



STARFIELD RESOURCES INC.

**Nickel-Copper-Cobalt
Platinum-Palladium-Rhodium**

Metals for the future. Metals for a cleaner environment.

TSX: SRU

INVESTOR FACT SHEET

WINTER 2009

Starfield Resources Inc. (Starfield) is an advanced exploration and development stage company focused on its 100%-owned Ferguson Lake property in Nunavut, Canada. With claim blocks spanning over 625,000 acres, and resources containing over 44 million tonnes, the Ferguson Lake project is the largest base metal (nickel-copper-cobalt) and PGE (platinum-palladium-rhodium) project in Nunavut. In addition, the Company has commenced an exploration program for diamonds and other mineral on the remainder of its property. By moving the massive sulphide nickel-copper-cobalt-platinum-palladium discovery towards development, and uncovering value in additional areas of its large land holding, Starfield is well positioned to take advantage of future metal markets.



INVESTMENT HIGHLIGHTS

- 44.2 million tonne copper-nickel-cobalt resource with the potential to quadruple in size
- 153,500 meters drilled in 418 core holes to date
- Emerging PGM mineral deposit with platinum assays of over 1 oz/tonne
- Novel, environmentally friendly, and energy efficient hydrometallurgical process to recover metals
- Diamond discovered in till sample December 2008
- Complete 43-101 report released July 2007
- Scoping Study filed on SEDAR May 2008
- Accomplished management and board

INNOVATIVE TECHNOLOGY FOR CANADA'S FUTURE

Starfield has funded the development of an innovative, environmentally friendly, highly efficient hydrometallurgical extractive process for processing nickel-copper-cobalt sulphide ore.

Process highlights:

- copper and nickel recoveries above 95%
- produces high purity metal, marketable metal compounds, and key industry reagents
- recycles key reagents
- produces excess electrical power
- competitive production costs

MARKET FACTS AS AT 30-NOV-2008

Listing:	TSX: SRU
Shares Outstanding:	323 million
Fully Diluted:	343 million
Cash on Hand:	\$7.2 million
Average Volume (at 28-Jan-09):	891,600





44.2 MILLION TONNE MINERAL RESOURCE ESTIMATE

NEW AIR STRIP COMPLETED SEP/08

WEST ZONE INDICATED RESOURCES						
MAIN WEST ZONE	Tonnes (Mt)	Ni (%)	Cu (%)	Co (%)	Pt (gpt)*	Pd (gpt)*
Pit Area:	8.3	0.71	0.93	0.08	0.24	1.57
Underground:	7.0	0.70	1.17	0.08	0.32	1.74
Total Indicated Resources	15.3	0.71	1.04	0.08	0.28	1.64
PROPERTY-WIDE INFERRED RESOURCES						
ALL ZONES	Tonnes (Mt)	Ni (%)	Cu (%)	Co (%)	Pt (gpt)*	Pd (gpt)*
Main West Zone Pit Area	3.4	0.59	0.71	0.07	0.15	1.20
Main West Zone Underground	1.3	0.64	1.19	0.07	0.36	1.73
Extension West Zone	14.7	0.71	1.23	0.08	0.31	1.88
East Zone	9.5	0.65	0.75	**	**	**
Total Inferred Resources	28.9	0.67	1.01	0.08	0.28	1.75



September 2008: Dash-8 on Take-Off

Notes: Mt = millions of tonnes
 * gpt = grams per metric tonne
 ** Platinum, palladium, and cobalt grades were not estimated for the East Zone as the East Zone contains a higher proportion of historical holes for which cobalt or individual platinum or palladium grades have not yet been determined.



July 2008: Environmental Sampling

SOCIAL & ENVIRONMENTAL COMMITMENTS

Starfield is committed to protecting the lifestyle, heritage and environment in our areas of operations. We work closely with regulatory and government agencies in designing environmental monitoring programs that minimize operational impact.

Equally important to protecting the environment is preserving the knowledge and heritage of the land. In the summer of 2007, Starfield initiated an Inuit Traditional Knowledge study. This study will provide a record of sensitive spiritual and cultural sites traditionally used in the Kivalliq Region of Nunavut.

MANAGEMENT TEAM

- André J. Douchane**
President & CEO
- Greg Van Staveren**
Chief Financial Officer
- Fred Mason**
VP Operations
- Raymond Irwin**
VP Exploration
- Michael G. Moran**
Director of Engineering
- Allison Rippin-Armstrong**
Environmental & Permitting Coordinator
- Denise Lockett**
Community & Public Relations

BOARD OF DIRECTORS

- Norman M. Betts**, *Chairman*
- H. Stuart Bottomley**
- Henry Giegerich**
- Ross Glanville**
- Shirley Mears**
- Ulrich E. Rath**

CORPORATE DIRECTORY

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