



79  
**Au**  
Gold

.....  
196.967

# DEVELOPING THE WORLD CLASS HIGH-GRADE WINDFALL DEPOSIT IN QUÉBEC

February 2023



# Cautionary Statements



## CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING INFORMATION

This presentation (this "Presentation") of Osisko Mining Inc. ("Osisko" or the "Corporation") 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 presentation. 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 presentation 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 FS providing a robust base case assessment for developing Windfall as an underground dual ramp-access mine with a central processing mill at the mine site; the results of the engineering work being undertaken on the project; reliance on third-parties for infrastructure, including power lines; the timing and progress of the EIA study; the timing and progress of the mine permitting process; the results of the FS, including NPV, IRR, production, cash flows, capex, AISC, milling operations, average recovery, job creation; the key assumptions, parameters and methods used to estimate the mineral resource estimate relating to the FS; the prospects of Windfall being a highly-profitable gold mine; the ability of the Corporation to obtain project financing in H1 2023 (if at all); the basis for the Corporation making a production decision early in 2024 (if at all); the prospects, if any, of the Windfall gold deposit; timing and ability of Osisko to file a technical report for the FS disclosed in this presentation; 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; the timing and ability, if at all, to finalize the EIA study; the timing and ability, if at all, to obtain permits; the FS' reliance on third-parties for infrastructure critical to build and operate the project, including power lines; our ability to obtain power for the project, if at all or on terms economic to the Corporation; the status of third-party approvals or consents; 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 Canadian/United States dollar exchange rate; the global economic climate; metal (including gold) prices; dilution; environmental risks; and community and non-governmental actions. Risks and uncertainties about Osisko's business are more fully discussed in the disclosure materials filed with the securities regulatory authorities in Canada, which are available on SEDAR ([www.sedar.com](http://www.sedar.com)) under Osisko's issuer profile. Readers are urged to read these materials and should not place undue reliance on any forward-looking statement and information contained in this Presentation.

Although the forward-looking information contained in this presentation 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.

Unless otherwise noted, this Presentation has been prepared based on information available as of January 10, 2023.

## Non-IFRS Financial Measures

The Corporation has included certain non-IFRS financial measures in this Presentation and references contained herein, such as capital cost, sustaining capital cost, total capital cost and AISC, which are not measures recognized under IFRS and do not have a standardized meaning prescribed by IFRS. As a result, these measures may not be comparable to similar measures reported by other corporations. Each of these measures used are intended to provide additional information to the user and should not be considered in isolation or as a substitute for measures prepared in accordance with IFRS. Non-IFRS financial measures used in this presentation and common to the gold mining industry are defined below.

### *Total Cash Costs and Total Cash Costs per Ounce*

Total cash costs are reflective of the cost of production. Total cash costs reported in the FS include mining costs, processing, general and administrative costs of the mine, off-site costs, refining costs, transportation costs and royalties. Total cash costs per ounce is calculated as total cash costs divided by payable gold ounces.

### *AISC and AISC per Ounce*

AISC (all-in sustaining cost) is reflective of all of the expenditures that are required to produce an ounce of gold from operations. AISC reported in the FS includes total cash costs, sustaining capital, closure costs and salvage, but excludes corporate general and administrative costs. AISC per ounce is calculated as AISC divided by payable gold ounces.



# Cautionary Statements



## Technical Reports

### *Feasibility Study*

#### *Mineral Reserve Estimate and Mineral Resource Estimate*

The Windfall gold deposit is located between Val-d'Or and Chibougamau in the Abitibi region of Québec, Canada. The mineral resource estimate on Windfall (with an effective date of June 7, 2022 ) (the "Windfall Resource Estimate") and the mineral reserve estimate on Windfall (with an effective date of November 25, 2022) (the "Windfall Reserve Estimate") are described in the technical report (with an effective date of November 25, 2022) and entitled "Feasibility Study for the Windfall Project, Eeyou Istchee James Bay, Québec, Canada". The Windfall Resource Estimate, assuming a cut-off grade of 3.50 g/t Au, comprises 811,000 tonnes at 11.4 g/t Au (297,000 ounces) in the measured mineral resource category, 10,250,000 tonnes at 11.4 g/t Au (3,754,000 ounces) in the indicated mineral resource category and 12,287,000 tonnes at 8.4 g/t Au (3,337,000 ounces) in the inferred mineral resource category. The Windfall Mineral Reserve, assuming 3.5 g/t operating, 2.5 g/t incremental, and 1.7 g/t development cut-off grade, comprises 12,183,000 tonnes at 8.06 g/t Au (3,159,000 ounces) in the probable mineral reserves category. **The key assumptions, parameters, limitations and methods used in the Feasibility Study for Windfall, including the related Windfall Resource Estimate and Windfall Reserve Estimate, are further described in the technical report entitled "Feasibility Study for the Windfall Project, Eeyou Istchee, James Bay, Québec, Canada" (the "FS Technical report"), which was prepared in accordance with National Instrument 43-101 – *Standards of Disclosure for Mineral Projects* ("NI 43-101"). The FS Technical Report is available on SEDAR ([www.sedar.com](http://www.sedar.com)) under Osisko'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 areas: Lynx, Main, and Underdog. Mineralization is generally comprised of sub-vertical lenses following intrusive porphyry contacts plunging to the northeast. The resources are defined from surface to a depth of 1,600 metres, including the Triple 8 (TP8) zone. The reserves are defined from surface to a depth of 1,100 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.

### *Independent Qualified Persons*

The FS referred to herein was prepared for Osisko by BBA Inc. and other industry consultants, each of whom is a "qualified person" within the meaning of NI 43-101 and considered to be "independent" of Osisko under Section 1.5 of NI 43-101, including the following:

- Patrick Andrieux, P.Eng. (A2GC – Andrieux & Associates Geomechanics Consulting L.P.)
- Colin Hardie, P.Eng., Mathieu Bélisle, P.Eng. (BBA Inc.)
- Patrick Langlais, P.Eng. (Entech Mining Ltd.)
- Pierre-Luc Richard, P. Geo. (PLR Resources Inc.)
- Andréanne Hamel, P. Eng., Aytaç Göksu, P. Eng., Eric Poirier, P. Eng., PMP, Frédéric Choquet, P.Eng., Isabelle Larouche, P.Eng., Ken DeVos, P. Geo., Yves Boulianne, P. Eng. (WSP Canada Inc.)
- Mélissa Tremblay, P. Eng. (GCM Consultants)

Each "qualified person" noted above has reviewed and approved the scientific and technical content in the FS and summarized in this presentation.

## CAUTIONARY STATEMENT REGARDING MINERAL RESERVE AND RESOURCE ESTIMATES

This Presentation uses the terms probable, measured, indicated and inferred mineral resources as a relative measure of the level of confidence in the reserve and resource estimate. Readers are cautioned that mineral resources are not mineral reserves and that the economic viability of resources that are not mineral reserves has not been demonstrated. The mineral resource estimate disclosed in this Presentation may be materially affected by geology, environmental, permitting, legal, title, socio-political, marketing or other relevant issues. It cannot be assumed that all or any part of an inferred mineral resource will ever be upgraded to an indicated or measured mineral resource category, however, it is reasonably expected that the majority of Inferred Mineral Resources could be upgraded to Indicated Mineral Resources with continued exploration. The mineral resource estimate is classified in accordance with the Canadian Institute of Mining, Metallurgy and Petroleum's "*CIM Definition Standards on Mineral Resources and Mineral Reserves*" incorporated by reference into NI 43-101. Under NI 43-101, estimates of inferred mineral resources may not form the basis of feasibility or pre-feasibility studies or economic studies except for preliminary economic assessments. Readers are cautioned not to assume that further work on the stated resources will lead to mineral reserves that can be mined economically.

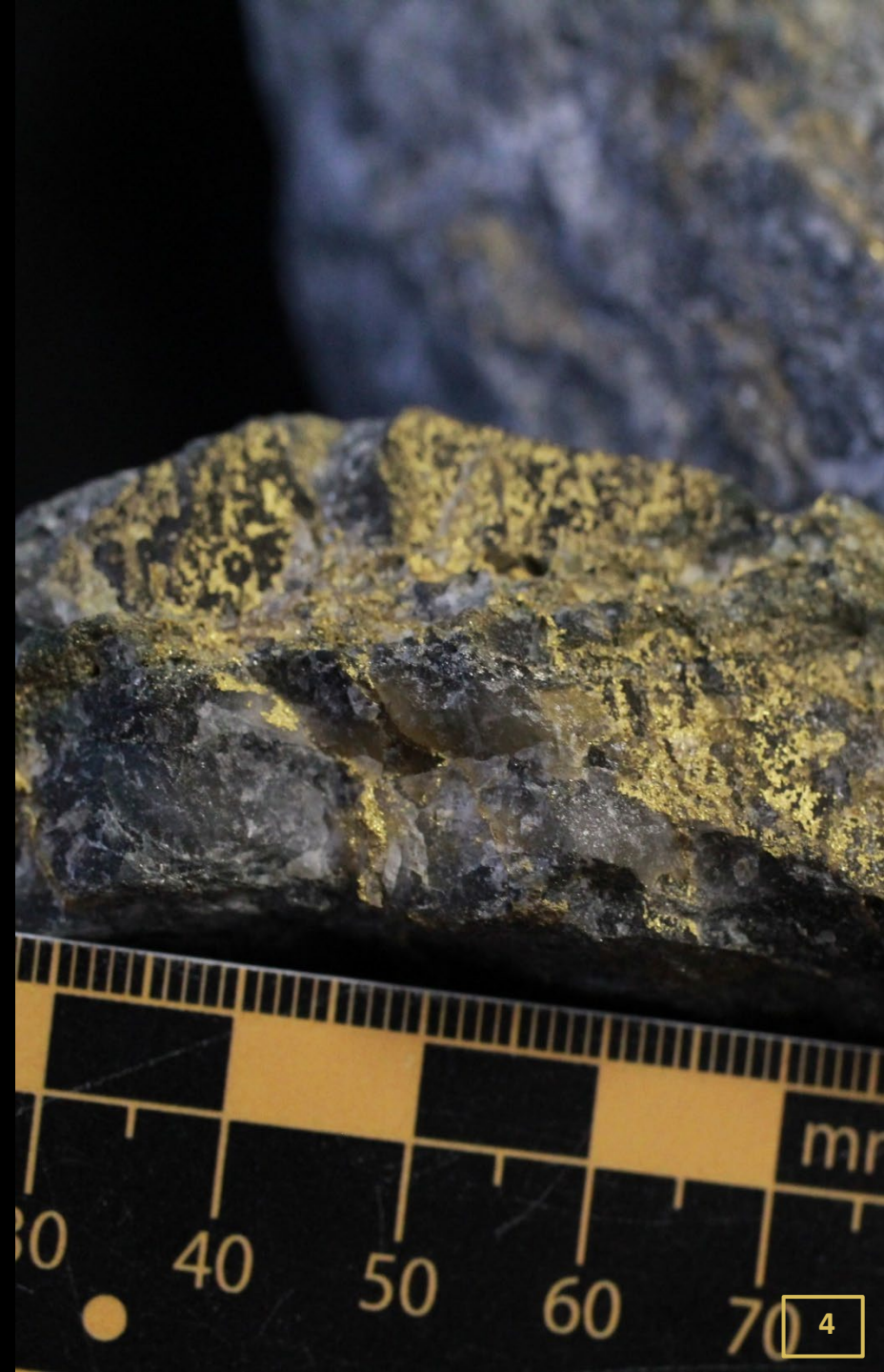
### *Qualified Person*

*The scientific and technical content in this presentation has been reviewed and approved by Mr. Mathieu Savard, P.Geo (OGQ #510), President of Osisko, who is a "qualified person" within the meaning of NI 43-101.*



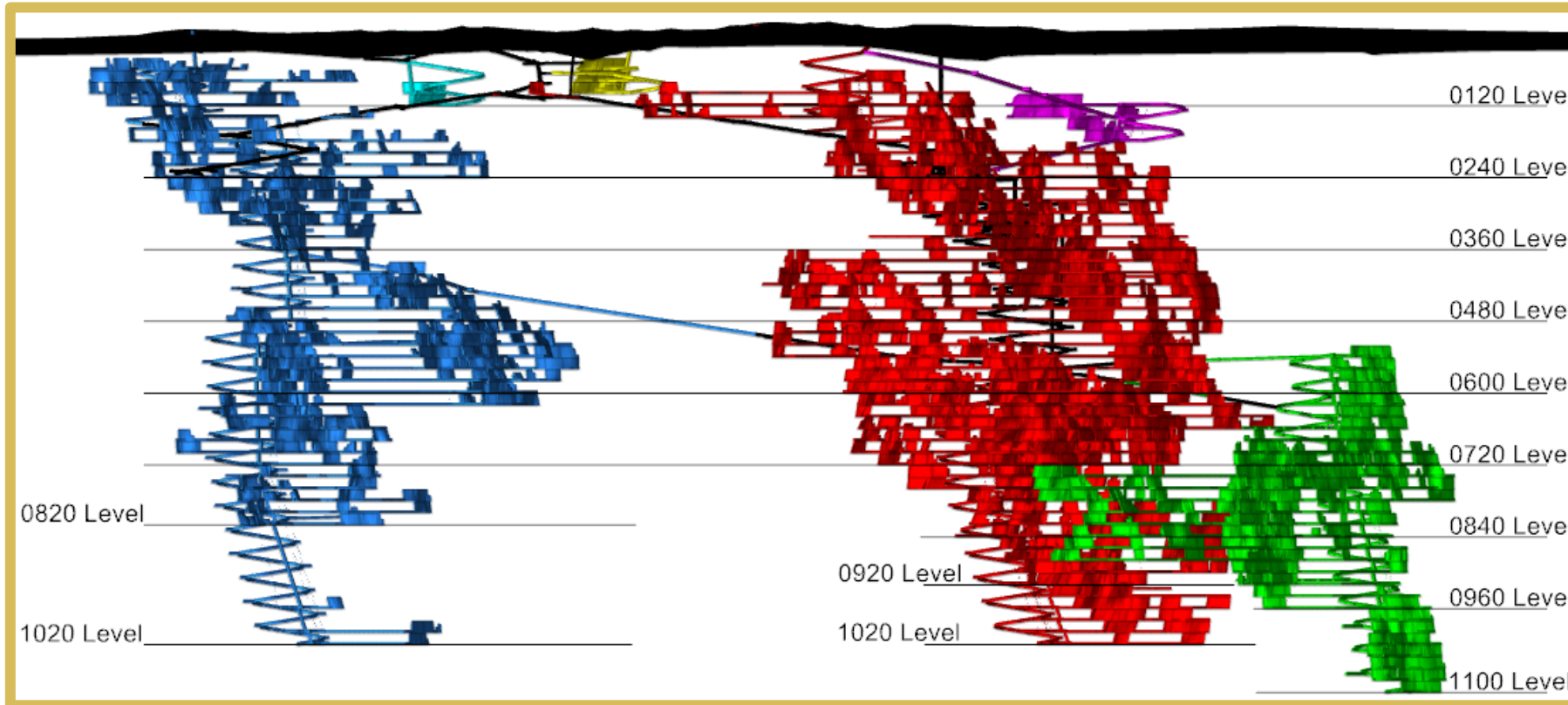
# TIER ONE POTENTIAL

- **2022 Feasibility Study (US\$1,600)**
  - C\$ 1.2B After Tax NPV<sub>5%</sub>
  - 34% After-tax IRR
  - 2.0-year after-tax payback
- **Targeting significant near-term production**
- **Management with proven Tier One experience: World Class Canadian Malartic Mine (discovery, delineation, permitting, financing, build and production)**
- **2023 Catalysts**
  - Impact and benefit agreement (IBA) with First Nations partners
  - Mine finance package
  - Permitting
  - On-going underground works
  - On-going property wide regional exploration





# 2022 Feasibility – Mine Design



- 178 km of development
- ~18 km developed/year

- Targeted production:
  - 3,400 tpd ore
  - 5,400 tpd total material

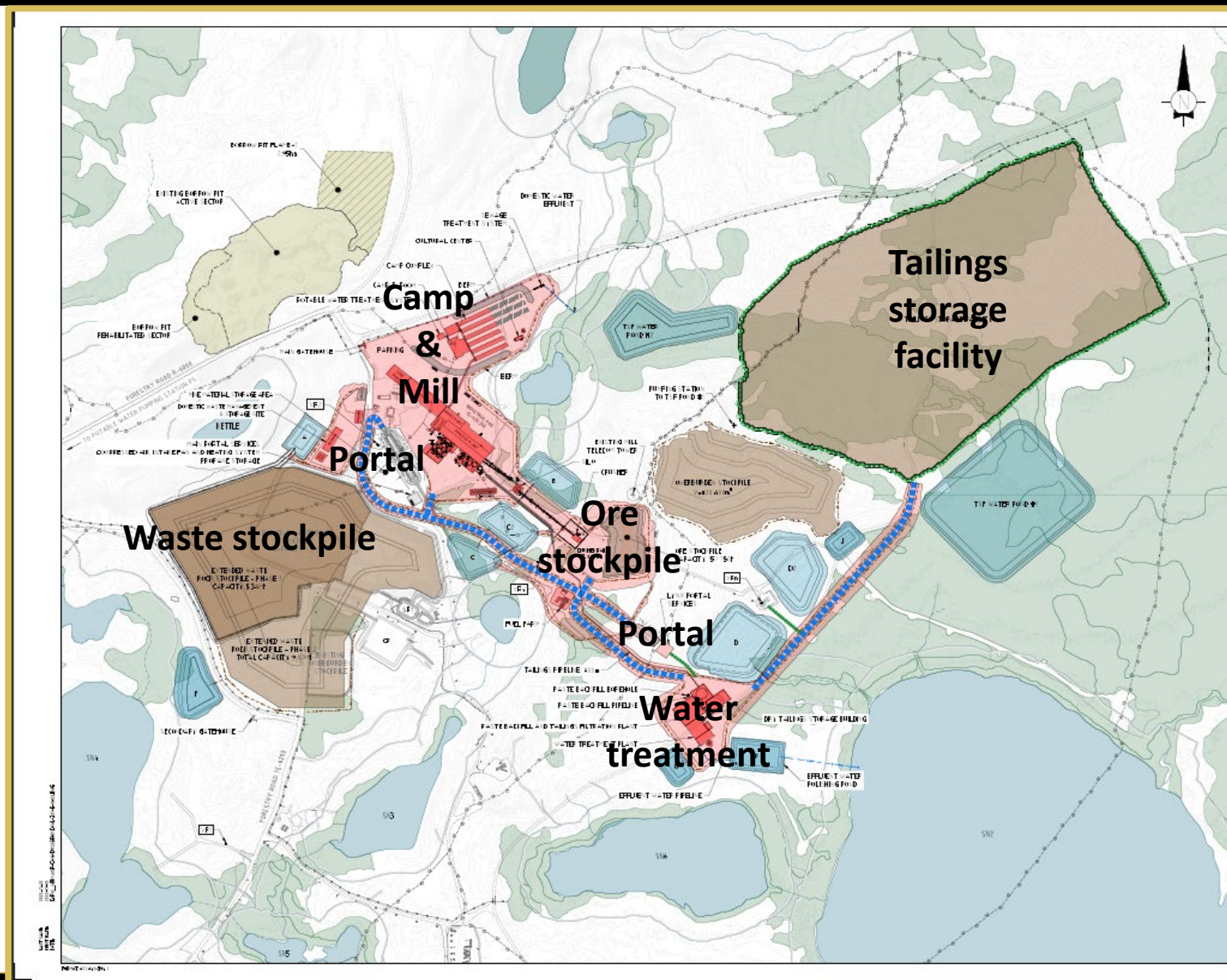
- Stope dimensions
  - 20 m high
  - 25 m length (median)
  - 4.4 m wide (median)
  - Min. 3 m wide
- Average stope 5,000 t

Jumbos/Zone	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Main	-	-	0.6	1.6	2.2	1.7	1.3	1.8	2.5	2.9	2.2	-
Lynx	1.8	3.5	3.0	2.6	2.4	1.7	2.9	2.2	1.6	0.6	-	-
Lynx 4HW	0.4	1.4	1.4	0.7	0.2	1.6	0.8	0.9	0.1	-	0.2	0.1
Stopes/Month	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Main	-	-	-	1	4	7	4	2	3	4	15	7
Lynx	-	4	9	11	8	9	11	13	11	12	4	2
Lynx 4HW	-	-	3	3	2	2	4	2	4	3	2	1





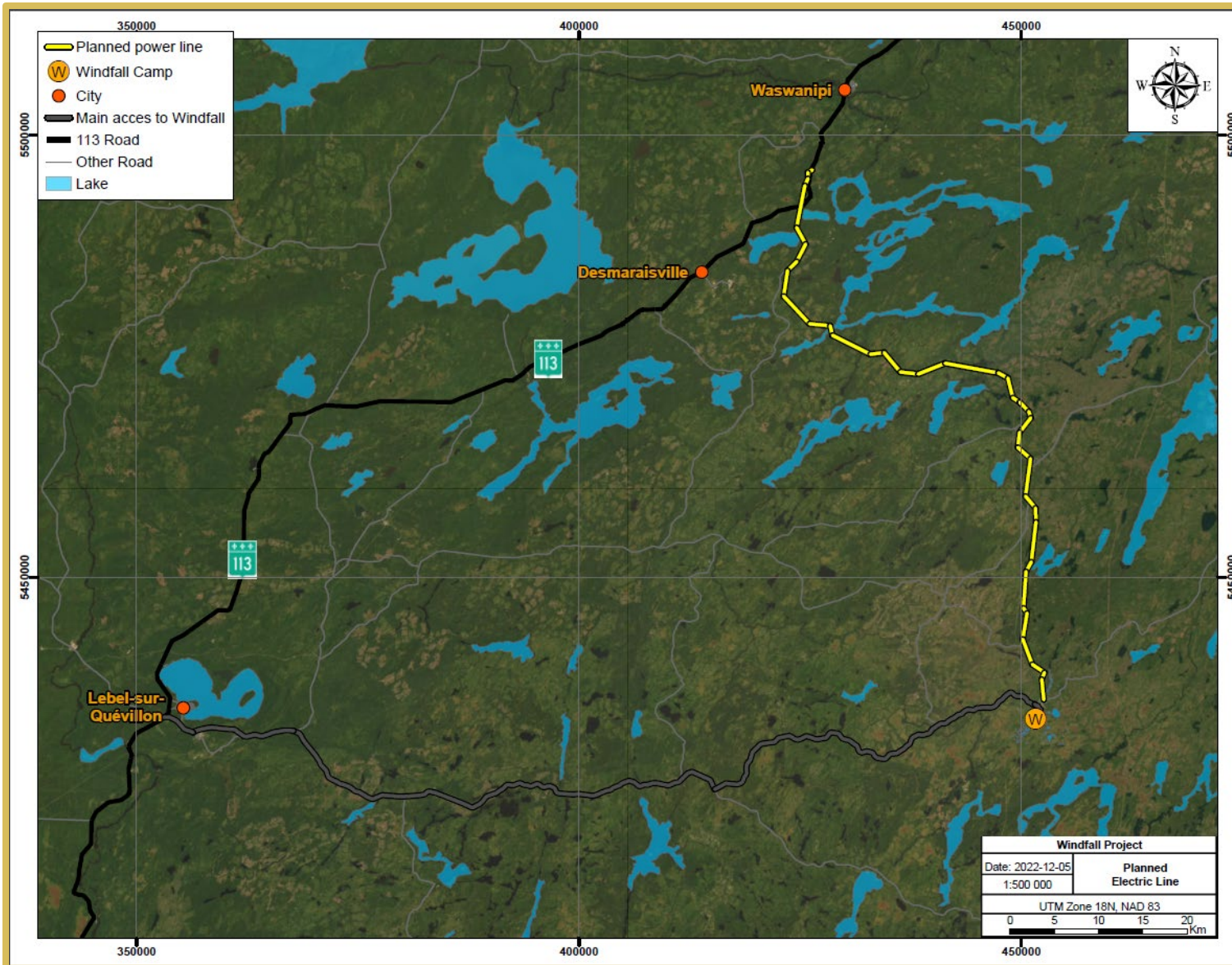
# 2022 Feasibility – Site Layout







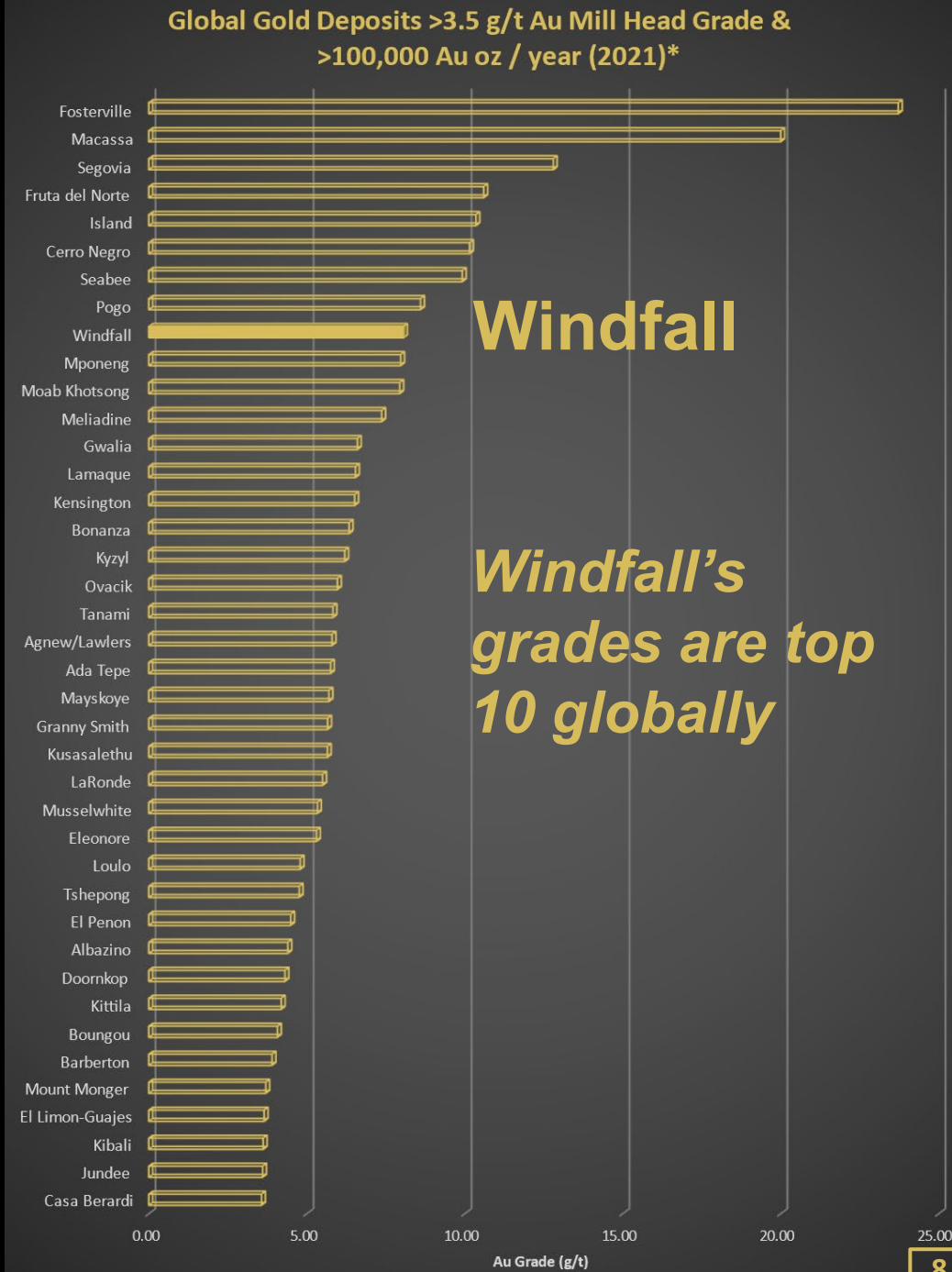
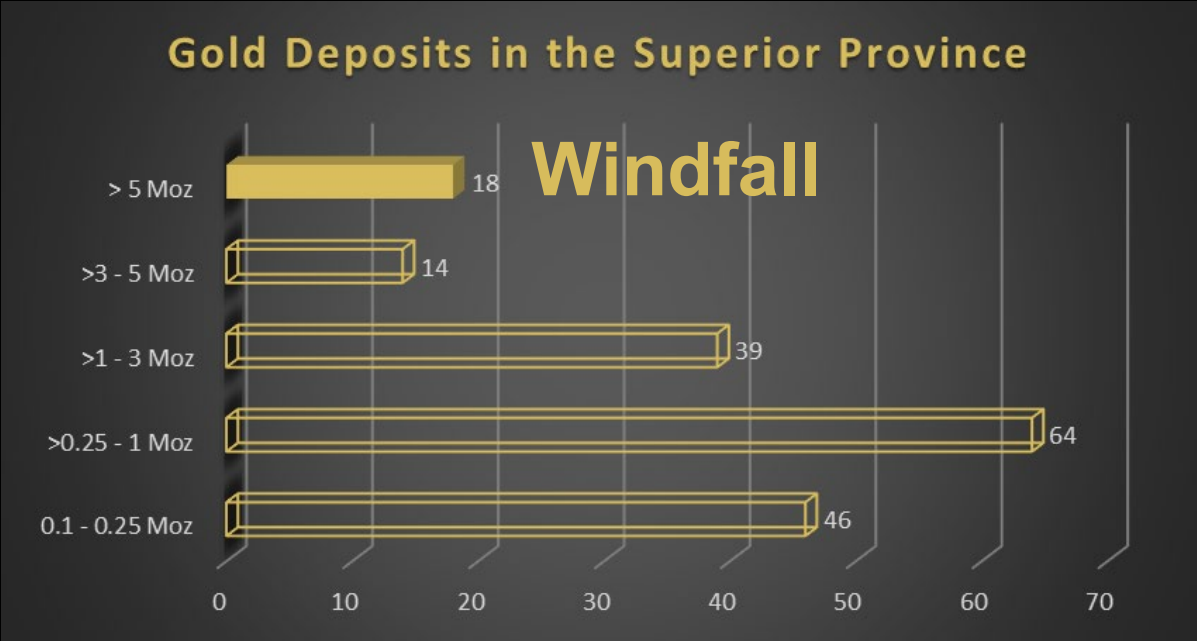
# Power line Agreement with Cree First Nation of Waswanipi



- 69 kV dedicated transmission line will provide hydroelectricity to Windfall
- Owned & operated by Miyuukaa Corp, a wholly-owned corporation of the Cree First Nation of Waswanipi

# WORLD CLASS SCALE & WORLD CLASS GRADE

- ❖ **GRADE:** mill head grade of 8.1 g/t Au – Top 10 global\*
- ❖ **OUNCES:** only 10% of deposits ever discovered in the Superior Province (Timmins to Val D’Or) were >5 Moz<sup>+</sup>



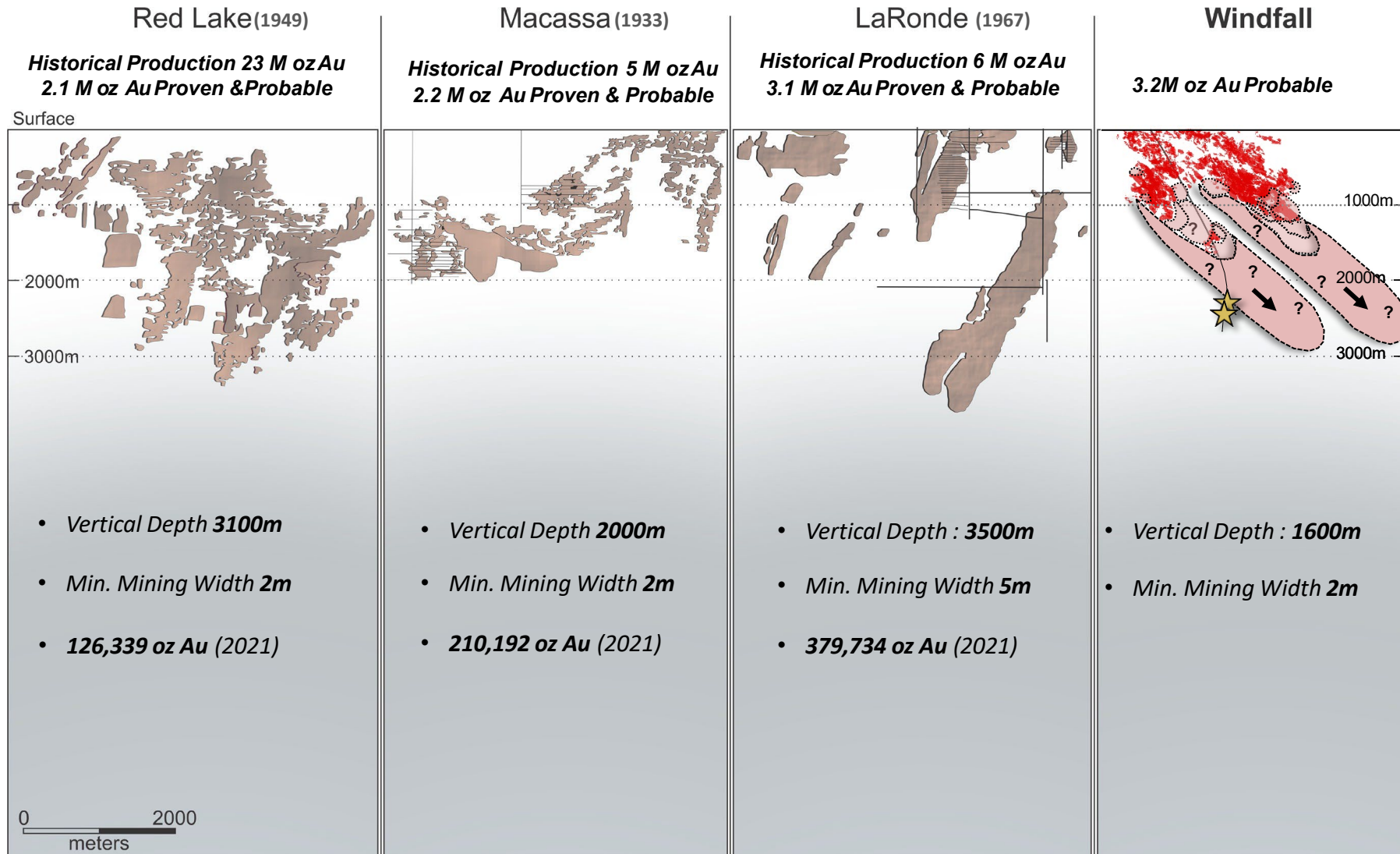
Source: \*2021 S&P Global Data, 2021 head grade , + Mercier-Langevin et al. (2020)

Fictional representation of where Windfall would plot with a 8.1 g/t Au diluted grade





# Major High-Grade Canadian Archean Gold Deposits



# Windfall MRE and Upside Potential

**Mineral Resource Estimate**  
Effective date June 7, 2022  
Cut-off grade : 3.5g/t Au

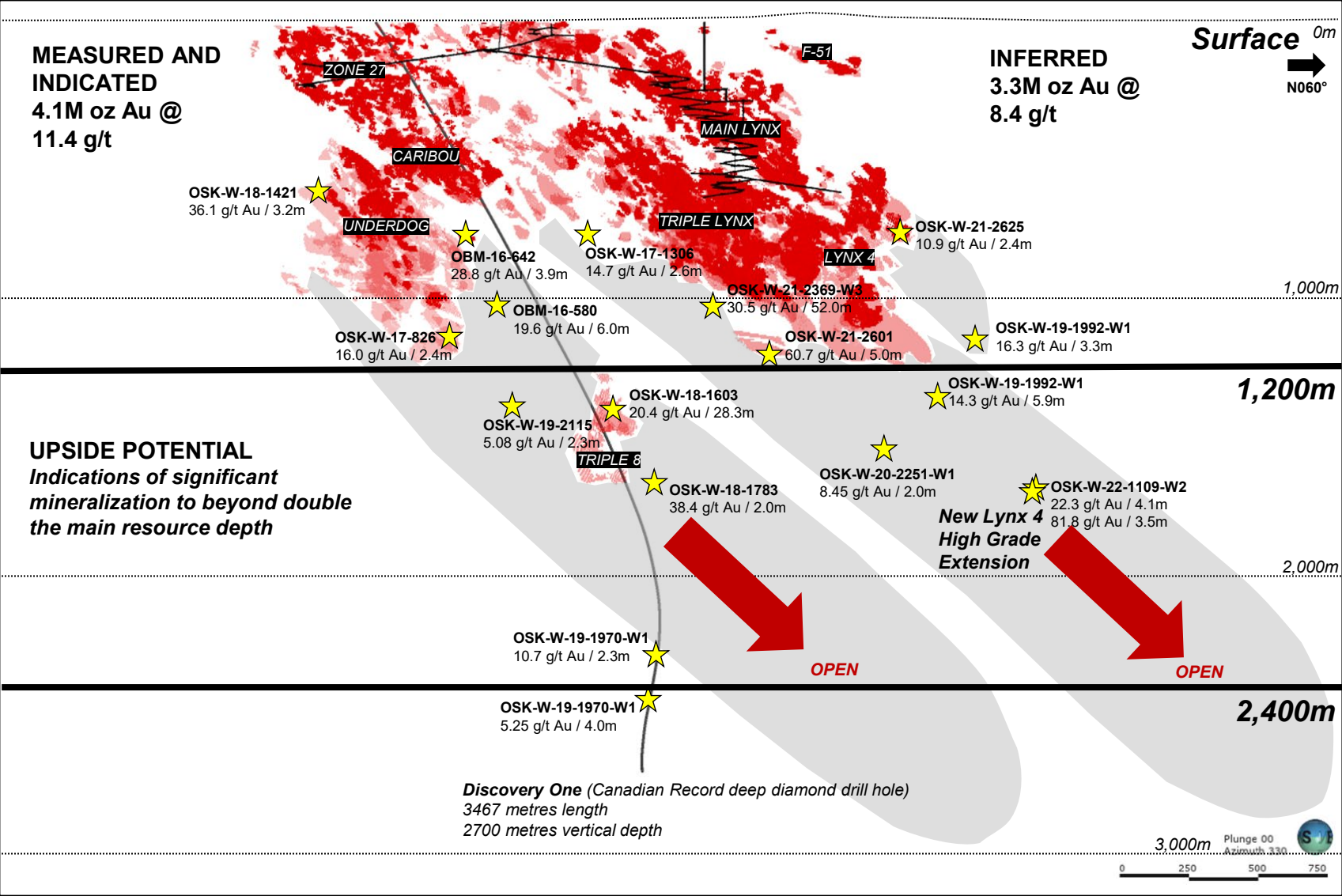
**Measured & Indicated**

**Inferred**

**Significant Intersect with Open Upside**  
(previously disclosed and available under the issuer's SEDAR profile)

**Potential**

**Current Ramp**

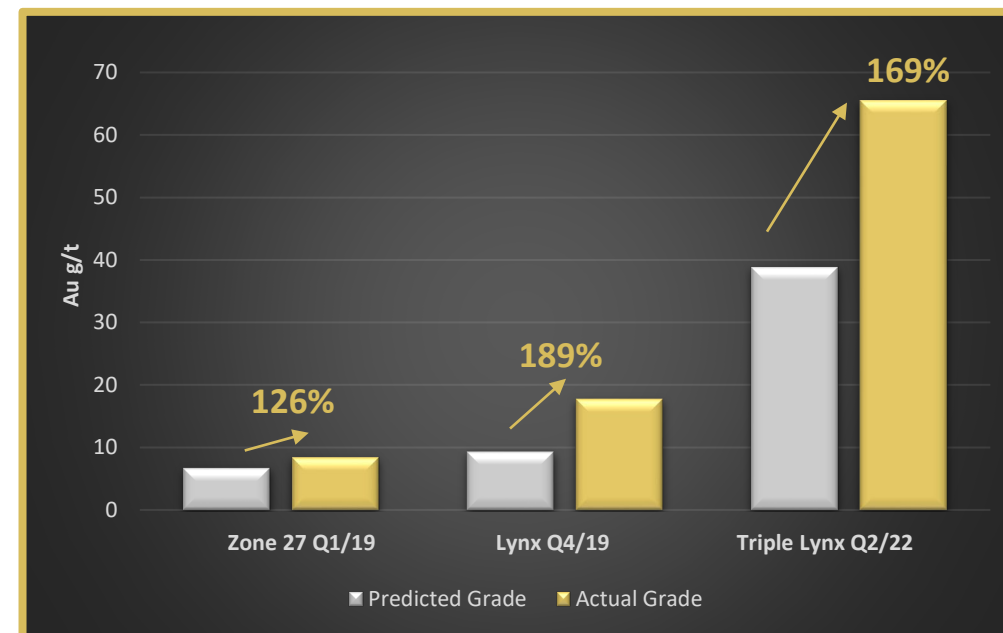
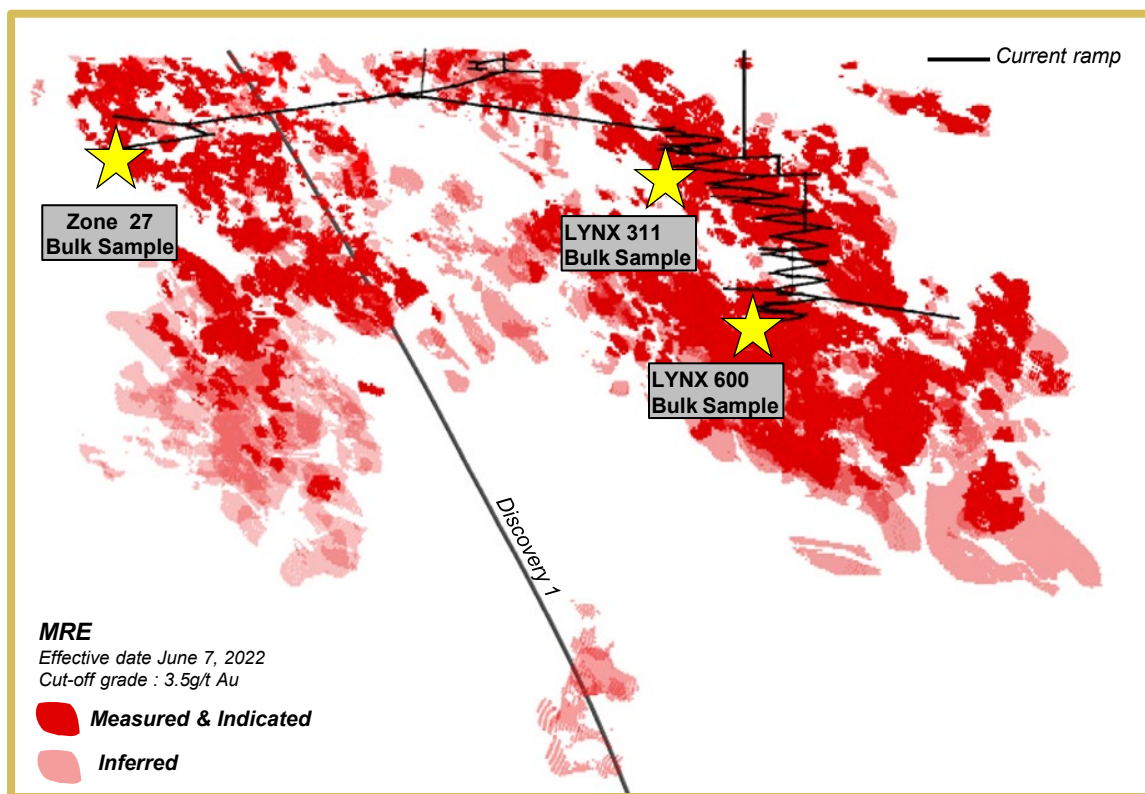


Infinite Longitudinal View



# Underground Exploration – Bulk Samples

- **Positive reconciliation** for all three bulk samples\*
- Aggregate of **14,914 oz Au** from 16,025 tonnes
- Average Au **recovery 94.1%**



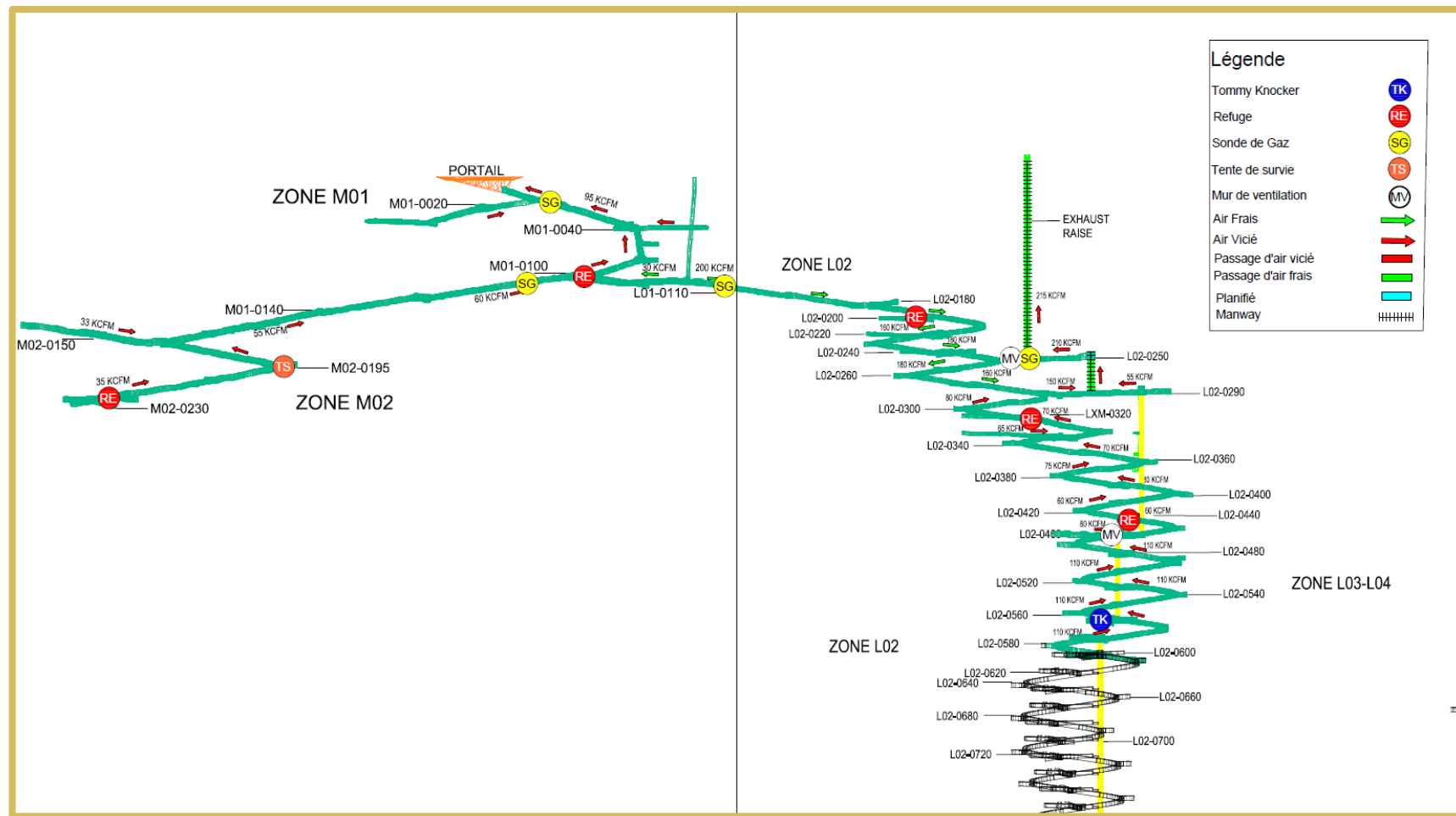
Area		Predicted	Actual	Reconciliation
Zone 27 Q1/19	Tonnage (t)	5,512	5,500	100%
	Au g/t	6.8	8.5	126%
	Au oz	1,198	1,508	126%
Lynx Q4/19	Tonnage (t)	5,717	5,716	100%
	Au g/t	9.4	17.8	189%
	Au oz	1,736	3,271	189%
Triple Lynx Q4/22	Tonnage (t)	4,800	4,809	100%
	Au g/t	38.9	65.5	169%
	Au oz	6,009	10,135	169%

\*see Osisko news releases dated June 11, 2019, December 11, 2019, October 27, 2022

# □ Exploration Ramp in Place

## Underground work completed to date:

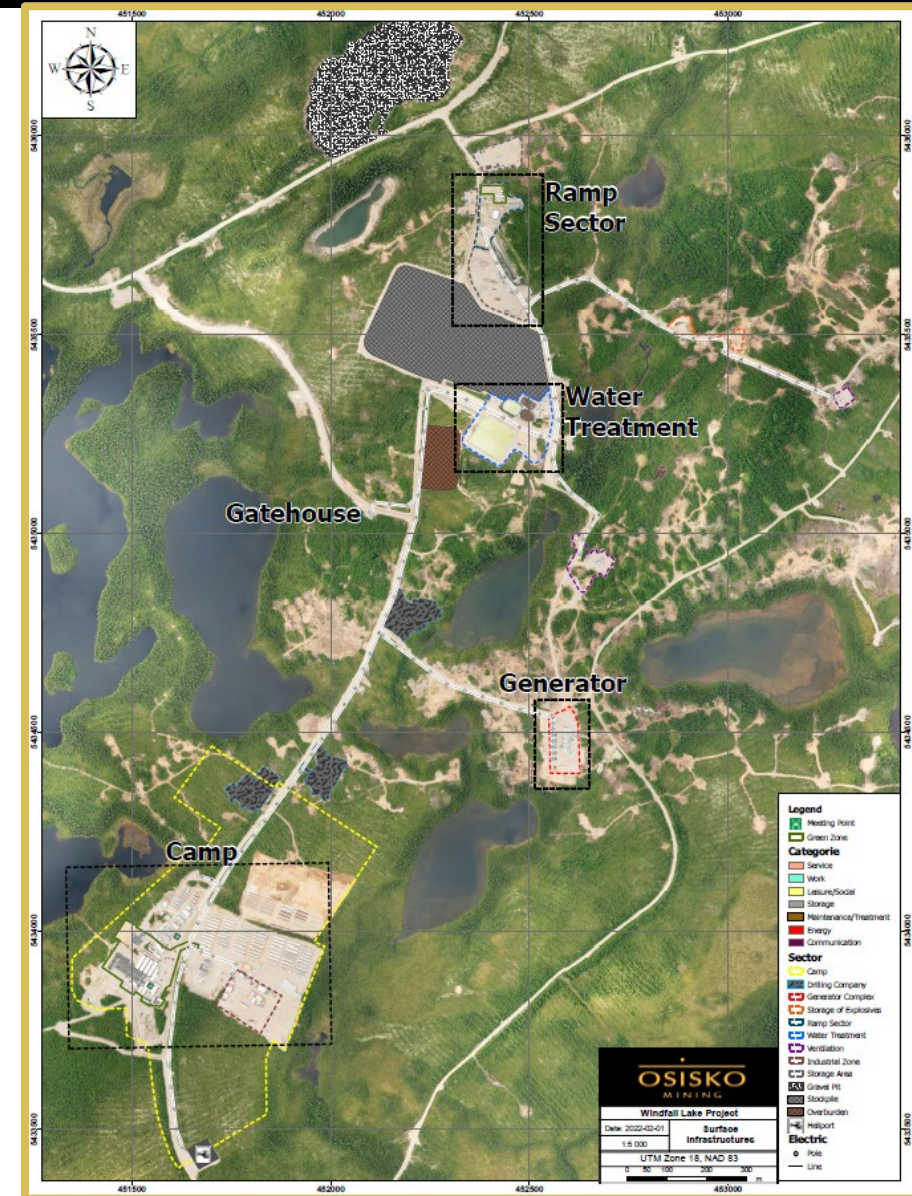
- 12.5 km of exploration ramp access
- 635 metres vertical depth
- 6 refuge stations
- 12 electrical substations
- 3 pumping stations
- 15 sumps
- 2 powder & cap magazine
- Fiber optic communication to level 0580
- Ramp services
  - 11.2 km of ventilation (including exhaust fan and heating system at surface)
  - 10.0 km of water
  - 7.9 km compressed air
- 1 wash bay
- 3 Storage bays
- 4 ventilation raises
- 40 drill bays
- 1 test stope



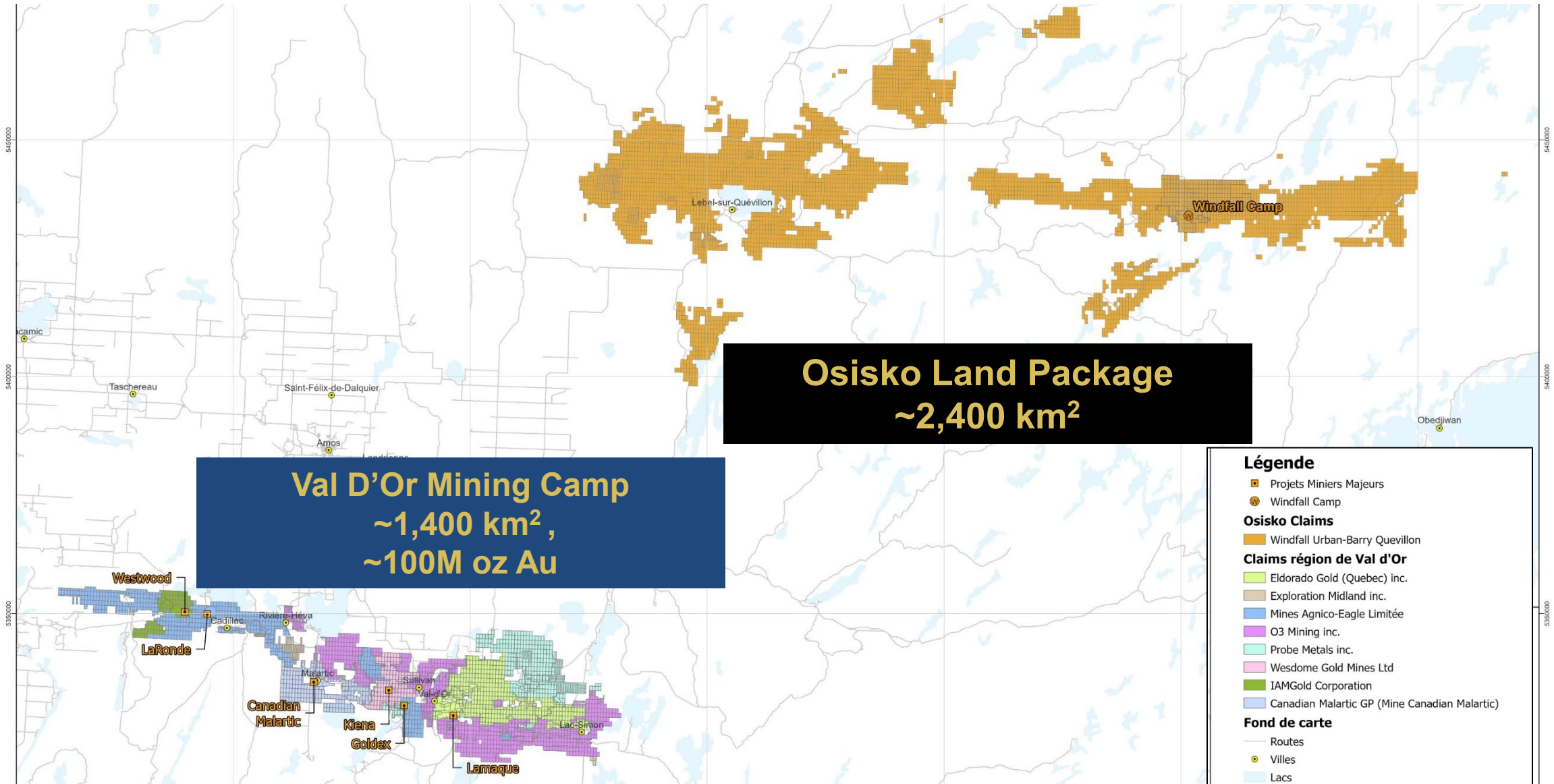


## Existing Civil Works

- Accommodation complex
- Nursing station
- COVID 19 laboratory
- Helicopter pad
- Gate house & security
- 3 drinking water wells
- 6 septic fields
- 4 administrative offices, 100 workstations
- Communication tower
- Fiber optic communication
- Weather station
- 5 Core shacks
- 111 racks of core
- Kitchen, composter, compactor
- Recreation areas (gym, hockey, volleyball)
- 3 heated storage domes & 2 storage pads
- 4 parking areas
- 84,068 m<sup>2</sup> lined waste pad
- 100 m<sup>3</sup>/h lined water treatment
- Progressive rehabilitation of drill pads



# Osisko Claim Package – Mining Camp Scale





# Summary



- ◆ Highest grade gold deposit (>1 Moz Au) ever discovered in Québec
- ◆ World-class in scale & grade, Windfall continues to grow
  - ◆ Positive feasibility study & robust economics
  - ◆ Resource depth: from surface to 1,200m
  - ◆ Bulk samples: 126%, 189%, and 169% positive reconciliation
- ◆ Rapid project advancement
- ◆ Regional potential to be the next major Abitibi mining camp
- ◆ Top ranked ESG



# Appendix

79

Au

Gold

196.967



# ENVIRONMENT - SOCIAL - GOVERNANCE

## Environment

- Evaluate effects of our work and **minimize risk** to the environment through **active management**
- Ensure the conservation of natural resources and reasonable use of consumable goods

## Social

- Promote a safe, healthy, respectful, diverse and inclusive workplace
- Establish and maintain respectful relationships with host communities and contribute to their socio-economic development through local hiring, responsible procurement and sponsorships (>100 First Nations employees)

## Governance

- 6 of 8 members of the Board of Directors are independent
- Board gender diversity: 37.5% women

## ESG Highlights

- >5 years of sustainability reporting
- 35.2 Sustainalytics rating (43 out of 122 in Precious Metals) – Similar to Northern Star & Wesdome
- MSCI ESG Rating of “A”\*



# 2022 FEASIBILITY STUDY SUMMARY & SENSITIVITIES

## Lower Case

US \$1,300/oz Au

C\$ 0.6B After Tax NPV<sub>5%</sub>

22% After-Tax IRR

3.0 Year After-Tax Payback

## Base Case

US \$1,600/oz Au

C\$ 1.2B After Tax NPV<sub>5%</sub>

34% After-Tax IRR

2.0 Year After-Tax Payback

## Higher Case

US \$1,900/oz Au

C\$ 1.7B After Tax NPV<sub>5%</sub>

44% After-Tax IRR

1.6 Year After-Tax Payback

**306,000 Au oz/year**

LOM average annual production

**US\$758/oz**

AISC LOM

**8.1 g/t Au**

LOM average grade

**10-year LOM**

**CND\$ 789M CAPEX**

NPV/CAPEX ratio 1.5

## Highlights

**374,000 Au oz/year**

Peak production – Year 2

**US\$587/oz**

Cash cost LOM

**US\$136/t**

All-in mining cost

C\$6.2 Billion gross revenue

C\$2.3 Billion cumulative free cash flow

C\$257 Million Average Annual After-Tax Free Cash Flow per Full Year of Production

# 2022 FEASIBILITY STUDY

## Summary

Total mineralized material mined (t)	12,183,405
Average stope diluted gold grade (Au g/t)	8.14
Average stockpile development diluted gold grade (Au g/t)	7.65
Average mill feed diluted gold grade (Au g/t)	8.06
Total Gold Contained (oz)	3,158,713
Total Gold Produced (oz)	2 942 339
Total Gold Payable (oz)	2,940,868
Gold Payable Recovery (%)	93.1%
Average Annual Gold Produced (gold oz per year)	294,234
Total initial CAPEX (C\$Million)	788.6
Sustaining Capital (C\$Million)	587.6
<b>Operating Cost (per tonne milled)</b>	
Mining (C\$)	82.21
Processing (C\$)	40.76
Waste & Water Management (C\$)	6.30
General & Administration (C\$)	32.81
Electrical Transmission Line Lease (C\$)	14.59
<b>Total Unit Operating Costs (per tonne milled) (C\$)</b>	<b>176.67</b>

## All-In Sustaining Cost

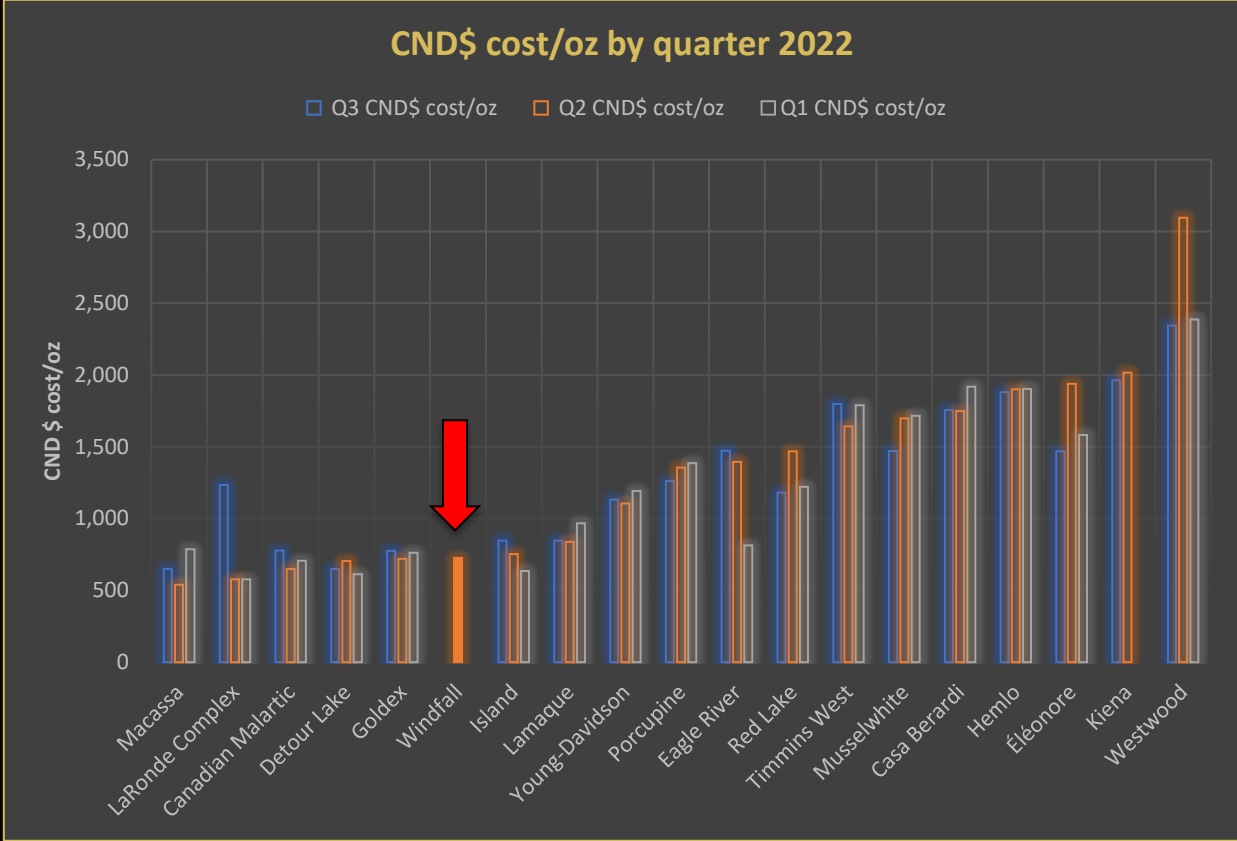
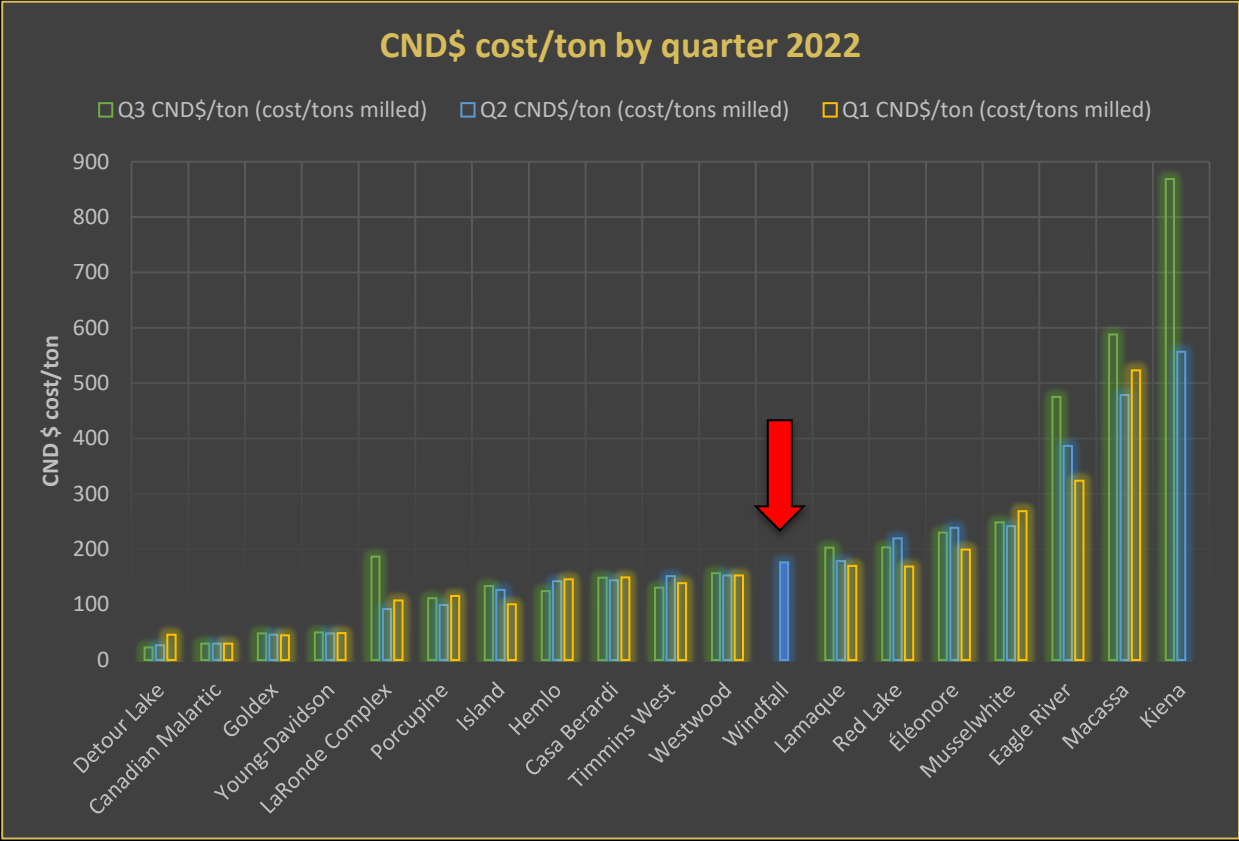
<b>Adjusted Operating Costs</b>	
Mining Cost <sup>(1)</sup>	993.0
Processing Cost <sup>(1)</sup>	492.3
Tailing & Water Management Cost <sup>(1)</sup>	76.1
General & Administrative Cost <sup>(1)</sup>	396.3
Electrical Transmission Line Lease Cost <sup>(1)</sup>	176.2
Royalties <sup>(1)</sup>	127.4
Transport and Refining Costs <sup>(1)</sup>	20.0
Ag By-Product Credit <sup>(1)</sup>	(37.5)
Adjusted Operating Costs <sup>(1)</sup>	2,244.0
<b>Sustaining Costs</b>	
LOM Sustaining Costs <sup>(1)</sup>	587.6
Salvage Value Credit <sup>(1)</sup>	(18.7)
Reclamation and Closure Costs <sup>(1)</sup>	83.3
<b>Total<sup>(1)</sup></b>	<b>2,896.2</b>
<b>All-in Sustaining Costs (US\$/oz)</b>	<b>757.5</b>
<b>All-in Sustaining Costs (C\$/oz)</b>	<b>984.8</b>

(1) Millions of Canadian dollars

(2) All-in Sustaining Costs are presented as defines by the WGC less corporate G&A



# Comparison to Québec and Ontario Operations\*



Fictional representation of where Windfall would plot using a C\$177.67 cost/t and a C\$725.4 cost/oz

\* Based on company 2022 quarterly results available on their respective websites

## Mineral Reserve Estimate (3.5 g/t operating, 2.5 g/t incremental, 1.7 g/t development cut-off grade)

	Tonnes (000s)	Gold (g/t)	Contained Ounces Au (000s)
<b>Probable Mineral Reserves</b>	<b>12,183</b>	<b>8.06</b>	<b>3,159</b>

See slide 29 for notes for the Mineral Reserve Estimate, or the FS technical report, a copy of which is available on SEDAR ([www.sedar.com](http://www.sedar.com)) under Osisko's issuer profile.

## Mineral Resource Estimate 2022 (3.5 g/t Au cut-off) Effective date June 7, 2022

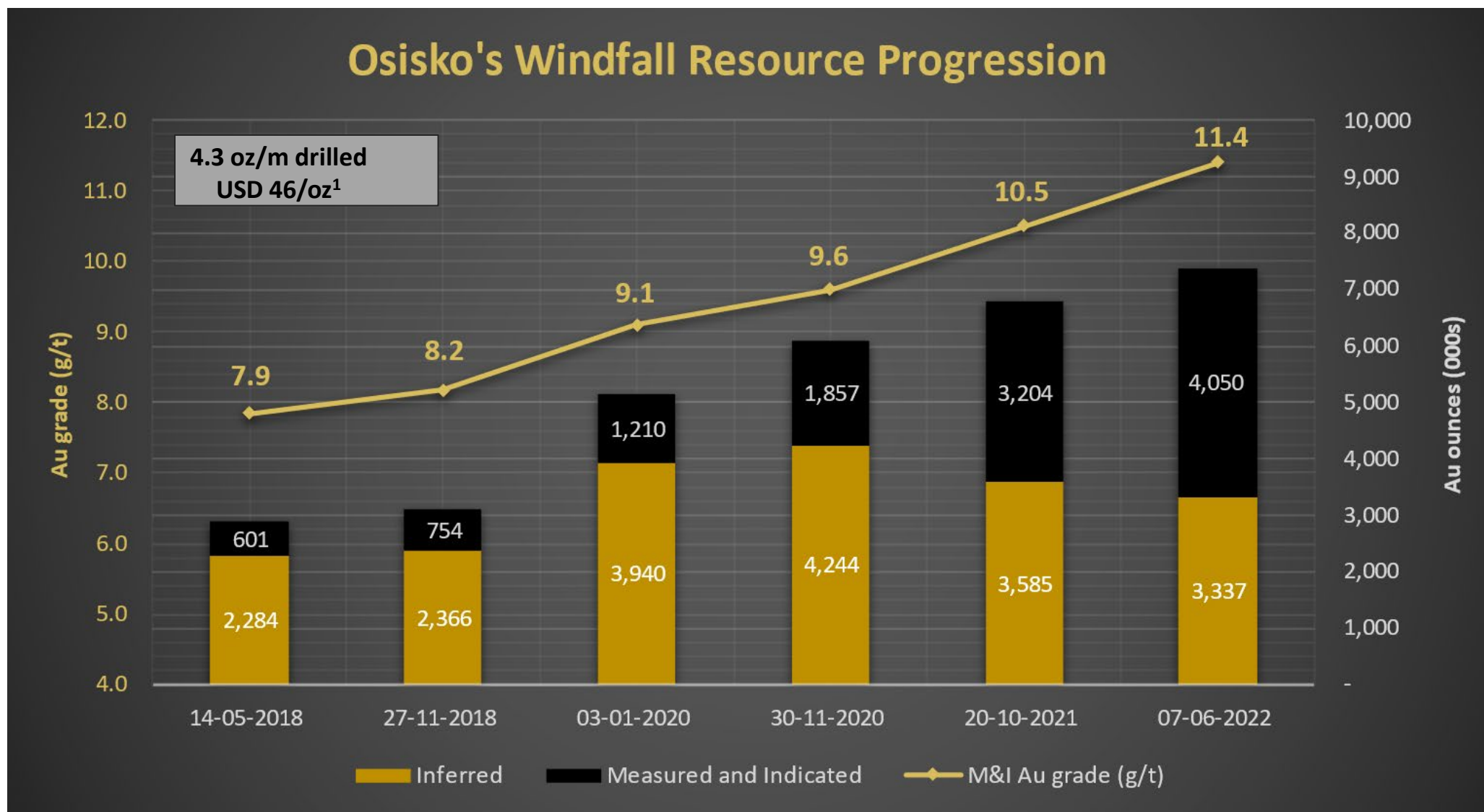
Area	Measured					Indicated					Inferred				
	Tonnes <sup>1</sup> (000 t)	Gold (g/t)	Ag (g/t)	Gold <sup>1</sup> (000 oz)	Ag <sup>1</sup> (000 oz)	Tonnes <sup>1</sup> (000 t)	Gold (g/t)	Ag (g/t)	Gold <sup>1</sup> (000 oz)	Ag <sup>1</sup> (000 oz)	Tonnes <sup>1</sup> (000 t)	Gold (g/t)	Ag (g/t)	Gold <sup>1</sup> (000 oz)	Ag <sup>1</sup> (000 oz)
Lynx <sup>2</sup>	671	11.4	7.2	247	154	6,638	13.2	6.7	2,814	1,426	4,774	10.8	6.9	1,663	1,063
Underdog	-	-	-	-	-	928	9.5	3.4	284	101	4,072	7.7	3.0	1,011	397
Main <sup>3</sup>	109	9.4	4.4	33	16	2,685	7.6	4.8	655	412	2,799	5.8	3.3	518	296
Triple 8	-	-	-	-	-	-	-	-	-	-	642	7.0	6.6	145	136
Total (in situ)	780	11.1	6.8	279	170	10,250	11.4	5.9	3,754	1,939	12,287	8.4	4.8	3,337	1,892
Stockpiles <sup>4</sup>	32	16.9	4.3	17	4	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>811</b>	<b>11.4</b>	<b>6.7</b>	<b>297</b>	<b>174</b>	<b>10,250</b>	<b>11.4</b>	<b>5.9</b>	<b>3,754</b>	<b>1,939</b>	<b>12,287</b>	<b>8.4</b>	<b>4.8</b>	<b>3,337</b>	<b>1,892</b>

**Notes:** <sup>1</sup>Values are rounded to nearest thousand which may cause apparent discrepancies. <sup>2</sup>Lynx area includes: Lynx Main, Lynx HW, Lynx SW, Lynx 4 and Triple Lynx. <sup>3</sup>Main area includes: Zone 27, Caribou 1&2, Caribou Extension, Bobcat, Mallard, Windfall Nord, and F-Zones. <sup>4</sup>Cut-off grade is not applicable to the stockpiles.

See slide 28 for notes for the Mineral Resource Estimate or 2022 MRE report, a copy of which is available on SEDAR ([www.sedar.com](http://www.sedar.com)) under Osisko's issuer profile.



# Resource Growth: Adding Significant Ounces

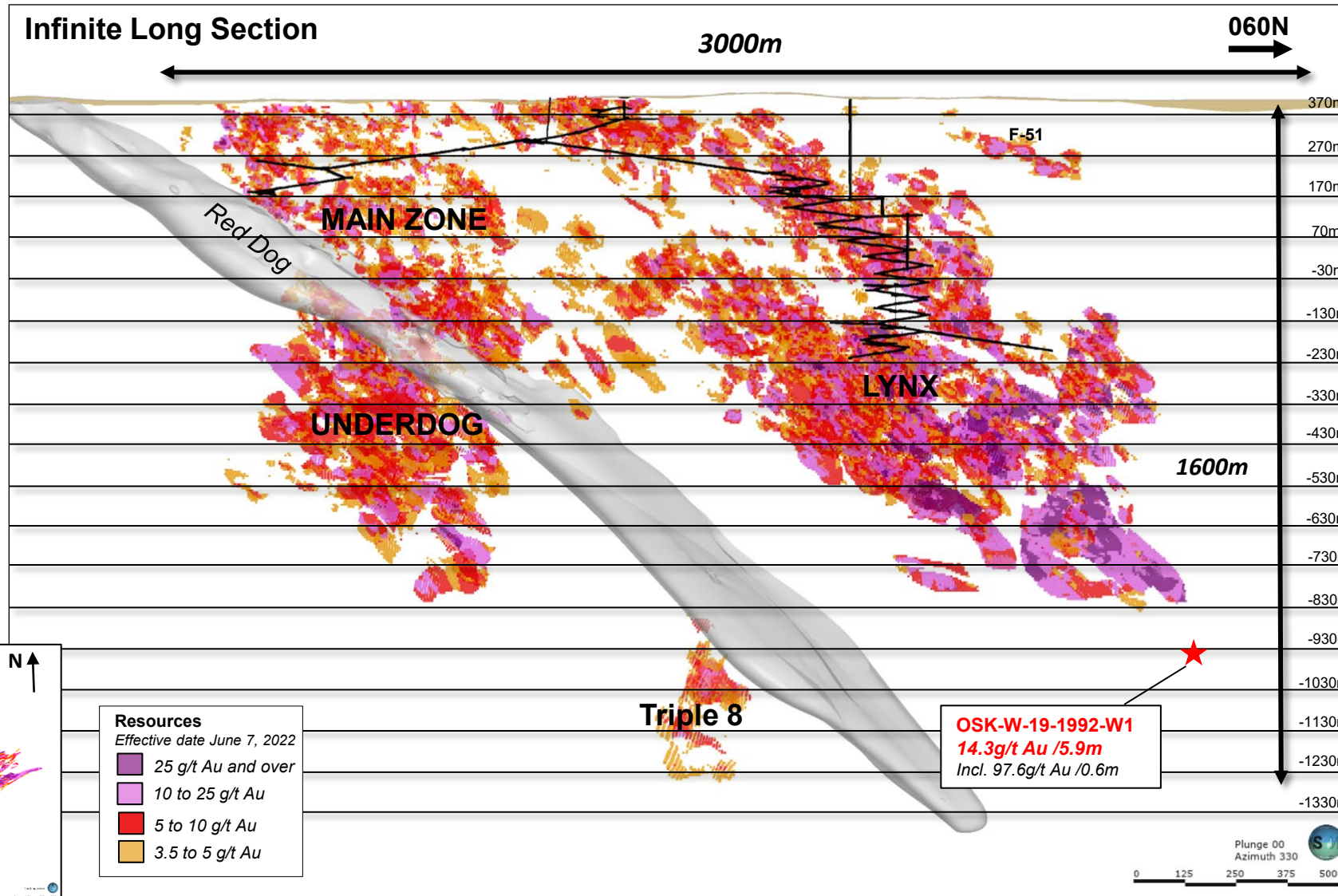


This graphic demonstrates the progression of the mineral resource at Windfall as at the effective dates of such mineral resource estimates shown on the x-axis of the graphic. Any mineral resource estimate other than the current 2022 MRE is (i) historic in nature, and (ii) being presented for illustrative purposes only and should not be relied upon.

<sup>1</sup>Non-audited estimation using actual exploration expenditures as of December 31st, 2021 (excluding exploration ramp expenditures), the amount of meters drilled by Osisko since 2015 and considering Quebec Tax Exploration Credit returns divided by global ounces. This is considered a non-GAAP number.

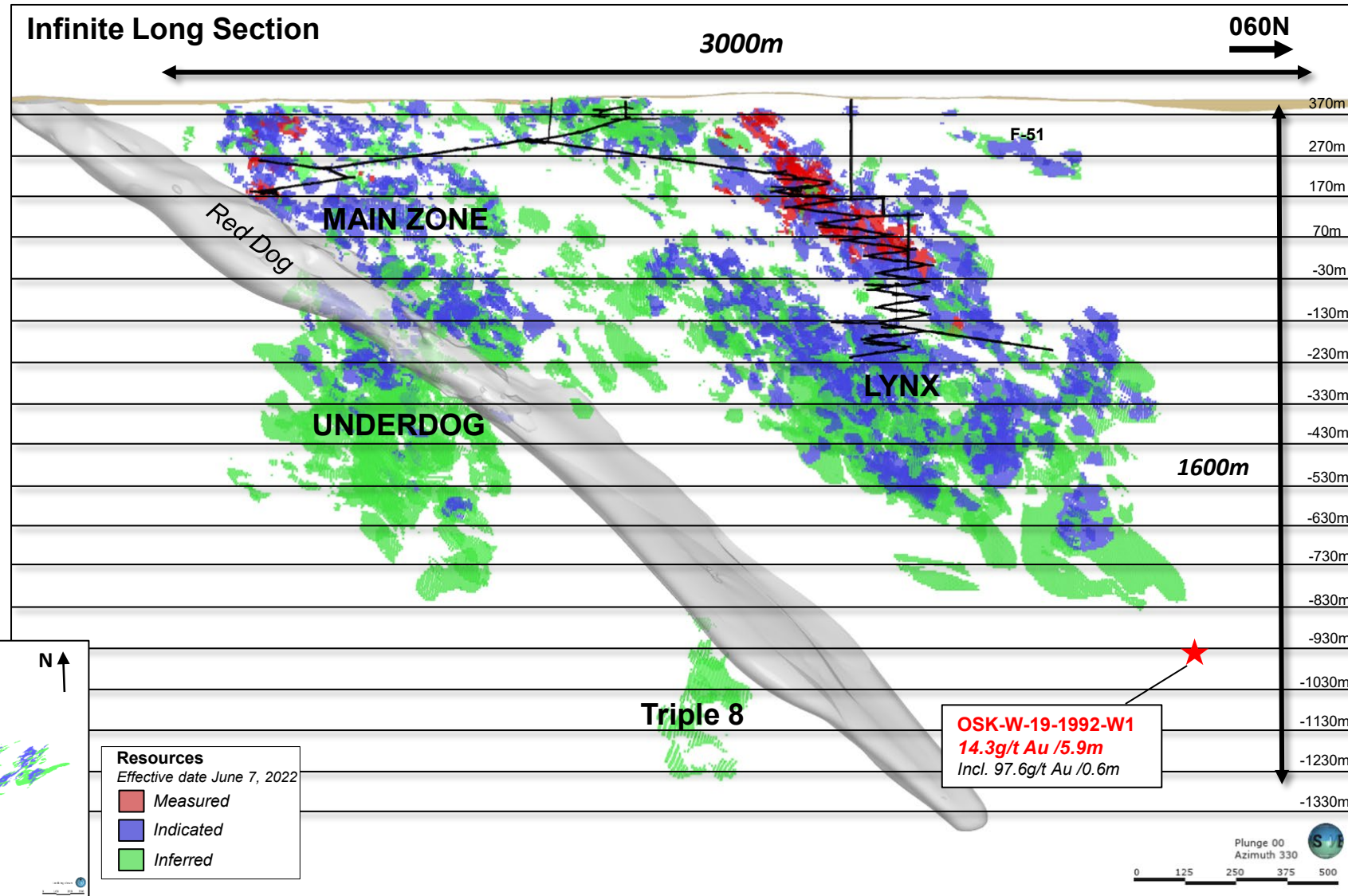


# Windfall Grade Isopachs: Higher Grade Down Plunge





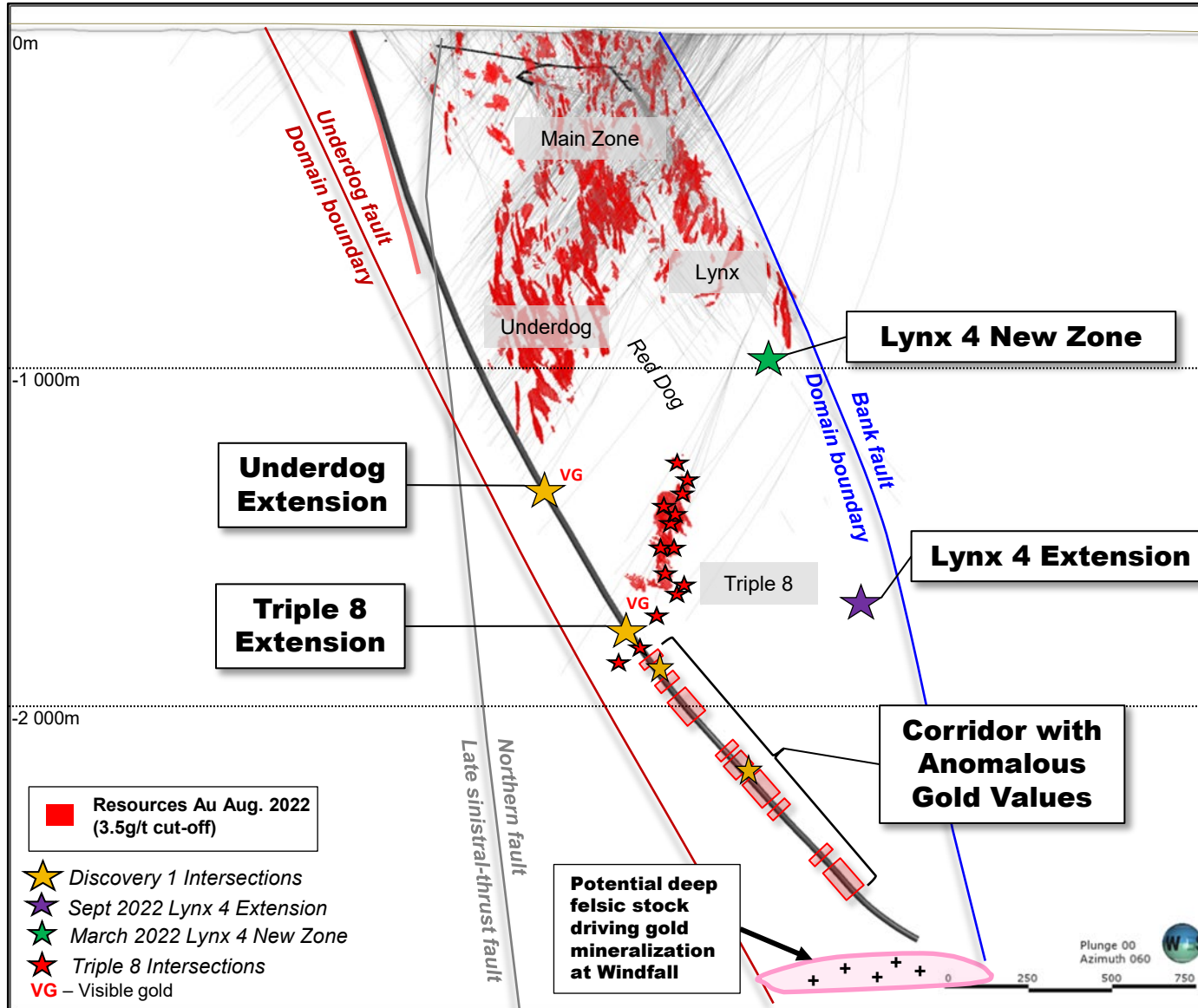
# Measured and Indicated Drilling Completed As Of June 2022





# Discovery 1: Strong Indications Of More

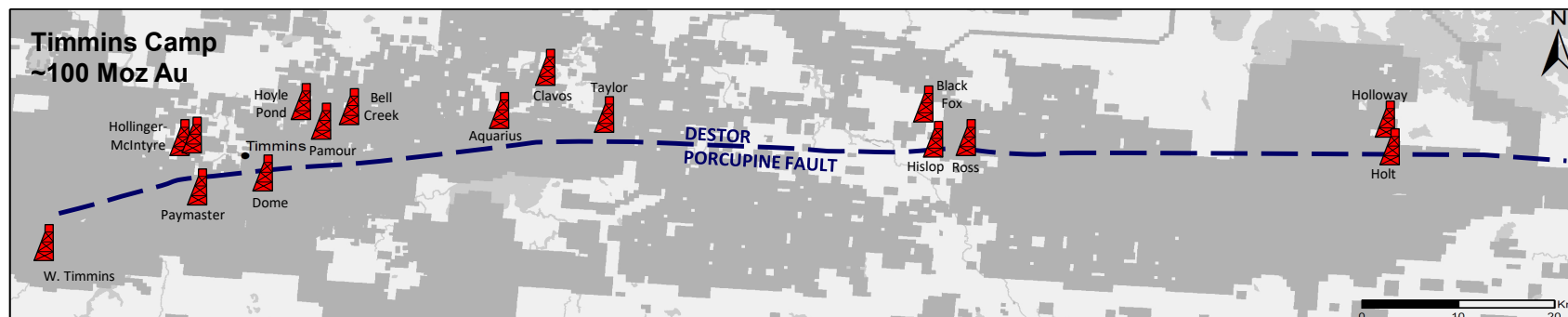
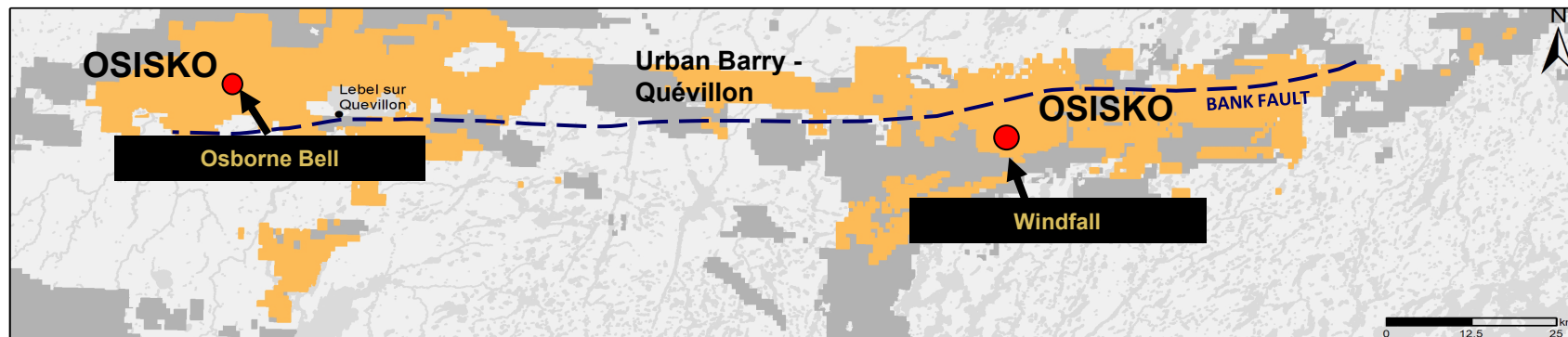
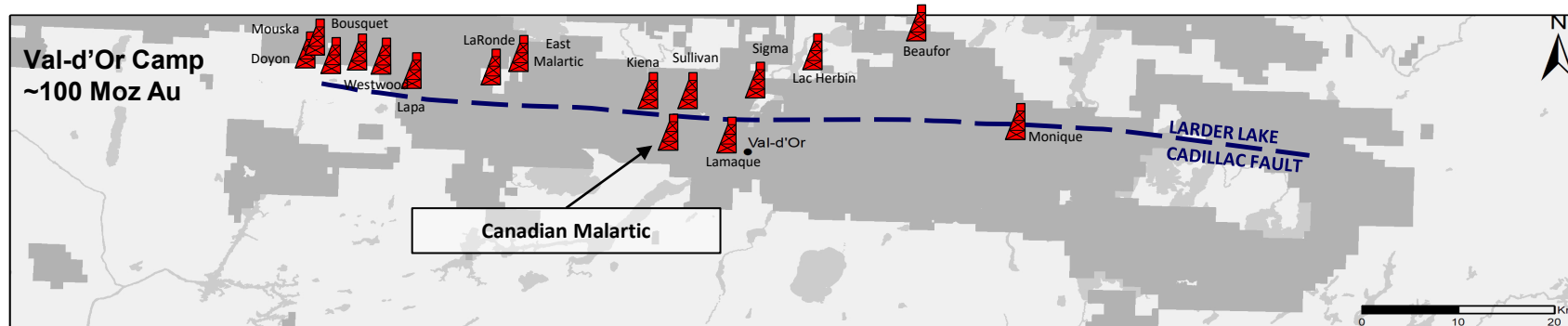
Section 3100 E 700m thickness





# Emerging Mining District

Urban Barry –  
Quévillon is a  
greenstone  
belt in the  
Abitibi bisected  
by major  
structure –  
same setting  
as Val D’Or and  
Timmins  
camps







# Windfall Area Discovery Potential

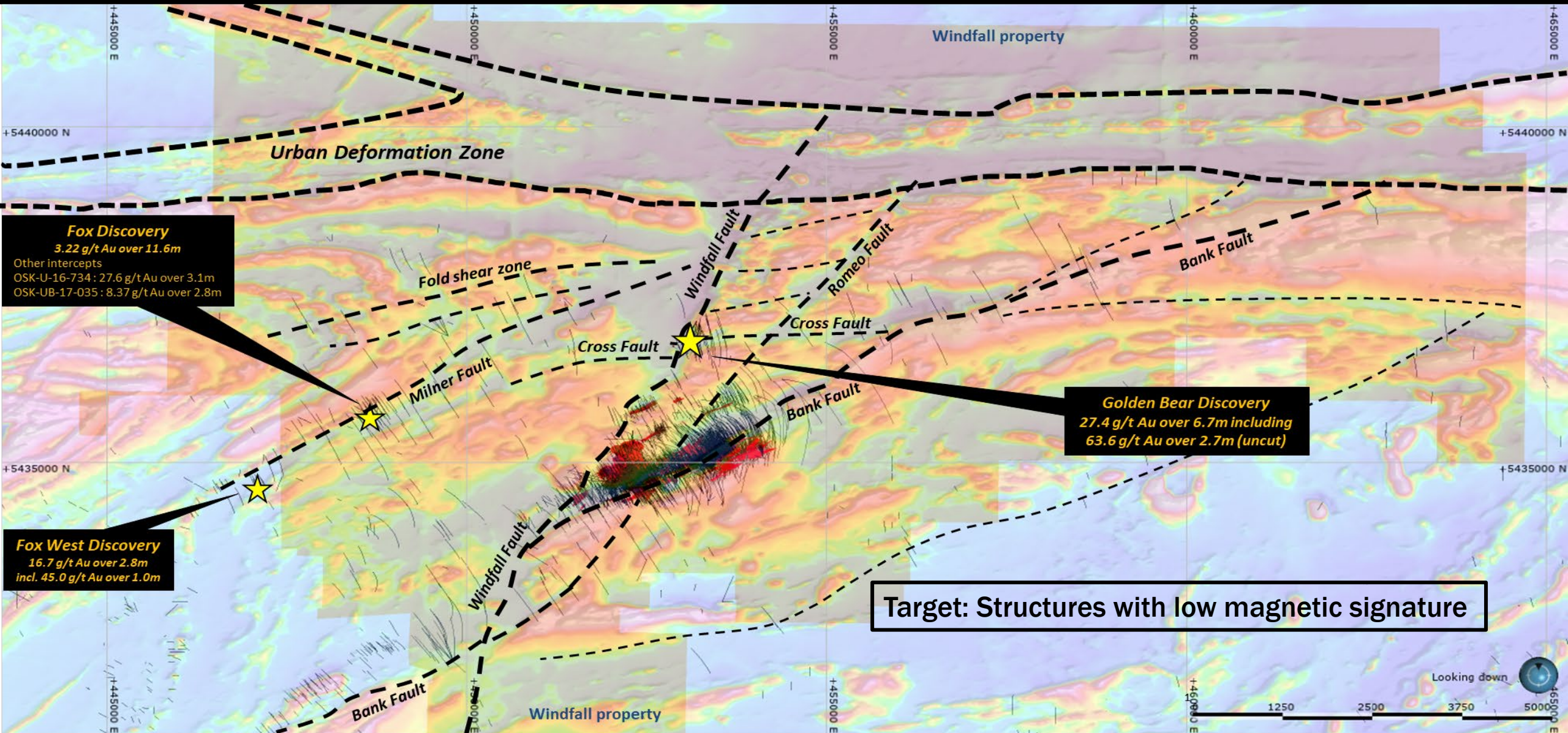


Figure for illustrative purposes only showing highest grade results from each discovery area. For further information please see news releases: Fox Discovery August 29, 2016, and November 23, 2016; Fox West June 9, 2019; and Golden Bear June 15, 2021.



# Notes on the Windfall Gold Deposit Mineral Resource Estimation

- (1) The effective date of the Windfall MRE (2022) is June 7, 2022. The Windfall MRE (2022) was prepared by Pierre-Luc Richard, P. Geo. (OGQ#1119) and Mathieu Bélisle, P. Eng. of BBA Inc., each of whom is a "qualified person" within the meaning of NI 43-101 and considered to be "independent" of Osisko under Section 1.5 of NI 43-101.
- (2) The Windfall MRE (2022) has been prepared in accordance with the *"Estimation of Mineral Resources and Mineral Reserves Best Practice Guidelines"*, adopted by the CIM Council on November 29, 2019.
- (3) The mineral resources referred to in the Windfall MRE (2022) are not mineral reserves and they do not have demonstrated economic viability. The quantity and grade of reported inferred mineral resources are uncertain in nature and there has been insufficient exploration to define these inferred mineral resources as indicated mineral resources or measured mineral resources; however, it is reasonably expected that most of the inferred mineral resources could be upgraded to indicated mineral resources with continued exploration. Resources are presented undiluted and *in situ* and are considered to have reasonable prospects for economic extraction. Isolated and discontinuous blocks above the stated cut-off grade are excluded from the mineral resource estimate. Must-take material (i.e., isolated blocks below cut-off grade located within a potentially mineable volume) was included in the mineral resource estimate.
- (4) Mineral resources are reported inclusive of those mineral resources converted to mineral reserves.
- (5) As of June 7, 2022, being the effective date of the Windfall MRE (2022), the drill database comprises a total of 4,834 drill holes for 1,852,861 metres of drilling in the area extent of the mineral resource estimate, of which 4,152 drill holes (1,665,282 metres) were completed and assayed by Osisko. The drill hole grid spacing is approximately 12.5 metres x 12.5 metres for definition drilling, 25 metres x 25 metres for infill drilling and larger for extension drilling.
- (6) All core assays reported by Osisko were obtained by analytical methods described in *"Quality Control & Quality Assurance – Quality Control and Reporting Protocols"*.
- (7) Geological interpretation of the deposit is based on lithologies, mineralization style, alteration, and structural features. Most mineralization envelopes are subvertical, striking NE-SW and plunging approximately 40 degrees towards the North-East. The 3D wireframing was generated in Leapfrog Geo, a modelling software, from hand selections of mineralization intervals. The mineral resource estimate includes a total of 579 tabular, mostly sub-vertical domains defined by individual wireframes with a minimum true thickness of 2.0 metres.
- (8) Assays were composited within the mineralization domains into 2.0 metre length composites. A value of 0.00125 g/t Au and 0.0025 g/t Ag (¼ of the detection limit) was applied to unassayed core intervals.
- (9) High-grade composites were capped. Capping was determined in each zone from statistical studies on groups of lenses sharing similar mineralization characteristics. Capping varies from 6 g/t Au to 200 g/t Au and from 5 g/t Ag to 150 g/t Ag. A three-pass capping strategy defined by capping values decreasing as interpolation search distances increase was used in the grade estimations.
- (10) Block models were produced using Datamine™ Studio RM Software. The models are defined by parent cell sizes of 5 metres EW, 2 metres NS and 5 metres height, and sub-blocked to minimum sub-cell sizes of 1.25 metres EW, 0.5 metres NS and 1.25 metres height.
- (11) Ordinary Kriging (OK) based interpolations were produced for gold estimations in each zone of the Windfall deposit, while silver grade estimations were produced using Inverse Distance Squared (ID2) interpolations. Gold estimation parameters are based on composite variography analyses. The gold estimation parameters were used for the silver estimation.
- (12) Density values between 2.74 and 2.93 were applied to the mineralized lenses.
- (13) The mineral resource estimate included in the Windfall MRE (2022) uses the measured mineral resource, indicated mineral resource and inferred mineral resource categories, as follows:
- (a) The measured mineral resource category is manually defined and encloses areas where:
- (i) drill spacing is less than 12.5 metres;
  - (ii) blocks are informed by mostly four drill holes;
  - (iii) geological evidence is sufficient to confirm geological and grade continuity; and
  - (iv) lenses have generally been accessed by underground workings.
- (b) The indicated mineral resource category is manually defined and encloses areas where:
- (i) drill spacing is generally less than 25 metres;
  - (ii) blocks are informed by mostly three drill holes; and
  - (iii) geological evidence is sufficient to assume geological and grade continuity.
- (c) The inferred mineral resource category is manually defined and encloses areas where:
- (i) drill spacing is less than 100 metres;
  - (ii) blocks are informed by a minimum of two drill holes;
  - (iii) geological evidence is sufficient to imply, but not verify geological and grade continuity.
- (14) Tonnage and gold grade of the stockpiles were estimated using the grade control model. Densities by lithologies, ranging from 2.76 to 2.84, were used in the estimation of the tonnages. Gold grades were estimated with an average of muck samples results for every round tonnage, based on muck samples with an average sample weight of 3.4 kilograms taken every 8-yard scoop bucket. The sampling capping varying between 60 g/t Au to 80 g/t Au was applied on the muck gold grade results. An average per silver grade estimates in the stockpiles was reported from the resource block model as silver was not analyzed in the muck samples.
- (15) The mineral resource is reported at 3.5 g/t Au cut-off. The cut-off grade is based on the following economic parameters: gold price at US\$1,600/oz, exchange rate at US\$1.28 = C\$1.00, 93% mill recovery; payability of 99.95%; selling cost at US\$5/oz, 2% NSR royalties, mining cost at C\$125/t milled, G&A cost at C\$39/t milled, processing cost at C\$42/t, and environment cost at C\$4/t.
- (16) Estimates use metric units (metres (m), tonnes (t), and g/t). Metal contents are presented in troy ounces (metric tonne x grade / 31.103475).
- (17) The independent qualified person is not aware of any known environmental, permitting, legal, title-related, taxation, socio-political or marketing issues, or any other relevant issue that could materially affect the mineral resource estimate.



1. The independent qualified person for the Windfall reserve estimate, as defined by NI 43-101 guidelines, is Patrick Langlais, P.Eng. (OIQ#6021556), of Entech Mining Ltd. The effective date of the estimate is November 25, 2022.
2. The Windfall Mineral Reserve Estimate follows the May 19, 2014 "CIM Definition Standards - For Mineral Resources and Mineral Reserves" and the November 29, 2019 "CIM Estimation of Mineral Resources and Mineral Reserves Best Practice Guidelines".
3. These Mineral Reserves have been diluted based on geotechnical recommendations and have had a mining recovery applied.
4. Values are rounded to nearest thousand, which may result in apparent discrepancies.
5. The Mineral Reserve is depleted for all mining to November 3, 2022.
6. The Mineral Reserve is reported using a 3.5-g/t break-even, a 2.5-g/t stope incremental, and a 1.7-g/t marginal cut-off grade.
7. All Measured Mineral Resources have been classified as Probable Mineral Reserve.
8. Stockpile values were provided by Osisko and account for less than 1.0% of Mineral Reserve ounces.
9. Estimates use metric units (metres (m), tonnes (t), and g/t). Metal contents are presented in troy ounces (metric tonne x grade / 31.103475).
10. The independent qualified person is not aware of any known environmental, permitting, legal, title-related, taxation, socio-political or marketing issues, or any other relevant issue that could materially affect the Mineral Reserve Estimate.

## **Quality Control and Reporting Protocols**

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 Columbia, 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.