



# New Cobar Complex Project, State Significant Development (SSD10419) Environmental Impact Assessment

Prepared for Peak Gold Mines  
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## Part E References, abbreviations and acronyms

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# 26 References

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# 27 Abbreviations

Term	Description
µm	Micrometres
AADT	Annual average daily traffic
ABN	Australian Business Number
ACHA	Aboriginal cultural heritage assessment
ACN	Australian Company Number
ACHAR	an Aboriginal Cultural Heritage Assessment Report
ACHMP	Aboriginal Cultural Heritage Management Plan
AEC	AEC Group Pty Ltd
AERMOD	AMS/US-EPA regulatory model
AEMR	Annual environmental management report
AEP	Annual exceedance probability
AGV	Air guideline value
AHD	Australian Height Datum
AHIMS	Aboriginal Heritage Information Management System
AHIP	Aboriginal Heritage Impact Permit
AIP	Aquifer Interference Policy
ALM	Adult lead methodology
AMD	Acid mine drainage
ANZECC	Australian and New Zealand Environment and Conservation
APZ	Asset protection zone
AQIA	air quality impact assessment
ARMCANZ	Agriculture and Resource Management Council of Australia and New Zealand
Aurelia	Aurelia Metals Limited
AWS	automatic weather station
BAM	beta attenuation monitor
BC Act	<i>Biodiversity Conservation Act 2016</i>
BCR	Benefit cost ratio
BDAR	Biodiversity Development Assessment Report
BoM	Bureau of Meteorology
BPb	Blood lead
°C	Degrees Celcius
c.	Circa
CAF	Cemented aggregate fill
CBA	Cost benefit analysis

Term	Description
CBD	Central business district
CCC	Community Consultation Committee
CHL	Commonwealth Heritage List
CML	Consolidated mining lease
CSA	Cornish Scottish Australian
CSC	Cobar Shire Council
CSIRO	Commonwealth Scientific and Industrial Research Organisation
DA	Development application
DAWE	Department of Agriculture, Water and the Environment
dB	Decibel
dBA	A-weighted decibel
DECC	Department of Environment and Climate Change
DECCW	Department of Environment Climate Change and Water, now Heritage NSW
DPIE	Department of Planning, Industry and Environment
EC	Electrical conductivity
EIS	Environmental Impact Statement
EMM	EMM Consulting Pty Ltd
EPA	Environmental Protection Authority
EP&A Act	<i>Environment Planning and Assessment Act 1979</i>
EP&A Regulation	Environmental Planning and Assessment Regulation 2000
EPI	Environmental planning instrument
EPL	Environmental Protection Licence
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999 (Cth)</i>
ESCP	Erosion and Sediment Control Plan
ESD	Ecologically sustainable development
FE	Finite element
FM Act	<i>Fisheries Management Act 1994</i>
FTE	Full time equivalents
FWR Plan	Far West Regional Plan
GCMP	Ground Control Management Plan
GCS	Great Cobar Slate
GIA	Groundwater impact assessment
GDE	groundwater dependent ecosystem
GHG	greenhouse gas
GL	Gigalitre
GRP	Gross regional product

Term	Description
GSP	Gross state product
GVA	Gross value added
ha	Hectare
Heritage Act	<i>Heritage Act 1977</i>
HEVAE	High Ecological Value Aquatic Ecosystems
HHMP	Historical Heritage Management Plan
HHRA	Human health risk assessment
HRPSA	hazard, risk and public safety assessment
HQ	Hazard quotient
HV	Heavy vehicle
HVAS	high-volume air sampler
IEUBK	Integrated Exposure Uptake Biokinetic Model
IPC	Independent Planning Commission
IO	Input-Output modelling
KL	Kilolitre
km	Kilometre
km/h	Kilometres per hour
km <sup>2</sup>	Square kilometres
kPa	kilopascal
kV	Kilovolt
L	Litre
L/s	Litres per second
LEA	Local effects analysis
LEP	Local Environmental Plan
LFA	Landscape Function Analysis
LGA	Local government area
LOS	Level of service
LSC	Land and Soil Capability
LV	Light vehicle
LVIA	Landscape and visual impact assessment
m	Metre
m <sup>2</sup>	Square metres
M	Million
m <sup>3</sup>	Cubic metres
mbgl	Metres below ground level
MIC	Maximum instantaneous charge
Mining Act	<i>Mining Act 1992</i>

Term	Description
ML	Megalitres
ML	Mining leases
mm	millimetre
MNES	matters of national environmental significance
MoP	Mine operations plan
MPL	Mining purposes lease
m/s	Metres per second
Mtpa	Million tonnes per annum
NAF	Non-acid forming
NGAF	National Greenhouse Accounts Factors
NPfI	Noise Policy for Industry
NPW Act	<i>National Parks and Wildlife Act 1974</i>
NPV	Net present value
NRAR	Natural Resources Access Regulator
NSW	New South Wales
NVIA	Noise and vibration impact assessment
OEH	Office of Environment and Heritage, now DPIE
Oz	Ounces
PAF	Potentially acid forming
Pb	Lead
PCT	Plant Community Type
PGM	Peak Gold Mines Pty Ltd
PM <sub>10</sub>	particulate matter less than 10 µm in aerodynamic diameter
PM <sub>2.5</sub>	particulate matter less than 2.5 µm in aerodynamic diameter
PNTL	Project noise trigger levels
PPV	Peak particle velocity
POE Act	<i>Protection of the Environment Administration Act 1991</i>
POEO Act	<i>Protection of the Environment Operations Act 1997</i>
PV	Present value
RAP	Registered Aboriginal Party
REF	Review of Environmental Factors
RF Act	<i>Rural Fires Act 1997</i>
RMS	Roads and Maritime Service
RNP	Road Noise Policy
ROM	Run-of-mine
RTA	Roads and Transport Authority (now TfNSW)
RTS	Response to Submissions

Term	Description
SEARs	Secretary's Environmental Assessment Requirements
SEPP	State Environmental Planning Policies
SHI	State Heritage Inventory
SHR	State Heritage Register
SIDRA	Signalised and unsignalized intersection design and research aid
SLR	SLR Consulting Australia Pty Ltd
SoEE	Statement of Environmental Effects
SoHI	Statement of heritage impact
SRLUP	Strategic Regional Land Use Policy
SSD	State Significant Development
SRD SEPP	State Environmental Planning Policy (State and Regional Development) 2011
SVC	Soil verification certificate
t	Tonnes
TAPM	The Air Pollution Model
TARP	Trigger Action Response Plan
TDI	Tolerable daily intake
TDS	Total dissolved solids
TfNSW	Transport for New South Wales (formerly RTA)
TIA	Traffic impact assessment
TMP	Traffic management plan
tpa	Tonnes per annum
TRF	Toxicity reference value
TSF	Tailings storage facility
TSP	total suspended particulates
TSS	Total suspended solids
WAL	Water access licence
WM Act	<i>Water Management Act 2000</i>
WMP	Water management plan
WQO	Water quality objectives
WRE	Waste rock emplacement
WRMP	Waste rock management plan
WSP	water sharing plans
WWI	World War I
WWII	World War II
VLAMP	Voluntary Land Acquisition and Mitigation Policy
XRF	x-ray fluorescence

# 28 Glossary

Term	Description
AERMET	Meteorological processor (model version v19191) for the AERMOD Dispersion Model
Amenity noise level	The amenity noise levels relate to the overall level of industrial noise subject to land zoning or use.
Aquifer	rock or sediment in a formation, group of formations, or part of a formation that is saturated and sufficiently permeable to transmit economic quantities of water.
A-weighting	There are several different weightings utilised for describing noise, the most common being the 'A-weighting'. This attempts to closely approximate the frequency response of the human ear.
Day period	Monday – Saturday: 7 am to 6 pm, on Sundays and Public Holidays: 8 am to 6 pm.
dB	Noise is measured in the unit called the decibel (dB).
Drawdown	a lowering of the water table in an unconfined aquifer or the pressure surface of a confined aquifer caused by pumping of groundwater from bores and wells.
Evening period	Monday – Saturday: 6 pm to 10 pm, on Sundays and Public Holidays: 6 pm to 10 pm.
Intrusiveness noise level	The intrusiveness noise level refers to noise that intrudes above the background level by more than 5 dB. The intrusiveness noise level is described in detail in this report.
LA1,1min	The 'A-weighted' noise level exceeded for 1% of the specified time period of 1 minute.
LA10	The 'A-weighted' noise level exceeded for 10% of the time. It is approximately equivalent to the average of maximum noise levels.
LA90	Commonly referred to as the background noise level. The 'A-weighted' noise level exceeded 90% of the time.
LAeq	The energy average noise from a source. This is the equivalent continuous 'A-weighted' sound pressure level over a given period. The LAeq,15min descriptor refers to an LAeq noise level measured over a 15-minute period.
LAmin	The minimum 'A-weighted' noise level received during a measuring interval.
LAmax	The maximum root mean squared 'A-weighted' sound pressure level (or maximum noise level) received during a measuring interval.
Loss of service A	Average traffic delay of less than 14 seconds between baseline and post construction predicted traffic volumes
Night period	Monday – Saturday: 10 pm to 7 am, on Sundays and Public Holidays: 10 pm to 8 am.
NPfI	NSW Noise Policy for Industry (EPA 2017)
PNTL	The project noise trigger levels (PNTLs) are targets for a particular industrial noise source or industry. The PNTLs are the lower of either the project intrusive noise level or project amenity noise level.
RBL	The Rating Background Level (RBL) is an overall single value background level representing each assessment period over the whole monitoring period.
RNP	NSW Road Noise Policy (DECCW 2011)
Sound power level (Lw)	This is a measure of the total power radiated by a source. The sound power level of a source is a fundamental property of the source and is independent of the surrounding environment.
Temperature inversion	A positive atmospheric temperature gradient where atmospheric temperature increases with altitude.
TSF lift	Raising the height of the containment bunds of the tailings storage facility to increase the volume of post processing tailings which may be stored.

