

Silver Spruce Stakes Additional Contiguous Claims, Doubles Holdings To 148 Sq Km at Mystery Au Project, Newfoundland and Labrador

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BEDFORD, February 8, 2023 - [Silver Spruce Resources Inc.](#) ("Silver Spruce" or the "Company") (TSXV:SSE)(FRA:S6Q1) is pleased to announce the acquisition by staking of 6,040 hectares ("ha") of claims contiguous to the Marilyn and Till properties of the Mystery Au project ("Mystery") (Figures 1 and 2). The new properties cover a total of 242 claims in three property blocks.

"We are very excited to acquire a significant package of additional claims tied to both the Marilyn and Till properties which effectively doubles our overall property coverage to 148 square kilometres (14,790 ha). These new claims follow to the south along the principal metasedimentary structural trend and geological contacts on the west margin of the Mount Peyton intrusive complex. In addition, the new claims occur adjacent to several gold grain and geochemical anomalies reported from the 2022 and 2022 Phase 1 programs," said Greg Davison, Silver Spruce Vice-President Exploration and Director. "The new claims fall within the Area of Interest of the current Definitive Agreement."

"We look forward to the next steps comprising program design for detailed infill soil and till sampling around the anomalous sampling sites to advance the known target sites and contracting the detailed interpretation of the 2021/2022 MPX Geophysics MAG/VLF/RAD survey. The latter contract will be awarded by mid-February," stated Mr. Davison. "Prospecting, mapping and further regional sampling are proposed to complement Phase 2 field work with a view to drill target generation in Q3 2023."

The widely-spaced gold grain in till sampling results identified anomalous sites with >20 gold grains on each of the three original Properties, Marilyn, Till East and Mystery Lake. Three sites containing anomalous gold grains (Figures 3 and 4) occurred primarily within the Botwood Group metasediments and another within the marginal phases of the intrusion.

A total of twenty-two (22) sites contained elevated calculated ppb Visible Gold and pristine gold particle morphologies (12 samples). Modified gold grains were reported from twenty-five (25) sampling sites including eight (8) accompanied by pristine grains distributed across the Properties. Soil geochemistry also showed Arsenic anomalies in Marilyn transecting from north to south, proximal to the gold grain trend occurring on a southwesterly linear parallel to regional geological and magnetic structure (Figures 5 and 6). Mystery Lake also showed a cluster with elevated Arsenic and Antimony adjacent to the highest Au grain data.

The gold grain in till program accompanied by B zone soil geochemical sampling is complete over a total of 129 of the proposed 184 locations. Those sites remaining were deferred due to distance from access trails and swampy ground and will require future helicopter support. As per the autumn 2021 program, the till samples, averaging 12kg in weight of screened -¼" or -½" material, were shipped to Nepean, Ontario and submitted to Overburden Drilling Management ("ODM") for processing and gold grain analysis. The soil samples were shipped to ALS Global in North Vancouver for precious metal and multi-element analysis.

Figure 1. Map of the Mystery Project claims, named from north to south, Marilyn (consolidated with new claims and Till block) and Mystery Lake, located only 20-50km south of Bishop's Falls, Newfoundland.

Figure 2. Map of the Marilyn property including 2021 optioned and 2022 staked claims.

Figure 3. Map of the Mystery claims showing gold grain frequency recovered from wide-spaced Phase 1 till

and B soil sampling locations during 2021 and 2022. The western area of the Marilyn claims and the south Till claims contain overlapping gold grain and Au-As-Sb geochemical signatures.

Figure 4. Map of the Marilyn claims showing total gold grain frequency recovered from wide-spaced Phase 1 till and B soil sampling locations during 2021 and 2022. Black dots denote unsampled sites.

Figure 5. Map of the Marilyn claims showing B soil sampling with Arsenic (ppm), a key indicator of the known Au-As-Sb mineralization, in graduated symbols. Black dots denote unsampled sites.

Figure 6. Map of the Marilyn claims showing combined gold grain frequency and heavy metal geochemical signature anomalies upon airborne geophysical map - first vertical derivative. Botwood Group metasediments with northeast fabric in contact with north-south Mount Peyton multi-phase intrusion. Black dots denote unsampled sites.

Exploration

The reconnaissance sampling (95 sites) was completed before the winter 2021 shutdown and an additional thirty-four of the readily accessible sites were tested during the 2022 field season. The remaining gold grain and multi-element geochemistry results from the 2022 program were received in December from Overburden Drilling Management ("ODM") and ALS Global ("ALS"). The first pass 500m x 1000m grid results are under review with select maps of the gold grain and geochemistry denoted herein.

The Properties comprise a large, virtually untested area with many outcrop showings and mineralized float, prospective geology, and regional and second order geophysical structures within and adjacent to our holdings. The Company has staged plans to continue regional till sampling for gold grain analysis and soil geochemistry, regional and property scale airborne geophysical compilation and interpretation, prospecting, ArcGIS geological and geophysical data compilation and as warranted by these results, submit additional permit applications to undertake a detailed geological mapping and sampling program, grid soil sampling with a tighter grid spacing and planning for our first exploration drill campaign. Further wide-spaced sampling also will be proposed for both the currently incomplete areas and the new claims.

Project Background

The Company signed a Definitive Agreement in September 2021 with two parties (the "Vendors") to acquire 100% of three early-stage gold exploration properties, Mystery, Till and Marilyn, (the "Property" or the "Properties") located near Grand Falls, Newfoundland and Labrador, Canada, 20-25 kilometres west of New Found Gold Corp.'s Queensway project and 15-35 kilometres south of Sokoman Minerals Corp.'s Moosehead gold project. The recently staked claims are contiguous to this property and subject to first rights under the 5 km Area of Interest in the Agreement.

The 14,790-hectare project is located within the Exploits Subzone, an extensive area of mineral exploration activity and discoveries over the past two years. The Properties are well situated in terms of exploration logistics, located close to each other and 10-45 kilometres south by Bay d'Espoir Highway from Bishop's Falls, Newfoundland. The Properties are located <70 kilometres from the Gander International Airport and are easily accessible from major paved roads and local logging and bush roads and trails.

The region is structurally complex and located, in large part, between several major crustal lineaments. Numerous major to lesser sub-parallel features merge and bifurcate along strike and are transected by NW and EW-trending faults. These deep-seated structures, which juxtapose geological terranes over hundreds of kilometres, are key to the location and formation of orogenic gold deposits containing several million ounces of gold as reported by junior companies in the district.

Historical assays were reported for 123 samples collected from Mystery and Marilyn (see Press Release of September 14, 2021). Eighteen samples reported Au >0.5 g/t (max. 12.5 g/t Au). Cu values were reported up to 9.85% with minor Ag, Pb and Zn. Arsenic was highly anomalous in thirty-six samples reporting over 2200 ppm upper limit for Inductively Coupled Plasma (ICP-OES) analysis, strongly associated with elevated Au values and displayed as minor to abundant arsenopyrite.

Silver Spruce collected new rock samples and received an independent report on the mineral and rock textures potentially related to shallow epithermal and/or orogenic vein-style mineralization. The Company completed an initial phase of till and soil sampling in late 2021, and an airborne magnetic, VLF-EM and radiometric survey in February 2022 (see Press Release of February 23, 2022). Detailed interpretation of the airborne data is pending.

Multiple surface occurrences are reported of agate chalcedony to colloform and crystalline silica veining and multi-phase breccias, carbonate replacement by quartz, and open-space filling quartz and calcite, all textures indicative of the upper zones of epithermal systems and structural conduits in orogenic systems, and are accompanied by gold, arsenopyrite, stibnite, chalcopyrite, bornite and Cu carbonate mineralization in quartz veins, black shale and other sedimentary units, and ultramafic and gabbroic intrusions.

Qualified Person

Greg Davison, PGeo, Silver Spruce VP Exploration and Director, is the Company's internal Qualified Person for the Mystery Project and is responsible for approval of the technical content of this press release within the meaning of National Instrument 43-101 Standards of Disclosure for Mineral Projects ("NI 43-101"), under TSX guidelines.

About Silver Spruce Resources Inc.

[Silver Spruce Resources Inc.](#) is a Canadian junior exploration company which has signed Definitive Agreements to acquire 100% of the Melchett Lake Zn-Au-Ag project in northern Ontario, 100% interest in the Mystery Au project near recent discoveries by [Sokoman Minerals Corp.](#) and New Found Gold Corp. among others in the Exploits Subzone Gold Belt, Newfoundland and Labrador, 100% interest in the Pino de Plata Ag project located 15 kilometres west of Coeur Mining's Palmarejo Mine in western Chihuahua, Mexico and up to 50% interest in Colibri Resource's Diamante Au-Ag project located from 5 kilometres to 15 kilometres northwest from Minera Alamos's Nicho deposit in Sonora, Mexico. Silver Spruce recently signed a 50:50 joint venture agreement with Colibri on the nearby Jackie Au project. [Silver Spruce Resources Inc.](#) continues to investigate opportunities that Management has identified or that have been presented to the Company for consideration.

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