Kenorland Minerals Announces Additional Metallurgical Test Results at the Frotet Project

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Vancouver, August 21, 2023 - Kenorland Minerals Ltd. (TSXV: KLD) (OTCQX: KLDCF) (FSE: 3WQ0) ("Kenorland" or the "Company") is pleased to announce the results of additional metallurgical testing of the Regnault gold system ("Regnault") on the Frotet Project (the "Project"), located in northern Quebec and held under joint venture (the "Joint Venture") with Sumitomo Metal Mining Canada Ltd. ("SMMCL").

Metallurgical study highlights include:

Optimized recoveries of up to 93.3% Au and 90.5% Ag for whole ore leaching

Results of the Additional Metallurgical Study

A preliminary metallurgical study at Regnault was initiated in July 2022 with the completion of drill hole 22RDD149 (29.20m at 16.61 g/t Au including 9.85m at 44.89 g/t Au*). The objective was to characterise the amenability of cyanide extraction of Au and Ag. Results of the study, summarised in a press release dated January 18, 2023, indicated promising Au-Ag recoveries, and identified additional steps to further maximize recovery. The follow up study investigated the effects of gravity separation prior to cyanide leaching, finer grinding, and the use of an activator to increase reaction kinetics during cyanide leaching. (*See press release dated November 14, 2022).

When comparing the different flowsheet options investigated for the Regnault style ore, the highest recoveries were realized with optimized whole ore leaching, with 93.3% Au and 90.5% Ag recovered. Combined gravity separation and cyanide leaching were 90.0% for Au and 90.6% Ag. Flotation testing when combined with gravity separation and cyanide leaching were lower than whole ore leaching, at 83.7% Au and 82.1% Ag. Compared to the whole ore leaching process the amount of cyanide contact material that would be reduced by flotation is 5.8% and cyanide consumption is reduced by 65.0%. These results indicate that the Regnault style ore is amenable to conventional cyanide leaching with recoveries of up to 93.3% Au and 90.5% Ag.

Details of the Metallurgical Study

Material from the original program (27.1m of NQ half drill core from 22RDD149) was used for the additional testing. Samples were crushed to under 1.7mm and thoroughly mixed. 1kg samples were split for head assay and various metallurgical testing. The composite head grade was 15.9 g/t Au and 24 g/t Ag. Mineral liberation analysis (MLA) identified gold-silver-telluride, electrum and native gold as the main gold and silver bearing mineral species.

The effects of grinding size on whole ore leaching from the preliminary study showed the highest Au recoveries (up to 89.9%) when decreasing grind size from baseline 100 μ m to 75 μ m. Testing from the follow up study reduced grind size to 50 μ m, increasing recoveries up to 91.8% for Au and 76.3% for Ag.

Whole ore leaching targeting 100µm grind size with the addition of extraction accelerators lead nitrate, sodium citrate, and slaked lime were investigated to improve reaction kinetics. Compared to baseline conditions, addition of sodium citrate increased Au recovery to 88.4% while the other reagents did not increase Au recoveries. Addition of any of the three accelerators resulted in increased Ag recovery, ranging from 71.9-85.0%.

Parameters of the whole ore leaching process that showed the most promise for maximizing recoveries were

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combined. Testing targeted 50µm in P80 grind size, leaching duration of 72hrs, 1.0 g/L NaCN concentration, increased pH of 12.5, dissolved oxygen content of 33-38 mg/L and addition of sodium citrate as an accelerator. This resulted in recoveries of 93.3% Au and 90.5% Ag, a marked increase when compared to initial study baseline conditions of 85.0-88.7% Au and 63.2-69.8% Ag.

Table 1: Summary of follow-up metallurgical study results

	Preliminary Study*				Follo	Followup Study - Whole Ore Leaching					Stu	
	Baseline				Finer	Finer grind With Accelerator					Gravity Cond	
Test ID	W01	W04	80W	W13	W18	W19	W16	W17	W20	KCL01	KC	
Accelerator							Lead nitrate	Slaked lime	e Sodium citrate)		
Grinding Size (P80, µm)	100	100	100	100	50	50	100	100	100	100	20	
Mass Recovery (%)										1.4	2.0	
NaCN Concentration (g/L)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	25	25	
Dissolved O ₂ Concentration (mg/L)	8-9	8-9	8-9	8-9	8-10	8-9	9-10	9-10	8-10	9-9.5	9-9	
Leaching Duration (hrs)	48	48	72	72	48	48	48	48	48	24	24	
NaCN Consumption (kg/t)	1.1	1.5	1.7	1.7	1.7	1.7	1.6	1.1	1.5	22.7	22	
Au Calc. Feed/Conc Assay (g/t)	14.8	14.4	15.7	14.2	13.9	14.6	13	13.3	14.6	297	17	
Ag Calc. Feed/Conc Assay (g/t)	22	24	24	24	21	21	20	20	24	326	17	
Per Unit Au Extraction (%)										95.5	91	
Per Unit Ag Extraction (%)										91.7	84	
Total Au Extraction (%)	85.0	86.4	87.6	88.7	90.0	91.8	85.3	85.7	88.4			
Total Ag Extraction (%)	63.2	67.7	72.1	69.8	76.3	76.0	74.6	85.0	83.2			

^{*}calculated combined recoveries of gravity concentrate-leaching, gravity tailing-leaching

Gravity separation was investigated for the possibility of treating in a separate process. A 1kg sample split was ground to target grain sizes of 100µm, 200µm and 300µm in P80. The product was diluted and fed to a Knelson concentrator. Recoveries in the gravity concentrate were highest with the 100µm in P80 fraction at 30.2% for Au and 21.3% for Ag with a 1.4% mass recovery. The gravity concentrate was then subjected to intensive cyanide leaching, where Au and Ag recoveries were 95.5% and 91.7% on a per unit basis of the concentrate. The gravity tailing was also subjected to cyanide leaching, where recoveries of up to 86.0% Au and 88.4% Ag were realized. The combined effects of the gravity separation, intensive cyanide leaching of the concentrate and baseline leaching of the gravity tailing resulted in recoveries of 90.0% Au and 90.6% Ag.

For flotation testing, grinding of a 1kg split to target 75µm and 50µm in P80 was placed in a Denver flotation machine and pre-conditioned. Flotation time was split over 3, 7, 15, and 35 minutes, and the effect of higher pH and addition of thiophosphate type collector was investigated. Recoveries from the 50µm feed size were highest at 83.1% Au and 83.9% Ag with rougher concentrate mass recovery at 7.5%, recovery plateauing at 35 minutes flotation time. Recoveries improved marginally under higher pH conditions, while the addition of thiophosphate type collector did not appreciably improve recovery. The combined effect of gravity concentrate leaching, gravity tailing flotation and subsequent leaching was calculated at total recoveries of 83.7% for Au and 82.1% for Ag.

About the Frotet Project

The Frotet Project was first identified by Kenorland in 2017 after completing a regional prospectivity study over the Abitibi and Frotet-Evans Greenstone Belts of Quebec. The initial 55,921 ha property was acquired through map staking in March 2017 and optioned to Sumitomo Metal Mining Canada Ltd. ("SMMCL"), a wholly owned subsidiary of Sumitomo Metal Mining Co., Ltd. in April 2018. Two years of property-wide systematic till sampling led to a maiden drill program in 2020 which resulted in a significant grassroots discovery at the prospect now named Regnault. The Project is currently under a joint venture agreement between SMMCL and Kenorland Minerals Ltd., with interests being held at 80% and 20%, respectively. Under the joint venture, exploration is funded pro-rata and Kenorland is presently the operator of the Project. Any party which does not contribute and is diluted below a 10% interest, converts its interest to a 2% uncapped net smelter royalty.

Qualified Person

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^{**}calculated combined recoveries of gravity concetrate-leaching, gravity tailing flotation, leaching

Cédric Mayer, M.Sc., P.Geo. (OGQ #02385), "Qualified Person" under National Instrument 43-101, has reviewed and approved the scientific and technical information in this press release.

About Kenorland Minerals Ltd.

Kenorland Minerals Ltd. (TSXV: KLD) is a mineral exploration company incorporated under the laws of the Province of British Columbia and based in Vancouver, British Columbia, Canada. Kenorland's focus is early to advanced stage exploration in North America. The Company currently holds five projects in Quebec where work is being completed under joint venture and earn-in agreements from third parties. The Frotet Project and Chicobi Project are held under joint venture with Sumitomo, the O'Sullivan Project is optioned to Sumitomo, the Chebistuan Project is optioned to Newmont Corporation and the Hunter Project is held under option to Centerra Gold Inc. In Alaska, the Company holds the advanced stage Tanacross porphyry Cu-Au-Mo project, optioned to Antofagasta, as well as a 70% interest in the Healy Project, held under joint venture with Newmont Corporation.

Further information can be found on the Company's website www.kenorlandminerals.com.

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