



**Omico Mining Corp.**

**Namibia's Next  
Copper Mine**



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# — Omitiomire Copper: Highlights

## Significant Copper Resource

- M&I Resource **81.2 Mt @ 0.60% Cu, 490Kt Cu** metal
- **304 km<sup>2</sup>** exploration license (renewable for a further 6 years)
- Supporting **25–30ktpa Cu** cathode production
- **13–15** years LOM
- Production and LOM upside

## ESG

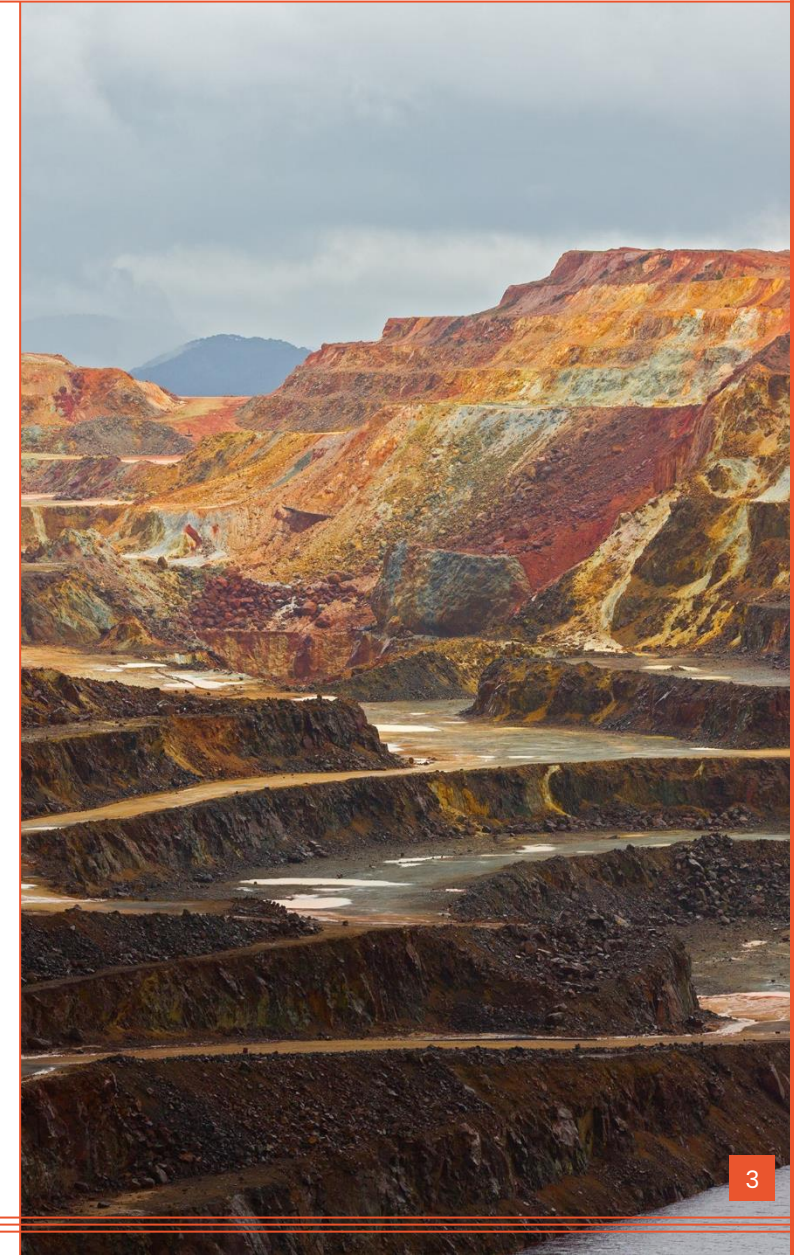
- Low water consumption (**90m<sup>3</sup>/t cathode**) in closed circuit
- Minimal negative social impact – no relocations, etc.
- **800–1,000** direct jobs created
- Estimated Scope 1&2 CO<sub>2</sub> emissions **3,700kg CO<sub>2</sub>/t cathode**

## Low Development Risk

- BFS well advanced – design 80% and engineering 75% complete
- Conventional open pit, proven chloride heap leach and SXEW
- Readily available mining expertise
- Supportive Govt – mining license valid until 2036 (renewable)
- Access and compensation agreements with the 2 affected landowners
- Water – 2.2 Mm<sup>3</sup> /year sourced from aquifer – via 90km pipeline
- 70/30 mix grid and solar produced onsite

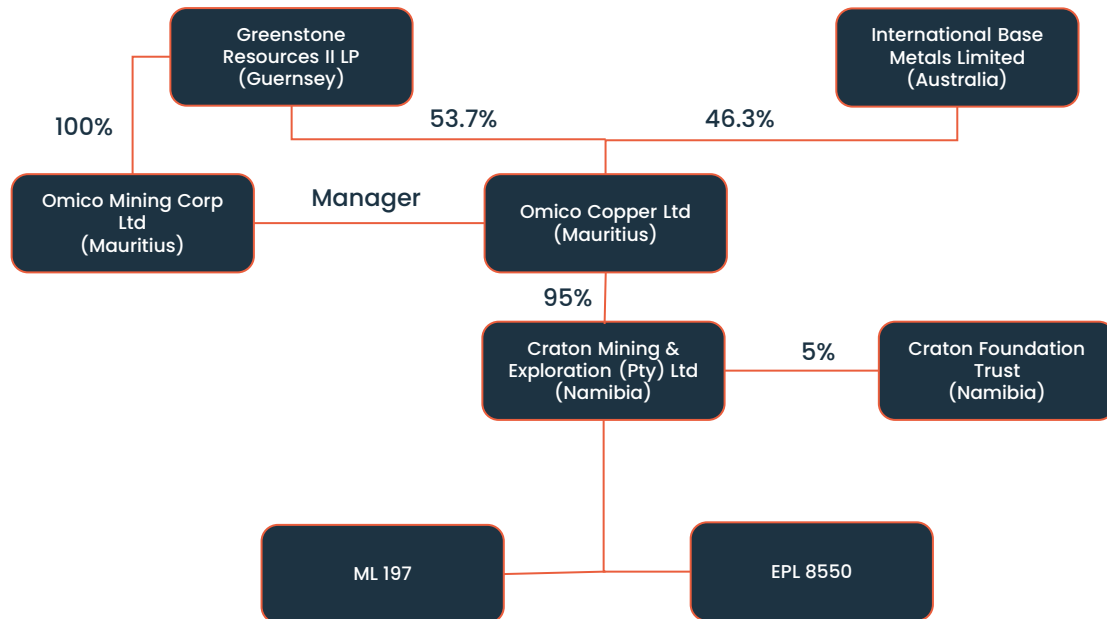
## Ongoing optimisation

- Initial design based on Phase 2 met test work (April 2023)
- Phase 3 test work (October 2023) indicates significant improvement
- Low-acid and high Cu irrigation
- Potential impact:
  - significantly reduced acid consumption, capex and opex
  - Improved recoveries, reduce leach times, smaller heaps
- Phase 4 test work – bring to bankable standard (est. June 2024)
- BFS to be published Q3 2024

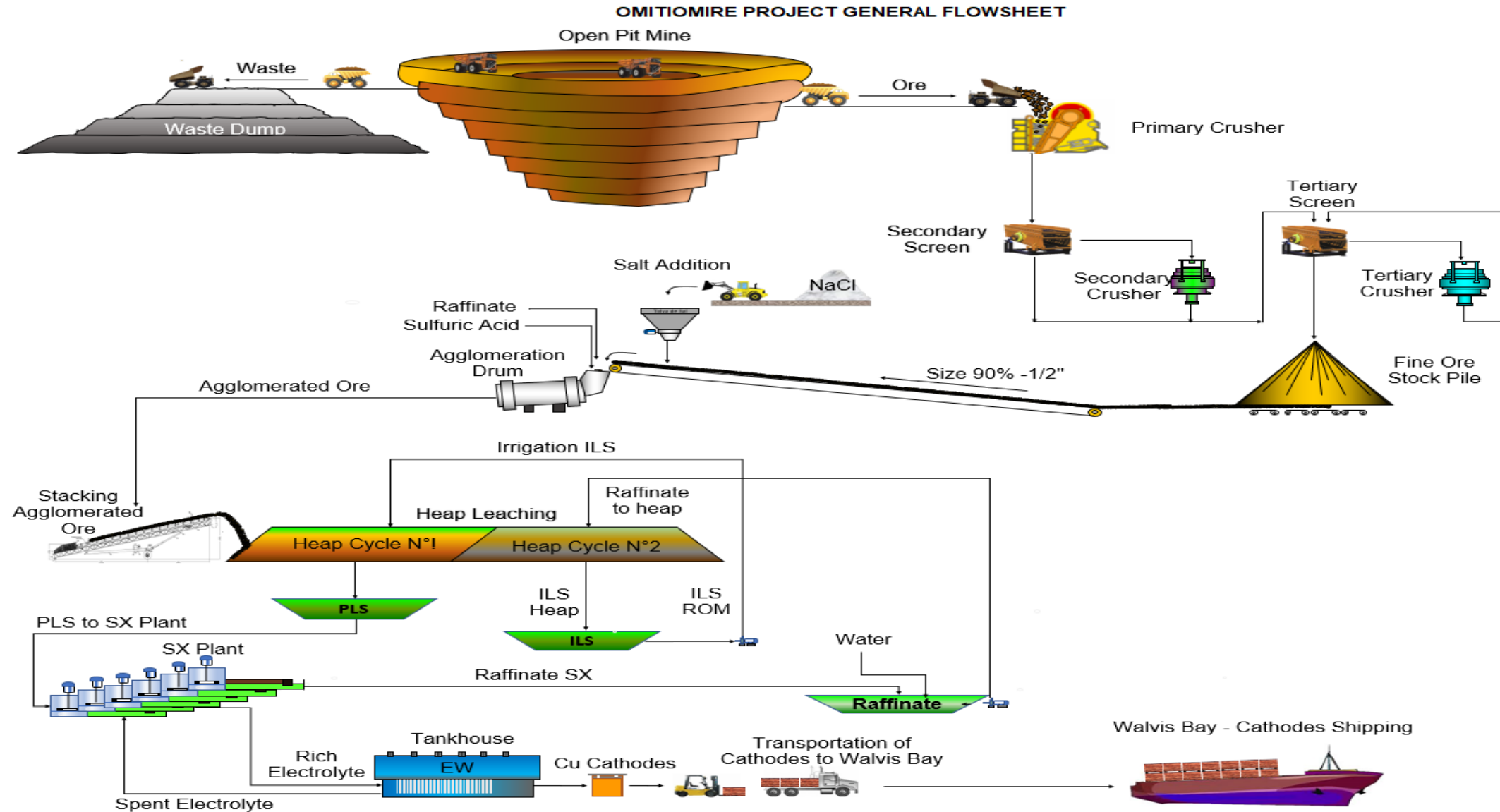


# — Ownership and Location

- Omitiomire deposit located northeast of Windhoek, accessible by ~140km of road, 100km to international airport
- Direct road links to Walvis Bay and Johannesburg (via Trans Kalahari Corridor)
- 5% held by a Namibian incorporated, independently managed community trust
- Greenstone is manager



# — Flowsheet



# — Metallurgical Testwork

## Phase 2 Test Work

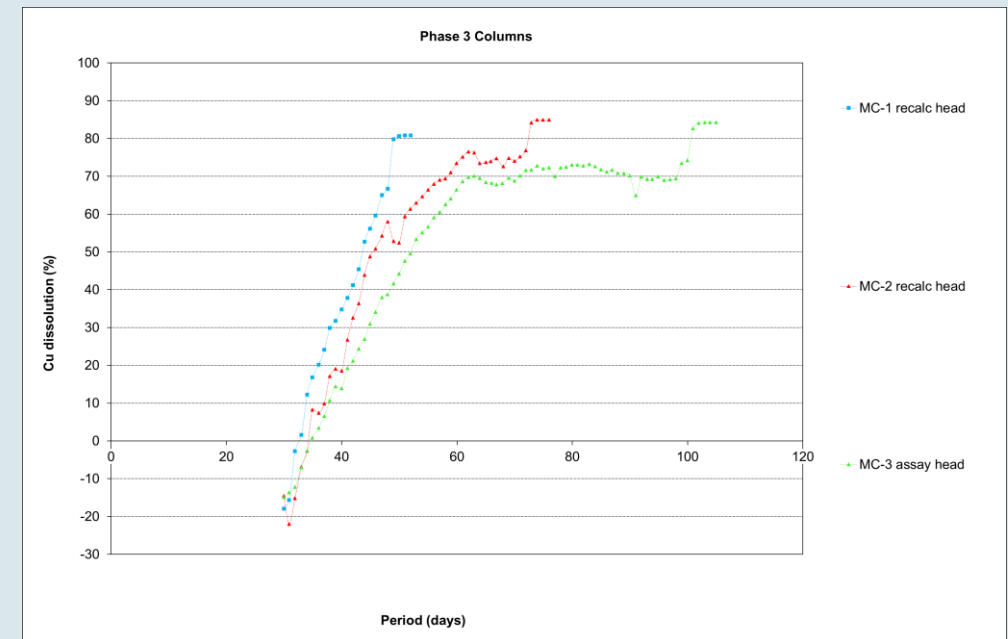
- Completed April 2023
- 7x 4m and 1m sequential columns
- Results: implied **77%** average Cu recovery, **44kg/tonne** acid consumption and 300 day leach cycle time
- Columns assayed at 1m intervals to establish leaching characteristics
- Majority of acid consumed in first meter – lower 3 meters had no/little acid in irrigation solution despite continued good copper recoveries, by cupric to cuprous reaction

## Phase 3 Test Work

- Completed October 2023
- May 2023 3x mini-columns using high Cu and low acid for irrigation: replicate cupric – cuprous reaction
- Acid consumption reduced to **10kg/t**
- Leach times reduced to 150 days (300 days)
- Recovery increased to **81%**

## Phase 4 Test Work

- Completion mid-2024
- 10x 4m columns
- 2 started Dec 2023, additional 8 columns in Feb 2024
- Expectation: Cu recoveries increase to **80+%**, acid consumption reduced to **10–15kg/tonne**, 200 day leach cycle time
- BFS published Q3 2024



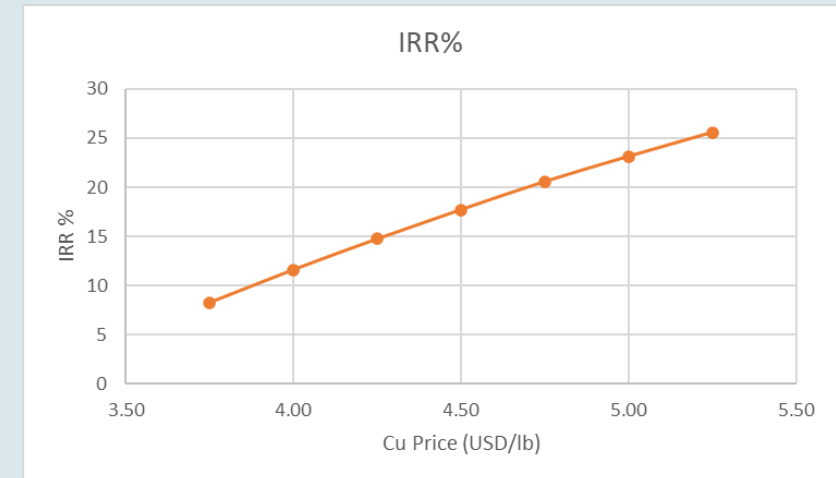
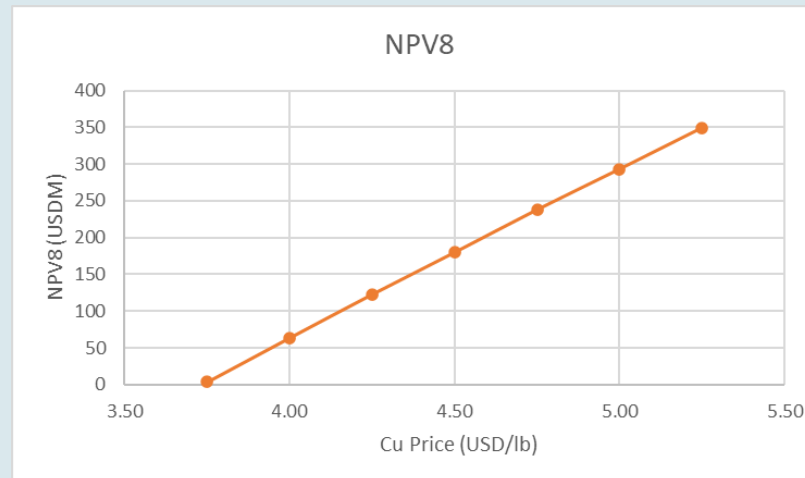
# — Expected BFS Outputs

## Technical

- Production: **25-30ktpa Cu** cathode
- Life of Mine: **13-15** years
- Preproduction capital: **\$360m**
- Ave LOM sustaining capital: **\$10m p.a.**
- Ave LOM opex: **\$4,650/tonne** copper
- Plant Capacity: **6.7 Mtpa**
- Metallurgical recoveries: **80%**
- Acid consumption: **10-15 kg/tonne**
- Acid plant capacity: **250 tpd**
- Leach cycle time: **200 days**
- Mining Strip ratio: **4.8:1**
- Based on Owner Mining

## Financial

- Post-Tax NPV8: **\$175m** (100%)
- Post-Tax IRR: **18%**
- Capital Intensity **14,100/t Cu**
- Key assumptions:
  - Cu price **\$4.5 /lb** LT
  - FX: USD/ZAR 19:1
- Valuation upside not modelled:
  - increased production/life of mine from reduced cut off grade
  - No acid plant at all and buy acid domestically



# — Expected Capex/Opex Breakdown

Capex	
Pre-Production Capex	USD (M)
Plant Site, SXEW, Infrastructure	154.8
Acid Plant	33.9
Heap Leach Pad Construction	20.8
Mining fleet, Workshops, WRD	59.2
Road and River Diversions	9.8
Pre-Strip and Capitalised Opex	17.4
Water and power supply	32.1
G&A, Land Acquisition and Access	17.9
EPCM	12.3
<b>Total</b>	<b>358.1</b>

Sustaining Capex	USD (M)
Plant Site	5.8
Heap Leach Pad Construction	16.6
Mining Fleet	76.7
Closure Costs	24.0
<b>Total</b>	<b>99.1</b>

Opex	
Operating Costs	USD/t Cu
Mining	2,441
Processing	1,061
Acid	275
Power	636
G&A, Camp, etc	235
<b>Total</b>	<b>4,648</b>

	USD/t Cu
C1 Costs	4,710
AISC	5,520



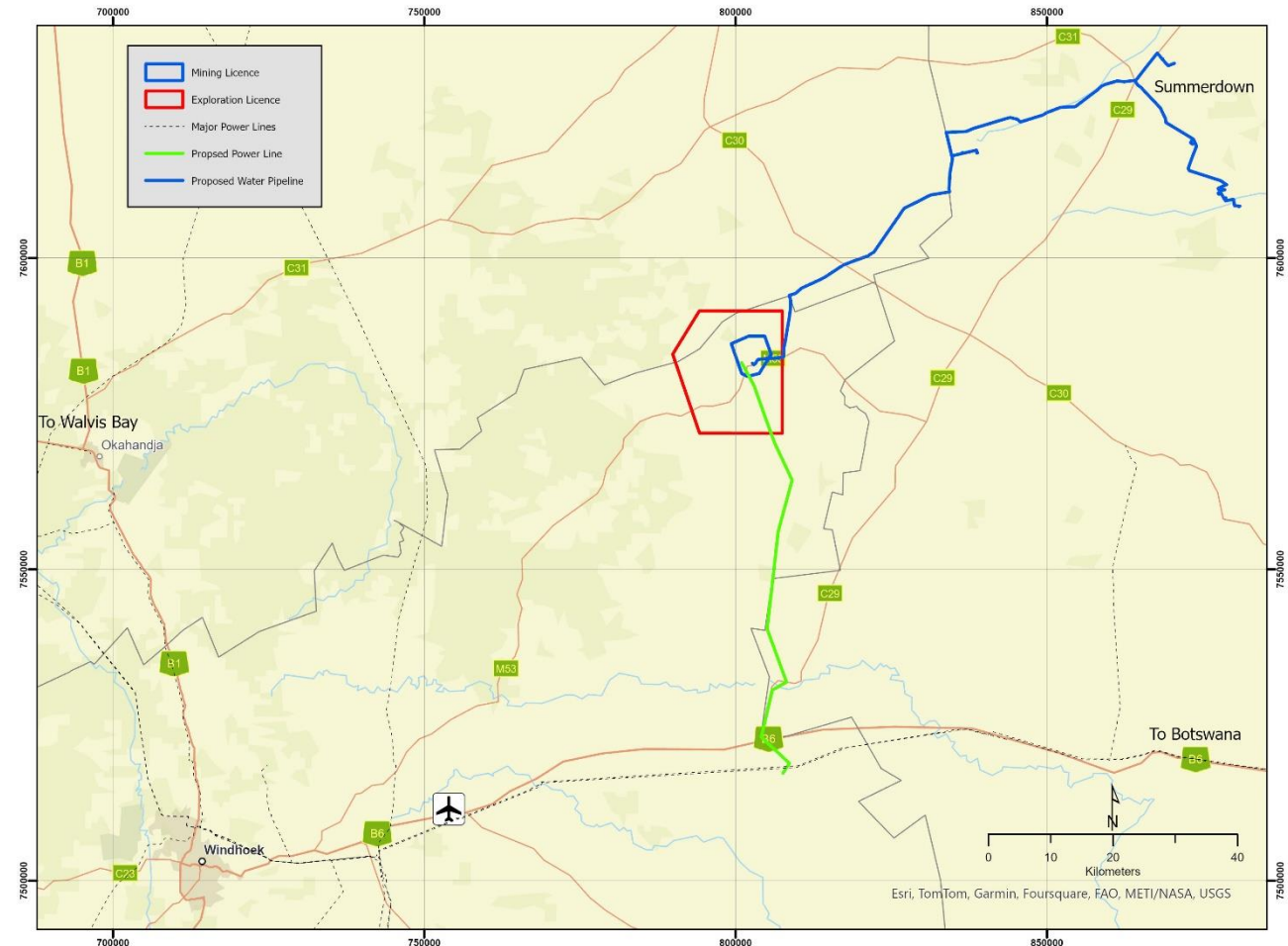
# — Low Risk Infrastructure

## Power

- Power requirement **25MW**
- Proposal received from Nampower to connect to grid via approx. **70km** line
- **30%** of power to be provided by IPP solar supplier

## Water

- Water to be supplied from Summerdown aquifer, approx. **90km** to the east
- Extensive drilling and pump testing undertaken in 2023 to ensure water resource is sustainable



## Craton Foundation Trust

- Owns **5%** of Craton Mining and Exploration (Pty) Ltd
- Managed by independent trustees
- Founded 2010 to address social needs in area of influence of project
- Once mine in production steady stream of income will fund independent community initiatives (focus is on crime prevention and social health)

## Community Engagement

- Omico holds regular community engagement with local stakeholders, including attending Farmers Association Meetings
- ESIA and ESMP being developed with local and regional stakeholders to IFC and World Bank Standards
- Application for environmental clearance to construct and mine to be submitted Q1 2024 – all specialist studies complete

## Environmental

- Minimise water consumption in arid area – closed system
- Evaporation management
- Heap leach uses **1/3** of water of conventional floatation
- Power supply **30%** solar, **70%** grid – with supplementary power from acid plant heat
- Carbon emissions reduced through solar power when available
- Waste rock is essentially inert, no AMD or deleterious run-off





# — Way Forward

	Q1 2024	Q2 2024	Q3 2024	Q4 2024	Q1 2025
Phase 4 Metallurgical Test Work					
Application for Environmental Clearance Certificate					
Final PDCs, Mass Balance and Flowsheets					
Negotiate Water Supply Access and Permits – Dept of Water Affairs					
Finalise Power Supply Negotiations – Nampower and IPP					
Update Mining Study, Optimisation, Reserves					
Update Engineering Study					
Update BFS, Capex and Opex					
Project Financing					
FID					







# Thank You

For further information, please  
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# Appendix



# — Omitiomire Development and History

## 1970s: General Mining and Finance Corporation

- Soil geochem and shallow percussion and diamond drilling

## 1990s: Anglo American

- Geophysical surveys and further drilling, intersecting **106m @ 0.47% Cu**

## 2008: IBML acquired Craton

- **85,000m** new drilling
- Initial DMS and float metallurgical test work
- Mill-floatation PFS in 2010, small oxide DFS in 2013
- IBML development concept not compelling
  - Tonnes and grade did not support capitally intensive mill-float development
  - Project not advanced for 7 years
- Total spend of **US\$18M**

## 2019: Greenstone Investment

- Option over project acquired 2019, requirement to complete BFS with minimum spend of USD5m
- Total spend USD9m inc **USD4m** on engineering and **USD1.3m** on infill drilling
- Identified chloride heap leaching as potential recovery method
- Focus on lower capital intensive heap leach with SX-EW to materially improve economics
- Comprehensive metallurgical test work programme (4 Phases)

Year	Drill Campaign	DD (m)	RC (m)	RAB (m)	PERC (m)	Total (m)
1976	Pre-IBML				889	889
1992	Pre-IBML	1,336			755	2,091
1993	Pre-IBML	224			986	1,210
1998	Pre-IBML		991			991
2007	IBML	737	9,485			10,222
2008	IBML	2,063	21,258			23,321
2009	IBML	1,484	6,868	832		9,184
2010	IBML: Oxide Infill		2,094			2,094
2010	IBML: Prospectus		4,294			4,294
2011	IBML: Resource Extension	5,753	6,114		1,676	13,543
2012	IBML: Resource Extension	4,478	4,729			9,207
2012	IBML: Metallurgical	1,117	1,058			2,175
2013	IBML: Oxide Infill		4,449			4,449
2014	IBML: Resource Extension		12,102			12,102
2022	Omico: Resource Infill		7,192			7,192
2022	Omico: Pit Geotechnical	1,415				1,415
		<b>18,607</b>	<b>80,634</b>	<b>832</b>	<b>4,306</b>	<b>104,384</b>

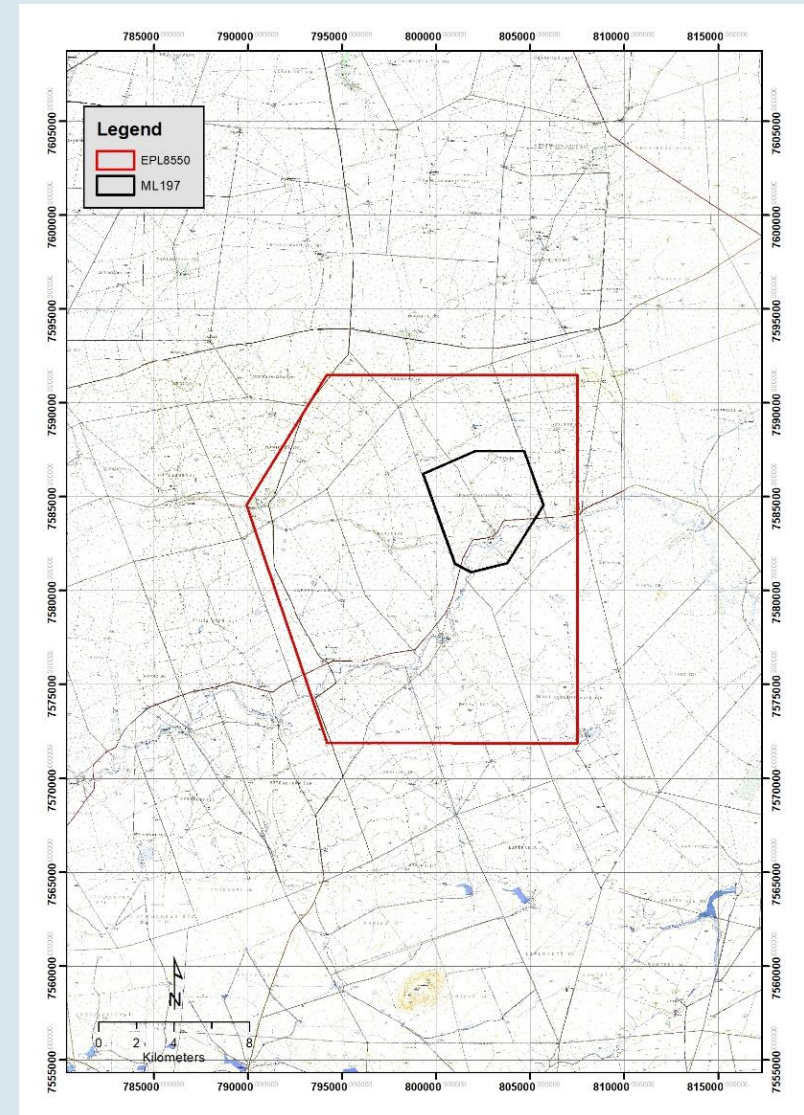




# — License Overview

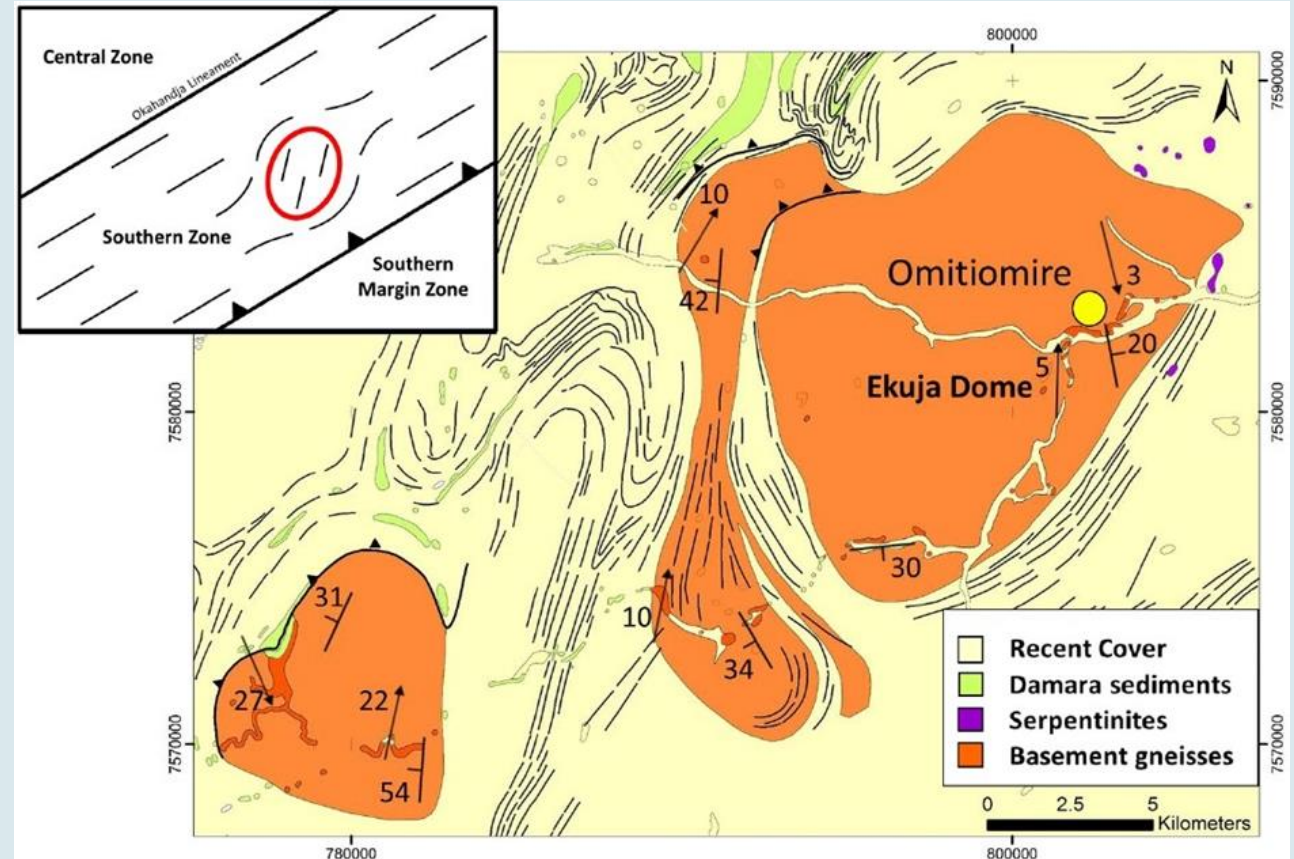
## License

- Mining License (ML197) granted March 2016 for **20 years** (renewable for 15 year periods)
- Exploration license (EPL8550) granted Sept 2022 for **3 years** (renewable for up to 7 years in total – with further renewals possible with ministerial discretion)
- Environmental Clearance Certificates granted to September 2025 (renewable) for exploration on both the ML and EPL
- Access agreement for Omitiomire farm signed until October 2024



# — Regional Geology

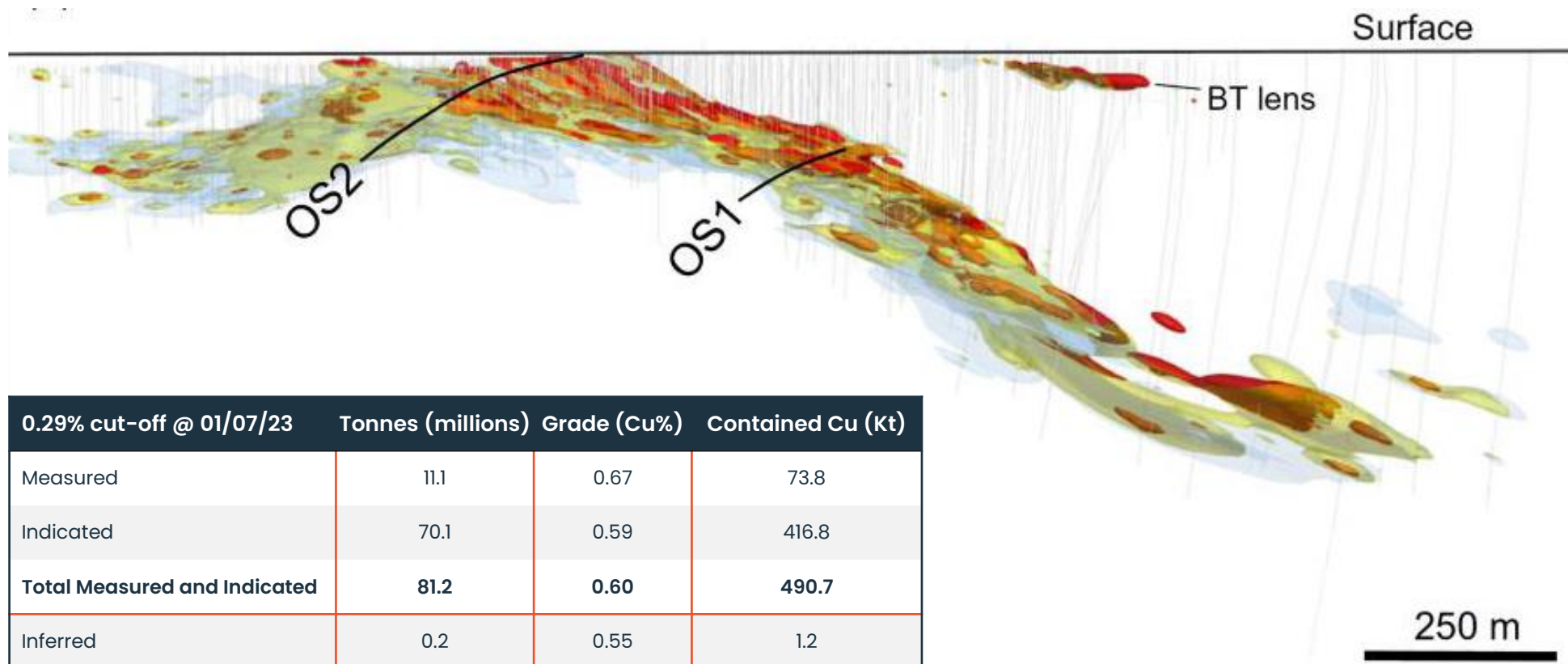
- Mineralisation in Ekuja Dome inlier, which covers an area of approximately 15km x 12km
- Dome is one of 3 dome-like gneisses penetrating through overlying high grade metasediments
- Rocks are mainly felsic gneiss and subordinate amphibolite and mafic schists (probably mafic volcanics)
- Dome system is similar to Sandfire's Mothero in Botswana and other regional deposits
- Deposit geology comprises two main rock packages:
  - Mafic rocks, hosting the Cu mineralisation, mainly of quartz, plagioclase, dark biotite and amphibole. Mineralised banding up to 100m thick
  - Surrounding leuco-gneisses usually unmineralized, quartz, plagioclase, variable amounts of biotite and trace amounts of garnet and sphene





# — Omitiomire 2023 Copper Resource

- Updated resource based on Omico 2022 infill drilling
- Project has an CIM Definitions Standard compliant resource estimate containing 490kt copper
- Strike length of 3.5km, open at depth



Un sliced cross section to the NE – upwards convex lens shape of mineralisation

OS1 and OS2 – high grade shoots

BT – disconnected hangingwall mineralised zone

Red: >0.5% Cu  
Yellow: 0.1% – 0.5% Cu  
Blue: <0.15Cu

All tabulated data have been rounded and as a result minor computational errors may occur

Notes 1. Mineral Resources, which are not mineral reserves, have no demonstrated economic viability

2. The Mineral Resource is reported for mineralisation contained within a Whittle optimised pit shell above a cut-off grade of 0.29% Cu, which is based on a copper price of USD 4.4/lb, mining costs of USD 1.91/t at pit rim (escalated with depth), treatment costs to cathode of USD 17.0/t ROM ore (including G&A), 3% royalty, 0.04 USD/lb cathode sales cost, 100 USD/t cathode transport cost, pit slope 52° to 60°, mining dilution 3%, mining recovery 95%, copper recovery 76.9%.

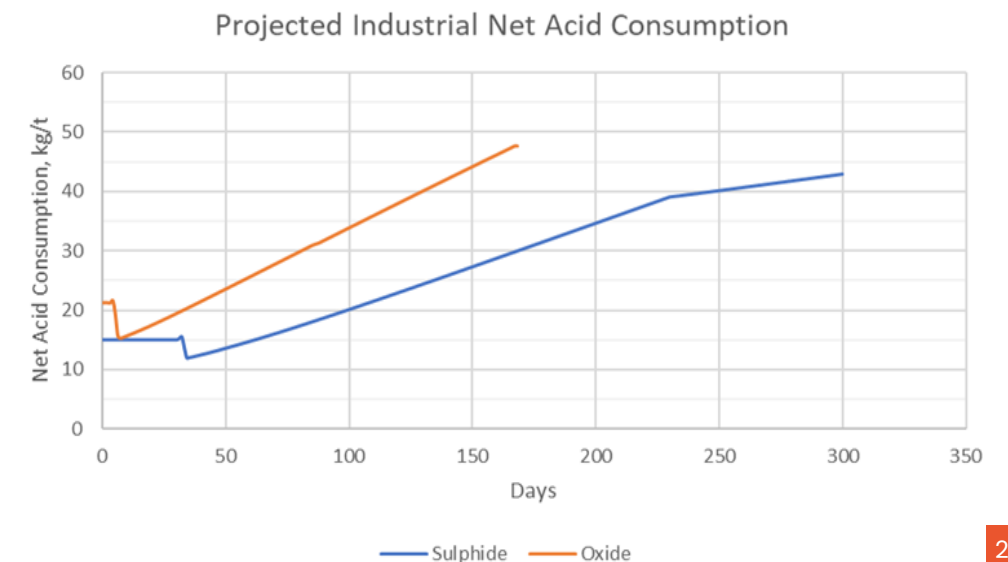
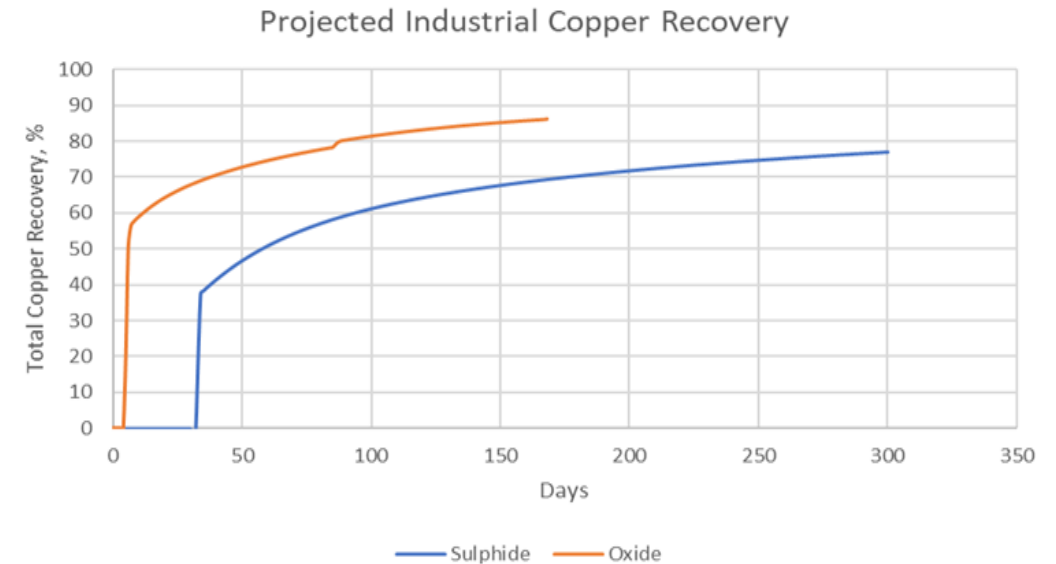
# — Mining

- Conventional drill and blast, truck and shovel open pit operation with staged pit designs
- **1,400m** of diamond drilling used for pit slope analysis
  - Excellent rock conditions and low pore water pressures
  - steep walls
- 15m benches mined in 5m flitches for ore
- Ground water hydrogeology indicates no significant inflows into the open pit
- Waste rock is essentially inert
  - Little capacity to generate any acid, or other deleterious elements
  - Limited migration of any solute from the waste facilities
- Final pit design based on footwall ramps
  - Minimises waste mining
  - Interim pushbacks with temporary hangingwall ramps



# — Phase 2 Metallurgical Results

- 1x oxide 4m column, 7x sulphide 4m columns
- Range of Cu head grades (**0.3%Cu**, **0.6%Cu** and **0.9%Cu**)
- Parallel 1m sequential columns replicating the conditions in the 4m columns
- 30-day curing period with NaCl and dilute sulphuric acid (3 days for oxide with acid only)
- Sulphide METSIM simulation PDC
  - **76.9% Cu** recovery
  - 307 day leach cycle
  - **43.9kg/t** acid consumption
- Oxide METSIM simulation PDC
  - **86% Cu** recovery
  - 167 day leach cycle
  - **48.7 kg/t** acid consumption





# — Upside Phase 2 Results

- Phase 2 sequential column results:
- Nearly all acid was consumed in the first 1m of the column
- But in lower  $\frac{3}{4}$  of column dissolution of copper continued
- Dissolution of Cu under low acid conditions driven by cupric to cuprous reaction
- Potential identified to leach using low-acid, high Cu irrigation solution on the heaps

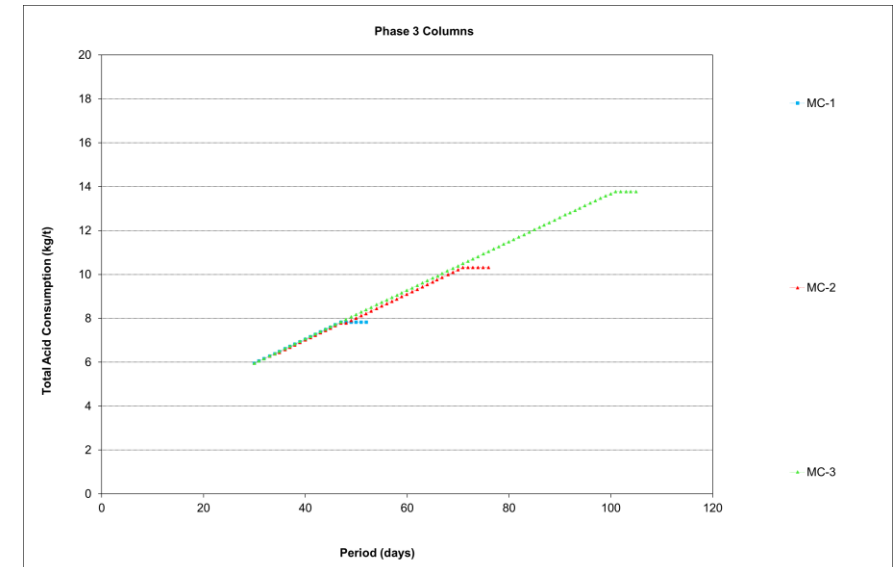
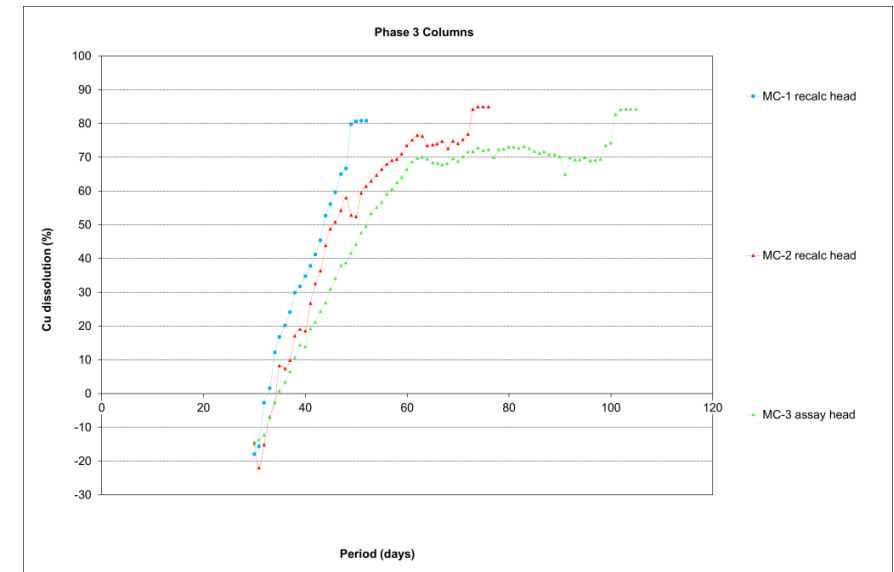
	Cu Recovery	Acid Consumption	Average Irrigation Acid Concentration
Average 1 <sup>st</sup> Metre	84%	90 kg/t	7.9g/l
Average 2 <sup>nd</sup> Metre	70%	19 kg/t	0.9g/l
Average 3 <sup>rd</sup> Metre	70%	17 kg/t	0.3g/l
Average 4 <sup>th</sup> Metre	70%	16kg/t	0.2g/l
Average 2 <sup>nd</sup> –4 <sup>th</sup> Metre	70%	17kg/t	0.4g/l





# — 2023 Phase 3 Testwork—Low Acid Proof of Concept

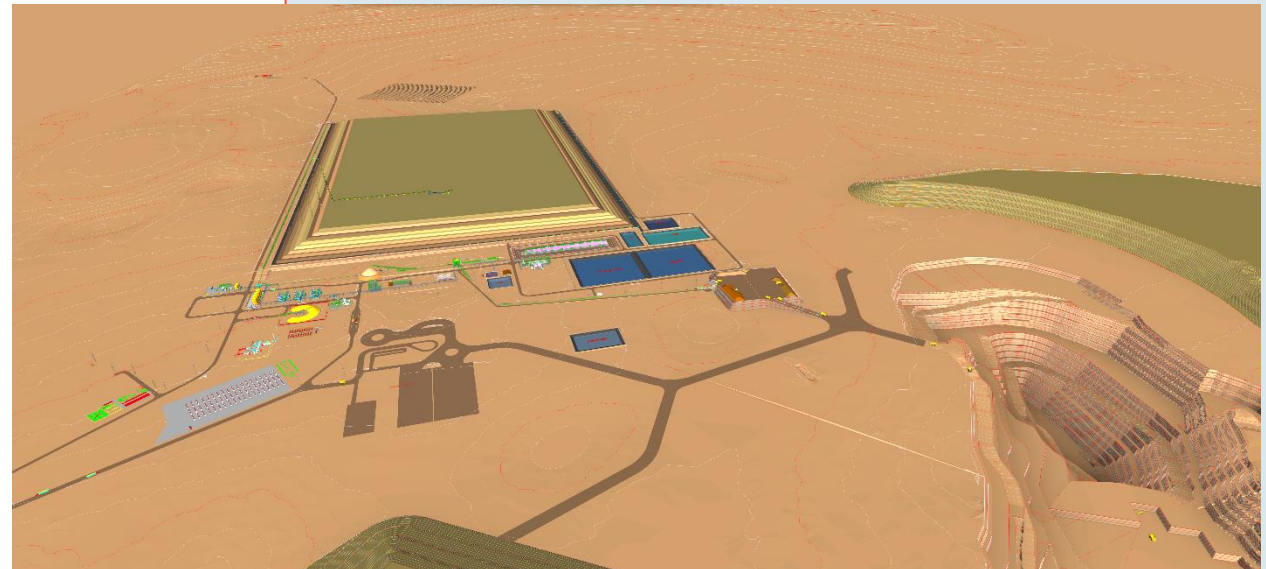
- Commenced May 2023
- 3 mini-columns (30cm high) with average grade (0.6% Cu)
- 30 days curing with the NaCl solution and high grade Cu (**20g/l**), low grade acid solution (**1g/l**)
- Irrigation with Test work **10g/l Cu** and **0.5g/l acid** content solution.
- All columns recovered over **80%** of the total copper at an average acid consumption of **11kg/t**
- METSIM simulation – acid consumption may reduce to **10 to 15kg/t** from the current **44 kg/t**, with reduction in leach time to less than 250 days.



# — Current Processing Route

- Conventional agglomeration with a salt brine and dilute acid
- Stacking via grasshoppers on heap leach pad (HLP) – with an impermeable clay base and 2x HDPE plastic liners and a leak detection system, with a height of 6m per lift
- 30 days curing (7 days for oxide) heap irrigated with initially Intermediate Leach Solution (ILS), followed by raffinate, for up to 300 days
- Resultant Pregnant Leach Solution (PLS) is processed through a conventional Solvent Extraction and Electrowinning (SXEW) plant to produce copper cathode

- Open pit to the right with waste rock dump, pit exit leading to the ROM pad
- Foreground is the mining cluster, including workshops, equipment parking, etc.
- Background shows the HLP with the ponds, SXEW, sulphur storage and acid plants



# — Current Processing Route



ROM Pad (RHS)  
Ponds, SX and EW

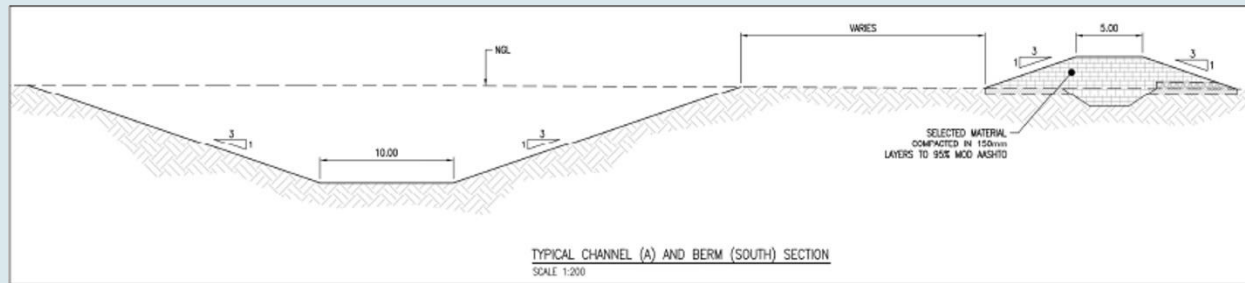


Acid & sulphur storage, acid plants (LHS)  
Crushing circuit and crushed ore stockpile (RHS)

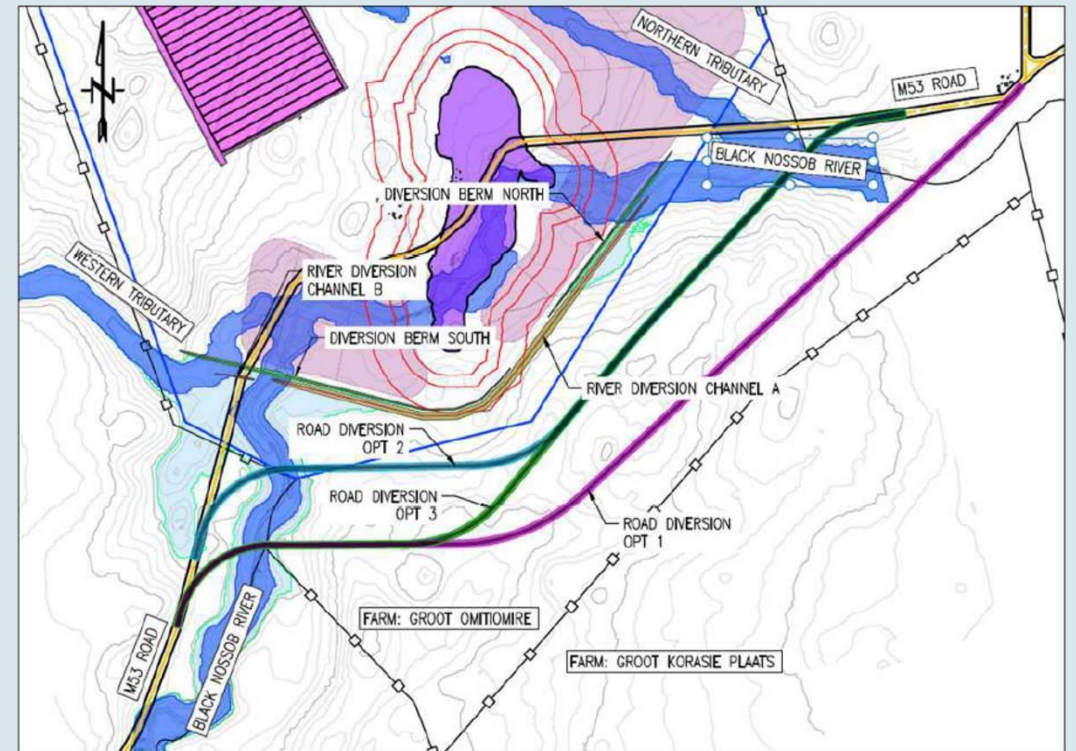
# — Omitiomire 2023 Copper Resource

- Diversion of Black Nossob ephemeral river which currently flows through the open pit area
- Channel designed to for 1:200-year flood from the 3 catchments in the area of the pit
- The channel is up to 40m in total width, with a berm where needed

Typical River Diversion Channel and Berm



Proposed Channel Diversion Berm Alignment





# — Key Technical and Environmental Consultants

Internationally recognised experts with a **strong track record** in copper hydrometallurgy



## BFS Study Manager

Heap leach, process plant and infrastructure design  
Capex and Opex costs



## Mining

Pit optimisation, design & scheduling, infrastructure  
Reserve estimation, Capex and Opex costs



## Geology and Mineral Resources

Drill planning and Supervision  
Resource Estimation



## Metallurgical Consultants

Metallurgical programme design and implementation  
Process development, PDC, mass balance



## Environmental & Social

Monthly monitoring, ESIA and ESMP  
Baseline, specialist & closure studies



## Geotechnical

River and road diversion design  
Leach pad and process plant geotechnical studies



## Engineering

Water supply  
Power supply and solar



# — Location

- Stable mining jurisdiction, democratic government, independent, strong legal system
- Government supportive of mining sector, **12%** of GDP (2022)
- Well trained workforce, experience of heap leach and SXEW
- Ranked 3rd in Africa in the Fraser Institute's 2022 Policy Perception Index
- Low population density: Population of 2.5m across 825,000km<sup>2</sup>
- Well-connected and functional infrastructure with key road and shipping access
- Newly upgraded deep water port at Walvis Bay

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