



GLOSSARY OF
TERMS
30 JUNE 2024

MINING WITH PURPOSE

GLOSSARY

Term	Definition
4IR	Fourth industrial revolution
A\$	Australian dollar
ADR	American Depositary Receipt
AEMO	Australian Energy Market Operator
Ag	Silver
AGM	Annual General Meeting
AI	Artificial intelligence
AISC	All-in sustaining costs
AMC	Australian Mining Consultants
AMCU	Association of Mineworkers and Construction Union
ANCOLD	Australian National Committee of Large Dams
Au	Gold
Australasia	For Harmony purposes, the region that includes our operations and projects in PNG and Australia
AVRD	African Vanguard Resources (Proprietary) Limited
B2DS	Below 2°C scenario
BAP	Biodiversity Action Plan
BBBEE/B-BBEE	Broad-Based Black Economic Empowerment

Term	Definition
BBEE	Broad-Based Economic Empowerment
BCM	Business continuity management
BD Protocol	Biological Diversity Protocol
BEE	Black economic empowerment
BMD	Below mine datum
bn	Billion
By-product	Any products emanating from the core process of producing gold, including silver and uranium in South Africa and copper, silver and molybdenum in Papua New Guinea
Cash costs	Total cash costs include site costs for all mining, processing and administration, reduced by contributions from by-products and include royalties and production taxes. Depreciation, rehabilitation, corporate administration, retrenchment, capital and exploration costs are excluded. Total cash costs per ounce are attributable total cash costs divided by attributable ounces of gold produced
CAWM	Continuation and Widow Members
CDP	Carbon Disclosure Project: a not-for-profit entity that operates a global disclosure system for investors, companies, cities, states and regions to manage their environmental impacts, particularly in relation to climate change, water and forests
CELCOR	Centre for Environmental Law and Community Rights Inc
CEO	Chief executive officer
CFO	Chief financial officer
CGU	Cash generating unit
CIL	Carbon-In-leach
CIP	Carbon-in-pulp
Closing rate	The final price of a currency pair at the end of a company's financial year
CLR	Carbon Leader Reef

Term	Definition
CMMC	Copper Mountain Mining Corporation
CMS	Concept Mine South
CO²	Carbon dioxide: total emissions calculated as direct emissions generated from petrol and diesel consumption and indirect emissions generated from electricity consumption (expressed in tonnes)
CO²e	Carbon dioxide equivalent: measurement of the impact of greenhouse gases in terms of the equivalent amount of carbon dioxide that would create global warming
CODM	Chief operating decision maker
COE	Cost of equity
COIDA	Compensation for Occupational Injuries and Diseases Act
CoR	Certificates of registration
CPI	Consumer price index
CPR	Central Plant Reclamation
CPS	Current Policy Scenario
Critical skills training	The critical skills within these disciplines are mining (general manager, mine manager and mining manager), engineering (engineers and junior engineers), ore reserves (ore reserve management), head of department (geology survey and planning; section geologist/senior geologist; section surveyor/mine surveyor/senior shaft surveyor; section geostatistician/senior geostatistician (geological technician); section planner/senior planner and surveyors/geotechs) and metallurgy (plant manager and senior metallurgist)
CSDP	Central securities depository participant
CSI	Corporate social investment
Cu	Copper
Cyanide Code	International Cyanide Management Code for the Manufacture, Transport and Use of Cyanide in the Production of Gold: aims to promote responsible management of cyanide used in gold mining, to protect human health and to reduce potential for environmental impacts
dB(A)	A-weighted decibel
DEC	Department of Environment and Conservation

Term Definition

Depletion	Decrease in quantity of ore in a deposit or property due to extraction or production
Development	Process of accessing an orebody through shafts or tunnelling in underground mining
DFFE	Department of Forestry, Fisheries and the Environment
DFS	Definitive Feasibility Study
Diesel (100% mineral fuel)	Fuel used for machinery and transport at the operation (100% mineral)
DMRE	Department of Mineral Resources and Energy
DSP	Deferred Share Plan
DWS	Department of Water and Sanitation
EBITDA	Earnings before interest, taxes, depreciation and amortisation as defined in the agreement also excludes unusual items such as impairment, restructuring cost and gains/losses on disposal of property, plant and equipment
ECL	Expected credit loss
EGM	Extraordinary General Meeting
EIS	Environment impact statement
Electricity purchased (MWh)	Electricity purchased from the supplier during the reporting period includes all electricity purchased by source (fossil fuel, nuclear, hydroelectric, wind and solar, among others, but excludes electricity generated by an operation as well as electricity supplied to third parties (such as mine hostels/accommodation where cost is recovered from employees, communities and businesses)
EMP	Environmental management plan
Employment equity	Employment equity is reported as a number and percentage of the total number of historically disadvantaged South Africans employed per band. For historically disadvantaged South Africans we refer to black people (African and Indian males and females) and white women. White males and foreigners (including those naturalised after the Department of Trade and Industry code date on March 1994) are excluded
EMPr	Environmental Management Programme
Energy consumption	Energy use calculated from electricity purchased and diesel and petrol consumed during the reporting period
Energy intensity	An intensity ratio for electricity purchased against raw production materials (tonnes treated, and rock mined)

Term Definition

Environmental incidents

Only category 3-5 environmental incidents are reported. A level 3 incident may result in either mitigation costs of between R250 000 and R500 000 or serious medium-term environmental effects, breaches in legislation and serious adverse media attention. A level 4 incident has a mitigation cost of more than R1 million with the possibility of significant fines or prosecution. A level 5 incident carries mitigation costs exceeding R3 million and a very significant impact on highly valued species, habitat or ecosystem with potential for international condemnation and possible director liability

EPM

Exploration Permit for Minerals

ERM

Enterprise Risk Management

ESG

Environmental, social and governance

ESOP

Employee share ownership plan

EU

European Union

EVP

Employee value proposition

EWT

Endangered Wildlife Fund

Explosives used

Materials delivered to blast rock

EY

Ernst & Young Incorporated

FC

Financial capital

FEC

Foreign exchange forward contract

FIFR

Fatal injury frequency rate: a work-related injury resulting in loss of life, calculated as actual loss of life injuries x 1 million hours worked (calculation for hours throughout Harmony for consistency to assume every person works nine hours per shift: actual shifts worked x 9)

Financial materiality

Issues that internally impact financial performance and a company's ability to create economic value for investors and shareholders

FMoU

Framework Memorandum of Understanding

Form 20-F

Annual report filed with the United States Securities and Exchange Commission in compliance with the listing requirements of the New York Stock Exchange

Fresh water discharge to surface resource

Sum of effluents, used water, and unused water released to surface water with Total Dissolved Solids less than or equal to 1 000 mg/l

FRSC

Financial Reporting Standards Council

Term	Definition
FTSE Russell	The FTSE and Russell indices joined to provide global benchmarking, analytics and data solutions needed for investment decisions
FVTOCI	Fair value through other comprehensive income
FVTPL	Fair value through profit or loss
FY	Financial year
g	Gram
GBV	Gender-based violence
GDP	Global domestic product
GHG	Greenhouse gas
GHG emissions intensity	An intensity ratio for direct (scope 1) and energy indirect (scope 2) GHG emissions against raw production materials (tonnes treated, and rock mined)
GISTM	Global Industry Standard on Tailings Management
Gold produced	Refined gold derived from the mining process, measured in ounces or kilograms in saleable form
Grade	Quantity of gold contained in a unit weight of gold-bearing material, generally expressed in ounces per short ton of ore (oz/t) or gram per metric tonne (g/t)
GRI	Global Reporting Initiative
Ground water	Groundwater is the water found underground in the cracks and spaces in soil, sand and rock
GSSA	Geological Society of South Africa
GWh	Gigawatt hour
ha	Hectare
HAST	HIV/Aids, silicosis and TB
Hazardous to landfill	Hazardous waste generated send to a landfill facility

Term Definition

Hazardous waste generated

Hazardous materials that is potentially dangerous or harmful to human health or the environment. This can include: Mercury-containing waste (e.g. thermometers, switches, fluorescent lighting), Batteries, Cleaning agents, Paints and solvents, Pesticides, Chemical waste, Explosive waste/ash, Polychlorinated biphenyl, Propane cylinders, Caustics/cleaning agents, Electrical and electronic waste that contain lead, mercury, and other dangerous waste eg computer screens, televisions, etc

HC

Human capital

HDP

Historically disadvantaged person: This refers to South African-born black people (African and Indian males and females) and white women. White males and foreigners (including those naturalised after the Department of Trade and Industry code date on March 1994) are excluded

HIV/Aids

Human immunodeficiency virus/Acquired immune deficiency syndrome

Hydraulic oil used

Oils purchased to convey power and to lubricate hydraulic machinery within the operation

Hz

Hertz, being the measurement of the frequency of sound waves

IASB

International Accounting Standards Board (IASB)

IBG

Isolated Blocks of Ground

IBOR

Interbank Offered Rates

IC

Intellectual capital

ICMM

International Council on Mining and Metals

ICT

Information and communications technology

IFRIC

IFRS Interpretations Committee

IFRS

International Financial Reporting Standards

IMIU

International Mining Industry Underwriters

Impact materiality

External impacts that a company's activities have on communities and the environment

Indicated Mineral Resource

Part of a Mineral Resource for which tonnage, densities, shape, physical characteristics, grade and mineral content can be estimated with a reasonable level of confidence. It is based on exploration, sampling and testing information using appropriate techniques from outcrops, trenches, pits, workings and drill holes. The locations are too widely or inappropriately spaced to confirm geological and/or grade continuity but close enough for continuity to be assumed

Term	Definition
Inert waste/construction waste generated	General waste, excluding hazardous waste that emanates from an operation construction activity eg building rubble
Inferred Mineral Resource	Part of a Mineral Resource for which tonnage, grade resource and mineral content can be estimated with a low level of confidence. It is inferred from geological evidence and assumed but not verified geological and/or grade continuity. It is based on information gathered through appropriate techniques from outcrops, trenches, pits, workings and drill holes that may be limited or of uncertain quality and reliability
Interest cover	Earnings before interest and tax divided by finance costs and unwinding of obligations
IOCG	Iron oxide-copper-gold
IPCC	The Intergovernmental Panel on Climate Change
IRMSA	Institute of Risk Management South Africa
ISAE 3000	International Standard on Assurance Engagements
ISO	International Organisation for Standardisation
ISO 14001	International Organisation for Standardisation's environmental management system specification
ISSB	International Sustainability Standards Board
IT	Information technology
ITS	Institute for Technology and Society
JIBAR	Johannesburg Interbank Average Rate
JORC	The Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves
JSE	Johannesburg Stock Exchange
JV	Joint venture
kg	Kilogram
Kina	Papua New Guinean currency



Term Definition

King IV

King Report on Governance for South Africa, 2016

km

Kilometer, a unit of measurement for length in the metric system

KPI

Key performance indicator

Land disturbed and land available for rehabilitation

Total land footprint disturbed less the land footprint used for ongoing or future mining activities where the footprint of disturbed area includes all buildings, roads and mining area that needs to be rehabilitated according to the Environmental Management Programme Report (EMPR); the area rehabilitated meets the required standard of the EMPR, final land use plans and only maintenance and monitoring is needed; and the land available for rehabilitation is the area used for ongoing or future mining activities

lb

Pound, a unit of measurement for weight in the United States customary and British imperial systems

Lime purchased

Lime purchased as part of gold processing

LLFS

Loss-of-life free shifts

LMIK

Local multiple indicator kriging

LoM

Life-of-mine

LTIFR

Lost-time injury frequency rate: a lost-time injury is a work-related injury that calls for medication, treatment, medical checks, reviews and subsequent days off work when injured employees cannot perform their assigned duties on the next scheduled work day or shift – calculated as actual lost-time injuries x 1 000 000/hours worked (calculation for hours throughout Harmony for consistency to assume every person works nine hours: actual shifts worked x 9)

m³

Cubic metre

MBOD

Medical Bureau for Occupational Diseases

MC

Manufactured capital

MCF

Mine call factor

MDC

Mining Development Contract

Measured Mineral Resource

Part of a Mineral Resource for which tonnage, densities, shape, physical characteristics, grade and mineral content can be estimated with a high level of confidence. It is based on detailed and reliable exploration, sampling and testing information gathered through appropriate techniques from outcrops, trenches, pits, workings and drill holes. Locations are spaced closely enough to confirm geological and grade continuity

Mine call factor

The ratio, expressed as a percentage, of the total quantity of recovered and unrecovered mineral product after processing with the amount estimated in the ore based on sampling

Term Definition

Mine community development spend (in South African rand)

Local economic development project spend linked to the licence of each mine categorised in terms of bursary students, bursary graduates, training bridging school, training mining, training engineering, costs related to mine community projects, labour-sending area, projects in community not for mine employees, conversion of hostel into family units, procurement spend related to contractor compliance and black economic empowerment (BEE) procurement and corporate social responsibility

Mineral Reserve

The economically mineable material derived from a Measured and/or Indicated Mineral Resource. It includes diluting and contaminating materials and allows for losses that are expected to occur when the material is mined. Appropriate assessments to a minimum of a prefeasibility study for a project, and a life-of-mine plan for an operation, must have been completed, including consideration of, and modification by, realistically assumed mining, metallurgical, economic, marketing, legal, environmental, social and governmental factors (the modifying factors). Such modifying factors must be disclosed. A Probable Mineral Reserve is the economically mineable material derived from a Measured and/or Indicated Mineral Resource. A Proved Mineral Reserve is the economically mineable material derived from a Measured Mineral Resource. It is estimated with a high level of confidence

Mineral Resource

A concentration or occurrence of material of intrinsic economic interest in/on the earth's crust in such form, quality and quantity that there are reasonable prospects for eventual economic extraction. The location, quantity, grade, geological characteristics and continuity of a Mineral Resource are known, estimated or interpreted from specific geological evidence and knowledge. Mineral Resources are sub-divided, in order of increasing geological confidence, into Inferred, Indicated and Measured categories

Mining Charter

Broad-based socio-economic empowerment charter for the South African mining industry which aims to promote the creation of an industry that reflects the promise of a non-racial South Africa. Mining Charter III was gazetted on 27 September 2018

ML

Mining lease

MI

Megalitre

Mlb

Million pounds

MNA

Monitored Natural Attenuation

MNES

Matters of National Environmental Significance

Mo

Molybdenum

MoA

Memorandum of agreement

MoI

Memorandum of incorporation

MOSH

Mining Industry Occupational Safety and Health

MoU

Memorandum of understanding

Moz

Million ounces

**Term
Definition**

MPRDA
Mineral and Petroleum Resources Development Act

MPRTO
Mineral and Petroleum Resources Titles Office

MSES
Matters of State Environmental Significance

MSR
Minimum shareholding requirement

mSv
Millisievert

Mt
Million tonnes

MtCO₂e
Metric tonne of carbon dioxide equivalent

MW
Megawatt

MWh
Megawatt hour

MWS
Mine Waste Solutions

NC
Natural capital

NDC
Nationally Determined Contribution

NEM
National Electricity Market

NEMA
National Environmental Act

NFD
National First Division

NGER Act
National Greenhouse and Energy Reporting Act

NGOs
Non-governmental organisation

NHI
National Health Insurance

NIHL
Noise-induced hearing loss

Term Definition

NNR

National Nuclear Regulator

NO_x

Nitrous oxides

NPA

National Prosecuting Authority

NPO

Non-profit organisation

NUMSA

National Union of Metalworkers of South Africa

NYSE

New York Stock Exchange

ODIMWA

Occupational Diseases in Mines and Works Act

OECD

Organisation for Economic Cooperation and Development

OEP

Occupational exposed person

OHSAS 18001

Occupational Health and Safety Assessment Series' internationally applied standard for occupational health and safety management systems

OK

Ordinary kriging

Operating margin

Revenue less production costs expressed as a percentage of revenue

Ore mined

Total amount of ore hoisted

oz

Ounces

PACS

Picture archiving and communication system

PGK

Kina, currency of Papua New Guinea

PIC

Public Investment Corporation of South Africa

PM

Particulate matter

PNG

Papua New Guinea

Term Definition

PNGLAS	Papua New Guinea Laboratory Accreditation Services
Potable water from external sources	Total volume of freshwater ($\leq 1\ 000$ mg/l Total Dissolved Solids) purchased from the municipality/Rand Water. This excludes the water supplied to third-party users and villages but includes hostels
PPA	Power Purchase Agreement
PRC	Progressive rehabilitation and closure
Probable Mineral Reserve	Economically mineable part of an Indicated, and in some cases, a Measured Mineral Resource. It includes diluting materials and allowances for losses that may occur when the material is mined. Appropriate assessments and studies have been carried out and include consideration of and modification by realistically assumed mining, metallurgical, economic, marketing, legal, environmental, social and governmental factors. These assessments demonstrate at the time of reporting that extraction could reasonably be justified
Productivity	An expression of labour productivity based on the ratio of grams of gold produced per month to the total number of employees in underground mining operations
Project capital	Capital expenditure to either bring a new operation into production; to materially increase production capacity; or to materially extend the productive life of an asset
Proved Mineral Reserve	Economically mineable part of a Measured Mineral Resource. It includes diluting materials and allowances for losses that may occur when the material is mined. Appropriate assessments and studies have been carried out, and include consideration of and modification by realistically assumed mining, metallurgical, economic, marketing, legal, environmental, social and governmental factors. These assessments demonstrate at the time of reporting that extraction could reasonably be justified
PSL	Premier Soccer League
PV	Photovoltaic
QAQC	Quality assurance and quality control
R	Rand, currency of South Africa
RATF	Risk appetite and tolerance framework
RCF	Revolving credit facility
RCP	Representative Concentration Pathway
REC	Renewable energy credit
Reclamation	In South Africa, reclamation describes the process of reclaiming slimes (tailings) dumps using high-pressure water cannons to form a slurry that is pumped back to metallurgical plants for processing

Term	Definition
RECONNECT	An initiative, launched in collaboration with Teba and based on the Department of Health's Project Ku-Riha, to trace former employees and assist in addressing the backlog in claims for occupational lung disease at the Compensation Commission for Occupational Injuries and Diseases
RGMP	Responsible Gold Mining Principle
ROM	Run-of-mine
RPM	Radiation protection monitor
RPO	Radiation protection officer
SA	South Africa
SAASTA	South African Agency for Science and Technology Advancement
SAGC	South African Geomatics Council
SAICA	The South African Institute of Chartered Accountants
SAIMM	South African Institute of Mining and Metallurgy
SAMREC	South African Code for Reporting Exploration Results, Mineral Resources and Mineral Reserves
SAMVAL	South African Mineral Asset Valuation Code
SANAS	South African National Accreditation System
SANS	South African National Standard
SAPS	South African Police Service
SBT	Science-based target
SBTi	Science Based Targets initiative
Scope 1	Direct GHG emissions include, but are not limited to, the CO ₂ emissions from the fuel consumption which can be caused by the following sources: generation of electricity, physical or chemical processing, transportation of materials, products, waste and employees and fugitive emissions

Term Definition

Scope 2
Indirect GHG emissions include, but are not limited to, the CO₂ emissions from the generation of purchased or acquired electricity, heating, cooling, and steam consumed by an organisation

Scope 3
Other indirect GHG emissions are a consequence of an organisation's activities, but occur from sources not owned or controlled by the organisation. Other indirect (scope 3) GHG emissions include both upstream and downstream emissions

SDG
Sustainable Development Goals. Developed by the United Nations, there are 17 such goals. They came into effect in January 2016 in support of the United Nations' 2030 Agenda which aims to end poverty and inequality and protect the planet ensure that all people enjoy peace and prosperity

SEA
South-east Asia

SEC
Securities and Exchange Commission (United States)

SGS
Superannuation Guarantee Scheme

Silicosis
Silicosis is a long-term lung disease caused by inhaling large amounts of crystalline silica dust, usually over many years. Silica is a substance naturally found in certain types of stone, rock, sand and clay. Working with these materials can create a very fine dust that can be easily inhaled

Slimes recycled
Slime from the slime/tailings dams pumped to the plant to be reprocessed

SMK
Simple macro-kriging

SML
Special Mining Lease

SMME
Small-, medium- and micro-enterprise

SMU
Standard mining units

SO₂
Sulphur oxides

SLP
Social and labour plans aimed at promoting employment and advancing the social and economic welfare of all South Africans while ensuring economic growth and socio-economic development as stipulated in the MPRDA

Sodium cyanide
A chemical used to extract gold from rock

SPPI
Solely payments of principal and interest

SPV
Special purpose entity

SRC
Social and relationship capital

**Term
Definition**

SSP

Shared Socioeconomic Pathway

STS

Standard Threshold Shift

Surface water

Any freshwater that is above ground, such as in rivers, lakes, streams, and wetlands

SVR6

Supplementary Valuation Roll 6

Tailings/TSF

Tailings are finely ground rock of low residual value from which valuable minerals have been extracted. Discarded tailings are deposited and stored in tailings storage facilities (TSF)

TB

Tuberculosis

TCFD

Task Force on Climate-related Financial Disclosures. Established in 2015 by the Financial Stability Board (FSB), to develop voluntary, consistent climate-related financial risk disclosures for use by companies to provide information to investors, banks, lenders and insurers

TEC

Total employee costed

Thibakotsi

Harmony's safety campaign – implemented as part of its comprehensive integrated safety risk management system and developed in terms of an exercise to benchmark best practice in the industry and an external audit of the company's safety performance and practice (a risk-based approach to safeguarding lives and saving mines, encompassing safety, health, the environment, communities and social risks, legal and regulatory risks, among others)

TIP

Total incentive plan

TNFD

Taskforce for Nature-related Disclosures

Tonne/ton (t)

Metric = 1 000 kilograms/Imperial = 2 000 pounds (1 016 kilograms)

TSR

Total shareholder return

U₃O₈

Triuranium octoxide, is a compound of uranium. It is present as an olive green to black, odorless solid. It is one of the more popular forms of yellowcake and is shipped between mills and refineries in this form

UASA

United Association of South Africa

UN

United Nations

UNFCCC

United Nations Framework Convention on Climate Change

UNGC

United Nations Global Compact



Term	Definition
URL	Universal Resources
US	United States of America
US\$	United States dollar
VAB	Valuation Appeal Board
VCR	Ventersdorp Contact Reef
VWAP	Volume-weighted average price
WaSH	Water, sanitation and hygiene
Waste	Discarded material with insufficient mineralisation for future treatment
Waste rock recycled	Waste rock from the waste dumps sent to the plant to be processed
Water intensity	An intensity ratio for water for primary activity against raw production materials (tonnes treated)
Water recycled	The total amount of process water that the operations received/recycled within water storage dams for use in operational processes. For a shaft, this can be measured as the amount of water sent up the shaft for cooling. For a plant, this can be the amount of water received from return water dams, shaft overflow, sewerage treatment, etc
Water use for primary activity	Total volume of water that is drawn into the boundaries of the operation from all sources (includes potable and non-potable sources). This excludes internally recycled water, water discharged outside the boundary of the operation, supply to third party users and villages, however hostels are included
Water used	Water used measures water used by an operation such that it is no longer available for use by the ecosystem or local community. Water used = Total water withdrawn – total water discharged
WDP	Water disclosure project
Working Group	The Occupational Lung Disease Gold Working Group
Yield	Amount of valuable mineral or metal recovered from each unit mass of ore expressed as ounces per short ton or grams per metric tonne
YoY	Year-on-year
ZAR	South African Rand
ZARONIA	South African Rand Overnight Index Average

