSE project in the Leith Lake Alkaline Complex; mineralisation is hosted in carbonatite. A 615-hectare land package 95 km north of Yellowknife.	No activities reported in 2025.
Northern Critical Minerals Corp. - Pan American Energy	Tharsis	Rare Earth Elements-Niobium (REE-Nb)	An early-stage REE project in the Squalus Lake Alkaline Complex. The REE and HFSE mineralisation is associated with an interpreted concentric syenite-carbonatite complex.	Signed an option agreement with Pan American Energy to acquire 100% interest in the Tharsis Project through a four-year plan.

White Cliff Minerals Ltd.	Great Bear	Gold-Uranium-Multiple Metals (Au-U)	East shore of Great Bear Lake 450 km north-northwest of Yellowknife. Includes the past producing Port Radium mine site (uranium, gold, nickel, cobalt, and lead).	Identified four large iron oxide-copper-gold hydrothermal systems through a MobileMT survey.
Denendeh Exploration and Mining Company Ltd.	Camsell River	Gold-Silver-Copper-Rare Earth Elements-Iron ore (Au-Ag-Cu-REE)	Four past producing silver mines on the property, Silver Bear, Norex, Northrim and Smallwood. Potential for iron oxide, copper and gold (IOCG), REE mineralization.	Awarded \$5 M in Federal funding through the Indigenous Natural Resource Partnerships Program, to advance the project.
Integral Metals Corp.	KAP	Zinc-Gallium-Germanium (Zn-Ga-Ge)	The project includes 1,250 hectares, with interpreted Mississippi-Valley Type zinc-gallium-germanium mineralisation in the Mackenzie Mountains, part of the Canadian Cordilleran orogenic belt; includes massive and disseminated mineralisation.	Drilled seven holes (841 m), confirming zinc-gallium-germanium mineralisation, including 2.00 m at 29.58% Zn, 245 ppm Ga, and 397 ppm Ge, starting from 8.00 m below the surface with 2.10 m banded and locally semi-massive sphalerite mineralisation averaging 16.46% Zn, 103 ppm Ga, and 247 ppm Ge. Carried out a soil geochemical survey (2,164 samples) near the Main Showing.
Fireweed Metals Corp.	Mactung	Tungsten (W)	Located along the Northwest Territories/Yukon border, and is one of the largest and highest-grade tungsten deposits worldwide. 2023 Mineral Resource Estimate: 41.6 Mt Indicated at 0.73% WO ₃ and 12.2 Mt Inferred at 0.59% WO ₃ .	Awarded \$35.4 M from the United States Department of Defence and the Government of Canada to advance the project; completed approximately 11,117 m of infill, geotechnical and hydrogeological drilling, and sampling for metallurgical testwork. Results include 12 m at 6.21% WO ₃ and 29 m at 2.56% WO ₃ .
StrategX Elements Corp.	East Arm	Copper (Cu)	Early-stage copper project 20 km southwest from Łutselk'è in the East Arm of Great Slave Lake. Historical surface sampling reported copper values ranging from 2% to 35% Cu over a 2-km trend.	Reported results from 2024: Surface sampling program returned copper values ranging from 1% to 10%. Historical data compilation under way.

Diamond Exploration Activities

OWNER	PROJECT	COMMODITY	DESCRIPTION	UPDATES
Olivut Resources Ltd. & Talmora Diamond Inc.	Seahorse	Diamonds	A 50/50 joint venture greenfields diamond exploration project with Olivut Resources Ltd. and Talmora Diamond Inc. Favourable indicator minerals and diamonds found regionally and locally. Macro diamonds, micro diamonds, and kimberlite indicator minerals were recovered from a mini bulk sample collected in 2024.	Olivut Resources Ltd. provided an update on the 2024 field program.
Arctic Star Exploration Corp. & Margaret Lake Diamonds Inc.	Diagras	Diamonds	A joint venture with Arctic Star Exploration Corp. (81.5%) and Margaret Lake Diamonds Inc. (18.5%). Located close to existing Lac de Gras diamond mines. Five kimberlites discovered in recent exploration programs, including the Sequoia kimberlite that yielded 99.8 stones per 100 kg. Nitrogen analysis results are permissive of high-value, large, deep-origin diamonds.	No activities reported in 2025.
Mountain Province Diamonds Inc.	Kennady North	Diamonds	Three kimberlites with Mineral Resources proximal to Gacho Kué: Kelvin with 8.50 Mt at 1.60 c/t Indicated, Faraday 2 with 2.07 Mt at 2.63 c/t Inferred, and Faraday 1-3 with 1.87 Mt at 1.04 c/t Inferred.	No activities reported in 2025.

Gold Exploration Activities

OWNER	PROJECT	COMMODITY	DESCRIPTION	UPDATES
STLLR Gold Inc.	Indin Lake	Gold (Au)	District-scale gold project with numerous gold deposits and a past producing mine (Colomac) along a 9 km north-south striking mafic sill. 2023 Mineral Resource Estimate: 70 Mt at 1.50 g/t Au Indicated and 24.4 Mt at 2.17 g/t Au Inferred.	Completed Solar Farm Installation at the Colomac Gold Project with Tłchq Investment Corporation. Next steps include an evaluation of high-priority drilling targets, and assessing permits.
Gold Terra Resources Corp.	Yellowknife City Gold Project (+ Con Mine Option)	Gold (Au)	Project area covers over 80,000 hectares of the Yellowknife Greenstone Belt, including areas around the past producing Giant and Con mines. 2022 Mineral Resource Estimate: Open-pit Inferred 21.8 Mt at 1.25 g/t Au and an underground Inferred 2.55 Mt at 4.04 g/t Au.	Drilling on the Con Mine Option property intersected the Campbell Shear (CS) zone with anomalous gold and silver (up to 0.5 g/t Au and 12.6 g/t Ag) from 2680.5 m to 2703.5 m downhole depth. Higher-grade gold values (7.81 g/t Au over 0.5 m and 3.36 g/t over 0.5 m) intersected in the footwall of the CS.
Seabridge Gold Inc.	Courageous Lake	Gold (Au)	One of Canada's largest undeveloped gold projects. Located close to winter road infrastructure. 2024 Preliminary Feasibility Study for the production of 2.5 Moz Au over 12.6-year life of mine with Proven and Probable Reserves of 33.9 Mt at 2.6 g/t Au. 2024 NI 43-101-compliant report with a Mineral Resource Estimate of 145 Mt at 2.6 g/t Au Measured and Indicated and 40.6 Mt at 2.52 g/t Au Inferred.	Announced intentions in December 2025 to spin-out the Seabridge Gold Project to a new company, Valor Gold, to focus on advancing the project through exploration, engineering, and permitting.
Golden Pursuit Resources Ltd.	South Gordon Lake	Gold (Au)	Past producing gold operation 80 km northeast of Yellowknife with winter road access. Historic high-grade Au production from quartz veins.	2025 exploration program at the Myrt Lake, Murray Lake, and DAF properties in the Gordon Lake gold district, with a focus on litho-structural mapping, rock and till sampling, and drone-based photogrammetry and magnetics surveys; assays results anticipated.
Rackla Metals Inc.	Grad	Gold (Au)	Located in the Tombstone Gold Belt. Targeting Reduced Intrusion-Related Gold Systems (RIRGS). Newly staked based on stream sediment anomalies and field observations. Grab samples up to 92 g/t Au, 2% Bi; 38 m chip sample returned 1.8 g/t Au.	2025 maiden drilling of 10 holes (4,489 m) at the high-grade BiTe showing, with gold mineralisation over narrow widths, including 10.5 m at 2.56 g/t Au, including 8.45 g/t Au over 1.5 m. Gold mineralisation is associated with bismuth, tellurium, and tungsten and shows no relation to the abundant sheeted quartz veins observed in the cores. Results of a trenching program conducted in the newly discovered Manta showing, 1.5 km south of the BiTe showing are pending.
Rackla Metals Inc.	Astro	Gold (Au)	Located in the Tombstone Gold Belt. Targeting Reduced Intrusion-Related Gold Systems (RIRGS). 2024 Drilling on HIT and Peak targets, soil sampling, talus sampling, and prospecting.	No activities reported in 2025

Lithium & Other Critical Mineral Exploration Activities

OWNER	PROJECT	COMMODITY	DESCRIPTION	UPDATES
Li-Ft Power Ltd.	Yellowknife	Lithium (Li)	A thirteen-pegmatite dyke system with historical lithium assays. Strike lengths up to 1,800 m and widths of 40 m. A 2024 Initial Mineral Resource Estimate of 50.4 Mt at 1.00% Li ₂ O based on 49,500 m of drilling from 286 holes in 8 of the 13 dykes. Targeting a Preliminary Economic Analysis.	Completed first year of Environmental Baseline Data Collection Program. The preliminary lithium conversion testwork demonstrated lithium extraction rates of up to 98% under typical operating conditions. Initiated a 3,445 m drilling program of ten infill and geotechnical holes; Shorty (2,655 m) and Nite (780 m) dykes, targeting high-grade spodumene intercepts that remained open at the end of the 2023-2024 drilling campaigns.
Midas Minerals Ltd.	Reid-Aylmer	Lithium (Li)	Numerous pegmatite swarms, including 17 new spodumene pegmatites between 10 m and 30 m wide. A 26 m channel, sampled at 1 m intervals, returned 1.27% Li ₂ O, with up to 2.86% Li ₂ O.	No activities reported in 2025.
Xenora Minerals Ltd.	Mac	Lithium (Li)	Four contiguous claims (4,300 hectares), located 80 km north of Yellowknife, west of the winter road. Multiple exploration targets were defined based on the interpretation of satellite imagery.	No activities reported in 2025.
Xenora Minerals Ltd.	Ross Lake	Lithium (Li)	Approximately 70 km east-northeast of Yellowknife and 25 km away from the Hidden Lake Lithium project owned by Loyal Metal Ltd., which includes Dyke 75 with up to 3.31% Li ₂ O and 37.7% spodumene.	No activities reported in 2025.
Xenora Minerals Ltd.	Halo-Yuri	Lithium (Li)	Thirty-seven contiguous claims (45,000 hectares) containing spodumene pegmatites, located 250 km northeast of Yellowknife, along the Gahcho Kué mine winter road. There is widespread mineralisation with up to 5.1% Li ₂ O confirmed during a 2024 field mapping and prospecting campaign.	No activities reported in 2025.
Xenora Minerals Ltd.	East Yellowknife	Lithium (Li)	Comprises three projects (Lizo, Prelude, and Lightning) with over 15,000 hectares in the Yellowknife Pegmatite field; accessible through Ingraham Trail.	No activities reported in 2025.
Narryer Metals Ltd.	Big Hill	Lithium (Li)	The project includes 6,200 hectares, partially surrounding BIG Lithium project mineral leases owned by Li-FT Power Ltd. The project area hosts lithium-cesium-tantalum (LCT) pegmatites with up to 2.57% Li ₂ O over 1 m and 5 m chip samples at 1.16% Li ₂ O.	No activities reported in 2025.
Ant Lithium Corp.	Aylmer Lake	Lithium (Li)	The project includes 33,849 hectares, located 70 km southeast of the Diavik mine. Contains mineralised lithium-cesium-tantalum (LCT) pegmatite dykes with spodumene assaying up to 7.50%.	No activities reported in 2025.
Loyal Metals Ltd.	Hidden Lake	Lithium (Li)	The project is located 68 km east of Yellowknife; close to Ingraham Trail. Includes 14 mapped spodumene-bearing dykes, four drill tested, with a cumulative strike of over 3,250 m. Test beneficiation produced 6.11% Li ₂ O concentrate.	No activities reported in 2025.
RGV Lithium Explorations Inc.	Muskox	Lithium (Li)	The project is located 45 km east of Yellowknife; within the yellowknife Pegmatite field, and 100 m from an all-season road. Contains spodumene pegmatite dykes, including CM1 with 1.34% Li ₂ O over 5 m and 1.26% Li ₂ O over 11 m.	No activities reported in 2025.
Lake Winn Resources Corp.	Little Nahanni Pegmatite Group	Lithium-Tantalum-Tin-Cesium (Li-Ta-Sn-Cs)	The project includes 9,682.5 hectares located, 40 km from Cantung and Howard's Pass, along the Northwest Territories/Yukon border. Has a lithium-cesium-tantalum (LCT) pegmatite swarm approximately 7 km-long. Eight historical drill holes were evaluated for tantalum and lithium. A composite sample over 10 m across an outcrop returned up to 3.52% Li ₂ O and 1.77% Li ₂ O.	No activities reported in 2025.

Li-Ft Power Ltd.	Cali	Lithium (Li)	An early-stage lithium pegmatite exploration project within the district-scale Little Nahanni Pegmatite Group along the Northwest Territories/ Yukon border. The property size expanded by 9,681 hectares in 2024 to include numerous spodumene pegmatite dykes in a corridor approximately 1.5 km by 1 km with up to 3.04% Li ₂ O.	During 2025 mapping and prospecting, 230 grab and channel samples were collected. Highlighted results include 1.9% Li ₂ O over 21 consecutive metres; mapping that indicated dykes in the 2023 work area are 1 m to 5 m wide; and six new spodumene pegmatites confirmed in the newly staked area with up to 2.9% Li ₂ O, extending the Little Nahanni Pegmatite Group corridor by 3 km to the northwest. Metallurgical recovery test work results expected in 2026.
Li-Ft Power Ltd.	Destaffany	Lithium-Tantalum-Niobium (Li-Ta-Nb)	The project includes 1,843 hectares, located 115 km southeast of Yellowknife on the north central shore of Great Slave Lake, and 18 km northeast of the Nechalacho rare earth deposit. Minor intermittent production of tantalum, niobium, and tin in the 1940s. Includes Moose 1-4 pegmatite dykes with up to 1.98% Li ₂ O.	Completed acquisition from North Arrow Minerals Inc.
Li-Ft Power Ltd.	Lac de Gras	Lithium (Li)	The project includes 8,600 hectares, located 15 km southwest of the Diavik mine, with over ten spodumene-bearing pegmatite dykes with up to 5.57% Li ₂ O.	Completed acquisition from North Arrow Minerals Inc.
Li-Ft Power Ltd.	Mackay	Lithium (Li)	The project includes 8,661 hectares, located 30 km south of the Diavik mine. Two spodumene pegmatite dykes located in the project area are hosted in a similar setting to the Yellowknife Pegmatite field and returned grab samples up to 5.25% Li ₂ O.	Completed acquisition from North Arrow Minerals Inc.

This NWT mineral exploration and mining project summary was compiled in early January 2026, and some projects without recent or announced activity may not have been included.

2025 Mining Incentive Program – Corporate

OWNER	PROJECT	COMMODITY	REGION
DEMCo Ltd.	Camsell River	Rare Earth Elements, Gold (Au) & Multiple Metals	Sahtú
Fireweed Metals Corp	Gayna Project	Zinc (Zn)	Sahtú/ Beaufort Delta
Gold Mining Inc.	Yellowknife Gold	Gold (Au)	North Slave
Gold Terra Resource Corp.	Northbelt - Mispickel	Gold (Au)	North Slave
Gold Terra Resource Corp.	Southbelt - Con Deep	Gold (Au)	North Slave
Golden Pursuit Resources Ltd.	Gordon Lake	Gold (Au)	North Slave
Northern Critical Metals Corp.	Tharsis	Rare Earth Elements	North Slave
Panarc Resources Ltd.	Indian Mountain Lake	Gold (Au), Multiple Metals	North Slave
Rackla Metals Inc.	O'Grady – Lened	Gold (Au)	Sahtú
Redbed Resources Corp.	Redstone Regional/North	Copper (Cu)	Sahtú
Sixty North Gold Mining Ltd.	Mon Gold Project	Gold (Au)	North Slave
Slave Lake Zinc Corp.	O'Connor Lake	Zinc (Zn)	North Slave
White Cliff Minerals Ltd.	Spark Plug	Gold (Au), Uranium (U) & Multiple Metals	Sahtú

2025 Mining Incentive Program – Prospectors

OWNER	PROJECT	COMMODITY	REGION
Danny Yakeleya	Prospecting on the NWT/Yukon Border	Gold (Au)	Sahtú
Jared Suchan	Viking	Zinc (Zn), Gold (Au) & Multiple Metals	North Slave
Stephane Poitras	Big Spicy	Multiple Metals	South Slave

This document was prepared by the Northwest Territories Geological Survey (NTGS), Government of Northwest Territories (GNWT). It is provided for informational purposes only. It does not contain any warranties, representations or quality commitments, whether express or implicit, nor any guarantees regarding the information's correctness, integrity, and quality. The NTGS has exercised all reasonable care in compiling this document, and the information was obtained from sources the NTGS believes to be reliable. However, it is impossible to ensure complete accuracy, and all persons who rely on the information do so at their own risk. Information is provided as is, with and without warranty, neither express nor implied. The GNWT does not accept liability for any errors, omissions, or inaccuracies that may be included in or derived from this document. In no event will the NTGS, the GNWT, nor any of their respective successors, assigns, agents or employees be held liable in any way for damages suffered, direct or indirect, as a result of any action or inaction taken in reliance on information provided herein.

2025 Northwest Territories Exploration and Mining Summary Map

