Osisko Mining Inc. Windfall Drilling Intercepts High-Grade in Multiple Lynx Zones

25.05.2022 | GlobeNewswire

Including 272 g/t Au Over 2.3 Metres and 26.3 g/t Au Over 15.8 Metres

TORONTO, May 25, 2022 - Osisko Mining Inc. (OSK:TSX. "Osisko" or the "Corporation") is pleased to provide new analytical results from the ongoing drill program at its 100% owned Windfall gold project located in the Abitibi greenstone belt, Urban Township, Eeyou Istchee James Bay, Québec.

Significant new analytical results presented below include 71 intercepts in 27 underground drill holes and 13 wedges. The infill intercepts are located inside defined January 2022 mineral resource estimate (“MRE”) blocks (see Osisko news release dated January 10, 2022). The expansion intercepts are located outside the January 2022 MRE blocks and either expand resource wireframes or are in a defined zone or corridor but do not yet correlate to a specific wireframe.

Osisko Chief Executive Officer John Burzynski commented: “Infill drilling in support of the upcoming feasibility study continues to intersect high-grade across the deposit, especially in the Lynx area. This week’s expansion intercepts, including the higher-up Bobcat holes, are 25 metre step-outs which allow for these intercepts to be included in the resource estimate.”

Selected high-grade intercepts include: 272 g/t Au over 2.3 metres in WST-22-1018-W1, 26.3 g/t Au over 15.8 metres in OSK-W-22-2587-W3; 95.8 g/t Au over 3.1 metres in OSK-W-22-2601-W6; 131 g/t Au over 2.2 metres in OSK-W-22-2646-W5; 21.4 g/t Au over 13.2 metres in OSK-W-22-2605-W3; 39.9 g/t Au over 6.8 metres in OSK-W-22-2605-W2; 80.0 g/t Au over 3.2 metres in OSK-W-22-2646-W4, 125 g/t Au over 2.0 metres in WST-22-1019, 112 g/t Au over 2.2 metres in WST-22-1021 and 24.6 g/t Au over 9.6 metres in WST-22-1020. Maps showing hole locations and full analytical results are available at www.osiskomining.com. Maps: Long Section_All zones In EN 20220525, Long Section_All zones Ex EN 20220525, PR_EN_20220525_Surface, PR_EN_20220525_UG.

Infill Drilling

Hole No.	From (m)	To (m)	Interval (m)	Au (g/t) uncut	Au (g/t) cut to 100 g/t	Zone	Corridor
OSK-W-22-2587-W3	1134.0	1149.8	15.8	26.3	11.3	Triple Lynx	
including	1148.3	1149.1	0.8	397	100		
OSK-W-22-2587-W4	1125.0	1127.0	2.0	20.6		Triple Lynx	TLX_
including	1126.0	1126.7	0.7	43.1			
	1139.0	1143.0	4.0	10.1		Triple Lynx	TLX_3170
including	1139.0	1139.7	0.7	43.1			
	1151.1	1153.5	2.4	30.7	24.5	Triple Lynx	TLX_3172
including	1152.0	1152.4	0.4	138	100		
OSK-W-22-2601-W4	1010.0	1012.1	2.1	121	35.8	Triple Lynx	TL
including	1010.0	1010.7	0.7	356	100		
OSK-W-22-2601-W6	1022.3	1025.4	3.1	95.8	70.8	Triple Lynx	T
including	1024.0	1024.6	0.6	186	100		
OSK-W-22-2605-W2	1315.5	1322.3	6.8	39.9	23.9	Lynx 4	L
including	1315.5	1316.0	0.5	186	100		

and	1321.6	1322.0	0.4	266	100		
OSK-W-22-2605-W3	1332.6	1345.8	13.2	21.4	17.1		
Lynx 4							
including	1336.0	1336.5	0.5	212	100		
and	1338.5	1339.4	0.9	58.1			
OSK-W-22-2605-W4	1318.7	1322.1	3.4	11.2			LX4_
Lynx 4							
including	1319.7	1320.0	0.3	32.9			
	1324.7	1328.0	3.3	3.79		LX4_3449	Lyn
	1347.0	1364.5	17.5	4.66		LX4_3445	Ly
OSK-W-22-2605-W5	1299.6	1303.1	3.5	35.0	30.3		L
Lynx 4							
including	1301.1	1301.8	0.7	124	100		
	1313.7	1316.1	2.4	4.99		LX4_3449	
Lynx 4							
including	1314.5	1315.2	0.7	10.8			
OSK-W-22-2605-W6	1361.6	1364.3	2.7	4.27			LX4_
OSK-W-22-2646-W4	1149.0	1151.3	2.3	10.0			TLX_
Triple Lynx							
including	1149.4	1149.9	0.5	44.4			
	1186.4	1189.6	3.2	80.0	64.5	TLX_3172	
Triple Lynx							
including	1186.4	1187.0	0.6	175	100		
OSK-W-22-2646-W5	1046.3	1048.3	2.0	41.0	21.3		T
Triple Lynx							
including	1046.6	1046.9	0.3	231	100		
	1050.1	1052.2	2.1	6.71		TLX_3158	Tri
WST-21-0713A	79.8	82.0	2.2	6.24		LXM_3371	
WST-21-0845	86.0	88.0	2.0	5.19		LXM_3336	
Lynx							
including	86.7	87.0	0.3	34.4			
	98.6	100.7	2.1	18.8		LXM_3371	
Lynx							
including	100.0	100.4	0.4	91.0			
WST-21-0847	96.2	99.8	3.6	20.2		LXM_3371	
Lynx							
including	96.2	97.0	0.8	59.4			
WST-21-0848	73.5	75.9	2.4	7.49		LXM_3336	
Lynx							
including	75.5	75.9	0.4	44.5			
	97.0	99.4	2.4	8.86		LXM_3371	
Lynx							
including	98.1	98.5	0.4	37.8			
	113.0	117.7	4.7	4.17		LXM_3359	
Lynx							
including	113.0	113.4	0.4	26.9			
WST-21-0849	74.0	76.6	2.6	11.3		LXM_3336	
Lynx							
including	75.7	76.3	0.6	47.7			
	96.0	98.0	2.0	29.1		LXM_3371	
Lynx							
including	97.2	97.6	0.4	91.9			
	110.1	112.3	2.2	6.17		LXM_3359	
Lynx							
including	110.4	110.9	0.5	26.5			
WST-21-0887	121.0	123.5	2.5	7.59		LXM_3359	
Lynx							
including	123.0	123.5	0.5	33.4			
WST-21-0891	97.8	100.0	2.2	18.4		LXM_3371	
Lynx							
including	97.8	98.3	0.5	69.1			
WST-21-0905	53.1	55.2	2.1	5.62		LXM_3339	
Lynx							
including	53.6	54.0	0.4	17.3			
WST-21-0921	47.7	49.7	2.0	21.4		LXM_3303	
Lynx							
including	48.6	49.7	1.1	38.5			

WST-21-0923	65.5	67.8	2.3	5.91			LXM_3336	
including	Lynx	65.5	66.1	0.6	17.8			
	98.3	100.5	2.2	7.23		LXM_3371		
including	Lynx	98.3	99.1	0.8	19.5			
WST-21-0941	58.8	61.1	2.3	55.1	27.3		LXM_3336	
including	Lynx	59.3	59.8	0.5	228	100		
WST-22-0998	200.8	205.2	4.4	8.34			MAL_5215	
including	Mallard	204.0	205.2	1.2	23.8			
WST-22-1010	357.5	359.7	2.2	10.4			LX4_3405	
including	Lynx 4	358.0	358.4	0.4	37.0			
WST-22-1011	200.5	202.5	2.0	84.1	67.3		TLX_3161	
including	Triple Lynx	201.3	202.5	1.2	128	100		
WST-22-1014-W1	473.5	477.5	4.0	20.9	12.6		LX4_3	
including	Lynx 4	473.5	473.9	0.4	183	100		
	482.3	484.4	2.1	10.1		LX4_3430		
including	Lynx 4	483.8	484.4	0.6	33.3			
WST-22-1015	183.3	185.3	2.0	4.03			MAL_5215	
including	Mallard	184.4	185.0	0.6	12.6			
WST-22-1016	264.6	268.3	3.7	40.8			TLX_3158	
including	Triple Lynx	265.3	265.8	0.5	88.6			
WST-22-1018	198.8	200.9	2.1	62.4	30.0		TLX_3161	
including	Triple Lynx	200.1	200.5	0.4	270	100		
	540.7	542.8	2.1	5.74		LX4_3404		
including	Lynx 4	540.7	541.3	0.6	16.0			
WST-22-1018-W1	540.0	542.0	2.0	6.31			LX4_3404	
	545.4	547.7	2.3	272	58.9	LX4_3430		
including	Lynx 4	545.4	546.0	0.6	504	100		
and	547.1	547.7	0.6	512	100			
WST-22-1019	227.8	230.4	2.6	9.93			TLX_3131	
including	Triple Lynx	228.9	229.2	0.3	64.2			
	395.0	397.0	2.0	38.2	15.5	LX4_3410		
including	Lynx 4	396.1	396.4	0.3	251	100		
	425.3	428.0	2.7	16.6	11.8	LX4_3409		
including	Lynx 4	425.3	425.6	0.3	143	100		
	430.0	432.0	2.0	125	15.3	LX4_3409		
including	Lynx 4	431.7	432.0	0.3	833	100		
WST-22-1020	139.0	141.4	2.4	9.86			LXM_3334	
including	Lynx	139.3	139.7	0.4	23.7			
	312.0	321.6	9.6	24.6	13.0	TLX_3131		
including	Triple Lynx	318.4	319.4	1.0	211	100		
	539.8	542.0	2.2	5.75		LX4_3450		
including	Lynx 4	540.3	540.6	0.3	39.3			
WST-22-1021	281.0	285.0	4.0	46.6	40.4		TLX_3158	
including	Triple Lynx	282.3	282.9	0.6	142	100		
	323.7	327.8	4.1	10.2		TLX_3155		
including	Triple Lynx							

including	327.4	327.8	0.4	98.9	
WST-22-1025	160.3	163.0	2.7	14.0	LXM_3388
WST-22-1036	497.9	500.3	2.4	4.87	LX4_3404
Lynx 4					
including	497.9	498.3	0.4	22.9	
513.0	515.0	2.0	11.8	LX4_3404	
Lynx 4					
including	514.0	514.4	0.4	41.5	
WST-22-1051	257.0	260.0	3.0	20.6	TLX_3158
WST-22-1055	86.8	89.0	2.2	7.35	TLX_3161
Triple Lynx					
including	86.8	87.1	0.3	46.0	

Notes: True widths are estimated at 55 – 80% of the reported core length interval. See "Quality Control and

Reporting Protocols" below., LXM = Lynx Main, LX4 = Lynx 4, TLX = Triple Lynx and MAL = Mallard.

Expansion Drilling

Hole No.	From (m)	To (m)	Interval (m)	Au (g/t) uncut	Au (g/t) cut to 100 g/t	Zone	Corridor
OSK-W-22-2587-W4	1109.7	1118.6	8.9	3.65		TLX	Triple Lynx
including	1118.2	1118.6	0.4	25.0			
OSK-W-22-2646-W4	1115.0	1120.6	5.6	4.00		TLX	Triple Lynx
including	1120.0	1120.6	0.6	18.1			
	1125.0	1127.0	2.0	3.90		TLX	Triple L
OSK-W-22-2646-W5	1169.3	1171.5	2.2	131	31.6		TL
including	1169.7	1170.3	0.6	465	100		
WST-21-0771C	104.2	107.0	2.8	11.4		BCT	Bobcat
including	105.0	106.0	1.0	23.7			
WST-21-0872	74.7	76.8	2.1	8.46		LXM	Lynx
including	75.7	76.3	0.6	20.0			
WST-21-0899B	35.4	37.5	2.1	11.9		BCT	Bobcat
including	35.8	36.1	0.3	80.3			
WST-22-1014-W1	558.0	560.2	2.2	4.02		LX4	
WST-22-1019	351.3	354.0	2.7	5.09		LX4_3401	
WST-22-1020	295.7	300.0	4.3	7.57		TLX	Triple Lynx
including	295.7	296.2	0.5	16.4			
WST-22-1021	437.4	439.6	2.2	112	83.4	TLX_3172	Triple Lynx
including	438.6	439.6	1.0	164	100		

Notes: True widths are estimated at 55 – 80% of the reported core length interval. See "Quality Control and Reporting Protocols" below., BCT = Bobcat, LXM = Lynx Main, LX4 = Lynx 4 and TLX = Triple Lynx.

Drill hole location

Hole No.	Azimuth (°)	Dip (°)	Length (m)	UTM E	UTM N	Elevation	Section
OSK-W-22-2587-W3	127	-59	1221	453350	5435673	4	
OSK-W-22-2587-W4	127	-59	1218	453350	5435673	4	
OSK-W-22-2601-W4	125	-61	1098	453425	5435656	4	
OSK-W-22-2601-W6	125	-61	1212	453425	5435656	4	
OSK-W-22-2605-W2	112	-55	1431	453551	5435669	4	
OSK-W-22-2605-W3	112	-55	1455	453551	5435669	4	
OSK-W-22-2605-W4	112	-55	1425	453551	5435669	4	
OSK-W-22-2605-W5	112	-55	1401	453551	5435669	4	
OSK-W-22-2605-W6	112	-55	1404	453551	5435669	4	
OSK-W-22-2646-W4	109	-58	1254	453326	5435648	4	
OSK-W-22-2646-W5	109	-58	1245	453326	5435648	4	
WST-21-0713A	158	4	94	453359	5435194	84	
WST-21-0771C	127	-52	357	452954	5435003	252	
WST-21-0845	130	-29	111	453315	5435165	124	
WST-21-0847	134	-30	114	453315	5435165	124	
WST-21-0848	135	-27	129	453315	5435165	124	
WST-21-0849	134	-24	118	453315	5435164	124	
WST-21-0872	135	-69	348	453508	5435327	-7	
WST-21-0887	136	-33	132	453315	5435165	123	
WST-21-0891	138	-28	126	453314	5435164	124	
WST-21-0899B	134	-60	287	452955	5435004	253	
WST-21-0905	141	-52	64	453221	5435121	135	
WST-21-0921	148	-37	114	453314	5435164	124	
WST-21-0923	147	-31	111	453314	5435164	124	
WST-21-0941	153	-23	129	453315	5435164	124	
WST-22-0998	358	-52	230	452207	5434903	247	
WST-22-1010	136	-28	481	453445	5435276	-99	
WST-22-1011	134	-32	630	453344	5435312	-66	
WST-22-1014-W1	123	-37	594	453507	5435332	-47	
WST-22-1015	345	-60	210	452206	5434903	247	
WST-22-1016	143	-65	448	453647	5435347	-189	
WST-22-1018	115	-43	636	453506	5435327	-90	
WST-22-1018-W1	115	-43	585	453506	5435327	-90	
WST-22-1019	140	-27	463	453444	5435276	-99	
WST-22-1020	142	-52	582	453322	5435236	54	
WST-22-1021	149	-67	468	453647	5435347	-189	
WST-22-1025	122	-20	189	453507	5435332	-47	
WST-22-1036	130	-48	627	453505	5435326	-90	
WST-22-1051	106	-52	327	453702	5435377	-198	
WST-22-1055	144	-44	120	453600	5435324	-181	

Bobcat
Mineralization most commonly occurs in gold-bearing quartz-pyrite veins controlled by northeast trending faults and shears and to a lesser extent in minor crustiform quartz-tourmaline-ankerite-pyrite veins and pyrite replacement zones and stockwork. Mineralization is hosted in sheared mafic volcanics, rhyolites near faults, or at the contact with felsic porphyritic intrusions.

Lynx Zone

Mineralization occurs as grey to translucent quartz-carbonate-pyrite-tourmaline veins and pyrite replacement zones and stockworks. Vein-type mineralization is associated with haloes of pervasive sericite-pyrite ± silica alteration and contain sulphides (predominantly pyrite with minor amounts of chalcopyrite, sphalerite, galena, arsenopyrite, and pyrrhotite) and local visible gold. Replacement mineralization is associated with strong pervasive silica-sericite-ankerite ± tourmaline alteration and contains disseminated pyrite from trace to 80% with local visible gold. Pyrite stockworks can form envelopes that reach several tens of metres thick. Fuchsite alteration is common and is spatially constrained to near the gabbros. Mineralization occurs at or near geological contacts between felsic porphyritic or fragmental intrusions and the host rhyolites or gabbros and locally can be hosted along the gabbro-rhyolite contact.

Mallard

Mineralization is hosted in sheared mafic volcanics with felsic porphyritic intrusions and occurs as veins associated with sericite-pyrite ± silica ± chlorite alteration and contains pyrite ranging from trace to 30% and local visible gold.

Qualified Person

The scientific and technical content of this news release has been reviewed, prepared and approved by Mr. Louis Grenier, M.Sc.A., P.Geo. (OGQ 800), Director of Exploration for Osisko's Windfall gold project, who is a "qualified person" as defined by National Instrument 43-101 – Standards of Disclosure for Mineral Projects ("NI 43-101").

Quality Control and Reporting Protocols

True width determination is estimated at 55-80% of the reported core length interval for the zone. Assays are uncut except where indicated. Intercepts occur within geological confines of major zones but have not been correlated to individual vein domains at this time. Reported intervals include minimum weighted averages of 3.5 g/t Au diluted over core lengths of at least 2.0 metres. NQ core assays were obtained by either 1-kilogram screen fire assay or standard 50-gram fire-assaying-AA finish or gravimetric finish at (i) ALS Laboratories in Val d'Or, Québec, Vancouver, British Colombia, Lima, Peru or Vientiane, Laos (ii) Bureau Veritas in Timmins, Ontario. The 1-kilogram screen assay method is selected by the geologist when samples contain coarse gold or present a higher percentage of pyrite than surrounding intervals. Selected samples are also analyzed for multi-elements, including silver, using a Four Acid Digestion-ICP-MS method at ALS Laboratories. Drill program design, Quality Assurance/Quality Control ("QA/QC") and interpretation of results is performed by qualified persons employing a QA/QC program consistent with NI 43-101 and industry best practices. Standards and blanks are included with every 20 samples for QA/QC purposes by the Corporation as well as the lab. Approximately 5% of sample pulps are sent to secondary laboratories for check assay.

About the Windfall Gold Deposit

The Windfall gold deposit is located between Val-d'Or and Chibougamau in the Abitibi region of Québec, Canada. The Mineral Resource Estimate (“MRE“) defined by Osisko, as disclosed in the news release dated January 10, 2022 is supported by the technical report entitled “Mineral Resource Estimate Update for the Windfall Project” dated February 10, 2022 (with an effective date of October 21, 2021), and assuming a cut-off grade of 3.50 g/t Au, comprises 565,000 tonnes at 11.6 g/t Au (210,000 ounces) in the measured mineral resource category, 8,907,000 tonnes at 10.5 g/t Au (2,994,000 ounces) in the indicated mineral resource category and 13,035,000 tonnes at 8.6 g/t Au (3,585,000 ounces) in the inferred mineral resource category. The key assumptions, parameters and methods used to estimate the mineral resource estimate disclosed in the January 10, 2022, news release, certain of which are described in the January 10, 2022, news release, are further described in the full technical report for this updated mineral resource estimate in accordance with NI 43-101 and is available on SEDAR (www.sedar.com) under the Corporation's issuer profile. The Windfall gold deposit is currently one of the highest-grade resource-stage gold projects in Canada and has world-class scale. Mineralization occurs in three principal zones: Lynx, Main Zone, and Underdog. Mineralization is generally comprised of sub-vertical zones following intrusive porphyry contacts plunging to the northeast. The resources are defined from surface to a depth of 1,600 metres as it now includes the Triple 8 (T8) zone. The resources excluding T8 are defined from surface to a depth of 1,200 metres. The deposit remains open along strike and at depth. Mineralization has been identified at surface in some areas and as deep as 2,625 metres in others with significant potential to extend mineralization down-plunge and at depth.

About Osisko Mining Inc.

Osisko is a mineral exploration company focused on the acquisition, exploration, and development of gold resource properties in Canada. Osisko holds a 100% interest in the high-grade Windfall gold deposit located between Val-d'Or and Chibougamau in Québec and holds a 100% undivided interest in a large area of claims in the surrounding Urban Barry area and nearby Quévillon area (over 2,500 square kilometres).

Cautionary Note Regarding Forward-Looking Information

This news release contains "forward-looking information" within the meaning of the applicable Canadian

securities legislation that is based on expectations, estimates, projections and interpretations as at the date of this news release. Any statement that involves predictions, expectations, interpretations, beliefs, plans, projections, objectives, assumptions, future events or performance (often, but not always, using phrases such as "expects", or "does not expect", "is expected", "interpreted", "management's view", "anticipates" or "does not anticipate", "plans", "budget", "scheduled", "forecasts", "estimates", "potential", "feasibility", "believes" or "intends" or variations of such words and phrases or stating that certain actions, events or results "may" or "could", "would", "might" or "will" be taken to occur or be achieved) are not statements of historical fact and may be forward-looking information and are intended to identify forward-looking information. This news release contains the forward-looking information pertaining to, among other things: the Windfall gold deposit being one of the highest-grade resource-stage gold projects in Canada and having world-class scale; the key assumptions, parameters and methods used to estimate the mineral resource estimate disclosed in this news release; the prospects, if any, of the Windfall gold deposit; timing and ability of Osisko to file a technical report for the mineral resource estimate disclosed in this news release; the timing and ability of Osisko, if at all, to publish a feasibility study for the Windfall gold deposit; the amount and type of drilling to be completed and the timing to complete such drilling; the focus of the remaining infill drilling; the trend of grade increase; the Lynx zone remaining open to expansion down plunge; upgrading a inferred mineral resource to a measured mineral resource or indicated mineral resource category; future drilling at the Windfall gold deposit; the significance of historic exploration activities and results. Such factors include, among others, risks relating to the ability of exploration activities (including drill results) to accurately predict mineralization; errors in management's geological modelling; the ability of Osisko to complete further exploration activities, including (infill) drilling; property and royalty interests in the Windfall gold deposit; the ability of the Corporation to obtain required approvals; the results of exploration activities; risks relating to mining activities; the global economic climate; metal prices; dilution; environmental risks; and community and non-governmental actions. Although the forward-looking information contained in this news release is based upon what management believes, or believed at the time, to be reasonable assumptions, Osisko cannot assure shareholders and prospective purchasers of securities of the Corporation that actual results will be consistent with such forward-looking information, as there may be other factors that cause results not to be as anticipated, estimated or intended, and neither Osisko nor any other person assumes responsibility for the accuracy and completeness of any such forward-looking information. Osisko does not undertake, and assumes no obligation, to update or revise any such forward-looking statements or forward-looking information contained herein to reflect new events or circumstances, except as may be required by law.

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