

# Radisson Extends High-Grade Mineralization at O'Brien with Deep Drilling, Including 27.6 g/t Gold over 6.0 Metres

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ROUYN-NORANDA, Sept. 24, 2024 - [Radisson Mining Resources Inc.](#) (TSX-V: RDS, OTCQB: RMRDF) ("Radisson" or the "Company") is pleased to announce results from three deep diamond drill holes completed at its 100%-owned O'Brien Gold Project ("O'Brien" or the "Project") located in the Abitibi region of Québec. These results are part of Radisson's ongoing and fully-funded 35,000 metre drill program, and represent the first deep drill holes of the current campaign.

The three drill holes reported today represent an approximately 200 metre wide fence to the west, centre and east of the down-plunge extension of a high grade mineralization trend at the Project labeled "Trend 1." The fence was located at a vertical depth of approximately 1,100 metres, 170 metres below the base of the existing Mineral Resource and below the level of the historic workings at the adjacent O'Brien mine. Of note, DDH OB-24-324, the central hole of the fence located directly below "Trend 1", returned a wide intersection of high-grade mineralization with extensive visible gold (Figures 1, 2 & 3 and Tables 1 & 2).

## Results Highlights:

- OB-24-324 intersected 27.61 grams per tonne ("g/t") gold ("Au") over 6.0 metres, including 102.00 g/t Au over 1.1 metres, and a separate mineralized interval averaging 6.83 g/t Au over 10.0 metres, including 40.20 g/t Au over 1.5 metres;
- OB-24-322 intersected a mineralized interval averaging 8.75 g/t Au over 5.2 metres, including 27.20 g/t Au over 1.4 metres.

Matt Manson, President & CEO, commented: *"The results reported today represent a significant extension of high-grade mineralization at the O'Brien Project at depth. We have successfully intersected the down plunge extension of one of the principal high-grade gold trends at O'Brien. The 6-metre core interval of almost an ounce per tonne gold in OB-24-324, well mineralized throughout and with extensive visible gold, was achieved in the location predicted by our deposit model at a vertical depth of approximately 1,100 metres, a full 170 metres below previous drilling. For context, approximately 75% of our existing Mineral Resource is defined at depths above 600 metres. The two other deep holes reported today also intersected vein mineralization within alteration zones at the same depth, confirming the lateral continuity of the O'Brien mineralizing system generally and with noteworthy high-grade intercepts in OB-24-322 in particular. Taken together, this deep drilling is demonstrating the significant upside potential of the Project below the existing Mineral Resource. Two rigs are currently active, one targeting shallower targets within the existing Mineral Resource model, and one continuing to target deeper, down-plunge step-outs. We will be reporting additional drill results as they become available."*

Figure 1: Long Section and Plan View of Gold Vein Mineralization and Mineral Resources at the O'Brien Gold Project, with DDH OB-24-321, 322 and 324 illustrated.

## Gold Mineralization at O'Brien

Gold mineralizing quartz-sulphide veins at O'Brien occur within a thin band of interlayered mafic volcanic rocks, conglomerates, and porphyric andesitic sills of the Piché Group occurring adjacent to the east-west oriented Larder Lake-Cadillac Break ("LLCB"). Gold, along with pyrite and arsenopyrite, is typically associated with shearing and a pervasive biotite alteration, and developed within multiple Piché Group lithologies and, occasionally, the hanging-wall Pontiac meta-sedimentary rocks.

As mapped at the Historic O'Brien mine, and now replicated in the modern drilling, individual veins are generally narrow, ranging from several centimetres up to several metres in thickness. Multiple veins occur sub-parallel to each other, as well as sub-parallel to the Piché lithologies and the LLCB. Individual veins have well-established lateral continuity, with near-vertical, high-grade shoots developed over significant lengths. The historic O'Brien mine produced over half a million ounces of gold from such veins and shoots at an average grade exceeding 15 g/t and over a vertical extent of at least 1,000 metres.

Based on the modern drilling, the Project has estimated Indicated Mineral Resources of 0.50 million ounces (1.52 million tonnes at 10.26 g/t Au), with additional Inferred Mineral Resources of 0.45 million ounces (1.62 million tonnes at 8.64 g/t Au). Mineral Resources that are not Mineral Reserves do not have demonstrated economic viability.

Current exploration is focussed on delineating well developed vein mineralization to the east of the historic mine, with additional high-grade shoots becoming evident in the exploration data over what has been described as a series of repeating trends ("Trends 0 to 5", Table 1 and Figures 1 and 2).

Table 1: Summary Assay Results from DDH OB-24-321, 322 and 324

DDH	Zone	From (m)	To (m)	Core Length (m)	Au g/t - Uncut	Host Lithology
		1,149.2	1,150.7	1.5	5.25	PON-S3
		1,164.8	1,166.2	5.2	8.75	V3-S
OB-24-322	Trend #1 including	1,164.8	1,167.6	1.4	27.20	V3-S
		1,215.6	1,219.8	4.2	3.20	V3-S
		1,234.9	1,236.4	1.5	5.16	V3-S
		1,178.8	1,184.8	6.0	27.61	S1P
	including	1,182.6	1,183.7	1.1	102.00	S1P
		1,197.5	1,199.0	1.5	4.64	S1P
OB-24-324	Trend #1	1,231.0	1,241.0	10.0	6.83	POR-N/V3-N
	including	1,231.0	1,232.5	1.5	40.20	POR-N
		1,249.0	1,250.4	1.4	3.78	S3P

#### Notes on Calculation of Drill Intercepts

The O'Brien Gold Project March 2023 Mineral Resource Estimate ("MRE") utilizes a 4.50 g/t Au bottom cutoff, a US\$1600 gold price, a minimum mining width of 1.2 metres, and a 40 g/t Au upper cap on composites. Intercepts presented in Table 1 are calculated with a 3.00 g/t Au bottom cut-off, representing the lower limit of cut-off sensitivity presented in the March 2023 MRE. This methodology differs from previous Radisson disclosure, and intercepts reported in this release may not be directly comparable to historical published intercepts. Sample grades are uncapped. True widths, based on depth of intercept and drill hole inclination, are estimated to be 40-80% of core length. Table 2 presents additional drill intercepts calculated with a 1.00 g/t bottom cut-off over a minimum 1.0 metre core length so as to illustrate the frequency and continuity of mineralized intervals within which high-grade gold veins at O'Brien are developed. Drill Hole OB-24-321 did not return any intercepts averaging above 3.00 g/t Au based on unofficial assays received to date (official assay certificates for three samples in OB-24-321, covering the interval italicised in Table 2, are pending).

**Lithology Codes:** PON-S3: Pontiac Sediments; V3-S, V3-N, V3-CEN: Basalt-South, North, Central; S1P: Piché conglomerate; S3P: Piché sediments; POR-S, POR-N: Porphyry South, North.

#### Today's Drill Results

Today's results are from three drill holes over 3,660 metres in Trend 1. Visible gold was observed in each hole. Holes were drilled on northerly declinations at initial inclinations of between -77 and -85 degrees, providing a high angle of incidence with the southerly dip of the Piché Group rocks and the vein mineralization. Estimated true widths of drill intercepts at the point of contact with mineralization is estimated to be between 40 and 80% of core length.

Figure 2: Visible Gold in DDH OB-24-324 Over Three Separate Intervals Starting at 1,179 Metres.

Figure 3: Cross Section of Trend 1 locating drill hole OB-24-324 and the previously published OB-96-071 and OB-20-174W1B drill holes.

Table 2: Detailed Assay Results (see "Notes on Calculation of Drill Intercepts")

DDH	Zone	From (m)	To (m)	Core Length (m)	Au g/t - Uncut	Host Lithology
OB-24-321 Trend #1		442.7	443.7	1.0	1.61	PON-S3
		507.0	509.4	2.4	1.84	PON-S3
		512.3	514.4	3.6	1.01	PON-S3
		942.5	943.2	0.7	1.77	POR-S
		971.9	973.4	1.5	1.03	S1P
		986.6	989.2	2.6	1.27	S1P/POR-N
		1,033.0	1,035.0	2.0	1.44	S3P
		1,041.2	1,042.7	1.5	1.04	S3P
		1,149.2	1,150.7	1.5	5.25	PON-S3
		1,164.8	1,166.2	5.2	8.75	V3-S
	including	1,164.8	1,167.6	1.4	27.20	V3-S
OB-24-322 Trend #1 including		1,180.9	1,182.4	1.5	1.23	V3-S
		1,215.6	1,225.5	9.9	1.61	V3-S
		1,215.6	1,219.8	4.2	3.20	V3-S
		1,234.9	1,236.4	1.5	5.16	V3-S
		1,241.0	1,242.0	1.0	1.06	POR-S
		1,259.0	1,266.8	7.8	1.59	POR-S/V3-CEN
		1,278.1	1,281.1	3.0	1.27	S1P
		1,301.2	1,302.2	1.0	1.05	V3-N
		746.0	747.5	1.5	2.23	PON-S3
		1,012.5	1,014.0	1.5	2.11	PON-S3
		1,085.7	1,088.3	2.6	1.13	V3-S
OB-24-324 Trend #1 including		1,148.8	1,177.8	29.0	1.07	POR-S
		1,178.8	1,184.8	6.0	27.61	S1P
	including	1,182.6	1,183.7	1.1	102.00	S1P
		1,195.5	1,199.0	3.5	2.95	S1P
		1,197.5	1,199.0	1.5	4.64	S1P
		1,203.2	1,204.2	1.0	1.07	S1P
		1,206.2	1,207.7	1.5	1.65	POR-N
		1,219.9	1,220.9	1.0	2.28	POR-N
		1,231.0	1,241.0	10.0	6.83	POR-N/V3-N
	including	1,231.0	1,232.5	1.5	40.20	POR-N
		1,249.0	1,253.4	4.4	2.25	S3P
including	1,249.0	1,250.4	1.4	3.78	S3P	

Table 3: Drill Hole Collar Information for Holes contained in this News Release

DDH	Zone	Easting	Northing	Azimuth	Dip	Hole Length (m)
OB-24-321	Trend #1	693952	5345216	10.0	-77	1065
OB-24-322	Trend #1	694197	5345102	0.0	-85	1339

OB-24-324 Trend #1 694219 5345107 343.0 -79.5 1256

#### QA/QC

All drill cores in this campaign are NQ in size. Assays were completed on sawn half-cores, with the second half kept for future reference. The samples were analyzed using standard fire assay procedures with Atomic Absorption (AA) finish at ALS Laboratory Ltd, in Val-d'Or, Quebec. Samples yielding a grade higher than 10 g/t Au were analyzed a second time by fire assay with gravimetric finish at the same laboratory. Mineralized zones containing visible gold were analyzed with metallic sieve procedure. Standard reference materials, blank samples and duplicates were inserted prior to shipment for quality assurance and quality control (QA/QC) program.

#### Qualified Person?

Disclosure of a scientific or technical nature in this news release was prepared under the supervision of Mr. Richard Nieminen, P.Ge, (QC), a geological consultant for Radisson and a Qualified Person for purposes of NI 43-101. Mr. Nieminen is independent of Radisson and the O'Brien Gold Project.

#### Radisson Mining Resources Inc.

Radisson is a gold exploration company focused on its 100% owned O'Brien Gold Project, located in the Bousquet-Cadillac mining camp along the world-renowned Larder-Lake-Cadillac Break in Abitibi, Québec. The Bousquet-Cadillac mining camp has produced over 25 million ounces of gold over the last 100 years. The Project hosts the former O'Brien Mine, considered to have been Québec's highest-grade gold producer during its production. Indicated Mineral Resources are estimated at 0.50 million ounces (1.52 million tonnes at 10.26 g/t Au), with additional Inferred Mineral Resources estimated at 0.45 million ounces (1.62 million tonnes at 8.64 g/t Au). Please see the NI 43-101 "Technical Report on the O'Brien Project, Northwestern Québec, Canada" effective March 2, 2023, Radisson's Annual Information Form for the year ended December 31, 2023 and other filings made with Canadian securities regulatory authorities available at [www.sedar.com](http://www.sedar.com) for further details and assumptions relating to the O'Brien Gold Project.

For more information on Radisson, visit our website at [www.radissonmining.com](http://www.radissonmining.com) or contact:

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