

Starfield Resources Inc.

Summary of Renewal Application

Background

Starfield Resources Inc. (Starfield) is exploring a significant nickel, copper, palladium and platinum group metals deposit located in an area of Inuit Owned Lands at Ferguson Lake in Nunavut. Starfield is a public company trading on the Toronto Stock Exchange under the symbol SRU. Historical exploration has used the privately-owned Ferguson Lake Fishing Lodge located on an island in Ferguson Lake as a base camp. Starfield established a new camp in 2007 on the mainland to provide safer and more convenient access to the current exploration areas and to allow for potential expansion as activity on the site increases.

Between the years 1949 and 1957 the area was explored by INCO (International Nickel Company). Since acquiring the property in 1999, Starfield has continued the exploration activities that were started by INCO. A number of different exploration methods have been used to study the mineralization in the area. These exploration methods have included aerial surveys, geological and geophysical studies, surface studies and drilling programs. Previous environmental baseline work has been completed in the area in 1999, 2005, 2006, 2007, 2008, and 2011. This baseline work is necessary to support an Environmental Impact Assessment.

All of the exploration program will be conducted from Starfield Resources Inc.'s current exploration camp located on the shores of Ferguson Lake. Contractors will follow all rules, guidelines, spill contingency plans, safety plans, waste disposal plans, bear deterrent plans and other regulations associated with camp operation.

Starfield plans to drill approximately 10-15 shallow core holes totaling 3,500 m. All of this work will be performed using helicopter support and will be focused on the West Zone approximately 2 km southwest of camp. Drill rod and casing will be removed from all of the drill holes and the anchor rod will be cut down to as close to ground level as possible. Each hole will be capped.

During the drill operations, a small amount of cuttings are created in the form of sand, silt and mud, as a result of the grinding of the earth and rocks that are being drilled through. The cuttings will be disposed of in natural depressions (sumps) that will be well above the normal high-water mark of surrounding waterbodies. Water will be drawn from lakes near to the drill set-ups via a water line and pump. Secondary containment will be used to store the fuel barrels used to support the drill program.

In addition, all contractors working in the field will be certified for basic CPR and first aid and trained in helicopter safety. Transportation to survey sites will be accomplished by helicopter.

Schedule

The camp is occupied seasonally depending upon the level of exploration activity on the deposit. Pending continued exploration success and sustainable market conditions for metals, the company anticipates eventually making a production decision that would see the camp expanded and occupied year-round for several years prior to full decommissioning and reclamation when no longer required.

Equipment

The following table lists the specifics of each piece of equipment:

Equipment Type	Number Required	Size	Ground Pressure	Proposed Use
Articulated truck	1	250D	65 psi with maximum load	For future activity
Track type tractor (dozer)	2	LGP	4.14 psi	Move equipment around on camp
Loader (1 track)	1	287B	3.8 psi	Move core boxes and other heavy equipment
Excavator	1	320BL	6.95 psi	Excavate a sump
Snow cat	2	BR 160	minimal	Transportation
Snow mobile	20	Various	minimal	Transportation
Drill	2	17 and 75	varying	For Drilling

Waste Disposal

Waste will be compiled in 5 gallon buckets with lids and will be disposed of at the nearest community, in full compliance with that communities waste disposal methods. No waste will be disposed of or stored on the land.

Disposal Methods

All project combustible garbage will be incinerated daily on-site. Non-combustible garbage and ashes from the incinerator will be backhauled to an approved landfill in Rankin Inlet. Waste oil will be either incinerated or backhauled to an approved disposal site.

Hazardous wastes will be backhauled for disposal in approved sites in compliance with regulations.

Hazardous materials storage

There will not be any hazardous materials on site. Pacto toilets will be used at site and sewage will be burned. Grey water will be directed to a sump.

Water quality in the project area is generally good, but the mineralized areas naturally produce acid rock drainage. Baseline studies conducted by Rescan Environmental Services Ltd. identified several streams in mineralized areas with very poor water quality due to naturally occurring acid rock drainage.

Environmental Impacts

The drilling is not expected to have adverse effects on the environment. Each hole will be remediated after drilling. The presence of wildlife will be monitored and activities adjusted to avoid unnecessary disturbance.

Any potential hydrocarbon spills will be contained immediately, and all hydrocarbon contaminated soil will be removed from site in a sealable container. The Spill Contingency Plan discusses the preventative measures that staff and contractors must abide by to avoid spills, as well as spill clean up strategies.

Reclamation

No environmental damage is expected. In the case of environmental damage, such as a hydrocarbon spill or rutting on the land; the affected area will be reclaimed as close as possible to its pre-disturbed state.

Local Employment

Local workers will be contracted to assist with the exploration program.

Contractors:

A list of contractors that will be working on this exploration program is presented below:

1. Major Drilling Group International (Ashley Martin, 204-885-7532)
180 Cree Crescent
Winnipeg, Manitoba R3J 3W1
2. Northern Air Support Ltd. (Mark Mc Gowan, 888-765-0101)
6285 Kelowna Airport
Kelowna, BC V1V 1S1
3. Frontier Medex (Hero Landry, 403-291-3184)
Suite 305
707-10th Ave. SW
Calgary, AB T2R 0B3
4. NUNA M&T Services Ltd. (Pat McHale, 780-434-9114)
9839-31 Avenue
Edmonton, AB T6N 1C5
5. ASC Cargo Charter (Thom Pilgrim, 867-765-0914)
P.O. Box 1807
Yellowknife, NT X1A 2P4

6. Sodexo Canada Ltd. (Steve Josephson, 204- 793-0296)
930 Wellington St. - Suite 100
Montreal, Quebec H3C 1T8
7. Rescan Environmental Services Ltd. (François Landry, 604-689-9460)
6th floor – 1111 West Hastings St.
Vancouver, BC V6E 2J3

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