Discovery Reports Exceptional Results from its Pre-Feasibility Study Metallurgical Test Program

August 29, 2022, Toronto, Ontario - Discovery Silver Corp. (TSX-V: DSV, OTCQX: DSVSF) ("Discovery" or the "Company" - <u>https://www.commodity-tv.com/ondemand/companies/profil/discovery-metals-corp/</u>) is pleased to announce results from its Pre-Feasibility Study ("PFS") metallurgical test program on representative samples from its Cordero project ("Cordero" or "the Project") located in Chihuahua State, Mexico. This program represents the most comprehensive test work completed on Cordero to date. Highlights from the locked-cycle flotation test work include:

- Silver recoveries of 94-98%, lead recoveries of 89-97% and zinc recoveries of 92-96% on high grade samples of all major rock types.
- Silver recoveries of 83-92%, lead recoveries of 85-92% and zinc recoveries of 81-89% on medium grade samples of blended rock types.
- Oxide-sulphide blend testwork establish oxide-specific recoveries of ~60% for silver, ~40% for lead and ~85% for zinc via flotation; co-processing oxide mineralized material via flotation eliminates the need for heap leach processing at Cordero.
- Test work overall confirmed higher recoveries than what was assumed in the 2021 Preliminary Economic Assessment ("PEA").
- All tests were completed at a coarse grind size of p80 passing ~210 micron and demonstrated significantly lower reagent consumption than assumed in the PEA.
- Saleable concentrate grades confirmed and levels of penalty elements for concentrates were insignificant.

Tony Makuch, Interim CEO, states: "Our PFS metallurgical test results demonstrate the exceptional metallurgical properties of our Cordero deposit. Recoveries typically ranged from 85-95% at an extremely coarse grind size of ~210 micron. On average sulphide recoveries came in higher than what was assumed in our PEA and were achieved at significantly reduced reagent consumption highlighting the potential for reduced operating costs for our PFS.

"In addition, our first ever flotation testwork of an oxide-sulphide blend returned very positive results with economic recoveries for oxide mineralization for silver, lead and zinc through flotation. These results allow for the elimination of the heap leach circuit in our PFS; this will streamline the crushing/grinding circuit, reduce upfront capital expenditures and simplify the permitting process."

PFS METALLURGICAL TEST PROGRAM

Summary: the PFS metallurgical test program was designed to supplement the detailed metallurgical test program completed in 2021 and included the Company's first ever testing of rock type blends, high-grade samples (+100 g/t AgEq) and oxide-sulphide blends. Test work was also focused on optimizing reagent usage. All test work was completed at a coarse grind size of ~210 micron.

Results from the 14 locked cycle tests are summarized in the table below. Recoveries from these tests were higher than the recoveries assumed in the 2021 PEA and were achieved at lower reagent consumptions. Further details including recoveries broken out by concentrate type and head grade vs recovery plots for both our PEA and PFS metallurgical test programs can be found in the appendices. The testwork was conducted by Blue Coast Research Ltd. ("Blue Coast"), an independent third party, with oversight from Libertas Metallurgy Ltd. ("Libertas") and Ausenco Engineering Canada Inc. ("Ausenco").

			Hood	Grade	Lead + Zinc Circuit			
Test Type	Rock Type / Sample Location		neau	Glaue	Recovery to Concentrate			
		Ag	Pb	Zn	AgEq	Ag	Pb	Zn
		(g/t)	(%)	(%)	(g/t)	(%)	(%)	(%)
	Breccia	252	3.8	2.6	462	97	96	93
Llich Crode	Volcanic	71	1.9	5.1	319	98	97	92
High-Grade	Volcanic	46	0.9	2.1	151	94	93	96
	Sedimentary	41	0.8	1.6	128	94	89	93
	Starter Pit	37	0.6	0.6	76	92	92	89
Rock Type	NE Extension	29	0.5	0.7	70	90	90	84
Blend	South Corridor	33	0.4	0.8	76	83	85	85
	Run of Mine	33	0.5	0.8	76	87	89	81
Low-Grade	Volcanic	10	0.1	0.2	21	43	64	62
	Breccia	30	0.3	0.1	44	76	87	64
10% Oxide / 90% Sulphide Blend	Starter Pit	40	0.5	0.5	76	86	84	89
	NE Extension	29	0.5	0.6	66	87	86	88
	South Corridor	33	0.4	0.7	71	81	80	88
	Run of Mine	35	0.5	0.7	74	84	84	88

High-grade samples: four locked cycle tests were completed on high-grade samples (+100 g/t AgEq) of the major rock types. Recoveries averaged 95% for silver, 94% for lead and 94% for zinc. These recoveries were on average approximately 7% higher than the recoveries for the medium-grade samples (50-100 g/t AgEq) confirming a positive relationship between head grade and recovery.

Rock type blends: four locked cycle tests were completed on a blend of the major rock types at Cordero (volcanic, breccia & sedimentary rocks). The blend ratios were based on the expected proportions of mill feed from different parts of the deposit. Three of the four tests returned higher than expected recoveries confirming the potential for positive synergies through blending of the different rock types. Further testwork will be completed on understanding and quantifying these synergies in more detail as part of the Company's feasibility study test program.

Oxide-sulphide blends: four locked cycle tests of oxide-sulphide blends (~10% oxides / ~90% sulphides) returned implied average recoveries for oxide mineralization through flotation of approximately 60% for Ag, 40% for Pb and 85% for Zn. These recoveries can most likely be attributed to the presence of sulphide mineralization (galena and sphalerite) in the oxide layer as identified by preliminary mineralogical analysis.

Based on these results the PFS will assume blending of oxides with sulphides in the flotation circuit. This is a very positive development as it will reduce upfront capital expenditures through the complete elimination of the heap leach circuit as well as simplify the process design through reducing the crushing circuit from three stages to a single stage. It is also expected to streamline the permitting process as it eliminates the use of cyanide at the Project.

Comminution:

The below comminution testwork was completed as part of the PFS test program. Results were mostly consistent with the comminution results from the PEA test program.

- Bond ball work index (BWI) ranged from 14.3 to 23.1 kWh/tonne across 33 samples with an overall average of 19.0 kWh/tonne (metric)
- Bond rod mill grindability (RWI) ranged from 12.6 to 16.0 kWh/tonne across ten samples with an overall average of 14.4 kWh/tonne (metric)
- Bond abrasion index (Ai) ranged from 0.17 to 0.97 g across ten samples with an overall average of 0.57 g

Concentrate analysis:

Saleable concentrate grades for both lead (>40% lead and >1,500 g/t silver) and zinc (>50% zinc) concentrates were readily achieved while the level of penalty elements was low (see table directly below) confirming excellent saleability of both concentrates.

Element	Median Grade ¹	Penalty Threshold ²				
Lead Concentrate:						
As	0.31%	0.50%				
Sb	0.43%	0.50%				
Нg	12 ppm	100 ppm				

CI+F	200 ppm	500 ppm			
Zinc Concentrate:	· · ·				
As	0.14%	0.30%			
Fe	7.00%	8.00%			
Cd	0.50%	0.30%			
SiO ₂	3.15%	3.50%			
Hg	15 ppm	100 ppm			
CI+F	300 ppm	500 ppm			
Mn	0.95%	0.50%			

¹Median grade was calculated as the median of the concentrates from the 14 locked cycle tests in the PFS test program and the four locked cycle tests from the PEA test program

² Penalty thresholds vary between smelters; the thresholds listed above are representative of common thresholds typically applied on lead and zinc concentrates

PROCESS DESIGN

The process design for the PFS will incorporate staged expansions. The first phase will incorporate single stage semi-autogenous ("SAG") milling consisting of a single primary gyratory crusher, single SAG mill and flotation circuit. This configuration is a common design with the advantages of being capital efficient and providing expansion flexibility. The planned throughput rate of this initial phase is expected to be approximately 25,000 tonnes per day ("tpd").

The second phase of the mill expansion will include the addition of a ball mill and parallel flotation circuit. The planned throughput rate of this expanded phase is expected to be approximately 50,000 tpd.

The proposed process design for the PFS is much simpler and significantly more streamlined in comparison to the process design assumed in the PEA with the elimination of the heap leach circuit and the secondary and tertiary crushing circuits. A proposed flowsheet of the updated process design can be found in Figure D in the appendices.

About Discovery

Discovery's flagship project is its 100%-owned Cordero project, one of the world's largest silver deposits. The PEA completed in November 2021 demonstrates that Cordero has the potential to be developed into a highly capital efficient mine that offers the combination of margin, size and scalability. Cordero is located close to infrastructure in a prolific mining belt in Chihuahua State, Mexico. Continued exploration and project development at Cordero is supported by a strong balance sheet with cash of approximately C\$60 million.

On Behalf of the Board of Directors,

Tony Makuch

Interim Chief Executive Officer and Director *For further information contact:*

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Qualified Person

Gernot Wober, P.Geo, VP Exploration, Discovery Silver Corp., is the Company's designated Qualified Person for this news release within the meaning of National Instrument 43-101 Standards of Disclosure for Mineral Projects ("NI 43-101") and has reviewed and validated that the information contained in this news release is accurate.

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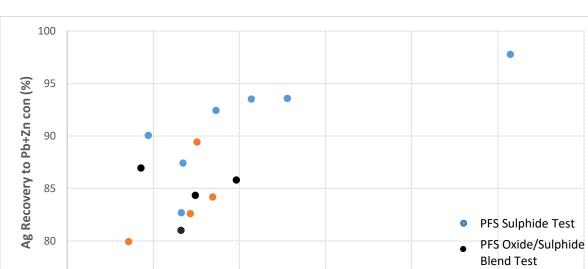
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This news release may include forward-looking statements that are subject to inherent risks and uncertainties. All statements within this news release, other than statements of historical fact, are to be considered forward looking statements. Forward-looking statements including, but not limited to Discovery's future plans and objectives regarding the Cordero Project and the prospect of further discoveries there, which constitute forward looking information that involve various risks and uncertainties. Although Discovery believes the expectations expressed in such forward-looking statements are based on reasonable assumptions, such statements are not guarantees of future performance and actual results or developments may differ materially from those described in forward-looking statements. Factors that could cause actual results to differ materially from those described in forward-looking statements include fluctuations in market prices, including metal prices, continued availability of capital and financing, and general economic, market or business conditions. There can be no assurances that such statements will prove any obligation to update any forward-looking statements except as required under applicable laws.

APPENDICES

TABLE 1 – PFS Locked Cycle Test Results

Test Type	Rock Type / Sample Location	Head Grade			Lead Circuit				Zinc Circuit				
					Recovery to Concentrate		Concentrate Grade		Recovery to Concentrate		Concentrate Grade		
		Ag	Pb	Zn	AgEq	Ag	Pb	Ag	Pb	Ag	Zn	Ag	Zn
		(g/t)	(%)	(%)	(g/t)	(%)	(%)	(g/t)	(%)	(%)	(%)	(g/t)	(%)
- High-Grade -	Breccia	252	3.8	2.6	462	93	96	4,634	73	4	93	219	52
	Volcanic	71	1.9	5.1	319	91	97	2,518	72	6	92	55	57
	Volcanic	46	0.9	2.1	151	86	93	3,270	69	8	96	100	56
	Sedimentary	41	0.8	1.6	128	81	89	2,395	53	13	96	182	53
Rock Type Blend	Starter Pit	37	0.6	0.6	76	85	92	3,516	57	7	89	287	53
	NE Extension	29	0.5	0.7	70	81	90	3,085	61	10	84	249	51
	South Corridor	33	0.4	0.8	76	65	85	2,868	44	18	85	446	53
	Run of Mine	33	0.5	0.8	76	75	89	3,643	62	12	81	385	59
Low-Grade	Volcanic	10	0.1	0.2	21	26	64	712	19	17	62	550	34
	Breccia	30	0.3	0.1	44	69	87	4,277	52	7	64	1,042	46
10% Oxide / 90% Sulphide Blend	Starter Pit	40	0.5	0.5	76	78	84	3,694	57	7	89	321	52
	NE Extension	29	0.5	0.6	66	78	86	3,250	61	9	87	255	54
	South Corridor	33	0.4	0.7	71	65	80	3,369	49	16	88	434	52
	Run of Mine	35	0.5	0.7	74	73	84	3,506	54	11	88	335	51



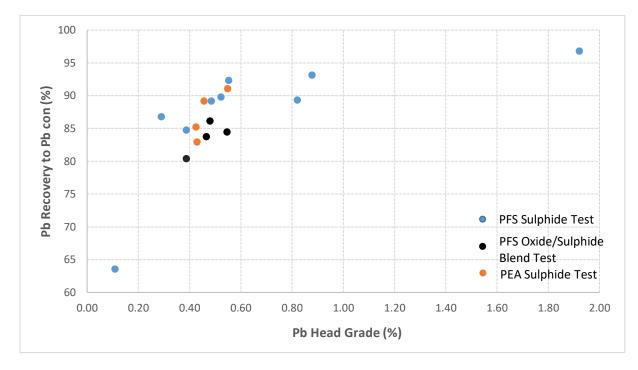
Ag Head Grade (g/t)

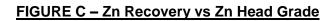
PEA Sulphide Test

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FIGURE A – Global Ag Recovery vs Ag Head Grade

FIGURE B – Pb Recovery vs Pb Head Grade





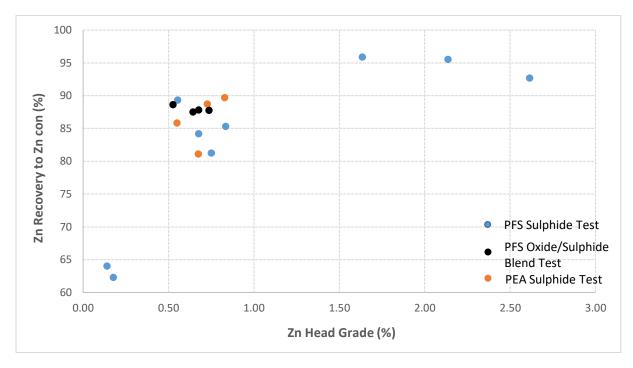


FIGURE D – PROPOSED PFS PROCESS DESIGN

