

# Outcrop Silver Achieves Exceptional Recovery Of 96.3% Silver And 98.5% Gold In Updated Metallurgical Testing At Santa Ana

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VANCOUVER, June 25, 2024 - [Outcrop Silver & Gold Corp.](#) (TSXV: OCG) (OTCQX: OCGSF) (DE: MRG) ("Outcrop Silver") is pleased to announce significant improvements in gold and silver recovery following metallurgical testing at its flagship Santa Ana project. This recent comprehensive test work, a follow-up to previous flotation-only and gravimetric-only tests (see news release dated August 23, 2023, and April 22, 2024), combined gravimetric separation followed by flotation of the gravimetric tailings. The results demonstrated remarkable recovery rates of 96.3% for silver and 98.5% for gold.

## Key Highlights:

- **High-Efficiency Recovery:** The integrated gravimetric and flotation test work resulted in an overall recovery of 96.3% for silver and 98.5% for gold, setting a new benchmark for the project.
- **Initial Gravimetric Concentration:** The gravimetric process alone recovered 7.6% of silver and 35.8% of gold, with the gravimetric concentrate assaying at 2,883 g/t silver and 164 g/t gold.
- **Subsequent Flotation Recovery:** Flotation of gravimetric tails recovered an additional 88.6% of the remaining silver and 62.7% of the remaining gold, with rougher concentrate grades reaching 4,356 g/t silver and 37.5 g/t gold.
- **Unique Mineralogy:** The process highlights the project's distinctive mineral composition where 88% of the silver is in the form of argentite—a silver sulfide which is amenable to flotation, enhancing recoverability and high-grade concentrates.

"The exceptional recoveries of both silver and gold at the Santa Ana project, achieved through environmentally conscious processing, underscore the uniqueness of Santa Ana as one of the world's highest-grade undeveloped primary silver deposits. Our ability to achieve incredible recovery rates and produce high-grade concentrates demonstrates the project's efficiency in extracting significant value from the ground," comments Ian Harris, President and CEO. "This significantly de-risks the Santa Ana project, which is very promising as we continue our drilling operations to potentially expand the existing resources dramatically."

## Sample Preparation and Previous tests

Outcrop Silver commenced its metallurgical test program by preparing four core sample composites using coarse labor (see news release dated February 23, 2022). Two samples for each vein as follow: samples POR-01 and POR-02 for the Porculla vein and samples PAR-01 and PAR-02 for Paraiso vein. Each composite weighed approximately 50 kilograms, and represented two metallurgical domains: high-grade and low-grade. The high-grade composites represent the average grade in the ore body while the low-grade represents Outcrop Silver's "significant result" threshold. The final locked cycle flotation metallurgical results for sample PAR-02 demonstrated an exceptional recovery rate, achieving 97.14% for gold and 92.85% for silver. The process produced a high-grade concentrate grading of 128.74 grams per tonne of gold and 9,488 grams per tonne of silver (see News Release dated August 23, 2023).

## Gravimetric Concentration Tests

The gravimetric concentration tests on the PAR-02 sample from Paraiso vein were performed at SGS Metallurgical Services Peru utilizing a Falcon Gravity Concentrator, resulting in recovery rates of 30.52% for gold and 7.3% for silver (see News Release dated April 22, 2024).

## Sequential Gravimetric and Flotation Concentration Tests

The conventional open cycle flotation was applied to the general tails from the gravimetric concentration test following the conditions from the previous flotation tests (see News Release dated August 23, 2023) as main guidelines (Figure 1). SGS Metallurgical Services Peru executed this program with all analyses performed at SGS Geochemical Services Laboratory in Lima, Peru.

The Rougher flotation concentrate returned grades of 4,357 grams per tonne of silver and 37.47 grams per tonne of gold for 88.64% and 62.74% recoveries, respectively (Table 2). Together with the gravimetric concentration results, the current test work achieved a remarkable global recovery of 96.28% for silver and 98.52% for gold (Table 1), confirming Outcrop Silver's goal of maximizing metallurgical recoveries by combining physical methods on the mineralized material from Santa Ana project.

Product	Grades					Recoveries			
	Mass %	Ag g/t	Au g/t	Fe %	S %	Ag %	Au %	Fe %	S %
Gravimetric Conc.	1.31	2,883	164.12	16.66	17.60	7.64	35.79	3.26	6.30
Rougher Conc.	10.04	4,357	37.47	26.48	31.69	88.64	62.74	39.80	87.14
Global	11.35	4,187	52.07	25.35	30.07	96.28	98.52	43.06	93.45
Tails	88.65	21	0.10	4.29	0.27	3.72	1.48	56.94	6.55
Calculated Head	100.00	494	6.00	6.68	3.65	100.00	100.00	100.00	100.00
Assayed Head		539	6.67	6.94	3.52				

Table 1. Summary of Global Metallurgical Balance.

Product	Mass %	Grades				Recoveries			
		Ag g/t	Au g/t	Fe %	S %	Ag %	Au %	Fe %	S %
Gravimetric Concentrate	1.31	2883	164.12	16.66	17.60	7.64	35.79	3.26	6.30
Gravimetric tails	98.69	486	4.41	6.72	3.39	92.36	64.21	96.74	93.70
Rougher Concentrate	10.04	4357	37.47	26.48	31.69	88.64	62.74	39.80	87.14
Cleaner Concentrate III	3.49	8590	82.54	37.98	50.04	60.75	48.03	19.84	47.83
Medium III	1.81	5139	40.03	35.72	47.89	18.86	12.08	9.68	23.75
Medium II	0.89	1427	5.97	19.59	20.04	2.58	0.89	2.62	4.90
Scavenger Concentrate	0.77	2465	6.60	26.19	28.67	3.83	0.84	3.00	6.02
Scavenger tails	3.08	421	1.73	10.10	5.51	2.63	0.89	4.66	4.65
General Tails	88.65	21	0.10	4.29	0.27	3.72	1.48	56.94	6.55
Calculated Head	100.00	494	6.00	6.68	3.65	100.00	100.00	100.00	100.00
Assayed Head		539	6.67	6.94	3.52				

Table 2. Summary of Global Metallurgical Balance.

#### Qualified Person

Edwin Naranjo Sierra is the designated Qualified Person for this news release within the meaning of the National Instrument 43-101 (NI 43-101) and has reviewed and verified the technical information in this news release. Mr. Naranjo holds a MSc. in Earth Sciences, and is a Fellow of the Australasian Institute of Mining and Metallurgy (FAusIMM) and the Society of Economic Geologist.

#### About Santa Ana

The 100% owned Santa Ana project covers 27,000 hectares within the Mariquita District, known as the

largest and highest-grade primary silver district in Colombia with mining records dating back to 1585.

Santa Ana's maiden resource estimate, detailed in the NI 43-101 Technical Report titled "Santa Ana Property Mineral Resource Estimate," dated June 8, 2023, prepared by AMC Mining Consultants, indicates an estimated indicated resource of 24.2 million ounces silver equivalent at a grade of 614 grams per tonne and an inferred resource of 13.5 million ounces at a grade of 435 grams per tonne. The identified resources span seven major vein systems that include multiple parallel veins and ore shoots: Santa Ana (San Antonio, Roberto Tovar, San Juan shoots); La Porfia (La Ivana); El Dorado (El Dorado, La Abeja shoots); Paraiso (Megapozo); Las Maras; Los Naranjos, and La Isabela.

The 2024 drilling campaign aims to extend known mineralization and test new high-potential areas along the project's extensive 30 kilometres of strike. These efforts underscore the scalability of Santa Ana and its potential for substantial resource growth, positioning the project to develop into a high-grade, economically viable, and environmentally responsible silver mine.

#### About Outcrop Silver

Outcrop Silver is a leading explorer and developer focused on advancing its flagship Santa Ana high-grade silver project in Colombia. Leveraging a disciplined and seasoned team of professionals with decades of experience in the region. Outcrop Silver is dedicated to expanding current mineral resources through strategic exploration initiatives.

At the core of our operations is a commitment to responsible mining practices and community engagement, underscoring our approach to sustainable development. Our expertise in navigating complex geological and market conditions enables us to consistently identify and capitalize on opportunities to enhance shareholder value. With a deep understanding of the Colombian mining landscape and a track record of successful exploration, Outcrop Silver is poised to transform the Santa Ana project into a significant silver producer, contributing positively to the local economy and setting new standards in the mining industry.

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