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## **QUELLAVECO – MANY COMPANIES, ONE TEAM**







## EXPERIENCED LEADERSHIP TEAM















Chief Executive Officer

**Tom McCulley** 

- Anglo American Group Head of Engineering 20+ years of
- · Previously VP for Investments and Value Management at Newmont

**Projects** 

- Extensive experience delivering large scale greenfield projects
- 4 years with Anglo American

**Christoff Kuhn Project Director** 

- · Management and Professional with experience
- Owner and EPCM project study and execution experience
- · Previously Project Director for De Beers' Venetia Underground Project
- 8 years with Anglo American

**Peter White Chief Financial** Officer

- Qualified Chartered Accountant with 20 years of experience
- Previously served as Financial Controller for Anglo American Copper
- 11 years with Anglo American, having started career with PwC

Tito Cacho **Operations** 

- Qualified Mining **Engineer** and MBA with 20+ vears of multicommodity experience in the mining industry
- Global exposure including senior roles at Hudbay Minerals, First Quantum Minerals, Gold Fields and BHP Billiton across three continents

**Diego Ortega Corporate Affairs** 

- Qualified Corporate Affairs, Social Performance and Legal Senior Executive with 18+ years of national and international experience in
- Previously held senior roles in mining law firms and MMG, Gold Fields and Rio Tinto

mining sector

- **Carlos Dominguez Human Resources**
- · 35 years of experience in various industries
- 9 years with Anglo American, as Head of HR for Peru
- · Previously held senior HR management roles with other Peruvian mining companies including Milpo and Yanacocha

Craig LaFortune **Project Director** 

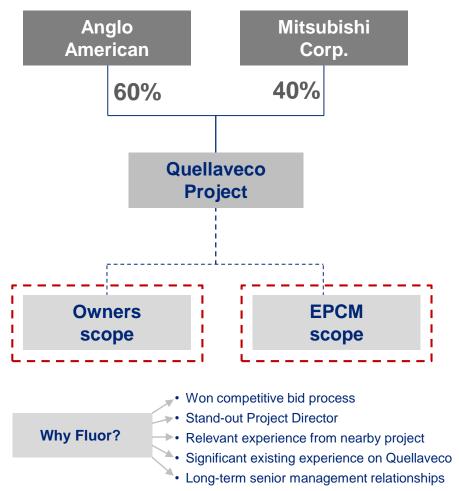
(Fluor)

- SVP of Project Management
- Last assignment was US\$4bn Infrastructure Project for Petronas
- Experienced in leading multibillion dollar EPC(M) projects and JV Partnership project execution
- 30 years with Fluor

## ROBUST GOVERNANCE AND LEADING EPCM PARTNER



### **Quellaveco Project Structure**





## IN-DEPTH KNOWLEDGE OF THE PROJECT

## ...developed over >25 years in Anglo American portfolio

### 2015

FS for 127.5ktpd completed.

All major permits approved.

Independent Project Review completed

### 2012

Mitsubishi acquires 18.1% stake of project from IFC

Dialogue Table completed following 18 month process

Main permits approved

## 2018

FS updated. Investment Assurance review successful

Mitsubishi acquires additional 21.9% stake of Quellaveco from AA plc

AA plc approves execution of project

### 2010

Pre-FS completed. 1<sup>st</sup> & 2<sup>nd</sup> EIA amendments approved. Early-works initiated

### 2008

FS revised for 91ktpd. New plant location / water source

### 2000

First Feasibility Study (FS) for 64ktpd, and Environmental Impact Assessment (EIA) approved

1992

Anglo American purchase of Quellaveco

## PERU – AN ATTRACTIVE MINING JURISDICTION

The world's second largest producer of copper, with mining accounting for ~10% of GDP



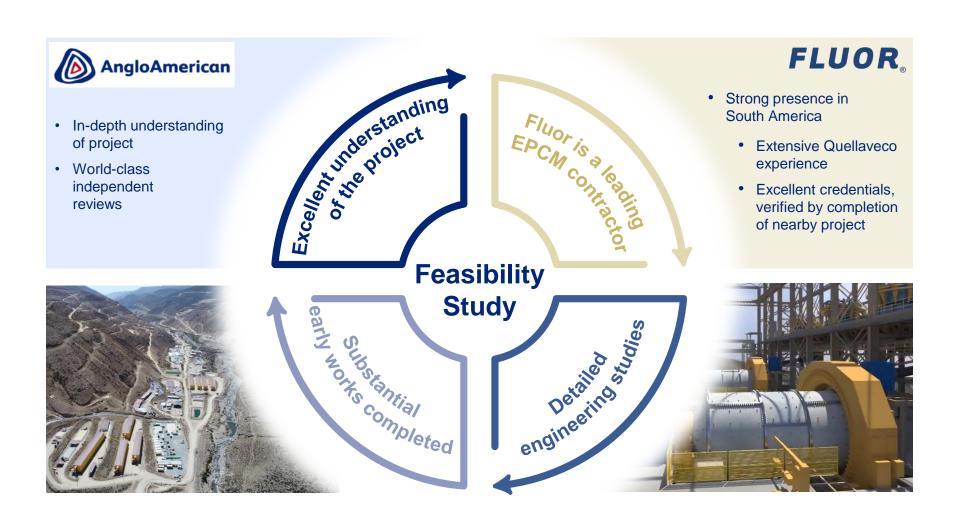
## Project supported by Central, Regional and Local government

Central government	<ul> <li>Government supports project execution, acknowledging importance to national economy</li> <li>Legislation supports mining</li> </ul>
Regional / Local government	<ul><li>Supportive of project</li><li>Continuous engagement</li></ul>

### The south of Peru is an established mining location

- Fastest growing copper producing region in Peru
- Hosts many of the world's foremost mining companies
- Established infrastructure and skilled workforce
- Clear policy and regulatory framework

## **WORLD-CLASS FEASIBILITY STUDY**



## **NOT YOUR TYPICAL GREENFIELD...**

Significant early works completed		
Detailed Geological Model	<ul> <li>✓ 120km of drilling supports 7.6Mt Contained Copper Ore Reserves and 6.0Mt of Contained Copper Mineral Resources¹</li> </ul>	
Advanced Geotechnical Understanding	✓ Excellent understanding of grinding area geotechnical conditions	
Detailed Engineering	✓ Advanced progress of detailed engineering works underscores confidence in capex estimate	
Permitting	✓ All major permits for construction obtained	
Land Access	✓ Secured full access to / ownership of dam, mine, concentrator and tailings facility	
Site Access	<ul> <li>Main access road and Asana River diversion in advanced stages of construction</li> </ul>	
Water Infrastructure	✓ All water reservoirs and ponds for construction completed	
Mobilisation of People and Contractors	<ul> <li>✓ Platforms for all construction and operations camps completed</li> <li>✓ Key packages awarded and contractors mobilising</li> </ul>	







## ...CULMINATING IN PROJECT APPROVAL IN JULY 2018

### Located at ~3,500m above sea level in south of Peru, 34km from the city of Moquegua



Quellaveco – Key statistics			
^	Commodities:	Copper (molybdenum by-product)	
	Mine:	Open-pit, 1.3Bt Reserves, 0.57% TCu <sup>1</sup>	
Overview	Returns:	>15% IRR, >20% ROCE, 4-yr payback	
Ove	Workforce:	~9,000 at peak construction ~2,500 steady state operations	
	Ownership:	Anglo American (60%), Mitsubishi (40%)	
Construction	Construction time:	< 4 years from August 2018	
	Commissioning:	First production 2022 Ramp-up during 2023	
onstr	Permitting:	Key construction permits obtained	
ပိ	Capex:	\$5.0-5.3bn (nominal, 100% basis) \$2.5-2.7bn (nominal, attributable to AA)	
Operation	Throughput rate:	127.5ktpd	
	Production:	~330ktpa average first five years ~300ktpa average first 10 years	
	Reserve life:	~30 years	

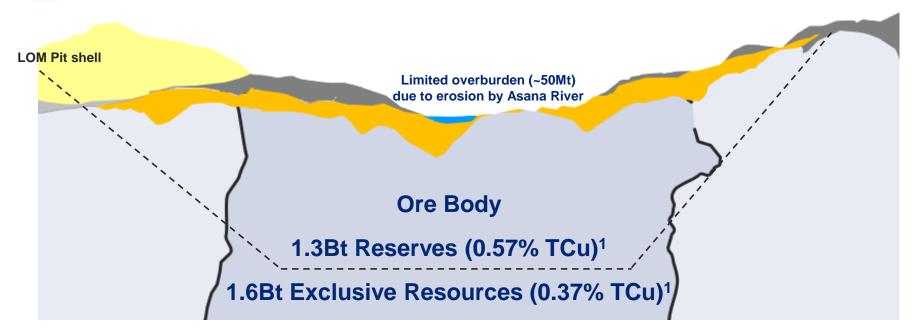


## **HIGH-GRADE ORE IN 4-YEAR PAYBACK PERIOD**

...with high degree of confidence in ore body

First five years: ~330ktpa production 0.84% TCu grade >90% Proved Reserves

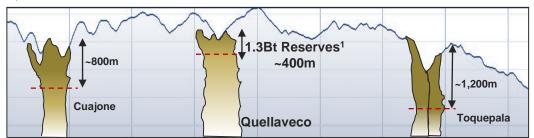
In payback period: Softer, near-surface, easily accessible high-grade secondary ore



## **30-YEAR RESERVE LIFE WITH SIGNIFICANT POTENTIAL**

### **Favourable mineralisation characteristics**

### 4,000m above sea level



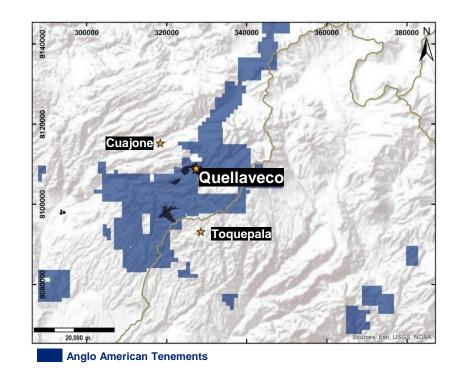
Mineralisation open at depth, to north and to south

Neighbouring mines operating >40 years and 2-3x deeper

2.000m above sea level

### Quellaveco at start of its resource journey

Quellaveco licence area: significant potential and several prospective anomalies





## STRUCTURAL COST ADVANTAGES: LOW-COST MINING

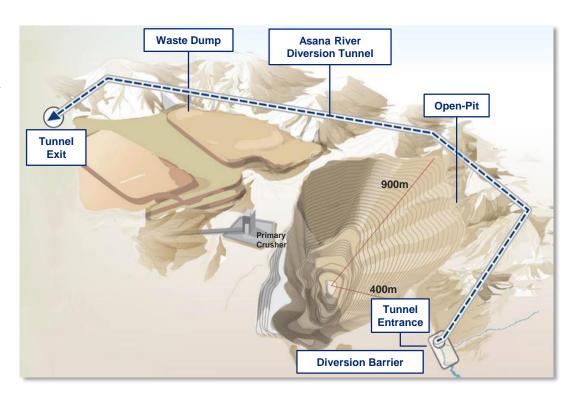
Open-pit operation, with optimal design based on latest resource block model

### Low strip-ratio

- Ore body uncovered through erosion by the Asana River...
- ...leading to low strip ratio of 0.8x (LOM)

### **Efficient hauling**

- · Central location of primary crusher...
- …leading to short haulage distances, with downhill loaded cycle for most of first ten years



Resulting in an efficient operation with smaller fleet requirement and low consumables

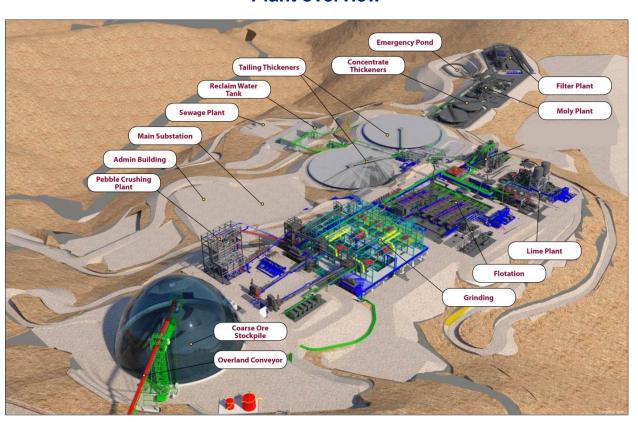
## **OVERBURDEN STRIPPED BY ASANA RIVER**



## **CONVENTIONAL, WELL-UNDERSTOOD PROCESSING**

Two grinding lines, designed for hard ore, to produce high-grade copper concentrate

### Plant overview



### **Conventional processing**

- Plant designed for hard ore, with softer ore to be processed in early years
- One SAG and one Ball Mill on each grinding line, with space for a third line
- Initial permitted throughput capacity of 127.5ktpd
- Current design capacity 150ktpd
- Average copper concentrate grade >40% in first 5 years, >30% over LOM

## HIGHLY COMPETITIVE Q1 COST POSITION

Key structural cost advantages expected to deliver a Q1 cash cost position

C1 cash cost

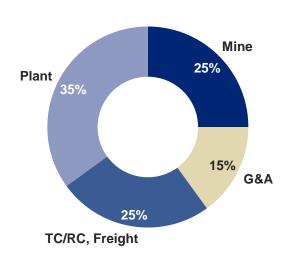
\$1.05/lb

Average over first 10 years

### Structural cost advantages

- Low strip-ratio
- Efficient and short hauling
- Competitive labour and power costs





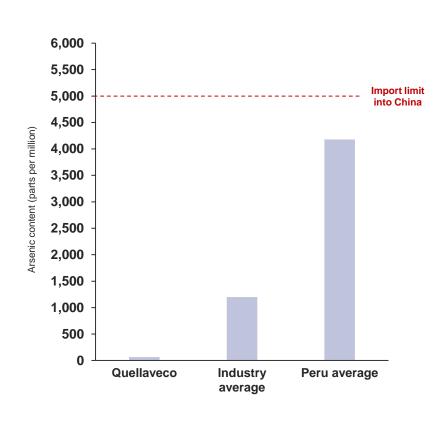
# MARKETING ADVANTAGES FROM HIGH-GRADE CONCENTRATE AND LOW IMPURITIES

### Quality of concentrate offers marketing advantages

### High grade copper concentrate with low impurities

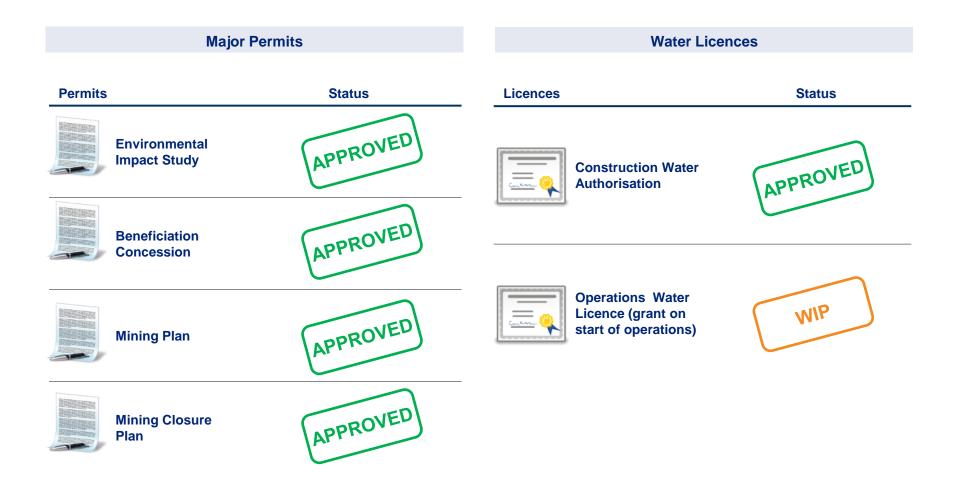
- >40% concentrate grade in first 5 years;
   >30% over LOM
- Clean concentrate with exceptionally low arsenic levels
- Low levels for other impurities
- Attractive feedstock for Chinese smelters
- Blending opportunities with lower quality concentrates

### **Arsenic content benchmarking**





## **ALL MAJOR CONSTRUCTION PERMITS IN PLACE**



## **COMMITTED TO WORKING WITH LOCAL COMMUNITIES**

## Dialogue Table focussed on three key areas...

# Water Supply and optimal use of water resources



Environment
Compliance and
monitoring of
environmental
commitments



Local stakeholders Sustainable development projects



### ...with firm commitments

**26**Agreements directly from the Dialogue Table

31
Bodies from 3 different municipalities

~\$300m

Community investment commitment over next 30 years

## LICENCE TO OPERATE TO UNDERPIN PROJECT SUCCESS

Sustainability at the heart of Anglo American values, reflected in approach to Quellaveco's development

### Safety and Health

### Safety

- Comprehensive health and safety programme based on principles and values of Anglo American and Fluor
- · Zero-harm objective

### Health

- Support health and sanitation, and assist communities in obtaining access to required services
- Recent health initiative resulted in reduction of malnutrition, infant mortality, and improvement in living conditions



### **Environment**

### **Policy & Programme**

- · Robust environmental programme
- Environmental controls and water scheme reviewed and accepted by local communities
- Regular, scheduled monitoring of air, water, noise, flora and fauna in place with local residents' participation
- Segregate waste, establish recycling and manage the proper disposal of waste
- Full compliance with commitments and no major incidents to date



## LICENCE TO OPERATE TO UNDERPIN PROJECT SUCCESS

### Project benefits from unique social credentials

- Commitment to hire 80% of unskilled workforce from local community: >80% achieved to date
- At peak construction, ~9,000 jobs to be created (~2,500 in normal operation)
- Goods and services purchased from >300 local suppliers
- Local business fair to bring together contractors with local suppliers

### **Education programmes**



- Reduce gaps in existing education system
- Focus on early intervention, assisting families with disabled children, and providing adult education

### **Economic programmes**



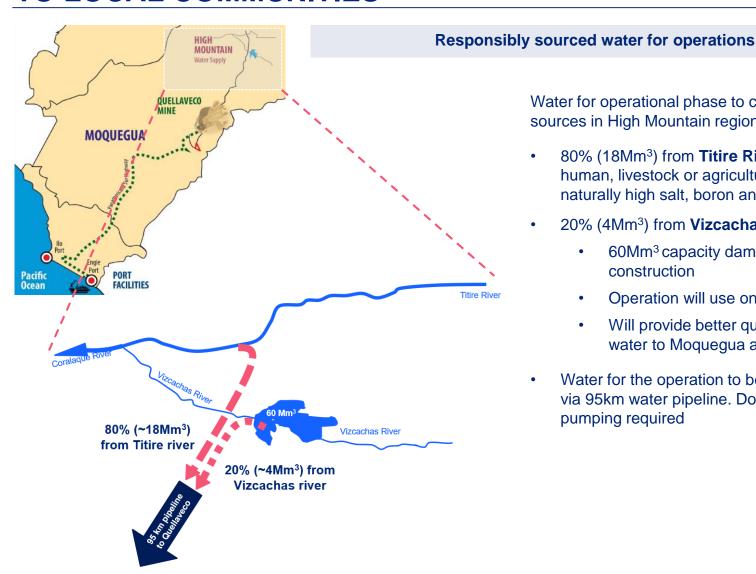
- Support integrated and sustainable rural development
- Water and natural resource management

### **Enterprise programmes**



- Assist public and private organisations by improving access to markets as well as helping small businesses to secure financing
- Training courses to improve negotiating skills

## DELIVERING IMPROVED QUALITY AND VOLUME OF WATER TO LOCAL COMMUNITIES



Water for operational phase to come from two sources in High Mountain region:

- 80% (18Mm<sup>3</sup>) from **Titire River**: unfit for human, livestock or agricultural use due to naturally high salt, boron and arsenic
- 20% (4Mm³) from Vizcachas reservoir:
  - 60Mm<sup>3</sup> capacity dam and reservoir under construction
  - Operation will use only 4Mm<sup>3</sup> p.a.
  - Will provide better quality and volume of water to Moquegua and Tambo regions
- Water for the operation to be transported to site via 95km water pipeline. Downstream flow, no pumping required



## WHAT ARE WE BUILDING...

### Area 1000 - High Mountain Water

- · Vizcachas River: dam and reservoir
- · Titire River water intake
- 95km water pipeline to transport water to plant

### Area 4000 - Tailings Dam

- ~1.3Bt storage capacity tailings dam
- Downstream method, designed and reviewed by world-leading experts

### Area 2000 - Quellaveco Mine

- Asana River diversion system
- · Overland conveyor, incl. tunnel
- Pre-strip of ~50Mt

### Area 5000 - Infrastructure

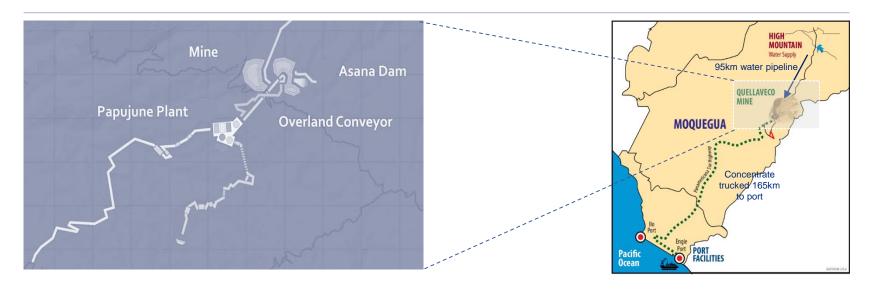
- Port expansion, with new ship-loading and storage facility
- · Power lines and substation
- Access roads

### Area 3000 - Papujune Plant

- Conventional processing plant
- Two grinding lines: one SAG and one Ball Mill each, with space for third line

### Area 6000 - Temp. Facilities

- 4,000-bed workers camp
- · Concrete batch plants



## **ACHIEVEMENTS TO DATE**

### **Engineering**



- Utilising global Fluor network of engineers across four locations
- Advanced progress: ~60% complete

### **Contracts and Procurement**



- All awards on track
- ~60% contracted
- ~50% procurement complete
- All earthwork contracts awarded and mobilising
- Long-term, low-cost power supply agreement secured

### **Milestones**



- On-track to achieve first major milestone of river diversion in early-December
- Earthworks and concrete meaningfully progressed
- ~6,000 workers onsite today, with ~50% from local community

## ON TRACK SINCE PROJECT APPROVAL

### Area 1000 - High Mountain Water

- ✓ Vizcachas River diversion on track
- ✓ Dam and water intake in progress
- 95km water pipeline construction on track to begin in 2019

### **Area 3000 – Papujune Plant**

- ✓ Mass earthworks in progress
- ✓ Concrete works on track to begin in 2019

### Area 5000 - Infrastructure

- ✓ Main access road complete
- Power supply contract awarded, power infrastructure mobilised

### Area 2000 - Quellaveco Mine

- Asana River diversion on-track to complete early-December
- ✓ Mass earthworks begun
- Structural, Mechanical, Piping, Electrical (SMPE) contracts in final negotiations

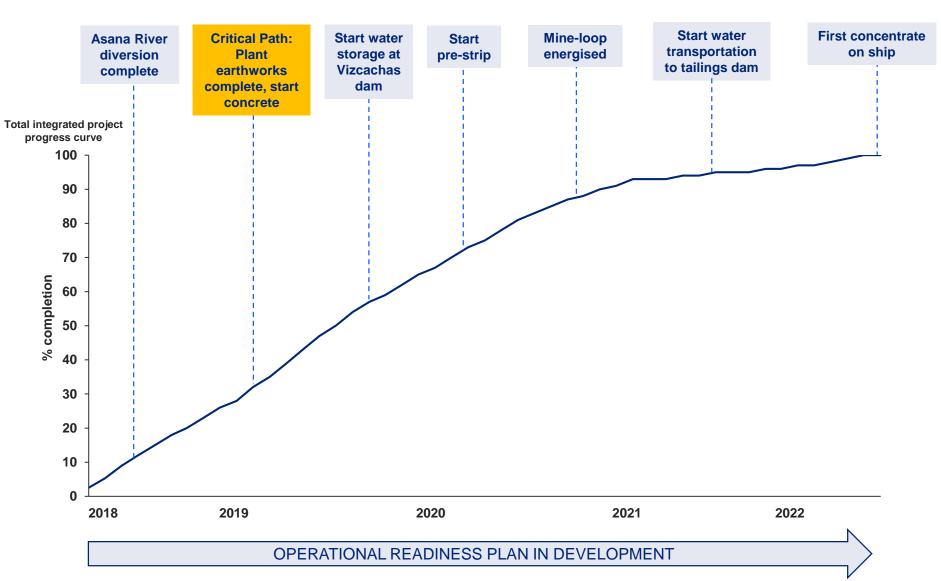
### Area 4000 - Tailings Dam

- ✓ Access roads in progress
- Excavation work awarded and mobilising

### **Area 6000 – Temporary Facilities**

- ✓ 2,000 bed camp complete
- ✓ Further 2,000 beds in progress

## **SCHEDULE TO COMPLETION**





## ATTRACTIVE RETURNS PROFILE

### Robust financial returns on project capex of \$5.0-5.3bn

**IRR** 

>15%

Real, post-tax

**EBITDA** margin

>50%

Average over first 10 years

**ROCE** 

>20%

Average over first 10 years

**Construction capex** 

\$2.5-2.7bn

Anglo American share post-syndication

Payback period

4 years

From first production in 2022

**Implied NPV** 

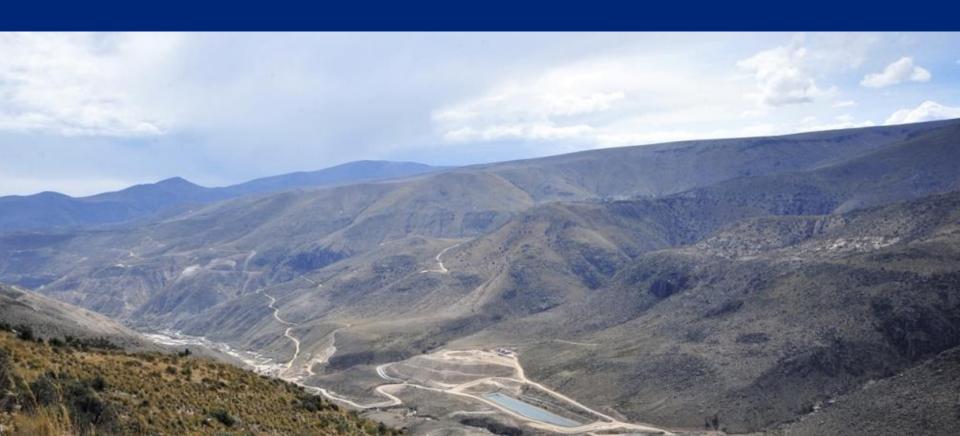
\$2.74bn

Based on recent syndication transaction





# **APPENDIX**



## FINANCIAL MODELLING

Ownership	Anglo American 60%, Mitsubishi 40%
Accounting treatment	Fully consolidated with a 40% minority interest. Shareholder loans from minority shareholder to be consolidated in Anglo American Group net debt.
Project capex (nominal)	\$5.0-5.3 billion (100% basis - Anglo American share 60%, Mitsubishi share 40%)
Construction time / first production	<4 years, to begin from August 2018. First production in 2022.
Production (copper equivalent) (ktpa)	~330 average over first five years ~300 average over first 10 years ~240 average over 30 year Reserve Life
By-products	~6ktpa contained molybdenum (average over first 10 years), with silver content
C1 cash cost (\$/lb) (real)	<ul><li>0.96 average over first five years</li><li>1.05 average over first 10 years</li><li>1.24 average over 30 year Reserve Life</li></ul>
Grade (%TCu)	0.84% ROM average over first five years 0.73% ROM average over first 10 years 0.57% average over 30 year Reserve Life
Stay-in-business capex (real)	~\$70 million pa
Tax rate	~40%