

Laurion Mineral Exploration Inc. Announces High-Grade Gold Intercepts of 5.25 m grading 7.29 g/t Au

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Including 0.50 m grading 68.50 g/t Au, and 1.95 m grading 2.370 g/t Au, including 0.95 m @ 4.50 g/t Au in the 2024 Fall Drill Campaign at Ishkoday Project

[Laurion Mineral Exploration Inc.](#) (TSX-V: LME) (OTC: LMEFF) ("LAURION" or the "Corporation") is pleased to announce the results from the last three drill holes from the Corporation's previously-announced 2024 Fall drilling campaign, totaling 3,291 metres (7 holes), at the Ishkoday Project, which is located 220 km northeast of Thunder Bay, in Greenstone, Ontario.

"The latest results confirm significant mineralization, including high-grade gold intercepts, underscoring the Ishkoday Project's potential. The Ishkoday Project covers an extensive and highly promising area of 57 square kilometres. Our latest drill results from the Ishkoday Project are a testament to the continuity and consistency of gold mineralization within structurally controlled quartz vein systems," stated Cynthia Le Sueur-Aquin, President and CEO of LAURION. "Notable highlights include 17.47 g/t Au over 1.20 m, including 37.70 g/t Au over 0.50 m in LME24-055, as well as 6.60 g/t Au over 1.00 m within a broader interval of 3.50 m grading 2.08 g/t Au in LME24-049. We believe that these results underscore the high-grade potential of our mineralized veins and provide further insight into the complex structural framework at Ishkoday. We remain committed to advancing this project with a strategic and systematic approach, refining our geological models and working to identify additional high-grade zones to unlock the full potential of the Ishkoday Project."

0.1 Highlights of Drill Results:

0.1.1 LME24-050

- 675.80 - 676.30 m: 0.50 m grading 11.25 g/t Au.
- 57.00 - 58.00 m: 0.95 m grading 3.02 g/t Au.
- 175.20 - 175.70 m: 0.50 m grading 3.30 g/t Au.
- 649.05 - 651.00 m: 1.95 m grading 2.37 g/t Au, including 0.95 m @ 4.50 g/t Au.
- 505.00 - 506.20 m: 1.20 m grading 1.67 g/t Au, including 0.65 m @ 2.97 g/t Au.

0.1.2 LME24-052

- 32.00 - 37.25 m: 5.25 m grading 7.29 g/t Au, including 32.50 - 33.00 m 0.50 m grading 68.50 g/t Au.
- 131.35 - 132.35 m: 1.00 m grading 0.69 g/t Au, including 31.35 - 131.85 m 0.50 m grading 0.96 g/t Au.
- 155.30 - 156.80 m: 1.50 m grading 0.54 g/t Au, including 155.30 - 155.80 m 0.50 m grading 0.84 g/t Au.
- 230.20 - 230.70 m: 0.50 m grading 0.67 g/t Au.

0.1.3 LME24-054

- 64.50 - 65.00 m: 0.50 m grading 0.95 g/t Au.

- 608.00 - 608.50 m: 0.50 m grading 1.34 g/t Au.
- 725.20 - 726.40 m: 1.20 m grading 3.11 g/t Au, including 725.70 - 725.70 m: 0.50 m grading 6.67 g/t Au.
- 801.00 - 802.00 m: 1.00 m grading 0.23 g/t Au.

The Fall 2024 drilling program at the Ishkōday Project expanded the strike length of the Sturgeon River Mine Corridor from 900 m to 1,100 m, targeting 12 distinct gold-bearing veins. Drill hole LME24-050 tested the northern extents of the No. 1, No. 2, No. 3, and Coniagas veins, reaching a length of 675 m at an azimuth of 110° and dip of -60°.

Hole ID	From (m)	To (m)	Core Length (m)	Au (g/t)
LME24-050	55.90	59.40	3.50	1.81
including	57.05	58.00	0.95	3.02
LME24-050	70.15	71.00	0.85	0.33
LME24-050	135.00	135.50	0.50	0.85
LME24-050	175.20	176.40	1.20	2.49
including	175.20	175.70	0.50	3.30
LME24-050	191.40	191.90	0.50	1.10
LME24-050	234.40	235.40	1.00	0.49
LME24-050	349.10	349.60	0.50	1.56
LME24-050	352.00	352.50	0.50	0.39
LME24-050	396.00	397.65	1.65	1.23
including	396.00	396.90	0.90	1.51
LME24-050	423.50	424.30	0.80	0.35
LME24-050	434.60	435.50	0.90	0.85
LME24-050	505.00	506.20	1.20	0.62
LME24-050	520.75	521.25	0.50	0.46
LME24-050	594.45	595.25	0.80	0.32
LME24-050	627.70	628.40	0.70	0.37
LME24-050	643.70	645.30	1.60	0.30
including	643.70	644.30	0.60	0.70
LME24-050	648.50	651.00	2.50	1.12
including	649.05	650.00	0.95	2.37
LME24-050	675.80	676.30	0.50	11.25

Drill hole LME24-052 targeted the M24 and M25 veins to gather downhole information, thus refining the

trajectory for drill hole LME24-053. This hole reached a length of 240 m at an azimuth of 150° and dip of -45°. Collectively, these targeted drilling efforts contribute to the advancement of the Ishkōday Project and its long-term development potential.

Hole ID	From (m)	To (m)	Core Length (m)	Au (g/t)
LME24-052	32.00	37.25	5.25	7.29
including	32.50	33.00	0.50	68.50
including	34.00	37.25	3.25	1.13
LME24-052	66.40	67.00	0.60	0.37
LME24-052	97.50	98.40	0.90	0.76
LME24-052	129.40	129.90	0.50	0.42
LME24-052	131.35	132.35	1.00	0.69
including	131.35	131.85	0.50	0.96
LME24-052	134.00	135.00	1.00	0.46
LME24-052	155.30	156.50	1.20	0.54
including	155.30	155.80	0.50	0.80
LME24-052	194.50	195.60	1.10	0.39
including	194.50	195.00	0.50	0.72
LME24-052	230.20	231.70	1.50	0.32
including	230.20	230.70	0.50	0.67

Drill hole LME24-054 focused on the southernmost extent of the corridor, testing the M21 vein, the newly discovered Q vein, and other key veins, reaching a final length of 815 m at an azimuth of 115° and dip of -60°.

Hole ID	From (m)	To (m)	Core Length (m)	Au (g/t)
LME24-054	18.90	19.50	0.60	0.48
LME24-054	64.50	65.00	0.50	0.95
LME24-054	415.80	416.50	0.70	0.18
LME24-054	417.65	418.15	0.50	0.35
LME24-054	608.00	608.50	0.50	1.34
LME24-054	679.00	680.00	1.00	0.12
LME24-054	725.20	726.40	1.20	3.11
including	725.20	725.70	0.50	6.67
LME24-054				

761.65

762.20

LME24-054	796.35	797.00	0.65	0.32
LME24-054	801.00	802.00	1.00	0.23

0.2 Exploration Significance

Within this property, LAURION's focused drilling and fieldwork efforts have outlined a key mineralization hosting corridor measuring 6 kilometres in length and 2.5 kilometres in width, comprising approximately 26.3% of the entire project area. The dimension of this corridor highlights the significant scale and potential of the project.

The recent drilling program focussed on quartz veins and shear zones in previously undrilled areas northeast and southwest of the Sturgeon River Mine Shaft. These zones were uncovered and validated during the Corporation's Summer 2024 Field Program through detailed stripping and channel sampling. Prioritized for the Fall 2024 Drill Program, the initial results have uncovered notable mineralized intervals, thereby shedding light on the geological structures of these newly identified zones, expanding the Corporation's understanding of the Ishkōday Project's mineral potential, and increasing the Sturgeon River Mine mineralized area.

These findings emphasize the high-grade potential of the mineralized veins and enhance our understanding of the complex structural framework at Ishkōday. LAURION remains focused on refining its geological models and delineating further high-grade zones as part of its systematic exploration approach. From LAURION's perspective, the 2024 Fall Drill Program has further advanced the Ishkōday Project toward the long-term development goals of the Corporation.

Sampling and QA/QC Protocols

All drill core is transported and stored inside the core facility located at the Ishkōday Project in Greenstone, Ontario. LAURION employs an industry standard system of external standards, blanks and duplicates for all of its sampling, in addition to the QA/QC protocol employed by the laboratory. After logging, core samples were identified and then cut in half along core axis in the same building, and then zip tied individually in plastic sample bags with a bar code. Approximately five or six of these individual bags were then stacked into a "rice" white material bag and stored on a skid for final shipment to the laboratory. All core samples were shipped to the ALS facility in Thunder Bay, which were then prepared by ALS Global Geochemistry in Thunder Bay and analyzed by ALS Global Analytical Lab in North Vancouver, British Columbia. Samples are processed by 4-acid digestion and analyzed by fire assay on 50 g pulps and ICP-AES (Inductively-Coupled Plasma - Atomic Element-Spectroscopy). Over limit analyses are reprocessed with gravimetric finish. A total of 5% blanks and 5% standard are inserted randomly within all samples. 5% of the best assay result pulps were sent for re-assays. All QA/QC were verified, and no contamination or bias have been observed. The remaining half of the core, as well as the unsampled core, have been stored in temporary core racks at the core logging facility in Beardmore. The core will be moved to the core storage facility at the Ishkōday Project in the Spring of 2025.

Qualified Person

The technical contents of this release were reviewed and approved by Jean-Philippe Paiement, P.Geo, MSc, a consultant to LAURION, and a qualified person as defined by National Instrument 43-101 - Standards of Disclosure for Mineral Projects.

About LAURION Mineral Exploration Inc.

The Corporation is a mid-stage junior mineral exploration and development company listed on the TSX Venture Exchange under the symbol LME and on the OTC/PINK under the symbol LMEFF. LAURION now has 273,494,904 outstanding shares of which approximately 73.6% are owned and controlled by insiders who are eligible investors under the "Friends and Family" categories. LAURION's emphasis is on the exploration and development of its flagship project, the 100% owned mid-stage 57 km² Ishkōday Project, and its gold-rich polymetallic mineralization.

LAURION Mineral Exploration Inc.

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Caution Regarding Forward-Looking Information

This press release contains forward-looking statements, which reflect the Corporation's current expectations regarding future events including with respect to LAURION's business, operations and condition, management's objectives, strategies, beliefs and intentions, the Corporation's ability to advance the Ishkōday Project, the nature, focus, timing and potential results of the Corporation's exploration, drilling and prospecting activities in 2024, 2025 and beyond, including the Corporation's planned activities for the Ishkōday Project for the remainder of 2025. The forward-looking statements involve risks and uncertainties. Actual events and future results, performance or achievements expressed or implied by such forward-looking statements could differ materially from those projected herein including as a result of a change in the trading price of the common shares of LAURION, the interpretation and actual results of current exploration activities, changes in project parameters as plans continue to be refined, future prices of gold and/or other metals, possible variations in grade or recovery rates, failure of equipment or processes to operate as anticipated, the failure of contracted parties to perform, labor disputes and other risks of the mining industry, delays in obtaining governmental approvals or financing or in the completion of exploration, as well as those factors disclosed in the Corporation's publicly filed documents. Investors should consult the Corporation's ongoing quarterly and annual filings, as well as any other additional documentation comprising the Corporation's public disclosure record, for additional information on risks and uncertainties relating to these forward-looking statements. The reader is cautioned not to rely on these forward-looking statements. Subject to applicable law, the Corporation disclaims any obligation to update these forward-looking statements.

All sample values are from grab samples and channel samples, which by their nature, are not necessarily representative of overall grades of mineralized areas. Readers are cautioned to not place undue reliance on the assay values reported in this press release.

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