

# Midnight Sun Drills New High Grade Mineralization at Mitu

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Vancouver, November 7, 2022 - [Midnight Sun Mining Corp.](#) (TSXV: MMA) (OTCQB: MDNGF) (the "Company" or "Midnight Sun") is pleased to release the initial results from drilling conducted on its Solwezi Licences during 2022. The Solwezi Licences are located immediately southwest of First Quantum's Kansanshi Copper Mine, the largest copper mining complex in Zambia.

## Exploration Highlights

- 12 diamond drill holes, totalling 2,639 metres ("m"), completed to date during 2022
- A new mineralization style intercepted, which is comparable to that at the Kansanshi Mine
- Assay results received for five drill holes. Results include:
  - 4.15m @ 2.28% Cu eq (1.29% Cu & 0.13% Co & 0.09% Ni) from 113.5m
  - 5.80m @ 2.41% Cu eq (1.86% Cu & 0.07% Co & 0.02% Ni) from 119.2m
  - 7.3m @ 0.79% Cu eq (0.58% Cu and 0.02% Co & 0.02% Ni) from 149.0m

## Overview

Midnight Sun's 2022 exploration program was designed to validate and confirm new structural control models for upgraded stratabound copper mineralization in different areas of known mineralization on the Solwezi Licences. The new structural control models were developed in-house following a review and re-interpretation of past exploration work and new high-resolution geophysical data over the project area.

During the 2022 Solwezi field season, Midnight Sun has completed 12 drill holes totaling 2,639 metres of core with two additional drill holes currently in progress. Drilling has been on the Mitu Trend and on the Crunch Zone Prospect. The Company intends to continue field work as long as weather conditions permit. For the balance of the 2022 field season, the Company's work will focus on gaining a better understanding of the newly identified Kansanshi-style mineralization on the Mitu Trend.

Al Fabbro, President and CEO of Midnight Sun, stated, "The start of our 2022 program has accomplished precisely what we hoped for, which is proof of concept. The work completed has revealed a new, prolific style of mineralization at Mitu which is a very exciting find and adds to the already known mineralized potential in the area."

## Targets Tested and Results

### Mitu Trend

The Mitu Trend targets were developed based on the interpretation of airborne magnetic data which highlighted a corridor of intense deformation, about 8 - 10 kilometres wide, that includes numerous northeast-trending structures which are also key to mineralization at the Kansanshi Mine.

Five widely spaced diamond drill holes were completed on the Mitu Trend targeting northeast-trending mineralization settings at two localities within the wider Mitu Trend (Figure 1).

Drill holes MTDD-044 and MTDD-045 are located approximately 500 metres apart and intersected structurally controlled Cu-Co mineralization (Figure 1 & 2) including:

- 4.15m @ 2.28% Cu eq (1.29% Cu & 0.13% Co & 0.09% Ni) from 113.5m, in MTDD-044
- 5.80m @ 2.41% Cu eq (1.86% Cu & 0.07% Co & 0.02% Ni) from 119.2m, in MTDD-044
- 7.30m @ 0.79% Cu eq (0.58% Cu & 0.02% Co & 0.02% Ni) from 149.0m, in MTDD-045

Holes drilled to test the continuity of the historic intercept in hole MDD-17-15 which measured 4.23% CuEq

over 11.6m (see the Company's news release dated July 4, 2017) achieved a technical success, encountering sulphide minerals in fault breccia and the associated alteration zones broadly within the target depth interval. A detailed assessment is underway to assess the complexity of the setting in which this discovery was made.

#### Crunch Zone

The Crunch Zone exploration target is situated between the Kazhiba Dome in the northwest and the Solwezi Dome in the southeast (Figure 1). Based on geophysical data, it appears a northeast trending wedge of Copperbelt strata is 'crunched' between the domes showing interference fold patterns that abruptly terminate against the domal structures. An analysis of the VTEM electromagnetic survey suggest mineralized fluids may have migrated along major faults or thrusts which occurred where the Copperbelt strata encountered the dome structures.

An initial drill program consisting of several drill traverses to test for mineralization as well as determining the rock succession in the contact zones is underway at the Crunch Zone with seven holes completed. No assays from these holes have been received yet.

Figure 1: Geology of Midnight Sun's Solwezi Licences showing the locations of drill holes completed.

To view an enhanced version of Figure 1, please visit:

[https://images.newsfilecorp.com/files/2553/143247\\_59a37415a4169bab\\_001full.jpg](https://images.newsfilecorp.com/files/2553/143247_59a37415a4169bab_001full.jpg)

Figure 2: Drill cores from MTDD-044 (above) and MTDD-045 (below) illustrating the style, setting and alteration associated with copper mineralization at Mitu.

To view an enhanced version of Figure 2, please visit:

[https://images.newsfilecorp.com/files/2553/143247\\_midnightsunfigure2.jpg](https://images.newsfilecorp.com/files/2553/143247_midnightsunfigure2.jpg)

#### Mitu Trend Drilling - Significant Downhole Intercepts

Hole	From (m)	To (m)	Interval (m)	Cu (%)	Co (%)	Nickel (%)	Cu Eq (%)
MTDD043	32.00	34.80	2.80	0.12	0.01	0.20	0.77
MTDD044	9.00	12.00	3.00	0.10	0.00	0.01	0.16
MTDD044	13.15	16.00	2.85	0.12	0.01	0.02	0.24
MTDD044	18.95	31.00	12.05	0.14	0.00	0.02	0.23
MTDD044	51.00	55.00	4.00	0.19	0.02	0.01	0.35
MTDD044	60.00	64.85	4.85	0.46	0.02	0.02	0.69
MTDD044	98.00	110.00	12.00	0.18	0.01	0.02	0.29
MTDD044	113.50	117.65	4.15	1.29	0.13	0.05	2.28
MTDD044	119.20	125.00	5.80	1.86	0.07	0.02	2.41
MTDD045	52.00	57.00	5.00	0.18	0.01	0.09	0.49
MTDD045	146.30	149.00	2.70	0.14	0.01	0.01	0.27
MTDD045	149.00	156.30	7.30	0.58	0.02	0.02	0.79
MTDD045	157.00	168.00	11.00	0.23	0.01	0.01	0.36
MTDD045	171.30	174.00	2.70	0.18	0.05	0.01	0.53

#### Notes:

- Reported intervals are the downhole widths. More structural and orientation data is required to determine true widths.
- Reported intervals are calculated for zones assaying > 0.1% copper or 0.01% cobalt and containing less than 2 meters of internal waste.

- Copper equivalent values are estimated using current metal prices of \$3.50/lb copper, \$23.50/lb cobalt, and \$10.00/lb nickel and are presented for ease of interval comparison only. Metallurgical recovery factors are assumed to be 100% although the recovery factors for various metals may vary significantly.

#### Location of Reported Drill Holes

Hole	East	North	RL	Dip	Azimuth	EOH
CRZDD_001	424175	8647400	1376	-55	100	238.1
CRZDD_002	424257	8647385	1376	-55	100	160.5
CRZDD_003	424077	8647417	1367	-55	110	205
CRZDD_004	423892	8652334	1392	-60	330	168.6
CRZDD_005	423996	8647432	1359	-60	100	281.5
CRZDD_006	423955	8652167	1398	-60	330	211
CRZDD_007	418120	8648817	1352	-60	315	276.55
MTDD_042	431035	8636307	1372	-60	315	242
MTDD_043	431105	8636378	1372	-60	315	215.7
MTDD_044	428016	8638405	1373	-60	315	217
MTDD_045	427611	8638095	1357	-60	315	224.5
MTDD_046	428322	8638090	1370	-60	315	245.1

#### Quality Control/Quality Assurance

Core samples obtained from diamond drilling were transported directly to SGS Inspection Services in Kalulushi, Zambia by Midnight Sun personnel for sample preparation. There the samples were sorted, dried, crushed, and pulped before final chemical analysis using ICP42S method which encompasses a 3 or 4 acid digest followed by an AAS multi-element scan. All samples returning >10,000 ppm Cu were automatically re-assayed for higher level concentrations by SGS, which is a fully accredited laboratory. Standards and blanks were inserted regularly in the sample stream and checks were done for Cu.

Qualified Person: Richard Mazur, P.Ge., a Director of the Company and a Qualified Person under NI 43-101, has reviewed and approved the technical data and contents of this release.

ON BEHALF OF THE BOARD OF [Midnight Sun Mining Corp.](#)

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