



OSISKO INTERSECTS 34.3 g/t Au OVER 4.5 METRES AT WINDFALL

High-Grade Infill Hits in Underdog and Zone 27 Continue

(Toronto, May 1, 2018) Osisko Mining Inc. (OSK:TSX. "Osisko" or the "Corporation") is pleased to provide new results from the ongoing drill program at its 100% owned Windfall Lake gold project located in the Abitibi greenstone belt, Urban Township, Eeyou Istchee James Bay, Québec. The 800,000 metre drill program combines definition, expansion and exploration drilling in and around the main Windfall gold deposit and the adjacent Lynx deposit (located immediately NE of Windfall).

Significant new analytical results from 24 intercepts in 12 drill holes and 5 wedges focused on infill drilling in the Windfall deposit are presented below. Today's infill drilling results will not be included in the pending mineral resource scheduled for release in May 2018.

Highlights from the new results include: **34.3 g/t Au over 4.5 metres** in OSK-W-17-1172; **13.0 g/t Au over 5.7 metres** in OSK-W-18-1336-W2; **27.7 g/t Au over 2.1 metres** in OSK-W-17-778, **25.5 g/t Au over 2.1 metres** in OSK-W-17-1380. Maps showing hole locations and full analytical results are available at www.osiskominig.com.

Hole No.	From (m)	To (m)	Interval (m)	Au (g/t) uncut	Au (g/t) cut to 100 g/t	Zone	Corridor
OSK-EAG-12-427	918.0	920.0	2.0	13.0		Underdog	Underdog
<i>including</i>	918.9	920.0	1.1	23.6			
OSK-EAG-13-513	1050.0	1054.0	4.0	10.6		FW4	Underdog
<i>including</i>	1050.0	1052.0	2.0	18.0			
OSK-W-16-762	1253.0	1255.0	2.0	4.66		FW4	Underdog
OSK-W-17-778	917.0	919.2	2.2	11.6		FW0	Underdog
	1095.4	1098.4	3.0	10.6		FW1	Underdog
	1114.6	1117.1	2.5	9.24		FW1	Underdog
	1132.0	1134.1	2.1	27.7	19.1	FW2	Underdog
<i>including</i>	1132.0	1132.4	0.4	145	100		
	1158.0	1160.0	2.0	4.49		FW2	Underdog
OSK-W-17-1172	136.5	141.0	4.5	34.3	27.4	Z27	Zone 27
<i>including</i>	136.5	137.0	0.5	44.1			
<i>including</i>	140.0	141.0	1.0	131	100		
OSK-W-17-1336-W1	723.0	725.0	2.0	9.44		Vein	Red Dog
<i>including</i>	723.7	724.0	0.3	62.8			
OSK-W-18-1336-W2	831.9	835.3	3.4	4.62		FW0	Underdog
	849.7	852.3	2.6	3.53		FW0	Underdog
	950.0	952.3	2.3	3.92		FW1	Underdog
	964.0	969.7	5.7	13.0		FW1	Underdog

Hole No.	From (m)	To (m)	Interval (m)	Au (g/t) uncut	Au (g/t) cut to 100 g/t	Zone	Corridor
<i>including</i>	967.3	967.8	0.5	92.2			
OSK-W-17-1380	361.1	363.2	2.1	25.5	25.3	Underdog	Underdog
<i>including</i>	361.9	362.4	0.5	101	100		
OSK-W-17-1394	902.7	904.8	2.1	13.0		Caribou Ext.	Caribou
<i>including</i>	904.0	904.8	0.8	33.0			
OSK-W-18-1402-W1	683.5	686.0	2.5	3.57		Vein	Red Dog
<i>including</i>	684.5	685.0	0.5	17.6			
OSK-W-18-1418	893.0	896.4	3.4	6.72		QTV	Caribou
<i>including</i>	893.0	893.5	0.5	39.0			
OSK-W-18-1423	268.4	271.0	2.6	3.07		Bobcat	Bobcat
OSK-W-18-1431-W1	922.1	924.6	2.5	4.25		FW3	Underdog
OSK-W-18-1431-W2	765.0	767.0	2.0	3.55		FW1	Underdog
OSK-W-18-1435	555.5	558.0	2.5	16.7		Caribou Ext.	Caribou
<i>including</i>	555.5	556.5	1.0	40.7			
OSK-W-18-1457	52.7	55.0	2.3	10.5		Bobcat	Bobcat
<i>including</i>	54.0	54.3	0.3	66.0			
OSK-W-18-1459	256.0	258.0	2.0	9.52		Bobcat	Bobcat
<i>including</i>	257.5	258.0	0.5	36.4			

Notes: True widths are estimated at 65 – 80% of the reported core length interval. See "Quality Control" below.
Definitions: Ext. = Extension; FW = Footwall; QTV = Quartz-Tourmaline Vein.

Hole Number	Azimuth (°)	Dip (°)	Length (m)	UTM E	UTM N	Section
OSK-EAG-12-427	330	51	1215	452701	5434438	2675
OSK-EAG-13-513	330	-55	1131	452629	5434514	2650
OSK-W-16-762	332	-56	1311	452730	5434409	2675
OSK-W-17-778	331	-58	1362	452689	5434338	2600
OSK-W-17-1172	144	-49	207	452022	5434797	2250
OSK-W-17-1336-W1	335	-61	1335	452616	5434449	2600
OSK-W-18-1336-W2	335	-61	1193	452616	5434449	2600
OSK-W-17-1380	335	-45	624	451895	5434473	1975
OSK-W-17-1394	335	-49	1165	453146	5434512	3100
OSK-W-18-1402-W1	330	-59	1224	452616	5434449	2600
OSK-W-18-1418	334	-45	1077	453288	5434531	3225
OSK-W-18-1423	327	-61	792	453025	5434853	3150
OSK-W-18-1431-W1	337	-62	1092	452287	5434336	2250

Hole Number	Azimuth (°)	Dip (°)	Length (m)	UTM E	UTM N	Section
OSK-W-18-1431-W2	337	-62	1140	452287	5434336	2250
OSK-W-18-1435	331	-65	801	453028	5434848	3150
OSK-W-18-1457	137	-57	318	452982	5435148	3275
OSK-W-18-1459	132	-50	621	452860	5435186	3175

OSK-EAG-12-427 intersected **13.0 g/t Au over 2.0 metres** in Underdog. Mineralization contains 5% pyrite stringers within an enclave of foliated andesite in a porphyric felsic dike.

OSK-EAG-13-513 intersected FW4 with **10.6 g/t Au over 4.0 metres** in Underdog. Mineralization contains up to 5% pyrite stringers and 3% disseminated pyrite within a moderately sericitized felsic dike.

OSK-W-16-762 intersected FW4 with **4.66 g/t Au over 2.0 metres** in Underdog. Mineralization contains 5% semi-massive pyrite and 2% pyrite stringers within a bleached andesite with moderate silica and sericite alteration.

OSK-W-17-778 intersected five intervals in Underdog: **11.6 g/t Au over 2.2 metres** in FW0, **10.6 g/t Au over 3.0 metres** and **9.24 g/t Au over 2.5 metres** in FW1, and **27.7 g/t Au over 2.1 metres** and **4.49 g/t Au over 2.0 metres** in FW2. The first interval contains local visible gold with 15% pyrite-silica flooding in a sericitized and bleached felsic porphyritic intrusion. The second and third intervals contain up to 5% pyrite and pyrite-tourmaline stringers and up to 12% disseminated and cluster pyrite with patchy silica hosted in a strongly bleached to sericitized and silicified felsic porphyritic dike. The fourth interval is similar to the previous ones and contains local visible gold.

OSK-W-17-1172 intersected **34.3 g/t Au over 4.5 metres** in Zone 27. Mineralization contains up to 1% disseminated pyrite, 5% pyrite and pyrite-tourmaline stringers in a moderately silicified porphyritic felsic dike.

OSK-W-17-1336-W1 intersected **9.44 g/t Au over 2.0 metres** in a vein in the Red Dog intrusive (hematized monzonite). Mineralization contains local visible gold within a centimetre-thick pyrite stringer.

OSK-W-17-1336-W2 intersected four intervals: **4.62 g/t Au over 3.4 metres** and **3.53 g/t Au over 2.6 metres** in FW0, **3.92 g/t Au over 2.3 metres** and **13.0 g/t Au over 5.7 metres** in FW1. The first interval contains local visible gold in a pygmatic tourmaline vein hosted in a porphyritic felsic dike with up to 3% pyrite-tourmaline stringers and pyrite clusters in pervasive silica flooding. The second interval contains 2 to 5% semi-massive pyrite clusters, 1 to 3% pyrite stringers with smoky quartz-chlorite-tourmaline, local pervasive silica flooding, pygmatic tourmaline veinlets, 2% semi-massive to massive pyrite associated with mafic fuchsitized fragments and 2% disseminated pyrite all hosted in a sericitized porphyritic felsic unit. The third interval contains up to 15% pyrite-tourmaline stringers hosted in a silicified and sericitized porphyritic felsic dike. The last interval contains local visible gold with up to 20% pyrite-silica flooding and 2% pyrite-tourmaline stringers within a silicified and sericitized felsic dike.

OSK-W-17-1380 intersected **25.5 g/t Au over 2.1 metres** in Underdog. Mineralization contains semi-massive to massive pyrite, up to 7% pyrite-tourmaline and pyrite stringers and 3% disseminated pyrite within a sericitized porphyritic felsic dike. It is located 50 metres west of OSK-EAG-13-505 (**8.37 g/t Au over 4.8 metres**, previously released January 16, 2018).

OSK-W-17-1394 intersected **13.0 g/t Au over 2.1 metres** in Caribou Extension. Mineralization contains 1% disseminated pyrite and traces of pyrite stringers within a chloritized andesite with moderate carbonate alteration.

OSK-W-18-1402-W1 intersected a mineralized vein in Red Dog intrusion returning **3.57 g/t Au over 2.5 metres**. Mineralization is composed of 20-centimetre wide quartz vein with traces of pyrite.

OSK-W-18-1418 intersected **6.72 g/t Au over 3.4 metres** in Caribou. Mineralization contains up to 5% pyrite and quartz-tourmaline veins at the chloritized contact between an andesite and a porphyric felsic dike.

OSK-W-18-1423 intersected **3.07 g/t Au over 2.6 metres** in Bobcat. Mineralization corresponds with quartz-carbonates veins with 5% pyrite in a moderately sericitized andesite with fuschite and up to 2% disseminated pyrite.

OSK-W-18-1431-W1 intersected FW3 with **4.25 g/t Au over 2.5 metres** in Underdog. Mineralization is composed of two decimetre-scale pyrite stringers within a sericitized and silicified porphyritic felsic dike.

OSK-W-18-1431-W2 intersected FW1 with **3.55 g/t Au over 2.0 metres** in Underdog. Mineralization contains up to 5% fragments of pyrite-stringers and 3% disseminated pyrite in a foliated and sericitized porphyritic felsic dike with fuchsite.

OSK-W-18-1435 intersected **16.7 g/t Au over 2.5 metres** related to Caribou Extension. Mineralization contains 1% disseminated pyrite and 3% pyrite-quartz clusters within a gabbro with moderate carbonate alteration.

OSK-W-18-1457 intersected **10.5 g/t Au over 2.3 metres** in Bobcat. Mineralization contains up to 4% pyrite stringers associated with a tourmaline breccia hosted in a sericitized felsic porphyritic intrusion.

OSK-W-18-1459 intersected **9.52 g/t Au over 2.0 metres** in Bobcat. Mineralization contains 8% pyrite stringer, 3% pyrite stringers and clusters and 2% pyrite in a crustiform vein in a silicified and chloritized gabbro with strong fuchsite alteration.

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), Project Manager of the Windfall Lake 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 widths determinations are estimated at 65-80% of the reported core length intervals for most of the zones. 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 3.0 g/t Au diluted over core lengths of at least 2.0 metres. All NQ core assays reported were obtained by either 1-kilogram screen fire assay or standard 50-gram fire-assaying-AA finish or gravimetric finish at ALS Laboratories in Val d'Or, Québec, Thunder Bay and Sudbury, Ontario or Vancouver, British Columbia or 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 an Aqua Regia-ICP-AES 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 Lake Gold Deposit

The Windfall Lake gold deposit is located between Val-d'Or and Chibougamau in the Abitibi region of Québec, Canada. The mineral resource defined by the previous operator comprises 2,762,000 tonnes at 8.42 g/t Au (748,000 ounces) in the indicated category and 3,512,000 tonnes at 7.62 g/t Au (860,000 ounces) in the inferred category (sourced from a technical report dated June 10, 2015 entitled "Preliminary Economic Assessment of the Windfall Lake Gold Property, Québec, Canada" with an effective date of April 28, 2015, prepared in accordance with NI 43-101). The Windfall Lake gold deposit is currently one of the highest grade resource-stage gold projects in Canada. The bulk of the mineralization occurs in the Main Zone, a southwest/northeast trending zone of stacked mineralized lenses, measuring approximately 600 metres wide and at least 1,400 metres long. The deposit is well defined from surface to a depth of 500 metres, and remains open along strike and at depth. Mineralization has been identified only 30 metres from surface in some areas and as deep as 870 metres in others, with significant potential to extend mineralization up and down-plunge and at depth.

About Osisko Mining Inc.

Osisko is a mineral exploration company focused on the acquisition, exploration, and development of precious metal resource properties in Canada. Osisko holds a 100% in the high-grade Windfall Lake 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 Quevillon area (over 3,300 square kilometres), a 100% interest in the Marban project located in the heart of Québec's prolific Abitibi gold mining district, and properties in the Larder Lake Mining Division in northeast Ontario, including the Jonpol and Garrcon deposits on the Garrison property, the Buffonta past producing mine and the Gold Pike mine property. The Corporation also holds interests and options in a number of additional properties in northern Quebec and Ontario. Osisko continues to be well financed with approximately \$190 million in cash and investments as of December 31, 2017.

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. The information in this news release about the Windfall Lake gold deposit being one of the highest grade resource-stage gold projects in Canada; the current 800,000 metre drill program; the significance of new results from the ongoing drill program at the Windfall Lake gold project; the significance of assay results presented in this press release; the type of drilling included in the drill program (definition, expansion and exploration drilling in and around the main Windfall Lake gold deposit and the adjacent Lynx deposit, and exploration drilling on the greater deposit and Urban-Barry project area); potential mineralization; the potential to extend mineralization up and down-plunge and at depth at the Windfall Lake gold deposit; the ability to realize upon any mineralization in a manner that is economic; the ability to complete any proposed exploration activities and the results of such activities, including the continuity or extension of any mineralization; and any other information herein that is not a historical fact may be "forward-looking information". Any statement that involves discussions with respect to 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", "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 forward-looking information is based on reasonable assumptions and estimates of management of the Corporation. at the time it was made, involves known and unknown risks, uncertainties and other factors which may cause the actual results, performance or achievements of Osisko to be materially different from any future results, performance or achievements expressed or implied by such forward-looking information. 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 drilling; property interests in the Windfall Lake gold project; the ability of the Corporation to obtain required approvals and complete transactions on terms announced; 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.

For further information please contact:

John Burzynski, President and Chief Executive Officer

Telephone: (416) 363-8653