



Black Swan
On the path to Production

21 March 2023

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#### COMPETENT PERSON STATEMENTS

The information in this presentation that relates to Geology and Mineral Resources is based on information compiled and/or reviewed by Mr John Hicks, who is a Member of the Australasian Institute of Mining and Metallurgy. Mr Hicks has sufficient experience which is relevant to the style of mineralisation and the deposit under consideration, and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (the JORC Code). Mr Hicks is Chief Geological Consultant of the Company. Mr Hicks is taking responsibility for the quality of the resource estimation data and the collection and processing of the 2022 resource estimation data. Details for the Competent Persons responsible for the individual Mineral Resource estimates are disclosed in the respective Mineral Resource estimates contained in the report.

The information in this presentation that relates to metallurgical testwork, process opex and process plant capex is based on information compiled and/or reviewed by Mr Peter Allen, who is a Member of the Australasian Institute of Mining and Metallurgy. Mr Allen has sufficient experience which is relevant to the metallurgy and processing method under consideration, to qualify as a Competent Person as defined in the JORC Code. Mr Allen is a full-time employee of GR Engineering Services Limited. Mr Allen has consented to the inclusion in the report of the matters based on his information in the form and context, which it appears.

The information in this presentation that relates to open pit mining methods and open pit Ore Reserve is based on information compiled and/or reviewed by Mr Craig Mann, who is a Member of the Australasian Institute of Mining and Metallurgy. Mr Mann has sufficient experience which is relevant to the mining methods and modifying factors under consideration, to qualify as a Competent Person as defined in the JORC Code. Mr Mann is a full-time employee of Entech Pty Ltd. Mr Mann has consented to the inclusion in the report of the matters based on his information in the form and context, which it appears.

The information in this presentation that relates to underground mining methods and underground Ore Reserves for Silver Swan and Golden Swan is based on information compiled and/or reviewed by Mr Charles Walker, who is a Member of the Australasian Institute of Mining and Metallurgy. Mr Walker has sufficient experience which is relevant to the mining methods and modifying factors under consideration, to qualify as a Competent Person as defined in the JORC Code. Mr Walker is a full-time employee of

Entech Pty Ltd. Mr Walker has consented to the inclusion in the report of the matters based on his information in the form and context, which it appears.

The information in this report which relates to the Lake Johnston Mineral Resource is based on, and fairly represents, information compiled by Mr Steve Warriner, Chief Geologist, who was a full-time employee at Poseidon Nickel, and is a Member of The Australian Institute of Geoscientists and Mr David Reid who is a full-time employee of Golder Associates Pty Ltd and is a Fellow of the Australasian Institute of Mining and Metallurgy. Steve Warriner and David Reid have sufficient experience which is relevant to the style of mineralisation and the deposit under consideration, and to the activity which they are undertaking to qualify as a Competent Person as defined in the 2012 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (the JORC Code). Mr Warriner and Mr Reid consented to the inclusion in the report of the matters based on his information in the form and context, which it appears.

The information in the updated Gold Tailings Project which relates to Mineral Resources is based upon details compiled by Ian Glacken, who is a Fellow of the Australasian Institute of Mining and Metallurgy and the Australian Institute of Geoscientists. Ian Glacken is an employee of Optiro Pty Ltd and has sufficient experience which is relevant to the style of mineralisation and the deposit under consideration, and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (the JORC Code). Mr Glacken consented to the inclusion in the report of the matters based on his information in the form and context, which it appears.

The Company is not aware of any new information or data that materially affects the information in the relevant market announcements. All material assumptions and technical parameters underpinning the estimates in the relevant market announcements continue to apply and have not materially changed.

The Australian Securities Exchange has not reviewed and does not accept responsibility for the accuracy or adequacy of this release

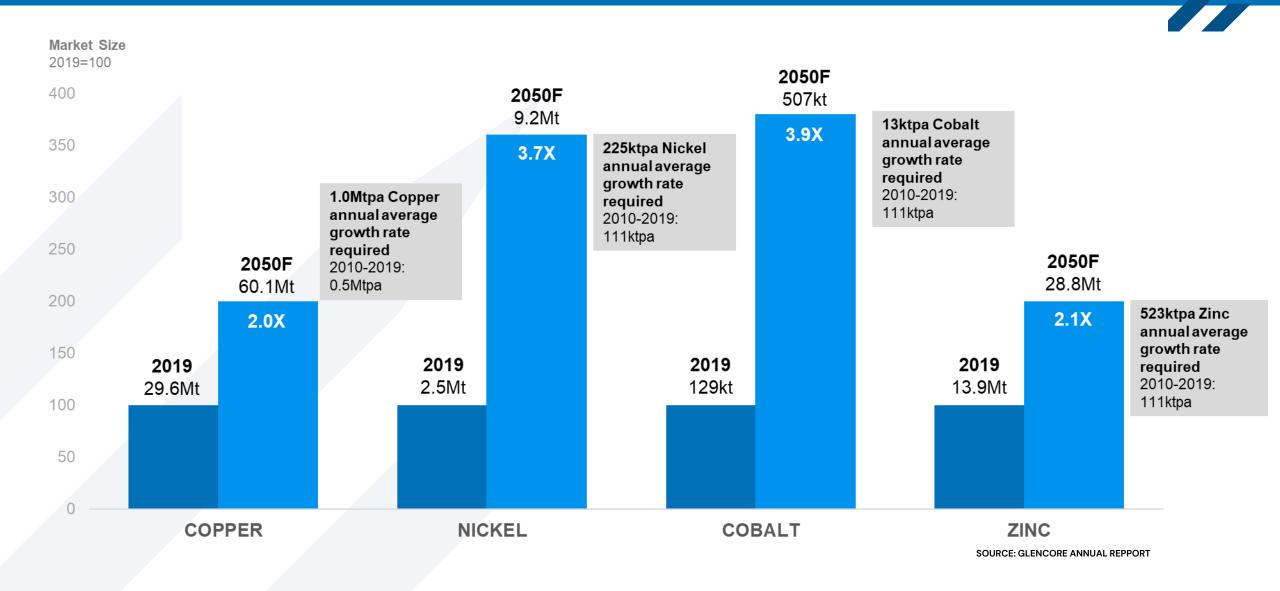
#### FORWARD LOOKING STATEMENTS

This release contains certain forward looking statements including nickel production targets. Often, but not always, forward looking statements can generally be identified by the use of forward-looking words such as "may", "will", "except", "intend", "plan", "estimate", "anticipate", "continue", and "guidance", or other similar words and may include, without limitation, statements regarding plans, strategies and objectives of management, anticipated production and expected costs. Indications of, and guidance on future earnings, cash flows, costs, financial position and performance are also forward-looking statements

Forward looking statements, opinions and estimates included in this announcement are based on assumptions and contingencies which are subject to change, without notice, as are statements about market and industry trends, which are based on interpretation of current market conditions. Forward looking statements are provided as a general guide only and should not be relied on as a guarantee of future performance.

Forward looking statements may be affected by a range of variables that could cause actual results or trends to differ materially. These variations, if materially adverse, may affect the timing or the feasibility and potential development of the Golden Swan underground mine.

# **EVS DRIVING MASSIVE INCREASE IN BASE METAL DEMAND**



## POSEIDON HAS PLENTY OF NICKEL - 414kt Ni<sup>1</sup>

# **BLACK SWAN NICKEL PROJECT**

- Open pit and underground mineral resources totalling 214kt Ni<sup>1</sup>
- Significant mining and processing infrastructure
- Bankable Feasibility Study completed
- Funding and Offtake discussion underway

# LAKE JOHNSTON NICKEL PROJECT

- 52kt Ni<sup>1</sup> Resource and excellent exploration potential
- Significant mining and processing infrastructure
- Up to 15,000m drilling program planned

# WINDARRA NICKEL/GOLD PROJECTS

- Significant nickel mineral resource (148kt Ni¹)
- Potential to mine nickel ore and process at Black Swan
- Gold tailings resource with BFS, partner found



# BLACK SWAN - November 2022 BFS1

- Robust project economics NPV<sub>8</sub> of \$248M, free cashflow of \$333M and an IRR of 103% at spot Ni and FX - US\$10.73/lb and 0.67
- Low pre-production capital \$50M development capital including ~\$38M for the refurbishment
- Plant capacity 1.1Mtpa with the ability to expand to nameplate of 2.2Mtpa
- Construction period 46 weeks for plant refurbishment
- High-grade nickel concentrate 15% Ni, < 6% MgO and Fe:MgO ratio of 5:1 which is highly desirable for conventional nickel smelters</li>
- ESG focus carbon emissions reduced compared to 2018 Feasibility Study by using grid power



## LAST 12 MONTHS



## Completed Black Swan 1.1Mtpa Bankable Feasibility Study<sup>1</sup>

The study highlighted a robust project with an NPV of \$248M and IRR of 103% at spot A\$ Ni



## Mineral Resource growth at Black Swan → Converted into Reserve<sup>1</sup>

Combined total Mineral Reserves now 3.5Mt averaging 1.0%Ni for 35kt Ni contained

10,000m Infill resource drilling program completed, resulting incoming and model to be updated



## Metallurgical Breakthroughs<sup>1</sup>

Regrind circuit and addition of Silver Swan tailings significantly reduces MgO levels and improves Fe:MgO ratio to >5:1



## Path to market for high MgO ore types<sup>1</sup>

Producing a rougher concentrate to sell to a POX or HPAL plant has the potential to allow the processing of high MgO ore types



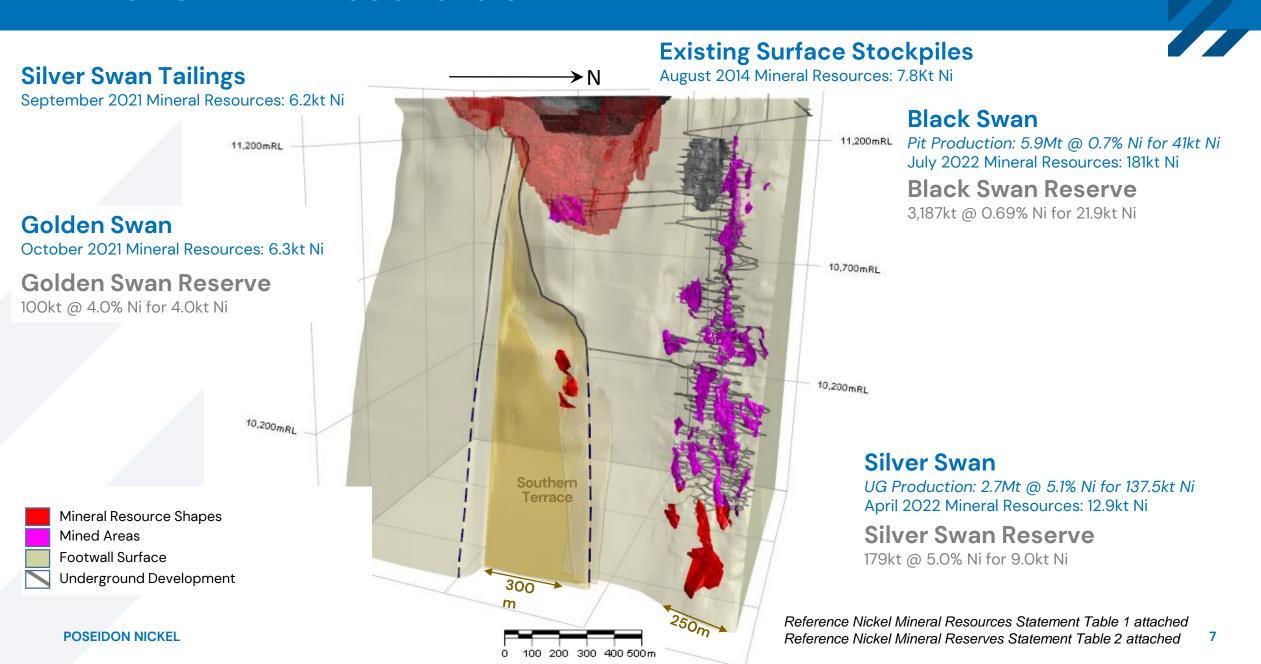
#### Windarra Gold Tailings partnership with Green Gold Projects

Green Gold specialises in developing and operating tailings projects



\$12M raised via a combination of private placement and heavily oversubscribed SPP

## **BLACK SWAN – RESOURCES OVERVIEW**



## BLACK SWAN - MINERAL RESERVES & MINING INVENTORY1

## Nickel Sulphide Reserves

	JORC		Tonnes (kt)	Ni% Grade	Ni Metal (kt)
Black Swan	2012	Proved	579	0.7	4.2
	2012	Probable	2,608	0.7	17.7
Silver Swan	2012	Proved	-	-	-
		Probable	179	5.0	9.0
Caldan Caran	2012	Proved	-	-	_
Golden Swan		Probable	100	4.0	4.0
Tabal NC		Proved	579	0.7	4.2
Total Ni Reserves	2012	Probable	2,887	1.1	30.7
		Total	3,466	1.0	34.9

## **Key Points**<sup>1</sup>

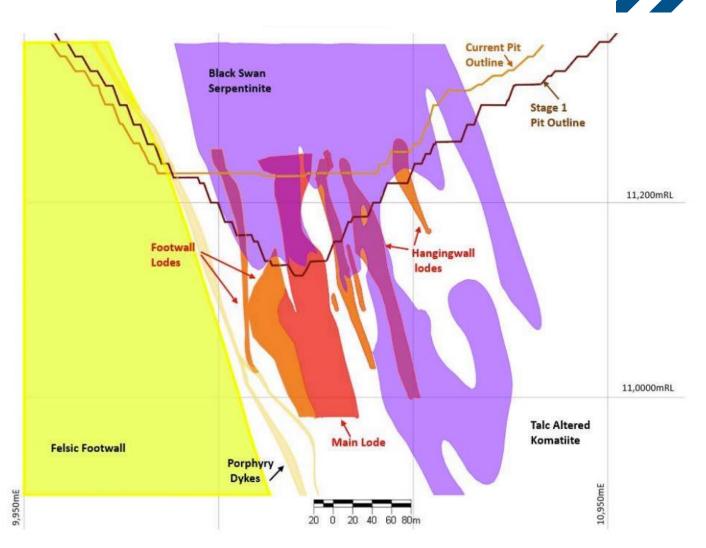
- Combined Black Swan Ore Reserves are 3.5Mt averaging 1.0% Ni for ~35kt Ni contained nickel
- Metal contained in Mineral Reserve has increased 40% since the 2018 Feasibility Study
- Portion of Black Swan Disseminated (BSD)
   Resource not included in the Mineral Reserves is
   subject to the ongoing 2.2Mtpa rougher grade
   concentrate Feasibility Study
- 10,000m RC drilling program from bottom of dewatered open pit completed in early February – aim is to convert a larger amount of the BSD Resource to Reserves for the 2.2Mtpa scenario – awaiting assay results and update of Resource model
- Assay results received are inline with expectations – no surprises

# BLACK SWAN - OPEN PIT MINING1

- Optimised pit shell to be mined using conventional drill, blast, load and haul method
- Ore in existing pit floor concurrently mined with pit cut back



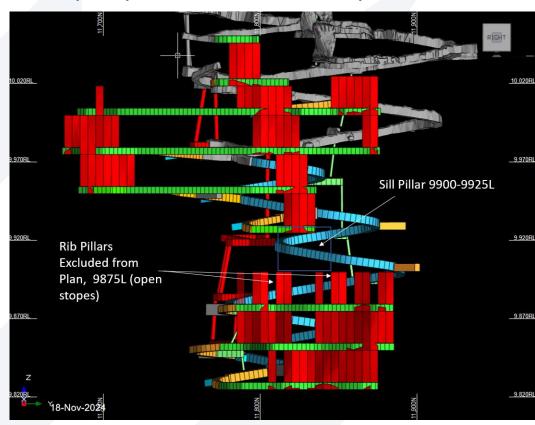
Open pit drilling program January 2023



Black Swan open pit geological cross-section 11,320N

# BLACK SWAN - UNDERGROUND MINING<sup>1</sup>

- Mining using mechanised bottom-up longhole stoping with continuous cemented rockfill on 15-25 metre vertical sub-levels
- Minimal pre-production works required on ventilation system

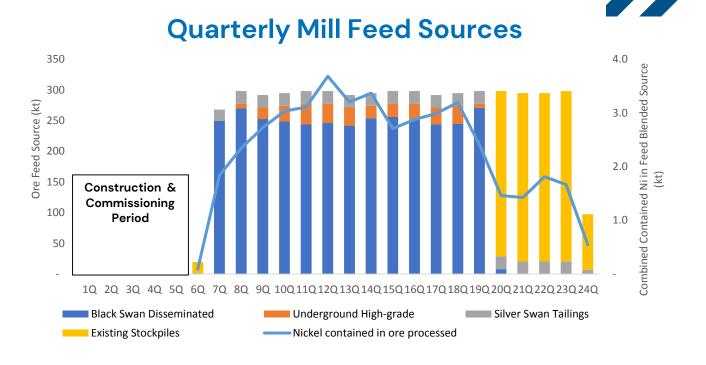


Silver Swan Underground

**Golden Swan Underground** 

## **BLACK SWAN - FEED SOURCES**<sup>1</sup>

Mill Feed Sources	Feed Tonnage (Mt)	Nickel Grade	Contained Nickel (kt)
Black Swan Disseminated	3.3	0.7%	22.1
Silver Swan	0.2	5.0%	9.0
Golden Swan	0.1	4.0%	4.0
Feed sourced from Ore Reserves	3.6	1.0%	35.1
Silver Swan Tailings	0.4	0.9%	3.2
Indicated Surface Stockpiles	0.6	0.5%	3.2
Inferred Surface Stockpiles	0.4	0.5%	2.0
Feed sourced from Mineral Resources	1.4	0.6%	8.4
Total feed sources	5.0	0.9%	43.5



- LOM Plan an optimised blend of Black Swan disseminated material and high grade underground ore to feed concentrator with optimal feed source blend to maximise early cash flows.
- Includes 30.8% of Mineral Resources not included in the Ore Reserves, being the Silver Swan Tailings Measured Resource and existing surface stockpiles Indicated and Inferred Resources
- Only 7.7% of Inferred material in total mill feed, being off-ROM BSD surface stockpiles

<sup>\*</sup>Mineral resources and mineral reserves as per ASX announcement "Positive Black Swan Feasibility Study 21 November 2022"

## BLACK SWAN - PROCESSING<sup>1</sup>

## Simple flowsheet, all equipment existing

- Single stage crushing with coarse ore bin storage
- Single stage SAG mill with a flash flotation circuit
- Flotation with rougher, rougherscavenger, cleaner, cleaner-scavenger, cleaner 2 and cleaner 3 stages
- New Step Regrinding of rougher 2, rougher-scavenger and cleanerscavenger concentrates - improves concentrate quality
- Concentrate thickening and filtration
- Total historical production of 178.5kt
   Ni in concentrate



**Black Swan Grinding Circuit and Flash Flotation** 

## BLACK SWAN - METALLURGICAL BREAKTHROUGH<sup>1</sup>

# Significant improvement in concentrate quality (improved Fe:MgO ratio)

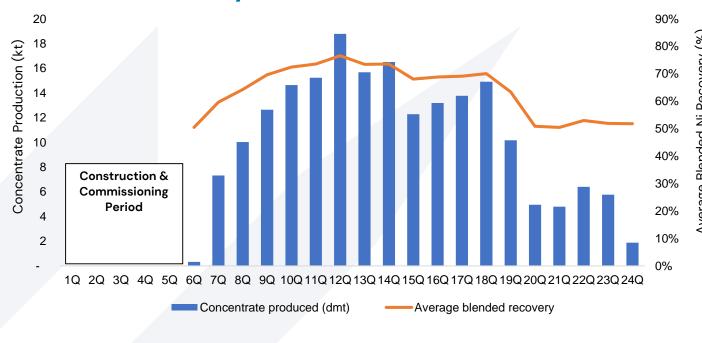
- Existing Silver Swan mill can be utilised as a regrind mill to treat rougher concentrate stream
- Silver Swan Tailings added to the overall feed blend to significantly increase Fe content of the concentrate plus additional Ni units at very low cost
- Sufficient Silver Swan tailings available for 1.1Mtpa project life



**Proposed Regrind Mill** 

# **BLACK SWAN - CONCENTRATE PRODUCTION & QUALITY<sup>1</sup>**

## **Quarterly Concentrate Production**<sup>1</sup>



- ~200kt of concentrate produced
- ~30kt of Ni contained
- 15% nickel grade, MgO<6%, Fe:MgO >5:1
- Strong interest from smelter companies and traders
- Multiple Indicative offers received

#### **Concentrate Specifications**

Element	Unit	BSD feed only	BSD + 7.5% Silver Swan Tailings + 5% Silver Swan
Ni	%	17.1	15.0
Cu	%	0.6	0.6
Со	%	0.5	0.4
MgO	%	5.7	4.4
Fe	%	25.9	29.6
Fe:MgO	ratio	4.5	6.7
As	ppm	3,400	3,800
S	%	38.4	36.2

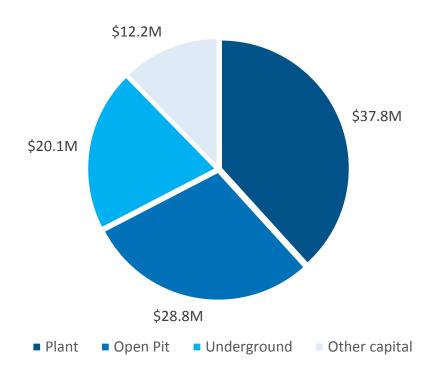
## BLACK SWAN - CAPITAL COSTS<sup>1</sup>

## Development capital costs of \$50M

- Refurbishment of the concentrator for ~\$38M
- Other capital items of ~\$12M over the course of the project
- LOM capital costs of \$49M post development capital
- ~\$29M for the Black Swan disseminated open pit cut-back and mine development over the life of the project
- Silver Swan underground mine re-entry and mine development of ~\$20M (note capital development during ore production period included in opex)

This represents a low cost alternative to other projects which will need to build mines and plants from scratch

## **Capital Expenditure Mix**



## BLACK SWAN - OPERATING COSTS<sup>1</sup>

# Estimated operating costs have been determined for the key cost centres as follows:

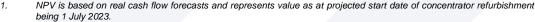
- Black Swan open pit estimates provided by a Kalgoorlie based open pit mining contractor
- Underground mining based on a Contractor Operating Model with costings generated via a Request-for-Quotation process
- Processing and G&A majority provided by GR
   Engineering Services with a number of minor items provided by Poseidon
- Concentrate Transport the costs associated with hauling the concentrate from Black Swan to Esperance and ocean freight to Lianyungang, China are based on indicative costings provided by Qube Bulk and Hudson Shipping

Cost Description	C1 unit cost (US\$/lb)	C1 unit cost (A\$/lb)
Open pit mining	\$0.9	\$1.3
Underground mining	\$1.6	\$2.4
Tailings & stockpile reclaim	\$0.0	\$O.1
Processing	\$1.5	\$2.2
Transport	\$0.5	\$0.7
G&A	\$O.3	\$0.4
By-product credits (cobalt)	<b>-</b> \$0.2	<b>-</b> \$0.3
Total C1 cost	\$4.6	\$6.7

<sup>\*</sup>C1 costs as per ASX announcement "Positive Black Swan Feasibility Study 21 November 2022"

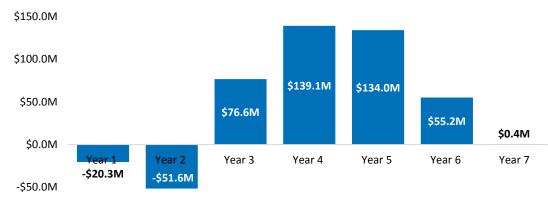
## BLACK SWAN - ECONOMIC OUTCOMES<sup>1</sup>

<b>Economic Summary</b>											
Description	Base	Spot Nov 2022	Upside								
Revenue	\$809M	\$919M	\$1,207M								
Net Cash Flow	\$227M	\$333M	\$610M								
Pre-tax NPV <sub>8</sub> <sup>1</sup>	\$167M	\$248M	\$470M								
IRR	86%	103%	188%								
Payback Period <sup>2</sup>	1.3	1.4	1.0								
C1 Cash Cost <sup>3</sup>	US\$4.56/lb	US\$4.52/lb	US\$4.36/lb								
AISC Cash Cost <sup>4</sup>	US\$4.90/lb	US\$4.89/lb	US\$4.81/lb								
Ni price	US\$10.73/lb	US\$11.80/lb	US\$15.00/lb								
FX (USD/AUD)	0.69 USD:AUD	0.67 USD:AUD	0.65 USD:AUD								



- Period post completion of concentrator refurbishment.
- 3. C1 cash costs include operating cash costs including mining, processing, geology, OHSE, site G&A, concentrate transport, less by-product divided by nickel in concentrate produced (100% basis before smelter deductions). Excludes development and sustaining capex, pre-production costs and royalties.
- 4. AISC are C1 cash costs plus royalties and sustaining capital. Excludes development capital and preproduction costs.
- 5. Refer to ASX Announcement. "Positive Black Swan Feasibility Study". 21 November 2022

#### **Annual Free Cashflow**



- Attractive NPV \$248M NPV<sub>8</sub> at spot Ni price and FX rate
- High IRR 103% IRR at spot Ni price and FX rate
- Low LOM Capital Cost \$99M

-\$100.0M

- Payback period relatively short payback period due to low capex requirements
- C1 Costs based on 100% of contained nickel confidential Ni payability assumptions based on indicative offers received

## **BLACK SWAN - ENVIRONMENTAL, SOCIAL, GOVERNANCE (ESG)**

# Poseidon aims to become a sustainable nickel producer, supplying the nickel the world needs to transition to a low-carbon economy

- In relation to the Black Swan project, the Company recognises the importance of understanding and taking action to reduce its greenhouse gas (GHG) emissions
- The Company intends to source power from the local grid.
   Grid power supply will reduce the Project's carbon emissions compared to diesel fired power generation
- Now that the BFS is completed, the Company is undertaking a detailed assessment of the proposed Black Swan operations to understand the projected GHG emissions, and to identify possible decarbonisation opportunities



## **BLACK SWAN - ENVIRONMENTAL & PERMITTING**

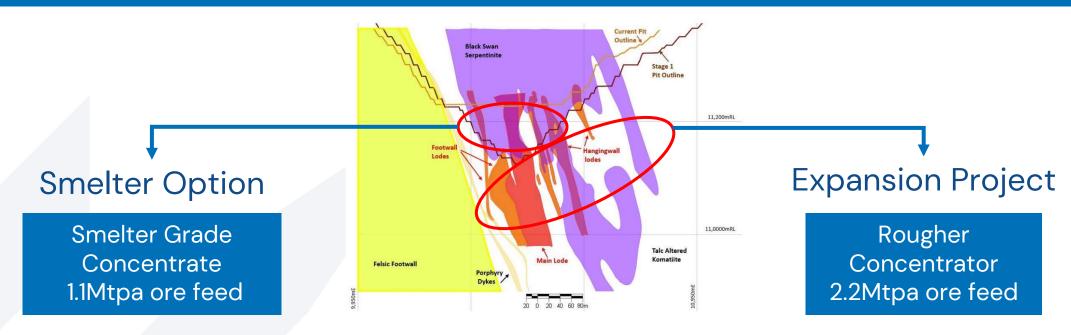
## The following environmental approvals are current for the Project:

- Works Approval current for mining and treatment of the underground and open pit. An amendment required to recover and treat the Silver Swan Tailings and the next tailings storage facility lift is under application
- Mine Closure Plan A mine closure plan in respect of the Project was approved by DMIRS in 2018. A revised plan was lodged with DMIRS in 2021 and is yet to be assessed
- Environmental Licence current licence allows processing of up to 3Mtpa of ore and dewatering of up to 450,000tpa of mine water
- **Groundwater** the existing Groundwater Licence allows access to water from the Federal pit, Black Swan pit, Silver Swan underground and the Black Swan borefield, providing a total annual entitlement of 2.7 GL. The Company entered into a 5-year water access agreement with Norton Gold Fields Pty Ltd to take up to 3,600m³ per day (1.3 GL per year) from the Federal pit in August of 2021
- Clearing Permits no current native vegetation clearing permits are held. Up to 10 hectares per tenement per year can be cleared without a permit, if the activities requiring the clearing are approved via the approved Mining Proposals

## **BLACK SWAN - NEXT STEPS**

- Offtake & Project Financing continue discussions with potential customers to agree definitive terms ahead of signing an offtake and project financing agreement
- Mill Refurbishment & Operations ongoing discussions with potential contractors:
  - o for the refurbishment of the Black Swan concentrator and associated infrastructure
  - o for mining and processing plant operations
- Increase Measured and Indicated update Mineral Resource following completion of 10,000m drilling program in the open pit
- 2.2Mtpa Expansion Project complete the study on the rougher concentrate project which presents an opportunity to significantly increase contained Ni production and enhance project economics
- Final Investment Decision make FID late in the first half 2023, so production of concentrate could commence in mid 2024
- Additional feed opportunities assess potential feed from Windarra and third parties

## BLACK SWAN - DEVELOPMENT OPTIONS1



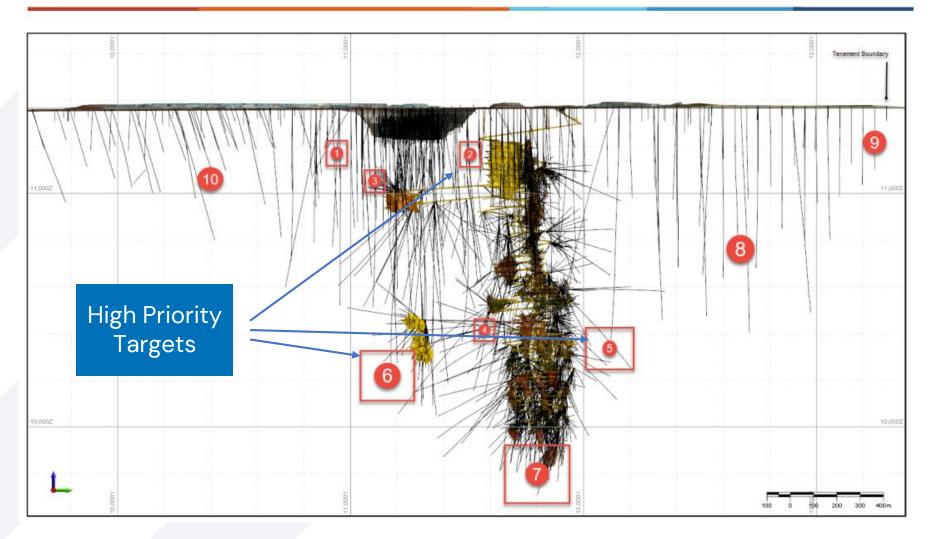
- BFS released 21 November 2022
- 5.0Mt feed for processing over 4 year LOM
- 200kt concentrate production containing 30kt nickel
- FCF \$333M, NPV<sub>8</sub> \$248M, IRR
   103% at current spot nickel price
- · Options to extend mine life

- Can process both higher talc content serpentinite and talc-carbonate disseminated ores
- Doubles processing capacity, potential to significantly grow production profile
- Potentially longer project life
- Target customer/s local downstream processing in Western Australia (i.e. HPAL, POX, Pure Battery Technologies)

# **BLACK SWAN – EXPLORATION POTENTIAL, NEWEXCO REVIEW**



Black Swan Exploration Potential Review:



**POSEIDON NICKEL** 

# **LAKE JOHNSTON - PROJECT OVERVIEW**

#### **HISTORY**

Emily Ann - 1.5Mt @ 3.5% Ni mined / processed between 2001-2007

Maggie Hays – initial Resource of 12.3Mt @ 1.5%Ni, mined and processed between 2008-2013

11.5Mt ore mined and processed to produce +100kt Ni\*

#### **CURRENT RESOURCES & INFRASTRUCTURE**

Maggie Hays - 3.5Mt @ 1.5% Ni for 52kt Ni<sup>1</sup>

1.5Mtpa process plant (on C&M)

GR Engineering plant refurb estimate of \$31M<sup>2</sup> and opex of \$36/t<sup>2</sup>

#### **MOVING FORWARD**

NewExco exploration targeting completed, 1st phase drilling program of up to 15,000m, POW approved, planned for April 2023

Review exploration results once program completed



<sup>&</sup>lt;sup>1</sup> Reference Nickel Mineral Resources Statement Table 1 attached.



<sup>&</sup>lt;sup>2</sup> Refer to ASX Announcement "Lake Johnston GR Engineering Study Completed" dated 27 January 2022. Capex and opex estimates to +/-20% accuracy.

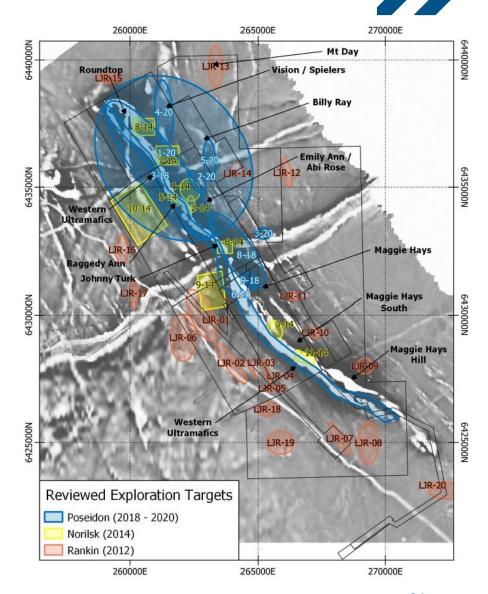
## **LAKE JOHNSTON – NEWEXCO REVIEW OF EXPLORATION TARGETS**

#### **WORK UNDERTAKEN BY NEWEXCO**

 NewExco reviewed prior studies on the exploration potential at Lake Johnston and identified advanced targets

#### **TARGETS IDENTIFIED**

- Abi Rose extension drilling
- Maggie Hays drilling for Resource expansion based on the reopening of the Maggie Hay underground operation
- Emily Ann/Abi Rose type intrusions relogging to identify and locate parts of the ultramafic intrusive system that may have been overlooked
- Vision/Spielers Surface EM/drilling these areas have encountered nickel sulphides in the past, proving the prospectivity of the area
- Western Komatiite/Roundtop Surface sampling/drilling a valid target in an underexplored area with high prospectivity



**POSEIDON NICKEL** 

# MT WINDARRA – PROJECT OVERVIEW

#### **HISTORY**

Discovered in 1969, Mined from 1974-1983

8Mt mined / processed to produce 84kt Ni\*

#### **CURRENT RESOURCES & INFRASTRUCTURE**

Mt Windarra 71.5kt Ni\* (grade - 1.64%)<sup>1</sup>

Cerberus Nickel 69.0kt Ni\* (grade - 1.51%)1

South Windarra 8.Okt Ni\* (grade - 0.98%)<sup>1</sup>

Gold Tailings contains ~180,000 oz/Au Resource<sup>2</sup>

July 2021 DFS on Gold Tailings Project<sup>3</sup> – confirmed low risk, low capex & opex

State Agreement - Terminated to allow for gold tailings to be process on site

#### **FUTURE ACTIVITIES – GOLD TAILINGS & NICKEL PRODUCTION FOCUS**

#### Gold

DFS completed July 2021<sup>3 -</sup> 53koz recoverable, free cash \$30.6M, IRR ~50%

Green Gold Projects currently undertaking DD

#### Nickel

Update studies on mining Mt Windarra and trucking to Black Swan



<sup>\*</sup>Contained Ni metal

<sup>&</sup>lt;sup>1</sup> Reference Nickel Mineral Resources Statement Table 1 attached.

<sup>&</sup>lt;sup>2</sup> Reference to Gold Mineral Resources Statement Table 3 attached.

<sup>&</sup>lt;sup>3</sup> Refer to Poseidon Nickel ASX announcement 23 July 2021

# WHY INVEST IN POSEIDON?





Advanced nickel sulphide projects in Tier 1 jurisdiction, short timeframe from FID to production



Significant infrastructure advantage over peers at multiple locations



Management with significant experience in financing, building & operating nickel projects

POSEIDON NICKEL 20





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## **Nickel Mineral Resources**

#### **Table 1: Nickel Projects Resources Statement**

									MINERAL R	ESOURCE CAT	EGORY							
Nickel Sulphide Resources	ckel Sulphide Resources JORC Compliance Cut Of		MEASURED		INDICATED				INFERRED			TOTAL						
,	, , , , , , , , , , , , , , , , , , ,	Grade	Tonnes (Kt)	Ni% Grade	Ni Metal (t)	Tonnes (Kt)	Ni% Grade	Ni Metal (t)	Tonnes (Kt)	Ni% Grade	Ni Metal (t)	Tonnes (Kt)	Ni% Grade	Ni Metal (t)	Co% Grade	Co Metal (t)	Cu% Grade	Cu Metal (t)
BLACK SWAN PROJECT																		
Black Swan	2012	0.4%	800	0.76	6,000	9,900	0.75	74,000	18,200	0.62	101,000	28,900	0.63	181,000	0.01	4,500	0.02	5,800
Silver Swan	2012	4.5%	-	-		138	9.00	12,450	8	6.00	490	146	9.50	12,940	0.16	240	NA	-
Golden Swan	2012	1.0%	-	-	-	112	4.70	5,200	48	2.20	1,050	160	3.90	6,250	0.08	120	0.30	480
Silver Swan Tailings	2012	NA	675	0.92	6,200	-	-	-	-	-	-	675	0.92	6,200	0.07	450	0.04	250
							LAKE JOHNST	ON PROJECT										
Maggie Hays	2012	0.8%	-	-	-	2,600	1.60	41,900	900	1.17	10,100	3,500	1.49	52,000	0.05	1,800	0.10	3,400
							WINDARR	A PROJECT										
Mt Windarra	2012	0.9%	-	-	-	922	1.56	14,000	3,436	1.66	57,500	4,358	1.64	71,500	0.03	1,200	0.13	5,700
South Windarra	2004	0.8%	-	-	-	772	0.98	8,000	-	-	-	772	0.98	8,000	NA	-	NA	-
Cerberus	2004	0.75%	-	-	-	2,773	1.25	35,000	1,778	1.91	34,000	4,551	1.51	69,000	NA	-	0.08	3,600
							то	ΓAL										
Total Ni, Co, Cu Resources	2004 & 2012		1,475	0.83	12,200	17,217	1.11	190,550	24,370	0.84	204,140	43,062	0.94	406,890	0.02	8,310	0.04	19,230

Note: totals may not sum exactly due to rounding. NA = Information Not Available from reported resource model.

- •Black Swan Resource as at 4 July 2022 (see ASX announcement "More Nickel in Updated Black Swan Mineral Resource" released 4 July 2022)
- •Silver Swan Resource as at 27 April 2022 (see ASX announcement "Updated Silver Swan Resource underpins significant increase in high-grade Indicated resource base" released 27 April 2022)
- •Golden Swan Resources as at 27 October 2021 (see ASX announcement "Golden Swan Maiden Resource" released 27 October 2021).
- •Silver Swan Tailings Resource as at 15 September 2021 (see ASX announcement "Silver Swan Tailings Maiden Resource Estimate" released 15 September 2021)
- •Maggie Hays Resource as at 17 March 2015 (see ASC announcement "50% Increase in Indicated Resources at Lake Johnston" released 17 March 2015)
- •Mt Windarra Resource as at 7 November 2014 (see ASX announcement "Poseidon Announces Revised Mt Windarra Resource" released 7 November 2014)
- •South Windarra and Cerberus Resource as at 30 April 2013 (see ASX announcement "Resource Increase of 25% at Windarra Nickel Project" released 1 December 2011)

The Company is not aware of any new information or data that materially affects the information in the relevant market announcements. All material assumptions and technical parameters underpinning the estimates in the relevant market announcements continue to apply and have not materially changed.

POSEIDON NICKEL :

# Nickel Mineral Reserves

#### **Table 2: Nickel Projects Reserves Statement**

Walance Links Bernard	IODS Compliance										
Nickel Sulphide Reserves	JORC Compliance				Probable						
		Tonnes (Kt)	Ni% Grade	Ni Metal (t)	Co % Grade	Co Metal (t)	Cu % Grade	Cu Metal (t)			
			BLACK SWAN P	ROJECT							
Silver Swan	2012	130	5.2	181,000	NA	NA	NA	NA			
Black Swan	Black Swan 2012		0.63	21,500	NA	NA	NA	NA			
Total Ni, Co, Cu Reserves	2012	3,500	0.81	28,300	NA	NA	NA	NA			

Note: totals may not sum exactly due to rounding. NA = Information Not Available from reported resource model.

•Black Swan Reserve as at 6 November 2014 (see ASX announcement "Black Swan Ore Reserve" released 6 November 2014)

•Silver Swan Reserve as at 26 May 2017 (see ASX announcement "Silver Swan Definitive Feasibility Study" released 26 May 2017)

The Company is not aware of any new information or data that materially affects the information in the relevant market announcements. All material assumptions and technical parameters underpinning the estimates in the relevant market announcements continue to apply and have not materially changed.

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## **Gold Mineral Resources**

#### **Table 3: Gold Projects Resources Statement**

Windarra Gold Tailings	Vindarra Gold Tailings											
	INDICATED											
	Tonnes (t)	AU (g/t)		Au (oz) Ag (g/t)		As (ppm)		As (ppm)		CU (ppm)	Ni (ppm)	
North Dam	3,902,000	0.78		98,000	1.9		1,805		365	975		
South Dam	850,000	0.50		14,000	0.6		645		645 355			
Total	4,752,000	0.73		112,000		7	1,600		363	1,250		
	INDICATED											
	Tonnes (t)	AU (g/t)		Au (o	oz)		As (ppm)	CU (ppm)		Ni (%)		
Central Dam	6,198,000	0.37		74,00	00		435.0 270		0.3			

Note: totals may not sum exactly due to rounding. NA = Information Not Available from reported resource model.

Windarra Gold Tailings North and South Dams Resource: no cut-off grade has been used to report the resource, as potential mining method dictates removal of the entire dams. a dry bulk in situ density of 1.6 t/m3 has been used to derive tonnages. resource numbers in Table 3A may not sum exactly due to rounding.

Windarra Gold Tailings central Dam Resource: No cut-off grade has been used to report the resource, as the potential mining method dictates removal of the entire dam down to a specified elevation. The mineralisation has been reported above a flat elevation of 446 mRL; there are tailings below this level but these have been shown by drilling to contain no gold, and it is anticipated that the proposed mining method will not treat material below this elevation. A dry bulk in situ density of 1.6 t/m3 has been used to derive tonnages. Resource totals may not sum exactly due to rounding.

Central Dam Resource as at 22 June 2020 (see ASX announcement "Gold Tailings Resource at Windarra updated to JORC 2012 Indicated" 22 Jun 2020).

North and South Dam Resource as at 23 July 2021 (see ASX announcement "Windarra Gold Tailings Feasibility Study Highlights Robust Project" 23 Jul 2021).

The Company is not aware of any new information or data that materially affects the information in the relevant market announcements. All material assumptions and technical parameters underpinning the estimates in the relevant market announcements continue to apply and have not materially changed.

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