



Acronyms



Acronyms

The following acronyms or abbreviations have been used in this EA.

HVAU	Hunter Valley Access Undertaking
µg	Microgram
µS/cm	Micro Siemens per centimetre
ABL	The assessment background level (ABL) is defined in the INP as a single figure background level for each assessment period (day, evening and night). It is the tenth percentile of the measured L90 statistical noise levels
ABS	Australian Bureau of Statistics
AC-OOP	Mine Area A and C out-of-pit (emplacement)
ACCC	Australian Competition and Consumer Commission
ACCESS	Bureau of Meteorology numerical weather prediction system
ACLEP	Australian Collaborative Land Evaluation Program
AEISG	Australian Explosives Industry Safety Group
AERMOD	United States Environmental Protection Agency regulatory dispersion model
Ag	Silver
AGO	Australian Greenhouse Office
AHD	Australian Height Datum
AHIMS	Aboriginal Heritage Information Management System
AHMP	Aboriginal heritage management plan
Al	Aluminium
AMD	Acid and metalliferous mine drainage
ANC	Acid neutralising capacity
ANZECC	Australian and New Zealand Environment Conservation Council
APZ	Asset protection zones
AQMS	Air quality management system
ARI	Average recurrence interval
ARMCANZ	Agriculture and Resource Management Council of Australia and New Zealand
ARTC	Australian Rail Track Corporation Ltd
As	Arsenic
AS 1158	Australian Standard – Lighting for Roads and Public Spaces
AS 4282	Australian Standard – Control of Obtrusive Effects of Outdoor Lighting
AWBM	Australian Water Balance Model
B	Boron
BCA	Benefit cost analysis
BGL	Below ground level
BL	Baseline load
B-OOP E	Mine Area B out-of-pit emplacement (east of Laheys Creek)
B-OOP W	Mine Area B out-of-pit emplacement (west of Laheys Creek)
BoM	Bureau of Meteorology
B&N Act	<i>Brigalow and Nandewar Community Conservation Area Act 2005</i>
Ca	Calcium
CaCO ₃	Calcium carbonate
CCD	Census Collection District
Cd	Cadmium

CEC	Cation exchange capacity
CH ₄	Methane
CHC	Cobbora Holding Company Pty Limited
CHPP	Coal handling and preparation plant
Cl	Chloride
CL Act	<i>Crown Lands Act 1989</i>
CMA	Catchment Management Authority
CMH&S Act	<i>Coal Mine Health and Safety Act 2002</i>
CMP	Conservation management plan
CNVMP	Construction noise and vibration management plan
Co	Cobalt
CO	Carbon monoxide
CONCAWE	Conservation of Clean Air and Water in Europe
CORTN	Calculation of Road Traffic Noise
CO ₂	Carbon dioxide
CO ₂ -e	CO ₂ -equivalent
Cr	Chromium
CRCCCH/LWRRDC	Cooperative Research Centre for Catchment Hydrology Land and Water Resources Research and Development Corporation
Cu	Copper
CWCMA	Central West Catchment Management Authority
dB(A)	Noise is measured in units called decibels (dB). There are several scales for describing noise, the most common being the 'A-weighted' scale. This attempts to closely approximate the frequency response of the human ear
DCCEE	Commonwealth Department of Climate Change and Energy Efficiency
DEC	NSW Department of Education and Communities (formerly Department of Education and Training)
DEC	NSW Department of Environment and Conservation (now Office of Environment and Heritage)
DECC	NSW Department of Environment and Climate Change (now Office of Environment and Heritage)
DECCW	NSW Department of Environment Climate Change and Water (now Office of Environment and Heritage)
DEUS	NSW Department of Energy, Utility and Sustainability
DEWR	NSW Department of the Environment and Water Resources
DGRs	Director General's environmental assessment requirements
DIPNR	NSW Department of Infrastructure, Planning and Natural Resources
DLALC	Dubbo Local Aboriginal Land Council
DLWC	NSW Department of Land and Water Conservation
DO	Dissolved oxygen
DoP	NSW Department of Planning (now Department of Planning and Infrastructure)
DoTARS	NSW Department of Transport and Regional Services
DP&I	NSW Department of Planning and Infrastructure (formerly Department of Planning)
DPI	NSW Department of Primary Industries (now Department of Trade and Investment, Regional Infrastructure and Services)
DRET	Commonwealth Department of Resources, Energy and Tourism
DTIRIS	NSW Department of Trade and Investment Regional Infrastructure Services
EA	Environmental assessment
EAT	Emerson aggregate test

EEC	Endangered ecological community
EC	Electrical conductivity
EL	Exploration license
EMM	EMGA Mitchell McLennan Pty Limited
EMS	Environmental management system
EPBC Act	<i>Commonwealth Environment Protection and Biodiversity Conservation Act 1999</i>
EP&A Act	<i>NSW Environmental Planning and Assessment Act 1979</i>
EPA	NSW Environment Protection Authority
ESCP	Erosion and sediment control plan
EPI	Environmental planning instrument
EPL	Environment protection license
ESD	Ecologically sustainable development
ESP	Exchangeable sodium percentage
EV	Environmental value
FAQs	Frequently asked questions
Fe	Iron
FeCO ₃	Siderite
FM Act	<i>Fisheries Management Act 1993</i>
GAB	Great Artesian Basin
GAC	Gallangabang Aboriginal Corporation
GDE	Groundwater dependent ecosystem
GHG	Greenhouse gas
GL	Giga litre
GP	General practitioner
GPS	Global positioning system
GSSE	GSS Environmental Pty Limited
GWh	Gigawatt hours
H&S	Health and safety
ha	Hectares
Hg	Mercury
HVAU	Hunter Valley Coal Network Access Undertaking
ICNG	Interim Construction Noise Guideline
H ₂ SO ₄	Sulfuric acid
IGANRIP	Interim Guideline for Assessment of Noise from Rail Infrastructure Projects
IMO	International Maritime Organisation
INP	Industrial Noise Policy
IPCC	Intergovernmental Panel on Climate Change
ITSR	Independent Transport Safety Regulator (post-2009)
ITSRR	Independent Transport Safety and Reliability Regulator (pre-2009)
JORC	Australasian Joint Ore Reserves Committee
K	Potassium
km	Kilometre
km/h	Kilometres per hour
kV	Kilovolt
L ₁	The noise level exceeded for 1% of the time.
L ₁₀	The noise level which is exceeded 10% of the time. It is roughly equivalent to the average maximum noise level

L ₉₀	The noise level that is exceeded 90% of the time. Commonly referred to as the background noise level
LCSC	NSW Level Crossing Safety Council
L _{eq}	The energy average noise from a source. This is the equivalent continuous sound pressure level over a given period. The Leq (15min) descriptor refers to an Leq noise level measured over a 15-minute period
LGA	Local government area
L _{max}	The maximum sound pressure level received during a measuring interval
LEP	Local Environmental Plan
LMP	Lighting management plan
LPMA	Land Property and Management Authority
m	Metre
M	Million (1,000,000)
m/s	Metres per second
m ²	Square metre
m ³	Cubic metre
m ³ /s	Cubic metres per second
MAC	Mingaan Aboriginal Corporation
Mbcm	Million bank cubic metres
Mbgl	Metres below ground level
MCMPR	Ministerial Council on Mineral and Petroleum Resources
MDB	Murray Darling Basin
MDBA	Murray-Darling Basin Authority
MDBC	Murray Darling Basin Commission
MET	Meteorological monitoring station
mg/L	Milligrams per litre
MGATSIC	Murong Gialinga Aboriginal & Torres Strait Islander Corporation
MIA	Mine infrastructure area
ML	Megalitre
MIC	Maximum instantaneous charge
mL	Millilitre
ML/a	Mega litres per annum
ML/d	Mega litres per day
MLALC	Mudgee Local Aboriginal Land Council
mm	Millimetre
Mn	Manganese
Mo	Molybdenum
MOU	Memorandum of understanding
MR	Main Road
Mt	Million tonnes
Mtpa	Million tonnes per annum
MVA	Megavolt amperes
MW	Megawatts
MWR	Mid Western Regional (Council)
N ₂ O	Nitrous oxide
N	Total nitrogen
Na	Sodium
NAF	Non acid-forming

NAG	Net acid generation
NAPP	Net acid production potential
NBNCo	National Broadband Network Company
NATA	National Association of Testing Authorities
NEM	National Electricity Market
NEPC	National Environmental Protection Council
NEPM	National Environment Protection Measures
NEWCO	North-East Wiradjuri Corporation Ltd
NG	<i>National Greenhouse and Energy Reporting Act 2007</i>
NGERS	National Greenhouse and Energy Reporting System
NH ₃	Ammonia
Ni	Nickel
NIOSH	National Institute for Occupational Safety and Health
NMP	Noise management plan
NO ₂	Nitrite
NO ₃	Nitrate
NOW	NSW Office of Water
NP	National Park
NPI	National Pollutant Inventory
NPV	Net present value
NPWS	NSW National Parks and Wildlife Service
NSW	New South Wales
NSW-DEUS	The former NSW Department of Energy, Utilities and Sustainability
NSWSC	NSW Scientific Committee
NTU	Nephelometric turbidity unit
NVMP	Noise and vibration management plan
OEH	NSW Office of Environment and Heritage
OL	Operational load
PAA	Project application area
PAF	Potentially acid-forming
PAF-LC	Potentially acid-forming low capacity
PCG	Planning Coordination Group
PEA	Preliminary environmental assessment
Pb	Lead
pH	Unit of acidity/alkalinity
PHA	Preliminary hazard assessment
PM ₁₀	Particulate matter less than 10 microns in aerodynamic diameter
PM _{2.5}	Particulate matter less than 2.5 microns in aerodynamic diameter
pphm	Parts per hundred million
POEO Act	<i>NSW Protection of the Environment Operations Act 1997</i>
PBP	Planning for Bushfire Protection
PSNL	The project-specific noise levels (PSNLS) are criteria for a particular industrial noise source or industry. The PSNL is the lowest of either the intrusive criteria or amenity criteria
RAP	Registered Aboriginal Party
RBL	The rating background level (RBL) is an overall single value background level representing each assessment period over the whole monitoring period. The RBL is used to determine the intrusiveness criteria for noise assessment purposes and is the

	median of the average background levels.
RFDS	Royal Flying Doctor Service
RFS	Rural Fire Service
RL	Reduced level
RMS	NSW Roads and Maritime Services
RNP	Road Noise Policy
ROM	Run of mine
RR	Regional Road
RTA	NSW Roads and Traffic Authority (now Roads and Maritime Services)
S	Sulfur
SCA	State Conservation Area
Se	Selenium
SF ₆	Sulfur hexafluoride
SEPP	State Environmental Planning Policy
SEWPaC	Commonwealth Department of Sustainability, Environment, Water, Population and Communities
SH	State Highway
SIDRA	Signalised Intersection Design and Research Aid
SO ₂	Sulfur dioxide
Sound power level (L _w)	A measure of the total power radiated by a source. The sound power of a source is a fundamental property of the source and is independent of the surrounding environment
SRLUP	Strategic Regional Land Use Plan
SSD	State Significant Development
SSI	State Significant Infrastructure
SWMP	Site water management plan
TAFE	Technical and Further Education
TAL	Tonnes axle load limit for a section of rail track
TDS	Total dissolved solids
TEC	Threatened ecological community
TEM	Transient electromagnetic
TEOM	Tapered element oscillating microbalance
TFNSW	Transport for NSW
the Project	Cobbora Coal Project
TOC	Total organic carbon
TSC Act	<i>NSW Threatened Species Conservation Act 1995</i>
TSP	Total suspended particulate
TSS	Total suspended solids
µm	micrometres
UC NAF	Uncertain to non acid-forming
UC PAF	Uncertain to potentially acid-forming
UJV	Unincorporated joint venture
USEPA	United States Environmental Protection Agency
V	Vanadium
vkt	Vehicle kilometres travelled
VOC	Volatile organic compound
VPA	Voluntary Planning Agreement
VP	View points

WAL	Water Access License
WBNM	Watershed Bounded Network Model
WDCP1	Development Control Plan No.1 – Shire Lighting Control to Protect Siding Spring Observatory
WDD	Wirrimbah Direct Descendants
WM Act	<i>NSW Water Management Act 2000</i>
WNTCAC	Warrabinga Native Title Claimants Aboriginal Corporation
WQO	Water quality objective
WSP	Water Sharing Plans
WVW	Wellington Valley Wiradjuri Aboriginal Corporation
Zn	Zinc

