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The island of Newfoundland represents an emerging gold district, generating intense interest and vigorous exploration growth. Gold has been mined from epithermal (gold-copper) and orogenic (gold-only) deposits, and as a by-product in several volcanogenic massive sulphide (VMS) operations. Production from orogenic and VMS deposits is continuing, and a number of new advanced projects are targeting similar deposit styles. Ongoing exploration is also directed at both high- and low-sulphidation epithermal deposits. Recent high-grade gold discoveries have led to a surge of new investment in exploration projects throughout the province.



## **GOLD IN NEWFOUNDLAND**

The island of Newfoundland, situated off the Atlantic coast of mainland Canada, is part of the larger Appalachian-Caledonian orogenic belt. Its geology records the development and destruction of an ancient proto-Atlantic Ocean, a cycle that culminated in the mid-Paleozoic collision of pre-Appalachian crustal blocks of mid- to late Proterozoic age and contrasting tectonic origin. Vestiges of this ancient ocean are extensively preserved in the central part of the island, within the Dunnage Zone. This medial region is bounded by contrasting Proterozoic to early Paleozoic elements of the opposing continental margins: Gander and Avalon zones to the east and Humber Zone to the west. Widespread magmatism and deformation characterized the Appalachian and pre-Appalachian tectonic evolution of the Newfoundland segment of the orogen. At several discrete intervals, magmatism was accompanied by the formation of large-scale gold-bearing hydrothermal alteration systems at different crustal levels. These systems host gold orebodies in both Neoproterozoic and Paleozoic rocks, and in many instances, are associated with major crustal structures. Several of the styles and settings of gold mineralization are analogous, at varying levels of detail, with world-class deposits in ancient deformed terranes and in Mesozoic-Cenozoic belts. These include epithermal, orogenic, sediment-hosted and intrusion-related deposit types. This unique geological setting creates an excellent opportunity for new mineral discoveries in an underexplored, readily accessible mineral district.







Orogenic gold of Paleozoic age is associated with mesothermal-style quartz-sulphide veins and quartz-carbonate shear zones in a variety of deformed metamorphic terranes.



Orogenic gold systems occur in mid-Paleozoic slate belts developed in Ordovician and Silurian sediments.







Cambro-Ordovician gold-bearing hydrothermal systems are typically associated with the formation of volcanogenic massive sulphide deposits.



Large-scale gold-bearing systems of Neoproterozoic age include well-preserved, low- and high-sulphidation epithermal examples, and intrusion-related mineralization.

Siluro-Devonian epithermal gold systems are hosted by early Paleozoic subaerial volcanic rocks and terrestrial and marine sedimentary rocks.



Gold is hosted by Neoproterozoic and Paleozoic intrusions in disparate settings. Some of the most important deposits occur where intrusions are spatially associated with major crustal structures.

| Owner/Optionee/Contact  | Property                         | Resource   | Owner/Optionee/Contact  | Property                          | (Zone) / Resource / Drill Intersection  |
|---|----------------------------------|--|---|-----------------------------------|---|
| CURRENT AND PAST PROD   | DUCERS                           |  | FireFly Metals Ltd  | Green Bay                         | (Little Deer) 2,883,000 t indicated*  |
| Orogenic  |                                  |  |   |                                   | @ 2.13% Cu, 3.43 g/t Ag, 0.1 g/t Au and 0.02% Co;<br>6.176.000 t inferred*  |
| Signal Gold Inc. (1)  | Point Rousse /<br>Argyle (PP)    | 436,800 t indicated* @ 2.53 g/t Au;<br>500 t inferred* @ 2.77 g/t Au   |   |                                   | @ 1.79% Cu, 2.17 g/t Ag, 0.05 g/t Au and 0.02% Co<br>(Ming) 23,755,000 t measured and indicated*<br>@ 1.8% Cu, 0.35 g/t Au and 2.78 g/t Ag; |
|   | Point Rousse /<br>Pine Cove (PP) | 863,500 t indicated* @ 2.07 g/t Au;<br>476,300 t @ 1.39 Au   | Intrusion-bosted  |                                   | 6,430,000 t inferred* @ 1.86% Cu, 0.38 g/t Au and 2.6 g/t Ag  |
| Richmont Mines Inc. (2)   | Nugget Pond (PP)                 | 488,000 t @ 11.1 g/t Au  |   | llunder lana                      |   |
| Richmont Mines Inc. (1)   | Hammerdown (PP)                  | 315,000 t @ 16.1 g/t Au  | Gold II Futures Mineral Corp.   | Huxter Lane                       | 38,760,000 t inferred* @ 0.457 g/t Au   |
| Ming Minerals Inc. (1)  | Stog'er Tight (PP)               | Produced 1,952 oz. Au and 861 oz. Ag   |   | Brady                             | (Reid) 9,570,000 t inferred* @ 0.56 g/t Au  |
| Epithermal  |                                  |  |   | ,                                 |   |
| BP Canada Inc. /<br>Royal Oak Mines Inc. (3)                              | Hope Brook (PP)                  | 11,200,000 t @ 4.54 g/t Au   | REPRESENTATIVE GOLD   | OCCURRENCES                       | WITH DRILL DATA   |
| VMS   |                                  |  | Orogenic  |                                   |   |
| Consolidated Rambler Mines Limited /<br>Rambler Metals and Mining plc (2) | Rambler (PP)                     | (Ming) (1972-2023) 6,700,000 t @ 2.0% Cu + Au<br>(Ming) (pre-2012) 1,991,592 t @ 3.7% Cu,  | Sokoman Minerals Corp.<br>New Found Gold Corp.  | Moosehead<br>Oueensway            | 39.6 m @ 12.50 g/t Au, including 10.25 m @ 41.97 g/t Au<br>(Keats) 19 m @ 92.9 g/t Au, including 6 m @ 285.2 g/t Au:                        |
| Tack Resources Limited  | Duck Pond (PP)                   | (Main) 399,000 t @ 1.3% Cu, 5.1 g/t Au   |   |                                   | 41.3 m @ 22.3 g/t Au, including 11.3 m @ 68.6 g/t Au<br>(Lotto) 4.76 m @ 41.2 g/t Au; 3.85 m @ 152.08 g/t Au                                |
| leck nesources Limited  | Duck Folia (FF)                  | and 0.9 g/t Au   | Contours Minousla Componition   | Milding Labo                      | (Golden Joint) 3.85 m @ 98.13 g/t Au  |
| Asarco Inc. (4)   | Buchans (PP)                     | 16,196,876 t @ 14.5% Zn, 7.6% Pb,  | Canterra Minerais Corporation   | Wilding Lake                      | (EIM) 5.35 m @ 10.0 g/t Au, including 0.98 m @ 49.92 g/t Au   |
|   |                                  | 1.3% Cu, 126 g/t Ag and 1.4 g/t Au   | Ouedre Deservesse Ltd   | Golden Rose                       | 20.3 m @ 1.37 g/t Au  |
| First Maritime Mining Corporation (5)                                     | Tilt Cove (PP)                   | Produced 42,425 oz. gold as byproduct  | Quadro Resources Ltd.   | Stagnorn                          | (Marks Pond) 57 m @ 0.33 g/t Au; 6 m @ 1.95 g/t Au  |
| Atlantic Coast Copper (6)   | Little Bay (PP)                  | Produced 6,271 oz. gold as byproduct   | Capitar Baseurses Inc.  | Coldon Paio                       | 2.8 m @ 38.2 T g/t Au, including 0.85 m @ 118.92 g/t Au   |
|   |                                  |  | K0 Gold Corp  | Stopy Lake                        | (Kendell) 7.8 m @ 9.0 g/t Au; 5.5 m @ 20.0 g/t Au<br>(Jumper's Pond) 65 1 m @ 0.78 g/t Au; 5.2 4 m @ 0.02 g/t Au                            |
| ADVANCED PROJECTS WIT   | TH RESOURCE ES                   | TIMATES  | Labrador Gold Corp.   | Kingsway                          | (Big Vein) 19 m @ 6.07 g/t Au; 32 m @ 2.02g/t Au;<br>0 58 m @ 284 1 a/t Au;   |
| Orogenic  |                                  |  | Ruddle Rend Resources Inc   | Handcamp                          | 62 m @ 2 22 a/t Au  |
| Matador Mining Ltd.   | Cape Ray                         | 6,211,000 t indicated @ 2.25 g/t Au;<br>3,449,000 t inferred* @ 1.44 g/t Au  | Prospector Metals Corp. /   | Toogood                           | (Quinlan) 3.65 m @ 23.90 g/t Au; 4.25 m @ 18.27 g/t Au  |
| Marathon Gold Corporation   | Valentine                        | 64,624,000 t measured and indicated* @ 1.9 g/t Au;<br>20,752,000 t inferred* @ 1.65 g/t Au   | Epithermal  |                                   |   |
| Maritime Resources Corp.  | Hammerdown                       | 2,900,000 t measured and indicated* @ 3.64 g/t Au;<br>368,000 t inferred* @ 1.79 g/t Au  | Cartier Silver Corporation  | Big Easy<br>Heritage              | 89.2 m @ 0.41 g/t Au and 15.4 g/t Ag  |
|   | Point Rousse                     | (Stog'er Tight) 642,000 t indicated* @ 3.02 g/t Au;<br>53,000 t inferred* @ 5.63 g/t Au  | Golden Ridge Resources  | Clarkia Braak                     |   |
| Magna Terra Minerals  | Viking                           | (Thor) 879,000 t indicated* @ 1.79 g/t Au;   | Metals Creek Resources Corp.  |                                   | 0.4 m @ 2.05 g/t Au; 4.30 m @ 2.45g/t Au  |
| -   | 5                                | 67,000 t inferred* @ 1.97 g/t Au   | Julia Sky Gold Corp.  | Musiany<br>Hickov's Pond Paradiso | $52.65 \text{ III } \oplus 0.76 \text{ g/t Au}$ ; 20.52 III $\oplus 0.56 \text{ g/t Au}$  |
|   | Great Northern                   | (Rattling Brook) 5,460,000 t inferred* @ 1.45 g/t Au   | Minineo Metals Corp.  | Flickey's Folio Faladise          | (nickey s rond) 10.8 m @ 4.45 g/t Au  |
| Golden Promise Mines Inc. Epithermal                                      | Golden Promise                   | (Jaclyn Zone) 357,500 t inferred* @ 9.3 g/t Au   | Canstar Resources Inc.  | Buchans-Mary March                | 9.63 m @ 10.1% Zn, 1.68% Pb, 0.64% Cu,  |
| Big Ridge Gold Corp. /<br>First Mining Gold Corp.                         | Hope Brook                       | 16,190,000 t indicated* @ 2.32 g/t Au;<br>2,215,000 t inferred* @ 3.25 g/t Au  | Vulcan Minerals Inc.  | Colchester                        | 5.8 m @ 3.91 g/t Au, 2.81% Cu; 4.5 m @ 5.60 g/t Au, 2.30% Zn  |
| VMS   |                                  |  | Epithermal / Porphyry   |                                   |   |
| Canterra Minerals Corporation   | Boomerang                        | 1,364,600 t indicated* @ 7.1% Zn, 3.0%   | Gold Terra Resource Corp.   | Stewart                           | 111 m @ 0.13 g/t Au, 0.05% Cu   |
|   | 5                                | Pb, 0.5% Cu, 110 g/t Ag and 1.7 g/t Au   | Northern Shield Resources Inc   | Root & Cellar                     | (Conquest) 8.95 m @ 1.3 g/t Au;   |
|   | Lemarchant                       | 2,420,000 t indicated* @ 6.15% Zn, 1.60% Pb,<br>0.68% Cu, 1.22 g/t Au, 64.0 g/t Ag and 23.5% barite;<br>560,000 t inferred* @ 4.68% Zn, 1.08% Pb, 0.45% Cu,<br>1.06 g/t Au, 44.7 g/t Ag and 13.1% barite | <b>Other</b><br>Canstar Resources Inc.  | Little River                      | (Wolf Pond) 2.5 m @ 5.8 g/t Au;   |
| Callinex Mines Inc.   | Point Leamington                 | 5,013,000 t indicated* @ 1.39% Zn, 0.54% Cu,<br>0.01% Pb, 12.2 g/t Ag and 0.9 g/t Au;<br>15,440,000 t inferred* @ 1.85% Zn, 0.36% Cu,<br>0.03% Pb, 15.3 g/t Ag and 0.85 g/t Au                           | Sokoman Minerals Corp. /<br>Benton Resources Inc.   | Grey River                        | (22 west) 2.5 m @ 4.9 g/t Au<br>1.8 m @ 10.58 g/t Au, including 0.35 m @ 50.13 g/t Au   |
| Spruce Ridge Resources Ltd. /<br>Benton Resources Inc.                    | Great Burnt                      | 881,000 t indicated* @ 2.74% Cu and 0.29 g/t Au;<br>627,000 t inferred* @ 2.05% Cu and 0.24 g/t Au   | KEY: P=Producer PP=Past Producer *43-101 or JORC compliant Resource Estimate<br>Current holder (1) Maritime Resources Corp. (2) FireFly Metals Ltd (3) Big Ridge Gold Corp. / First Mining Gold Corp.<br>(4) Canterra Minerals Corporation (5) Metals Creek Resources Corp. (6) Vulcan Minerals Inc.<br>Threshold |                                   |   |

Diamond-drill hole intersection g/t Au x m > 10