Development Consent

Section 89E of the Environmental Planning & Assessment Act 1979

As delegate of the Minister for Planning, the Planning Assessment Commission of NSW approves the development application referred to in Schedule 1, subject to the conditions in Schedules 2 to 6.

These conditions are required to:

- prevent, minimise, and/or offset adverse environmental impacts;
- require regular monitoring and reporting; and
- provide for the ongoing environmental management of the development.

Ms Robyn Kruk AM Member of the Commission

Dr Maurice Evans Member of the Commission

Mr David Johnson Member of the Commission

Sydney	2016
	SCHEDULE 1
Application Number:	SSD_5581
Applicant:	Centennial Airly Pty Limited
Consent Authority:	Minister for Planning
Land:	See Appendix 1
Development:	Airly Mine Extension Project

August 2018 MOD 1 in red type July 2019 MOD 2 in blue type

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Adaptive management

Annual review Applicant

ANZECC guidelines

BCD

BCA Built features

CCC Cliff

Cliff Line Zone and Zone of First
Workings
CHPP
Conditions of this consent
Construction

Council Date of commencement

Day

Department Development DoEE

DSC EEC

EIS

Environmental consequences

EPA EP&A Act EP&A Regulation EPBC Act EPL

DEFINITIONS

Adaptive management includes monitoring subsidence effects and impacts
and, based on the results, modifying the mining plan as mining proceeds to
ensure that the effects, impacts and/or associated environmental
consequences remain within predicted and/or designated ranges and in
compliance with the conditions of this consent
The review required by condition 13 of Schedule 6
Centennial Airly Pty Limited, or any other person/s who rely on this consent to
carry out the development
Australian and New Zealand guidelines for fresh and marine water quality
(2000), or their latest version
Biodiversity and Conservation Division, within the Department
Building Code of Australia
Includes any building or work erected or constructed on land, and includes
dwellings and infrastructure such as any formed road, street, path, walk or
driveway; pipeline; water, sewer, telephone, gas or other service main
Community Consultative Committee
Continuous rock face, including overhangs, having a minimum length of 20
metres, a minimum height of 10 metres and a minimum slope of 2 to 1 (>
63.4°)
The area of proposed mining shown in Figure 2 in Appendix 3, as may be
modified by an approved Extraction Plan
Coal Handling and Preparation Plant
Conditions contained in Schedules 2 to 6 inclusive
The demolition of buildings or works, carrying out of works and erection of
buildings covered by this consent
Lithgow City Council
The date notified to the Department by the Applicant under condition 9 of
Schedule 2
The period from 7am to 6pm on Monday to Saturday, and 8am to 6pm on
Sundays and Public Holidays
Department of Planning, Industry and Environment
The development described in the EIS
The Australian Government Department of the Environment and Energy,
which administers the EPBC Act
Dams Safety Committee
Endangered ecological community, as defined under the <i>Threatened Species</i>
Conservation Act 1995
The environmental impact statement titled Airly Mine Extension Project, dated
September 2014 and associated response to submissions titled Airly Mine
Extension Project, dated February 2015, including the supplementary
information comprising water licensing requirements letter dated 6 March
2015, noise assessment letter dated 10 March 2015, MSEC peer review
report dated 18 March 2015, revised economic impact assessment dated
March 2015, ecotoxicology assessment dated March 2015, supplementary
letters and attachments dated 15 April 2015, 8 May 2015 and 18 June 2015,
and Centennial's responses to the IPRP's Report in letters dated 8 July and
19 July 2016, as modified by:
MOD 1 - Airly Mine SSD_5581 MOD 1 – Statement of Environmental
Effects including the associated Response to Submissions (dated 21
June 2018); and
MOD 2 - Statement of Environmental Effects - Airly Mine Extension
Project State Significant Development 5581 - Modification 2 (dated April
2019) including the associated Response to Submissions (dated 13 June
2019), and additional information provided by the Applicant on 24 June
2019), and additional information provided by the Applicant of 24 June 2019.
The environmental consequences of subsidence impacts, including damage
to built features; loss of surface water flows to the subsurface; loss of standing
pools in watercourses; adverse water quality impacts; cliff falls; rock falls;
damage to Aboriginal heritage sites; impacts on terrestrial or aquatic ecology;
and ponding
Environment Protection Authority, or its successor
Environmental Planning and Assessment Act 1979
Environmental Planning and Assessment Regulation 2000
Environment Protection and Biodiversity Conservation Act 1999
Environment Protection Licence issued under the POEO Act

Evenina The period from 6pm to 10pm Exploration activities Prospecting Operations, as defined under the *Mining Act* 1992 Feasible Feasible relates to engineering considerations and what is practical to build or implement First workings The extraction of coal by bord and pillar mining methods and from main headings and the like (but not including pillar splitting or quartering) GDE Groundwater Dependent Ecosystems An item as defined under the Heritage Act 1977 and/or an Aboriginal Object or Heritage item Aboriginal Place as defined under the National Parks and Wildlife Act 1974 Heritage Division Heritage Division, within the NSW Department of Premier and Cabinet Incident A set of circumstances that: causes or threatens to cause material harm to the environment; and/or breaches or exceeds the limits or performance measures/criteria in this consent IEP Independent Expert Panel to be established and operated by the Department, which must be comprised of suitably qualified, experienced and independent experts with expertise in the assessment, monitoring and management of subsidence-related impacts on cliff lines, pagodas and steep slopes, to the satisfaction of the Secretary IPRP's Report Report of the Independent Review Panel established to review and report on accuracy and reliability of mine subsidence impacts on sensitive features across the Airly mine extension project application area, dated 1 July 2016 As defined in the EP&A Act, except for where the term is used in the noise Land and air quality conditions in Schedule 4 of this consent where it is defined to mean the whole of a lot, or contiguous lots owned by the same landowner, in a current plan registered at the Land Titles Office at the date of this consent Material harm to the environment Actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial Includes the extraction, processing, handling, storage and transportation of Mining operations coal carried out on the site Minister for Planning and Public Spaces, or delegate **Minister** A continuous rock face, including overhangs, which has a: Minor cliff minimum length of 20 metres and a height between 5 metres and 10 metres; and minimum slope of 2 to 1 (> 63.4°) Activities associated with reducing the impacts of the development Mitigation Nealiaible Small and unimportant, such as to be not worth considering New Hartley interaction zone The area of proposed mining which may interact with the former workings of the New Hartley mine complex identified as the New Hartley Shale mine potential interaction zone in Figure 2 in Appendix 3, as may be modified by an approved Extraction Plan Night The period from 10pm to 7am on Monday to Saturday, and 10pm to 8am on Sundays and Public Holidays NPWS National Parks and Wildlife Service POEO Act Protection of the Environment Operations Act 1997 Pagodas Conical or sub-conical rock formations, whether smooth, platy, stepped or terraced, generally between 5 and 20 metres in height and that are not cliffs or minor cliffs The area of proposed mining shown in Figure 2 in Appendix 3, as may be Panel and Pillar Mining Zone modified by an approved Extraction Plan Partial Pillar Extraction Zone The area of proposed mining shown in Figure 2 in Appendix 3, as may be modified by an approved Extraction Plan Land that is not owned by a public agency or a mining or petroleum company Privately-owned land (or its subsidiary) Linear and other infrastructure that provides services to the general public, Public infrastructure such as roads, railways, water supply, drainage, sewerage, gas supply, electricity, telephone, telecommunications, etc Reasonable relates to the application of judgement in arriving at a decision, Reasonable taking into account: mitigation benefits, costs of mitigation versus benefits provided, community views and the nature and extent of potential improvements Reasonable costs The costs agreed between the Department and the Applicant for obtaining independent experts to review the adequacy of any aspects of the extraction plan, or where such costs cannot be agreed, the costs determined by a dispute resolution process **Resources Regulator** Resources Regulator, within the Department

Rehabilitation	The restoration of land disturbed by the development to a good condition, to ensure it is safe, stable and non-polluting
Remediation	Activities associated with partially or fully repairing or rehabilitating the impacts of the development or controlling the environmental consequences of this impact
ROM	Run-of-mine
RMS	Roads and Maritime Services
Safe, serviceable & repairable	Safe means no danger to users who are present, serviceable means available for its intended use, and repairable means damaged components can be repaired economically
Second workings	The extraction of coal by pillar extraction methods (including panel and pillar mining, single and double-sided lifting, and pillar splitting and quartering) except where remnant pillars are designed to be long-term stable and non-subsiding (ie leading to < 20 mm subsidence at the surface)
Secretary	Secretary of the Department, or any person authorised to act on their behalf
Site	All land to which the development application applies as listed in Appendix 1 and shown in Appendix 2
Steep slope	An area of land having a gradient between 1 in 3 (33% or 18.3°) and 2 in 1 (200% or 63.4°)
Subsidence	The totality of subsidence effects, subsidence impacts and environmental consequences of subsidence impacts
Subsidence effects	Deformation of the ground mass due to mining, including all mining induced ground movements, such as vertical and horizontal displacement, tilt, strain and curvature
Subsidence impacts	Physical changes to the ground and its surface caused by subsidence effects, including tensile and shear cracking of the rock mass, localised buckling of strata caused by valley closure and upsidence and surface depression or troughs.
TSC Act	Threatened Species Conservation Act 1995
Water Division	Water Division, with the Department

SCHEDULE 2 ADMINISTRATIVE CONDITIONS

OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT

1. In addition to meeting the specific performance measures and criteria established under this consent, the Applicant must implement all reasonable and feasible measures to prevent and/or minimise any harm to the environment that may result from the construction, operation, or rehabilitation of the development.

TERMS OF CONSENT

- 2. The Applicant must carry out the development
 - (a) generally in accordance with the EIS and the Mining schedule (see Figure 3 in Appendix 2); and
 (b) in accordance with the IPRP's Report and the conditions of this consent.

Note: The layout of the development is shown in Appendices 2, 3 and 10.

- 3. If there is any inconsistency between the documents in condition 2(a) above, the most recent document shall prevail to the extent of the inconsistency. However, the conditions of this consent shall prevail to the extent of any inconsistency.
- 4. The Applicant must comply with any reasonable requirement/s of the Secretary arising from the Department's assessment of:
 - (a) any strategies, plans, programs, reviews, audits, reports or correspondence that are submitted in accordance with this consent (including any stages of these documents);
 - (b) any reviews, reports or audits undertaken or commissioned by the Department regarding compliance with this consent; and
 - (c) the implementation of any actions or measures contained in these documents.

LIMITS ON CONSENT

Mining Operations

5. The Applicant may carry out mining operations on the site for a period of 20 years from the date of commencement.

Note: Under this consent, the Applicant is required to rehabilitate the site and perform additional undertakings to the satisfaction of the Secretary and the Resources Regulator. Consequently, this consent will continue to apply in all other respects other than the right to conduct mining operations until the rehabilitation of the site and these additional undertakings have been carried out satisfactorily.

Coal Extraction

6. The Applicant must not extract more than 1.8 million tonnes of ROM coal from the site in any calendar year.

Hours of Operation

7. The Applicant may undertake mining operations 24 hours a day, 7 days a week.

Rail Movements

- 8. The Applicant must ensure that:
 - (a) all product coal is transported from the site by rail;
 - (b) movement of laden coal trains and water trains is restricted to:
 - (i.) no more than an average of 2 trains leaving the site per day over any calendar year; and
 - (ii.) no more than 5 trains leaving the site on any day; and
 - (c) no more than one water train is received from Charbon Colliery on any day.

Note: The rail transfer route for the water train is shown in Figure 13 in Appendix 12.

NOTIFICATION OF COMMENCEMENT

9. Prior to commencing any development under this consent, the Applicant must notify the Department in writing of the date on which it will commence the development permitted under this consent.

SURRENDER OF EXISTING DEVELOPMENT CONSENTS

10. Within 12 months of the date of commencement, unless the Secretary agrees otherwise, the Applicant must surrender the existing development consent DA162/91 (as modified) in accordance with clause 97(1) of the EP&A Regulation, to the satisfaction of the Secretary.

Following the commencement of development under this consent, the conditions of this consent must prevail to the extent of any inconsistency with the conditions of those consents and approvals.

Note: This requirement does not extend to the surrender of construction and occupation certificates for existing and proposed building works under Part 4A of the EP&A Act. Surrender of a consent should not be understood as implying that works legally constructed under a valid consent can no longer be legally maintained or used.

STRUCTURAL ADEQUACY

11. The Applicant must ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA.

Note: Under Part 4A of the EP&A Act, the Applicant is required to obtain construction and occupation certificates (where applicable) for the proposed building works. Part 8 of the EP&A Regulation sets out the requirements for the certification of the development.

DEMOLITION

12. The Applicant must ensure that all demolition work is carried out in accordance with Australian Standard AS 2601-2001: The Demolition of Structures, or its latest version.

PROTECTION OF PUBLIC INFRASTRUCTURE

- 13. Unless the Applicant and the applicable authority agree otherwise, the Applicant must:
 - (a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the development; and
 - (b) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the development.

Note: This condition does not apply to damage to roads caused as a result of general road usage.

OPERATION OF PLANT AND EQUIPMENT

- 14. The Applicant must ensure that all plant and equipment used on site, or to monitor the performance of the development is:
 - (a) maintained in a proper and efficient condition; and
 - (b) operated in a proper and efficient manner.

COMMUNITY ENHANCEMENT

15. From the date of commencement, the Applicant must pay a community contribution to Council of \$0.03 per saleable tonne of coal produced at Airly mine capped at a maximum payment of \$200,000 in total from the Springvale, Angus Place and Airly mines (ie for all 3 mines collectively). The community contribution is to be paid on an annual basis to Council and no later than 31 March each year (for the preceding calendar year). The contribution must be used for long-term community activities and projects to be agreed by both the Applicant and Council and must be reported publicly.

SCHEDULE 3 SPECIFIC ENVIRONMENTAL CONDITIONS – UNDERGROUND MINING

SUBSIDENCE

Restrictions on Mining

- 1. The Applicant must not carry out any second workings:
 - a) in the Panel and Pillar Extraction Zone within an angle of draw of 26.5 degrees of the crest of any cliffs identified in the Cliff Line Zone of First Workings before at least four adjacent extraction panels in the Panel and Pillar Zone beneath Mount Airly have been completed;
 - b) in the Partial Pillar Extraction Zone within an angle of draw of 26.5 degrees of the toe of any cliffs identified in the Cliff Line Zone of First Workings before it has completed the Trial Mining Area in Panels 206 and 207 as shown in Appendix 11; and
 - c) within an angle of draw of 26.5 degrees plus 50 metres of the limit of the New Hartley Shale Mine workings.

Note: For more detail on the zones referred to in this condition, see the Figure 2 in Appendix 3.

Performance Measures – Natural and Heritage Features, etc

2. The Applicant must ensure that the development does not cause any exceedances of the performance measures in Table 1 to the satisfaction of the Secretary.

Table 1: Subsidence Impact Performance Measures – Natural and Heritage Features, etc

Water Resources	Performance Measure
Gap and Genowlan Creeks	 Wherever depth of cover is < 40 m, no first or second workings within 20 m of the edge of the creek bed, measured horizontally in the seam
	 Negligible environmental consequences to water quality and to bed and bank stability
	 No greater environmental consequences than predicted in the EIS to water flows (including baseflow)
All other watercourses	No greater subsidence impacts or environmental consequences than predicted in the EIS
Land	
The Grotto	Negligible subsidence impacts or environmental consequences
Cliffs within a 26.5 degree angle of draw of the Airly underground mine workings	No greater subsidence impacts or environmental consequences than predicted in the EIS (<i>ie occasional rock falls, displacement or dislodgment of boulders or slabs of less than 30 m³, or fracturing, that do not impact Aboriginal heritage, EECs or public safety)</i> , that in total do not impact more than 2% of the total area of such cliffs
Pagodas within a 26.5 degree angle of draw of the Airly underground mine workings (other than pagodas affected by the New Hartley interaction zone)	No greater subsidence impacts or environmental consequences than predicted in the EIS (<i>ie occasional rock falls, displacement or dislodgment of boulders or slabs of less than 30 m</i> ³ , or fracturing, that do not impact Aboriginal heritage, EECs or public safety), that in total do not impact more than 2% of the total area of such pagodas
Pagodas within a 26.5 degree angle of draw of the New Hartley interaction zone	No greater subsidence impacts or environmental consequences than predicted in the EIS
Minor cliffs	No greater subsidence impacts or environmental consequences than predicted in the EIS
Steep slopes	No greater subsidence impacts or environmental consequences than predicted in the EIS
All other land not covered by a performance measure above	No greater subsidence impacts or environmental consequences than predicted in the EIS
Biodiversity	
Threatened species, threatened populations, EECs and groundwater dependent ecosystems (with the exception of those listed below)	Negligible environmental consequences
<i>Pultenaea</i> sp. Genowlan Point population and Genowlan Point <i>Allocasurina nana</i> Heathland community	No environmental consequences

Heritage sites		
Aboriginal heritage sites identified in Appendix 5	;	Negligible environmental consequences
Non-Aboriginal heritage sites identified Appendix 6	Wherever depth of cover is < 30 m, no second workings occur within a setback distance defined by half the depth cover from site 3 and site 24, measured horizontally in seam	
Mine workings		
First workings beneath any feature whe performance measures in this table require no negligible environmental consequences and to first workings beneath cliffs	or	To remain long-term stable and non-subsiding
Second workings		To be carried out only in accordance with an approved Extraction Plan

Notes:

- These performance measures apply to all mining taking place after the date of this consent.
- The Applicant will be required to define more detailed performance indicators (including impact assessment criteria) for each of these performance measures in the various management plans that are required under this consent (see condition 5 below).
- Measurement and/or monitoring of compliance with performance measures and performance indicators is to be undertaken using generally accepted methods that are appropriate to the environment and circumstances in which the feature or characteristic is located. These methods are to be fully described in the relevant management plans. In the event of a dispute over the appropriateness of proposed methods, the Secretary will be the final arbiter.

Performance Measures – Built Features

3. The Applicant must ensure that the development does not cause any exceedances of the performance measures in Table 2 to the satisfaction of the Secretary.

Table 2: Subsidence Impact Performance Measures – Built F	
Built Features	Performance Measures
Emergency services communication tower and	 Always safe and serviceable
associated sheds and infrastructure	• Damage must be fully repairable, and must be
	fully repaired
State survey mark at Genowlan Trig Station,	• Always safe and serviceable, unless otherwise
Telstra copper cable and Nissen Hut and	agreed with the owner
outbuilding	• Damage must be fully repairable, and must be
	fully repaired
"Stone Cottage"	 No second workings to occur within a setback distance defined by half the depth of cover from the building, measured horizontally in the seam, unless otherwise agreed with the owner Always safe and serviceable, unless otherwise agreed with the owner Damage must be fully repairable, and must be fully repaired, unless otherwise agreed with the owner
Other built features and improvements including	Use should be maintained wherever practicable
Airly Camp Ground, walking and 4WD tracks,	in consultation with BCD
fences and gates	• Damage must be fully repairable and must be
	fully repaired
Public Safety	
Public safety	Negligible additional risk, in consultation with the
	Resources Regulator and BCD

Notes:

These performance measures apply to all mining taking place after the date of this consent.

- The Applicant will be required to define more detailed performance indicators for each of these performance measures in the Built Features Management Plans or Public Safety Management Plan (see condition 7 below).
- Measurement and/or monitoring of compliance with performance measures and performance indicators is to be undertaken using generally accepted methods that are appropriate to the environment and circumstances in which the feature or characteristic is located. These methods are to be fully described in the relevant management plans. In the event of a dispute over the appropriateness of proposed methods, the Secretary will be the final arbiter.

Requirements regarding safety or serviceability do not prevent preventative or mitigatory actions being taken prior to or during mining in order to achieve or maintain these outcomes.

4. Any dispute between the Applicant and the owner of any built features over the interpretation, application or implementation of the performance measures in Table 2 is to be settled by the Secretary, following consultation with the Resources Regulator. Any decision by the Secretary shall be final and not subject to further dispute resolution under this consent.

Independent Review and Monitoring Panel

5. The Applicant must pay all costs incurred by the Department to establish and operate an IEP for the development.

First Workings

6. With the exception of first workings in the Cliff Line Zone and Zone of First Workings, the Applicant may carry out first workings within the underground mining area, other than in accordance with an approved Extraction Plan, provided that the Resources Regulator is satisfied that the first workings are designed to remain stable and non-subsiding in the long-term, except insofar as they may be impacted by approved second workings.

Note: The intent of this condition is not to require an additional approval for first workings, but to ensure that first workings are built to geotechnical and engineering standards sufficient to ensure long term stability, with negligible resulting direct subsidence impacts.

Extraction Plan

- 7. Prior to carrying out any first workings within the Cliff Line Zone and Zone of First Workings (refer to Figure 2 in Appendix 3) or second workings, the Applicant must prepare an Extraction Plan for the relevant workings to the satisfaction of the Secretary. Each Extraction Plan must:
 - (a) be prepared by suitably qualified and experienced persons whose appointment has been endorsed by the Secretary;
 - (b) provide a detailed justification for any proposed divergence from the advice of the IEP or the Resources Regulator;
 - include detailed plans of existing and proposed first and second workings and overlying surface features, including the identification of appropriate setback distances between cliffs, steep slopes and pagodas and second workings and any applicable adaptive management measures;
 - (d) include adequate consideration of mine roof and floor conditions, pillar width to height ratio, final pillar design dimensions and the long-term stability of pillars, following consultation with the IEP;
 - (e) give express consideration to the design parameters underpinning the advice in the IPRP's report, and if the proposed mine layout diverges from these parameters, provide a detailed justification for the proposed divergence, following consultation with the IEP;
 - (f) provide an assessment of the likely stability of cliff lines, pagodas and steep slopes, in consultation with the IEP;
 - (g) provide revised predictions of the potential subsidence effects, subsidence impacts and environmental consequences of the proposed mining covered by the Extraction Plan, incorporating any relevant information obtained since this consent, in consultation with the IEP;
 - (h) describe in detail the performance indicators and measures that would be implemented to ensure compliance with the performance measures in Tables 1 and 2, and manage or remediate any impacts and/or environmental consequences to meet the rehabilitation objectives in condition 27 of Schedule 4, following consultation with the IEP;
 - (i) include a: (i) Su
 - Subsidence Monitoring Program which has been prepared in consultation with the IEP, Resources Regulator and BCD, to:
 - · monitor the subsidence effects and subsidence effects of the development;
 - develop effective remote monitoring techniques for the development;
 - monitor pillar loads underground to develop an understanding of the loading conditions on pillars in the vicinity of cliff lines, pagodas and steep slopes;
 - provide data to assist with the management of risks associated with subsidence;
 - validate the subsidence predictions;
 - analyse the relationship between the predicted and resulting subsidence effects and predicted and resulting impacts under the plan and any ensuing environmental consequences; and
 - inform the contingency plan and adaptive management process;
 - (ii) Built Features Management Plan which has been prepared in consultation with Resources Regulator, to manage the potential subsidence impacts of the proposed underground workings on built features, and which:
 - has been prepared in consultation with the owner/s of potentially affected feature/s;
 - addresses in appropriate detail all items of key public infrastructure and other public infrastructure and all classes of other built features;

- recommends appropriate pre-mining mitigation measures to reduce subsidence impacts; and
- recommends appropriate remedial measures and includes commitments to mitigate, repair, replace or compensate predicted impacts on potentially affected built features in a timely manner;
- (iii) Water Management Plan which has been prepared in consultation with BCD and the Water Division, which provides for the management of potential impacts and/or environmental consequences of the proposed underground workings on watercourses and aquifers, including:
 - detailed baseline data on:
 - surface water flows and quality in Gap and Genowlan Creeks;
 - surface water flows in Airly village spring and the Grotto;
 - groundwater levels, yield and quality in the region;
 - surface and groundwater impact assessment criteria, including trigger levels for investigating any potentially adverse impacts on water resources or water quality;
 - a surface water monitoring program to monitor and report on:
 - stream flows and quality;
 - stream and riparian vegetation health;
 - channel and bank stability;
 - a groundwater monitoring program to monitor and report on:
 - springs, their discharge quantity and quality, as well as any associated groundwater dependent ecosystems;
 - groundwater inflows to the underground mining operations;
 - the height of groundwater depressurization;
 - background changes in groundwater yield/quality against mine-induced changes, in particular, on groundwater bore users;
 - permeability, hydraulic gradient, flow direction and connectivity of the deep and shallow groundwater aquifers;
 - a description of any adaptive management practices implemented to guide future mining activities in the event of greater than predicted impacts on aquatic habitat;
 - a program to validate the surface water and groundwater models for the development, and compare monitoring results with modelled predictions; and
 - a plan to respond to any exceedances of the surface water and groundwater assessment criteria.
- (iv) Biodiversity Management Plan which has been prepared in consultation with DoEE and BCD, which provides for the management of potential impacts and/or environmental consequences of the proposed first and second workings on aquatic and terrestrial flora and fauna, with a specific focus on threatened species populations and their habitats, endangered ecological communities and groundwater dependent ecosystems including, but not limited to:
 - Pultenaea sp. Genowlan Point;
 - Genowlan Point Allocasuarina nana Heathland;
 - Prostanthera stricta (Mount Vincent Mint-bush); and
 - Eucalyptus cannonii (Capertee Stringybark);
- (v) Land Management Plan which has been prepared in consultation with the IEP, Resources Regulator, BCD and any affected public authorities, to manage the potential impacts and/or environmental consequences of the proposed underground workings on land in general, with a specific focus on cliffs, pagoda formations, steep slopes and gorges;
- (vi) Heritage Management Plan which has been prepared in consultation with Heritage Division and relevant Aboriginal stakeholders, to manage the potential environmental consequences of the proposed workings on Aboriginal and historic heritage and includes all requirements under condition 19 of Schedule 4;
- (vii) *Public Safety Management Plan* which has been prepared in consultation with the IEP, Resources Regulator and BCD to ensure public safety and manage access on the site;
- (viii) include Trigger Action Response Plans, or equivalent, to prevent greater than predicted subsidence impacts and environmental consequences that may result from mining subsidence;
- (ix) include a contingency plan that expressly provides for adaptive management where monitoring indicates that there has been an exceedance of any performance measure in Tables 1 and 2, or where any such exceedance appears likely;
- (x) proposes appropriate revisions to the Rehabilitation Management Plan required under condition 27 in Schedule 4; and
- (xi) include a program to collect sufficient baseline data for future Extraction Plans.

The Applicant must implement the approved Extraction Plan for the development.

Notes:

- This condition does not apply to first or second workings which are covered by an Extraction Plan or Subsidence Management Plan approved, or under assessment as at the date of this development consent.
- In accordance with condition 4 in Schedule 6, the preparation and implementation of Extraction Plans may be staged, with each plan covering a defined area of underground workings. In addition, these plans are only required to contain management plans that are relevant to the specific underground workings that are being carried out.
- Due to the sensitive and rugged terrain of the Mugii Murum-ban State Conservation Area, the Applicant may propose remote subsidence monitoring techniques.

PAYMENT OF REASONABLE COSTS

8. The Applicant must pay all reasonable costs incurred by the Department to engage suitably qualified, experienced and independent experts to review the adequacy of any aspect of an Extraction Plan.

SCHEDULE 4 ENVIRONMENTAL PERFORMANCE CONDITIONS – GENERAL

NOISE

Hours of Operation

1. The Applicant must comply with the restrictions to operating hours in Table 3.

Table 3: Operating hours	
Activity	Operating Hours
 Construction Exploration and monitoring borehole drilling 	7 am to 6 pm Monday to Friday and 8 am to 1 pm Saturdays.

Noise Criteria

2. The Applicant must ensure that the noise generated by the development does not exceed the criteria in Table 4.

Land	Day L _{Aeq(15 min)}	Evening L _{Aeq(15 min)}	Night L _{Aeq(15 min)}	Night L _{A (max)}
Any residence on privately-owned land	35	35	35	52
R17 (camp ground)		N/A		
R18 (Nissen Hut)		N/A		

Note: To interpret the locations referred to in Table 4 see the applicable figure(s) in Appendix 7.

Noise generated by the development is to be measured in accordance with the relevant requirements of the *NSW Industrial Noise Policy*. Appendix 8 sets out the meteorological conditions under which these criteria apply and the requirements for evaluating compliance with these criteria.

However, these criteria do not apply if the Applicant has a negotiated agreement with the owner/s of the relevant residence or land to generate higher noise levels, and the Applicant has advised the Department in writing of the terms of this agreement.

Operating Conditions

- 3. The Applicant must:
 - (a) minimise the construction, road and rail noise of the development;
 - (b) minimise the noise impacts of the development during meteorological conditions under which the noise limits in this consent do not apply (see Appendix 8);
 - (c) carry out monitoring to determine whether the development is complying with the relevant conditions of this consent,
 - to the satisfaction of the Secretary

Noise Management Plan

- 4. Prior to carrying out any development under this consent, unless the Secretary agrees otherwise, the Applicant must prepare a Noise Management Plan for the development to the satisfaction of the Secretary. This plan must:
 - (a) be prepared in consultation with the EPA;
 - (b) describe the measures that would be implemented to ensure compliance with the noise criteria and operating conditions of this consent;
 - (c) include a monitoring program that evaluates and reports on:
 - compliance against the noise criteria in this consent; and
 - compliance with the noise operating conditions in condition 3 above.

The Applicant must implement the approved Noise Management Plan for the development.

AIR QUALITY

Air Quality Criteria

5. The Applicant must ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the development do not cause exceedances of the criteria in Table 5 at any residence on privately-owned land.

Table	5.	Δir	auality	criteria
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Pollutant	Averaging Period	Criterion		
Particulate matter < 10 µm (PM ₁₀)	Annual	a,d 25 μg/m³		
Particulate matter < 10 µm (PM ₁₀)	24 hour	^a 50 μg/m³		
Total suspended particulates (TSP)	Annual	^{a,d} 90 µg/m³		
^C Deposited dust	Annual	^b 2 g/m²/month ^{a,d} 4 g/m²/month		

Notes to Table 5:

a Cumulative impact (ie increase in concentrations due to the development plus background concentrations due to all other sources).

^b Incremental impact (ie increase in concentrations due to the development alone, with zero allowable exceedances of the criteria over the life of the development.

^C Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method.

^d Excludes extraordinary events such as bushfires, prescribed burning, dust storms, fire incidents or any other activity agreed by the Secretary.

e "Reasonable and feasible avoidance measures" includes, but is not limited to, the operational requirements in conditions 6 and 7 to develop and implement an air quality management system that ensures operational responses to the risks of exceedance of the criteria.

Operating Conditions

- 6. The Applicant must:
 - (a) implement all reasonable and feasible measures to minimise the:
 - odour, fume and dust emissions of the development; and
 - release of greenhouse gas emissions from the development;
 - (b) minimise any visible air pollution generated by the development;
 - (c) minimise the surface disturbance of the site generated by the development; and
 - (d) minimise the air quality impacts of the development during adverse meteorological conditions and extraordinary events (see note *d* to Table 5 above),

to the satisfaction of the Secretary.

Air Quality Management Plan

- 7. Prior to carrying out any development under this consent, unless the Secretary agrees otherwise, the Applicant must prepare an Air Quality Management Plan for the development to the satisfaction of the Secretary. This plan must:
 - (a) be prepared in consultation with the EPA;
 - (b) describe all reasonable and feasible measures which would be implemented to ensure compliance with the air quality criteria and operating conditions of this consent;
 - (c) describe the air quality management system in detail;
 - (d) include an air quality monitoring program that:
 - uses monitors to evaluate the performance of the development against the air quality criteria in this consent;
 - adequately supports the air quality management system;
 - evaluates and reports on:
 - the effectiveness of the air quality management system; and
 - compliance with the air quality criteria and operating conditions in condition 6 above;
 - defines what constitutes an air quality incident, and includes a protocol for identifying and notifying the Department and relevant stakeholders of any air quality incidents.

The Applicant must implement the approved Air Quality Management Plan for the development.

METEOROLOGICAL MONITORING

- 8. Prior to commencement of development under this consent and for the life of the development, the Applicant must ensure that there is a meteorological station in the vicinity of the site that:
 - (a) complies with the requirements in the Approved Methods for Sampling of Air Pollutants in New South Wales guideline and the NSW Industrial Noise Policy; and
 - (b) is capable of continuous real-time measurement of atmospheric stability category determined by the sigma theta method in accordance with the *NSW Industrial Noise Policy*.

WATER

Water Supply

9. The Applicant must ensure that it has sufficient water for all stages of the development, and if necessary, adjust the scale of operations on site to match its available water supply.

Note: Under the Water Act 1912 and/or the Water Management Act 2000, the Applicant is required to obtain the necessary water licences for the development.

Water Pollution

10. Unless an EPL authorises otherwise, the Applicant must comply with Section 120 of the POEO Act.

Compensatory Water Supply

11. The Applicant must provide a compensatory water supply to the owner of any privately-owned land whose water supply is adversely and directly impacted (other than a negligible impact) as a result of the development, in consultation with the Water Division, and to the satisfaction of the Secretary.

The compensatory water supply measures must provide an alternative long-term supply of water that is equivalent, in quality and volume, to the loss attributed to the development. Equivalent water supply should be provided (at least on an interim basis) within 24 hours of the loss being identified.

If the Applicant and the landowner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Secretary for resolution.

If the Applicant is unable to provide an alternative long-term supply of water, then the Applicant must provide alternative compensation to the satisfaction of the Secretary.

Water Management Performance Measures

12. The Applicant must comply with the performance measures in Table 6 to the satisfaction of the Secretary.

Feature	Performance Measure
Water Management – General	 Minimise the use of clean water on site Minimise the use of the supplementary water supply from the production bore
Construction and operation of linear infrastructure	 Design, install and maintain erosion and sediment controls generally in accordance with the series Managing Urban Stormwater: Soils and Construction including Volume 1, Volume 2A – Installation of Services and Volume 2C – Unsealed Roads Design, install and maintain infrastructure within 40 m of watercourses generally in accordance with the Guidelines for Controlled Activities on Waterfront Land (July 2012), or its latest version Design, install and maintain creek crossings generally in accordance with Policy and Guidelines for Fish Friendly Waterway Crossings (NSW Fisheries 2003) and Why Do Fish Need to Cross the Road? Fish Passage Requirements for Waterway Crossings (NSW Fisheries 2003), or their latest versions
Sediment dams	 Design, install and maintain the dams generally in accordance with the series Managing Urban Stormwater: Soils and Construction – Volume 1 and Volume 2E – Mines and Quarries

Table 6: Water Management Performance Measures

Feature	Performance Measure
Mine water storages	 Design, install and maintain mine water storage infrastructure to ensure no unlicensed or uncontrolled discharge of mine water offsite Minimise discharges to surface waters as far as reasonable and practicable New on-site storages (including mine infrastructure dams, groundwater storage and treatment dams) are suitably treated to comply with a permeability standard of < 1 x 10⁻⁹ m/s Achieve an improvement in the quality of water held in the 35 ML dam generally in accordance with Figure 6-7 in Appendix F of the EIS (surface water impact assessment) over the life of the mine.
Water discharge to Airly Creek	 No greater impacts than predicted in the EIS for water flow and quality in Airly Creek between LDP 001 and Point 4 (refer Appendix 9) Negligible environmental consequences for water quality (ie. protection to 99% of all species in accordance with ANZECC guidelines) and flow in Airly Creek where it enters the Gardens of Stone National Park and Greater Blue Mountains World Heritage Area
Gap and Genowlan Creeks	 No greater impact than predicted in the EIS for water flow and quality
Emplacement of CHPP rejects	 Emplacement, and/or encapsulation and/or capping to prevent or minimise the migration of pollutants due to seepage from the REA
Chemical and petroleum storage	Chemical and hydrocarbon products to be stored in bunded areas in accordance with relevant Australian Standards
Aquatic and riparian ecosystems	 Maintain or improve baseline channel stability Develop site-specific water quality objectives in accordance with ANZECC Guidelines and Using the ANZECC Guidelines and Water Quality Objectives in NSW procedures (DECC 2006) or its latest version

Water Management Plan

- 13. Prior to carrying out any development under this consent, unless the Secretary agrees otherwise, the Applicant must prepare a Water Management Plan for the development to the satisfaction of the Secretary. This plan must:
 - (a) be prepared in consultation with the DoEE, EPA and the Water Division, by suitably qualified and experienced person/s whose appointment has been approved by the Secretary;
 - (b) include detailed performance criteria and describe measures to ensure that the Applicant complies with the Water Management Performance Measures (see Table 6);
 - (c) in addition to the standard requirements for management plans (see condition 3 of Schedule 6), this plan must include a:
 - (i) Site Water Balance, that:
 - includes details of:
 - sources and security of water supply, including contingency supply for future reporting periods;
 - water use and management on site;
 - any off-site water discharges; and
 - reporting procedures, including the preparation of a site water balance for each calendar year; and
 - investigates and implements all reasonable and feasible measures to minimise water use on site;
 - (ii) Surface Water Management Plan, that includes:
 - detailed baseline data on water flows and quality in the watercourses that could potentially be affected by the development, including, but not limited to Gap, Genowlan and Airly Creeks;
 - continuous flow monitoring at Airly village spring and the Grotto;
 - provisions for the recalculation of site-specific trigger values in relation to water discharges to Airly Creek once a minimum of two years data is obtained from the Airly Creek 'U/S' monitoring location (refer Appendix 9) in accordance with ANZECC guidelines;
 - the provision and implementation of adaptive management measures to ensure that subsequent water discharges to Airly Creek comply with the recalculated site-specific trigger values derived from the Airly Creek 'U/S' monitoring location;
 - a detailed description of the water management system, including the:
 - clean water diversion systems;
 - erosion and sediment controls (mine water system); and

- mine water management systems;
- detailed objectives and performance criteria, including trigger levels for investigating any potentially adverse impacts associated with the development for:
 - downstream surface water quality;
 - downstream water users, including with respect to any subsidence-related flow reductions in Gap and Genowlan Creeks;
 - stream and riparian vegetation health in Gap, Genowlan and Airly Creeks within and immediately outside of the site;
 - design and management for the emplacement of coal reject materials;
 - reinstatement of drainage lines on the rehabilitated areas of the site; and
 - control of any potential water pollution from the rehabilitated areas of the site;
 - a program to monitor and report on:
 - effectiveness of the mine water management system;
 - surface water flows, quality and geomorphology of the watercourses potentially affected by the development within and immediately outside of the site;
 - the performance measures listed in Table 6 including, but not limited to event-based monitoring of the hydrology, quality, ecotoxicology and chemical composition of water in Airly Creek under discharge conditions at points 5 and 6 (refer Appendix 9), or as otherwise determined in consultation with the EPA, to ensure that protection is provided to 99% of all species in the Gardens of Stone National Park and Greater Blue Mountains World Heritage Area in accordance with ANZECC Guidelines;
- reporting procedures for the results of the monitoring program; and
- a plan to respond to any exceedances of the performance measures, and repair, mitigate and/or offset any adverse surface water impacts of the development, including measures to provide compensatory water supply to any affected downstream water user under condition 11 of this Schedule;
- (iii) Groundwater Management Plan, which is consistent with the NSW Government guideline entitled Groundwater Monitoring and Modelling Plans – Introduction for prospective mining and petroleum activities, and includes:
 - detailed baseline data of groundwater levels, yield and quality in the region that could be affected by the development, including licensed privately-owned groundwater bores and a detailed survey/schedule of groundwater dependent ecosystems (including springs and their discharge quantity and quality);
 - consultation with the Water Division on the installation of all new monitoring bores, the scheduled sampling and quality determination of parameters for monitoring bores;
 - groundwater assessment criteria including trigger levels for investigating any potentially adverse groundwater impacts;
 - a program to monitor and report on:
 - springs and their discharge quantity and quality;
 - groundwater inflows transferred to the surface water management system;
 - the seepage/leachate from water storages and emplacements;
 - impacts of the development on:
 - regional and local (including alluvial) aquifers;
 - o groundwater supply of potentially affected landowners; and
 - groundwater dependent ecosystems (including rules for the management of groundwater level impacts to protect GDEs), and riparian vegetation;
 - a program to monitor and report on stygofauna and hyporheic fauna;
 - a program to review and validate the groundwater model for the development, including independent expert review; and
 - a plan to respond to any exceedances of the performance measures.

The Applicant must implement the approved Water Management Plan for the development.

Independent Expert Review

- 14. As part of any Independent Environmental Audit of the development (see condition 12 of schedule 6), the Applicant must commission an independent expert whose appointment has been endorsed by the Secretary, to carry out a review of the Groundwater Management Plan for the development, including the groundwater model. This review must include a:
 - (a) review of all available monitoring data;
 - (b) comparison of predicted and actual groundwater impacts; and
 - (c) review of the effectiveness of the Groundwater Management Plan for the development, including the groundwater model.

BIODIVERSITY

Biodiversity Management Plan

- 15. Prior to carrying out any development under this consent that would cause surface disturbance, the Applicant must prepare a Biodiversity Management Plan for the development to the satisfaction of the Secretary. This plan must:
 - (a) be prepared in consultation with BCD and DoEE;
 - (b) establish baseline data for the existing remnant vegetation and habitat on site, including mapping of the location of the *Pultenaea* sp. Genowlan Point;
 - (c) describe the short, medium, and long-term measures that would be implemented to manage the remnant vegetation and habitat on the site, including but not limited to;
 - Prostanthera stricta (Mt Vincent Mint-bush);
 - Eucalyptus cannonii (Capertee Stringybark);
 - Pultenaea sp. Genowlan Point; and
 - Genowlan Point Allocasurina nana Heathland;
 - (d) include a detailed description of the measures that would be implemented to:
 - minimise the impacts to fauna on site, including undertaking pre-clearance surveys;
 - avoid and mitigate the spread of Phytophthora cinnamomi (P. cinnamomi);
 - control weeds and feral pests including, but not limited to goats, rabbits, European Red Fox, cats and pigs;
 - manage salinity;
 - control erosion;
 - control access; and
 - manage bushfire risk;
 - (e) include a program to monitor and report on the effectiveness of these measures, and progress against the detailed performance and completion criteria; and
 - (f) include details of who would be responsible for monitoring, reviewing, and implementing the plan.

The Applicant must implement the approved Biodiversity Management Plan for the development.

Note: The Biodiversity Management Plan and Rehabilitation Management Plan need to be substantially integrated for achieving biodiversity objectives for the rehabilitated mine-site.

TRANSPORT

Monitoring of Coal Transport

- 16. The Applicant must monitor and report on:
 - (a) the amount of coal transported from the site; and
 - (b) the date and time of each train movement to and from the site;
 - to the satisfaction of the Secretary.

Traffic Management Plan

- 17. Prior to the commencement of construction activities approved under this consent or within three months of the commencement of development under this consent (whichever is sooner), the Applicant must prepare a Traffic Management Plan for the development to the satisfaction of the Secretary. This plan must:
 - (a) be prepared in consultation with RMS and Council;
 - (b) include measures to minimise the traffic impacts to Glen Davis Road and in the village of Capertee that may occur during the construction of new and/or upgraded surface infrastructure at the pit top; and
 - (c) a program to monitor and report on the effectiveness of these measures.

The Applicant must implement the approved Traffic Management Plan for the development.

HERITAGE

Protection of Aboriginal Sites

18. Unless otherwise authorised under the *National Parks and Wildlife Act 1974*, the Applicant must ensure that the development does not cause any direct or indirect impact on identified Aboriginal sites.

Note: Aboriginal heritage sites are identified in Appendix 6.

Heritage Management Plan

- 19. Prior to carrying out any development under this consent that would cause surface disturbance, the Applicant must prepare a Heritage Management Plan for the development to the satisfaction of the Secretary. This plan must:
 - (a) be prepared by suitably qualified and experienced person/s whose appointment has been endorsed by the Secretary;
 - (b) be prepared in consultation with Heritage Division, Council, any relevant local historical organisations (in relation to non-Aboriginal heritage) and local Aboriginal stakeholders (in relation to Aboriginal heritage);
 - (c) include a description of the measures that would be implemented for:
 - managing the discovery of human remains or previously unidentified heritage items on site; and
 - ensuring any workers on site receive suitable heritage inductions and that suitable records are kept of these inductions;
 - (d) include the following for the management of Aboriginal heritage:
 - a description of the measures that would be implemented for:
 - protecting, monitoring and/or managing (including any proposed archaeological investigations and/or salvage measures) the heritage items identified in Appendix 5;
 - managing the discovery of previously unidentified Aboriginal items on site;
 - conserving the sites outside the surface disturbance area (see Appendix 5);
 - maintaining and managing reasonable access for Aboriginal stakeholders to heritage items on site;
 - ongoing consultation with the Aboriginal stakeholders in the conservation and management of Aboriginal cultural heritage on site; and
 - (e) include the following for the management of non-Aboriginal heritage items:
 - a description of the measures that would be implemented for:
 - protecting, monitoring and managing the heritage items identified in Appendix 6; and
 - managing the discovery of previously unidentified cultural heritage items on site.

Note: This plan can be incorporated in a regional Aboriginal Cultural Heritage Management Plan for Centennial's other mines and mine infrastructure in the Lithgow Local Government Area.

The Applicant must implement the approved Heritage Management Plan for the development.

VISUAL

Visual Screening of Reject Emplacement Area

- 20. The Applicant must:
 - (a) plant trees at the basal area of the proposed reject emplacement area (REA) to minimise views of the REA to travellers along Glen Davis Road;
 - (b) carry out tree planting in the road reserve of the Castlereagh Highway in locations where the REA is visible, in consultation with the relevant road authority;
 - (c) complete this tree planting at least three months prior to constructing the proposed REA; and
 - (d) maintain this tree screening over the life of the mine
 - to the satisfaction of the Secretary.

Operating Conditions

- 21. The Applicant must:
 - (a) implement all reasonable and feasible measures to minimise the visual and off-site lighting impacts of the development;
 - (b) ensure that all external lighting associated with the development complies with Australian Standard AS4282 (INT) 1997 Control of Obtrusive Effects of Outdoor Lighting or its latest version;
 - (c) ensure that the visual appearance of all buildings, structures, facilities or works (including paint colours and specifications) is aimed at blending as far as possible with the surrounding landscape, to the satisfaction of the Secretary.

BUSHFIRE MANAGEMENT

- 22. The Applicant must:
 - (a) ensure that the development is suitably equipped to respond to any fires on site; and
 - (b) assist the Rural Fire Service, emergency services and NPWS as much as possible if there is a fire in the surrounding area.

WASTE

- The Applicant must: 23.
 - implement all reasonable and feasible measures to minimise the waste (including coal reject) (a) generated by the development;
 - ensure that the waste generated by the development is appropriately stored, handled and disposed (b) of: and
 - monitor and report on the effectiveness of waste minimisation and management measures in the (c) Annual Review,

to the satisfaction of the Secretary.

EXPLORATION ACTIVITIES & SURFACE INFRASTRUCTURE

Exploration Activities and Minor Surface Infrastructure Management Plan

- 24. Prior to carrying out exploration activities on site under this consent that would cause surface disturbance or the construction and/or upgrade of minor surface infrastructure, the Applicant must prepare an Exploration Activities and Minor Surface Infrastructure Management Plan for the development to the satisfaction of the Secretary. This Plan must:
 - be prepared by suitably qualified and experienced person/s whose appointment has been endorsed (a) by the Secretary;
 - (b) be prepared in consultation with the Resources Regulator and BCD; (c)
 - include a description of the measures that would be implemented for:
 - managing exploration activities on site; •
 - managing construction and operation of minor surface infrastructure (including groundwater monitoring bores) and associated access tracks;
 - consulting with and addressing concerns of affected landowners;
 - avoiding threatened species, populations or their habitats and EECs; •
 - minimising clearance and disturbance of native vegetation;
 - minimising erosion and sedimentation;
 - achieving applicable standards and goals; and
 - rehabilitating disturbed areas.

The Applicant must implement the approved Exploration Activities and Minor Surface Infrastructure Management Plan for the development.

Note: This condition does not apply to the construction of approved surface infrastructure in the Airly Pit Top area.

REHABILITATION

Rehabilitation Objectives

25. The Applicant must rehabilitate the site to the satisfaction of the Resources Regulator. This rehabilitation must be generally consistent with the proposed Rehabilitation Strategy described in the EIS (and depicted conceptually in Appendix 10) and comply with the objectives in Table 7.

Feature Objective Site (as a whole) Safe, stable and non-polluting ٠ Surface Infrastructure To be decommissioned and removed, unless the • **Resources Regulator agrees otherwise** The Reject Emplacement Area and all surface infrastructure is to be made safe and hydraulically and geotechnically stable All surface infrastructure sites are to be revegetated • with suitable local native plant species to a landform consistent with the surrounding environment Rehabilitation materials Materials from areas disturbed under this consent (including topsoils, substrates and seeds) are to be recovered, managed and used as rehabilitation resources REA The REA is to be revegetated with suitable local • native plant species, and to a landform consistent with the surrounding environment

Table 7: Rehabilitation objectives

Feature	Objective
	 Capping materials (including depth of application) are to be approved by the Resources Regulator prior to capping
Revegetated final landforms	 Stable and sustain the intended land use Consistent with surrounding topography to minimise visual impacts Incorporate relief patterns and design principles
Native flora and fauna	 consistent with natural drainage Flora species used in rehabilitation selected to re- establish and complement local and regional biodiversity Rehabilitated areas contribute to achieving self- sustaining biodiversity habitats
Cliffs and steep slopes	No additional risk to public safety compared to pre- mining conditions
All watercourses subject to mine-water discharges and/or subsidence impacts	• Hydraulically and geomorphologically stable, with aquatic ecology and riparian vegetation that is the same, or better than prior to grant of this consent
Water quality	 Water retained on site is fit for the intended post mining land use(s) Water management is consistent with the regional catchment management strategy
Community	 Ensure public safety Minimise the adverse socio-economic effects of mine closure

Note: These rehabilitation objectives apply to all subsidence impacts and environmental consequences caused by mining taking place after the date of this consent, and to all surface infrastructure part of the project, whether constructed prior to or following the date of this consent.

Progressive Rehabilitation

26. The Applicant must rehabilitate the site progressively, that is, as soon as reasonably practicable following disturbance. All reasonable and feasible measures must be taken to minimise the total area exposed for dust generation at any time.

Rehabilitation Management Plan

- 27. Prior to carrying out any development under this consent, unless the Secretary agrees otherwise, the Applicant must prepare a Rehabilitation Management Plan for the development to the satisfaction of the Resources Regulator. This plan must:
 - (a) be prepared in consultation with the Department, the Water Division, BCD, Council and the CCC;
 - (b) be prepared in accordance with any relevant Resources Regulator guideline;
 - (c) include detailed performance and completion criteria for evaluating the performance of the rehabilitation of the site, and triggering remedial action (if necessary);
 - (d) describe the measures that would be implemented to ensure compliance with the relevant conditions of this consent, and address all aspects of rehabilitation including mine closure, final landform and final land use;
 - (e) include the design and implementation of a Closure Groundwater Monitoring and Management Plan, which:
 - assists in restoring natural groundwater flow to pre-mining conditions to the maximum extent possible;
 - includes the implementation of appropriate mitigation strategies to reduce adverse groundwater impacts to seeps, springs and flows in terms of acidity, salinity or location;
 - involves the removal of all non-natural material from within the mine not required for groundwater or subsidence management and describe measures that would be implemented to prevent polluting materials from entering the mine so as to not affect groundwater quality;
 - (f) include interim rehabilitation where necessary to minimise the area exposed for dust generation;
 - (g) include a program to monitor, independently audit and report on the effectiveness of the rehabilitation measures and progress against the detailed performance and completion criteria; and
 - (h) build to the maximum extent practicable on the other management plans required under this consent.

The Applicant must implement the approved Rehabilitation Management Plan for the development.

Note: The Biodiversity Management Plan and Rehabilitation Management Plan require substantial integration to achieve biodiversity objectives for the rehabilitated mine site.

SCHEDULE 5 ADDITIONAL PROCEDURES

NOTIFICATION OF LANDOWNERS/TENANTS

- 1. As soon as practicable after obtaining monitoring results showing:
 - (a) an exceedance of any relevant criteria in Schedule 4, the Applicant must notify the affected landowners in writing of the exceedance, and provide regular monitoring results to these landowners until the project is again complying with the relevant criteria; and
 - (b) an exceedance of the relevant air quality criteria in Schedule 4, the Applicant must send a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time), to the affected landowners and/or existing tenants of the land (including the tenants of any mine-owned land).

INDEPENDENT REVIEW

2. If an owner of privately-owned land considers the project to be exceeding the relevant criteria in Schedule 4, then he/she may ask the Secretary in writing for an independent review of the impacts of the project on his/her land.

If the Secretary is satisfied that an independent review is warranted, then within 2 months of the Secretary's decision the Applicant must:

- (a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to:
 - consult with the landowner to determine his/her concerns;
 - conduct monitoring to determine whether the project is complying with the relevant criteria in Schedule 4; and
 - if the project is not complying with these criteria, then identify the measures that could be implemented to ensure compliance with the relevant criteria; and
- (b) give the Secretary and landowner a copy of the independent review.

SCHEDULE 6 ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING

ENVIRONMENTAL MANAGEMENT

Environmental Management Strategy

- 1. Prior to carrying out any development under this consent, the Applicant must prepare an Environmental Management Strategy for the development to the satisfaction of the Secretary. This strategy must:
 - (a) be submitted to the Secretary for approval, unless otherwise agreed;
 - (b) provide the strategic framework for environmental management of the development;
 - (c) identify the statutory approvals that apply to the development;
 - (d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development;
 - (e) describe the procedures that would be implemented to:
 - keep the local community and relevant agencies informed about the operation and environmental performance of the mine;
 - receive, handle, respond to, and record complaints;
 - resolve any disputes that may arise during the course of the development;
 - respond to any non-compliance;
 - respond to emergencies; and
 - (f) include:
 - copies of any strategies, plans and programs approved under the conditions of this consent; and
 - a clear plan depicting all the monitoring to be carried out in relation to the development.

The Applicant must implement the approved Environmental Management Strategy for the development.

Management Plan Requirements

- 2. The Applicant must ensure that the management plans required under this consent are prepared in accordance with any relevant guidelines, and include:
 - (a) detailed baseline data;
 - (b) a description of:
 - the relevant statutory requirements (including any relevant approval, licence or lease conditions);
 - any relevant limits or performance measures/criteria;
 - the specific performance indicators or triggers that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;
 - (c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;
 - (d) a program to monitor and report on the:
 - impacts and environmental performance of the development;
 - effectiveness of any management measures (see c above);
 - a contingency plan to manage any unpredicted impacts and their consequences;
 - (f) a program to investigate and implement ways to improve the environmental performance of the development over time;
 - (g) a protocol for managing and reporting any:
 - incidents;
 - complaints;
 - non-compliances with statutory requirements; and
 - exceedances of the impact assessment criteria and/or performance criteria; and
 - (h) a protocol for periodic review of the plan.

Revision of Strategies, Plans and Programs

3. Within 3 months of:

(e)

- (a) the submission of an incident report under condition 9 below;
- (b) the submission of an annual review under condition 11 below;
- (c) the submission of an audit report under condition 12 below; or
- (d) any modification to the conditions of this consent, (unless the conditions require otherwise),

the Applicant must review the strategies, plans, and programs required under this consent, to the satisfaction of the Secretary. Where this review leads to revisions in any such document, then within 4 weeks of the review the revised document must be submitted for the approval of the Secretary.

Note: This is to ensure that strategies, plans and programs are regularly updated to incorporate any measures recommended to improve the environmental performance of the development.

Updating & Staging of Strategies, Plans or Programs

4. To ensure the strategies, plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the development, the Applicant may submit revised strategies, plans or programs required under this consent at any time. With the agreement of the Secretary, the Applicant may also submit any strategy, plan or program required by this consent on a staged basis.

The Secretary may approve a revised strategy, plan or program required under this consent, or the staged submission of any of these documents, at any time. With the agreement of the Secretary, the Applicant may prepare the revised or staged strategy, plan or program without undertaking consultation with all parties nominated under the applicable condition in this consent.

Notes:

- While any strategy, plan or program may be submitted on a staged basis, the Applicant must ensure that the existing operations on site are covered by suitable strategies, plans or programs at all times.
- If the submission of any strategy, plan or program is to be staged, then the relevant strategy, plan or program must
 clearly describe the specific stage to which the strategy, plan or program applies, the relationship of this stage to any
 future stages, and the trigger for updating the strategy, plan or program.

Relationships between Management Plans

5. The Water, Biodiversity and Heritage Management Plans required by conditions 13, 15 and 19 of Schedule 4, respectively, are to be prepared in respect of all parts of the development that are not covered by an Extraction Plan approved under condition 7 of Schedule 3. In particular, those management plans should address all areas subject to existing or proposed surface disturbance associated with the development.

Consolidation of Strategies, Plans or Programs

6. With the approval of the Secretary, the Applicant may incorporate any strategies, plans or programs required by this consent (except those required under condition 7 of Schedule 3) with the strategies, plans and programs required for Centennial Coal's mining operations in the Lithgow Local Government Area.

Adaptive Management

7. The Applicant must assess and manage development-related risks to ensure that there are no exceedances of the performance measures and/or criteria in Schedules 3 and 4. Any exceedance of these performance measures and/or criteria constitutes a breach of this consent and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation.

Where any exceedance of these criteria and/or performance measures has occurred, the Applicant must, at the earliest opportunity:

- (a) take all reasonable and feasible steps to ensure that the exceedance ceases and does not recur;
- (b) consider all reasonable and feasible options for remediation (where relevant) and submit a report to the Department describing those options and any preferred remediation measures or other course of action; and
- (c) implement remediation measures as directed by the Secretary,
- to the satisfaction of the Secretary.

COMMUNITY CONSULTATIVE COMMITTEE

8. The Applicant must operate a Community Consultative Committee (CCC) for the development to the satisfaction of the Secretary. This CCC must be operated in accordance with the *Guidelines for Establishing and Operating Community Consultative Committees for Mining Projects* (Department of Planning, 2007) or its latest version.

Notes: The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the Applicant complies with this consent.

REPORTING

Incident Reporting

9. The Applicant must immediately notify the Secretary and any other relevant agencies of any incident. Within 7 days of the date of the incident, the Applicant must provide the Secretary and any relevant agencies with a detailed report on the incident and such further reports as may be requested.

Regular Reporting

10. The Applicant must provide regular reporting on the environmental performance of the development on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent.

Annual Review

- 11. By the end of March each year following the commencement of development under this consent, or other timing as may be agreed by the Secretary, the Applicant must submit a report to the Department reviewing the environmental performance of the development to the satisfaction of the Secretary. This review must:
 - (a) describe the development (including any rehabilitation) that was carried out in the previous calendar year, and the development that is proposed to be carried out over the current calendar year;
 - (b) include a comprehensive review of the monitoring results and complaints records of the development over the previous calendar year, which includes a comparison of these results against the:
 - the relevant statutory requirements, limits or performance measures/criteria;
 - the monitoring results of previous years; and
 - the relevant predictions in the documents listed under condition 2(a) and the IPRP's Report;
 - (c) identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance;
 - (d) identify any trends in the monitoring data over the life of the development;
 - (e) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and
 - (f) describe what measures will be implemented over the next year to improve the environmental performance of the development.

INDEPENDENT ENVIRONMENTAL AUDIT

Independent Environmental Audit

- 12. Within one year of the date of commencement and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant must commission and pay the full cost of an Independent Environmental Audit of the development. This audit must:
 - (a) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;
 - (b) include consultation with the relevant agencies;
 - (c) assess the environmental performance of the development and assess whether it is complying with the requirements in this consent, and any other relevant approvals, relevant EPL/s and/or Mining Lease/s (including any assessment, plan or program required under these approvals);
 - (d) review the adequacy of any strategies, plans or programs required under the abovementioned approvals; and
 - (e) recommend appropriate measures or actions to improve the environmental performance of the development, and/or any strategy, plan or program required under these approvals; and
 - (f) be conducted and reported to the satisfaction of the Secretary.

Note: This audit team must be led by a suitably qualified auditor, and include experts in any fields specified by the Secretary.

13. Within 12 weeks of commissioning this audit, or as otherwise agreed by the Secretary, the Applicant must submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report and a timetable for the implementation of these recommendations as required. The Applicant must implement these recommendations, to the satisfaction of the Secretary.

ACCESS TO INFORMATION

- 14. The Applicant must:
 - a) make the following information publicly available on its website:
 - the documents listed under condition 2(a);
 - the IPRP's report;
 - all current statutory approvals for the development;
 - approved strategies, plans or programs required under the conditions of this consent;
 - a comprehensive summary of the monitoring results of the development, which have been
 reported in accordance with the various plans and programs approved under the conditions of
 this consent;
 - a complaints register, which is to be updated on a monthly basis;
 - minutes of CCC meetings;
 - the last five annual reviews;

- any independent environmental audit, and the Applicant's response to the recommendations in ٠ any audit;
- any report and/or advice issued by the IEP to the Applicant in respect of a draft or approved Extraction Plan; •
- any other matter required by the Secretary; and
 (b) keep this information up to date, to the satisfaction of the Secretary.

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Lot/Section No./ Property ID Deposited Plan	D./ an	Loi Property ID Di	Lot/Section No./ Deposited Plan	Property ID	Lot/Section No./ Deposited Plan
1 1//1152312		32 21//-	32 21//1118800	63	63 4//755766
2 4//1152312		33 20//-	33 20//1118800	64	64 1//1007126
3 2//1152312		34 23/	34 23//1118800	65	65 4/2/758011
4 3//1152312		35 7//1118784	118784	66	66 1//755766
5 5//1152312		36 10//-	36 10//1118784	67	67 12//755786
6 3/1/758011		37 13//-	37 13//1118784	68	68 3//755766
7 14//755757		38 8//1118784	118784	69	69 19//755766
8 1/1/758011		39 16//	39 16//1118801	70	70 5/1/758011
9 4/1/758011		40 100/	40 100//755757	71	71 51//755786
10 154//72292		41 7018	41 7018//1051447	72	72 2/1/758011
11 7020//1029319		42 701	42 7014//1057712	73	73 7021//1050431
12 13//755786		43 83//755757	755757	74	74 7001//1057060
13 66//722329		44 113/	44 113//755757	75	75 97//755757
14 68//722329		45 121/	45 121//755757	76	76 119//755757
15 81//755757		46 7023	46 7022//1050402	77	77 22//755786
16 117//755757		47 67/1722329	722329	78	78 116//755757
17 112//755757		48 7016	48 7016//1114802	29	79 79//755757
18 124//755757		49 7300	49 7300//1130496	80	80 109//755757
19 102//755757		50 16/2	50 16/2/758011	81	81 107//755757
20 94//755757		51 6/2/758011	758011	82	82 90//755757
21 104//755757		52 5/2/758011	758011	83	83 126//755757
22 105//755757		53 8/1/758011	758011	84	84 120//755757
23 95//755757		54 9/1/758011	758011	85	85 110//755757
24 33//755757		55 5/3/758011	758011	86	86 108//755757
25 98//755757		56 4/3/758011	758011	87	87 99//755757
26 91//755757		57 8/3/758011	758011	88	88 115//755757
27 11/1/758011		58 5//755766	55766	89	89 6/3/758011
28 7/3/758011		59 7023	59 7023//1050402	06	90 1/2/758011
29 12//1118801		60 56//755786	755786	91	91 1/3/758011
30 7026//1050399		61 3/2/7	3/2/758011	92	2/3/758011
31 7304//1130566		62 1//577478	77478	93	93 3/3/758011

Lot/Section No./ Deposited Plan	9/3/758011	123//755757	34//755757	10//1118781	7303//1130566	18//1118800	19//1118800	22//1118800	11//1118784	14//1118784	13//1118801	14//1118801	15//1118801	24//1118800	9//1118784	12//1118784	101//755757	96//755757	106//755757	78//755757	89//755757	118//755757	82//755757	7001//1028024	7024//1050402	39//755786	125/1755757	80//755757	42//755757	103//755757	7025//1050399
Property ID	64	96	96	26	98	66	100	101	102	103	104	105	106	101	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124

roperty ID	Lot/Section No./ Deposited Plan	Property ID	Lot/Section No./ Deposited Plan	Lot/Section No./ Property ID Deposited Plan
156	156 89//755758	37	94//755758	8 38
157	157 7016//1029387	188 93	188 93//755758	219 5//131546
158	158 7025//1066211	189 70	7020//1030008	220 18//244899
159	159 7014//1029387	190 70	7022//1029388	221 24//755758
160	160 9//655050	191 10	191 102//1079781	222 8//755758
161	161 702//1058325	192 10	192 103//1079781	223 C//349704
162	162 702//1058328	193 70	193 7013//1029386	224 1//119590
163	163 7024//1066211	194 11	111//755758	225 3//131546
164	164 7026//1066212	195 70	7001//1029380	226 45//755758
165	165 704//1030007	196 13	196 13//755758	227 B//349704
166	166 11//755757	197 5/1	197 5//986083	228 1//1072590
167	167 702//1030007	198 17	198 17//244899	229 32/1755758
168	168 2//577478	199 39	39//746912	230 19//244899
169	169 7015//1029387	200 10	200 10//132551	231 14//244899
170	170 54//755786	201 17	201 17//755758	232 110//755758
171	171 7300//1126380	202 2/1	202 2//131546	233 20//244899
172	172 7301//1126380	203 44	203 44//755758	234 4//131546
173	173 7023//1116918	204 28	204 28//755758	235 78/1755758
174	174 7005//1116573	205 37	205 37//746912	236 15/1755758
175	175 7006//1116573	206 25	206 25//755758	237 15//244899
176	176 7024//1116919	207 70	207 7002//1029380	238 41//746912
171	177 7303//1130728	208 A/	208 A//349704	239 55/1755758
178	178 7302//1130590	209 9//	209 9//755758	240 40//746912
179	179 1//864999	210 1//	210 1//346651	241 1//131546
180	180 7004//1029383	211 10	211 107//755758	242 22/1755758
181	181 2//864999	212 36	212 36//755758	243 16//244899
182	182 10//755758	213 16	213 16//755758	244 2//927952
183	183 22//650039	214 41	214 41//755758	245 1//927952
184	184 7035//1117631	215 23	215 23//755758	246 18//1106972
185	185 7033//1116073	216 6//	216 6//131546	247 7010//1021311
186	186 7013//1057515	217 46	217 46//755758	248 1//115443
		,	1	

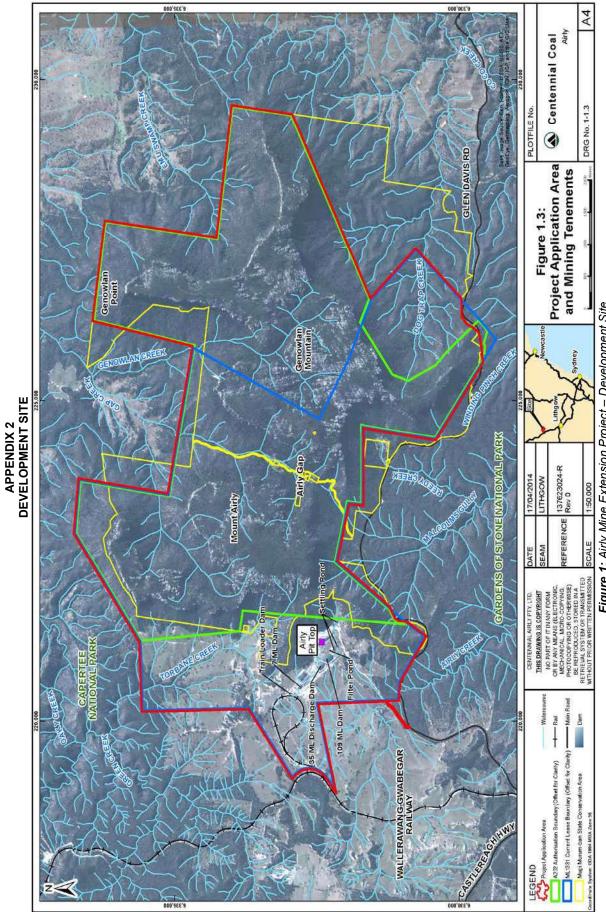
Lot/Section No./ Deposited Plan	7031//116097	7032//1116097	7034//116073	7300//1130282	114//755757	28//755786	10/1/758011	17/2/758011	2/2/758011	15/2/758011	257571/09	6/1/758011	111758011	701//1058328	4/1577478	7018//1030008	71//755758	100//849168	7037//1065193	72//755758	7021//1030009	65//755786	3//577478	7017//1029387	701//1030007	703//1030007	701//1058325	70//755758	7036//1065193	63//755758	2129901112202
Property ID	125	126	121	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155

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Lot/Section No./ Denosited Plan	1//122407	42//755758	112//755758	31//755758	26/1755758	27/1755758	29//755758	30//755758	7019//1030008	82//755758	1//197770	126//722134	7029//1065275	81//755758	153//257075	1 42//755757	7009//1029698	4//755757	67/1755758	17//755757	92//755757	156//722330	102//610704	94//755778	13//244899	86//755757	51//755757	133//755757	85/1755757	603//615881	101//610704
Property ID	9	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279

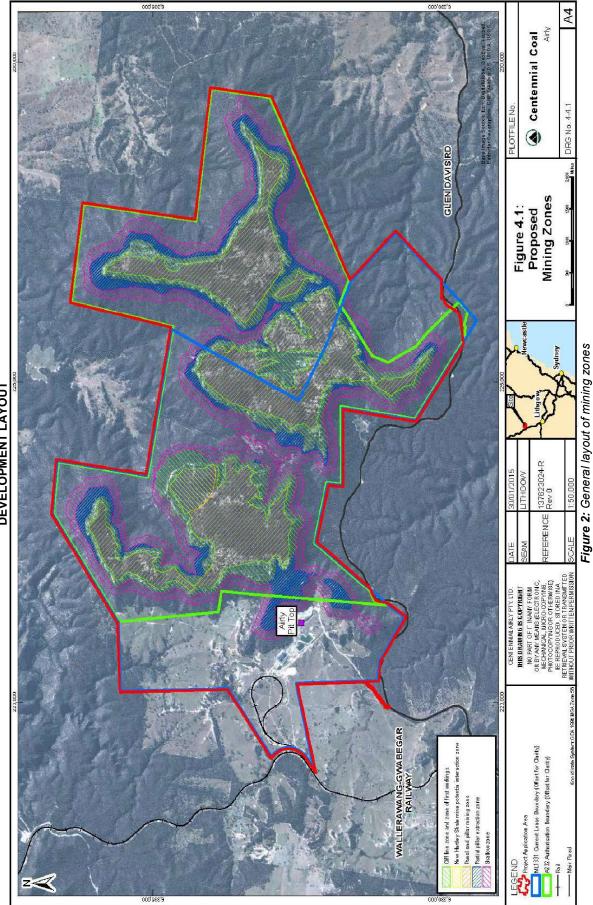
Lot/Section No./ Deposited Plan	185//755778	164//48336	2//132549	2//379339	87//755757	35//755758	231//1012729	159/1722293	77/1755757	1//194534	2//813231	25//665681	601//615881	2//547497	128//755757	1//1070723	54//755757	163//48336	47/1755758	77/1755758	7015//1057714	3//792135	58//755757	1//132549	134//755757	1//564345	10//755757	49//755757	135//755757	75/1755757	211792135
Property ID	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310

Lot/Section No./ Deposited Plan 3//709009	233//1012729	7008//1029698	111//755757	31//755757		4//709009	48//755758	6//665679	79//755758	25//665682		56//755757		3//565109	7003//1056614	232//1012729	1000	59/1755757	129//755757	4//792135	1//831104	1//195875	157/1722330	7012//1056868	15//755757	7028//1029701	7029//1075846	83//755758	70//755757	43/1755757
Property ID 311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341

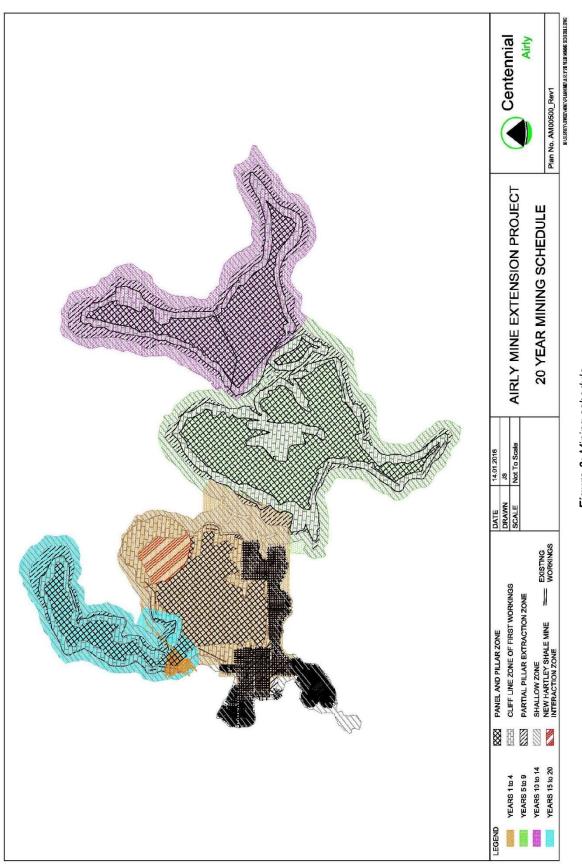
Lot/Section No./ Deposited Plan	7038//1117632	158/1722293	139/1755757	33/1755757	7037//1117633	7036//1117631	137/1755757	13//755757	136/1755757	20//755757	18//755757	27/1755757	41//755757	26//755757	47/1755757	24//755757	20//22222	7002//1058210	7302//1130728	7304//130728	7028//1065275	21//755758	35//755786
Property ID	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364







APPENDIX 3 DEVELOPMENT LAYOUT





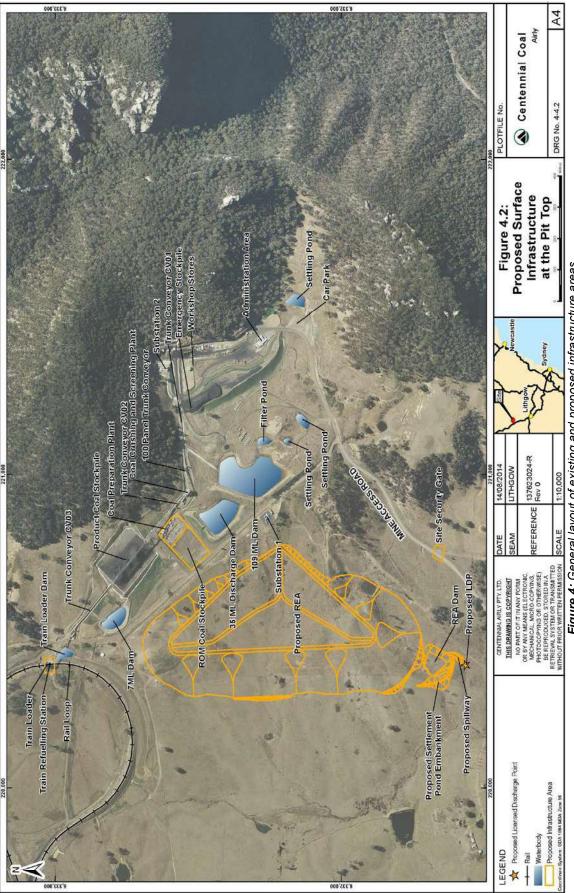
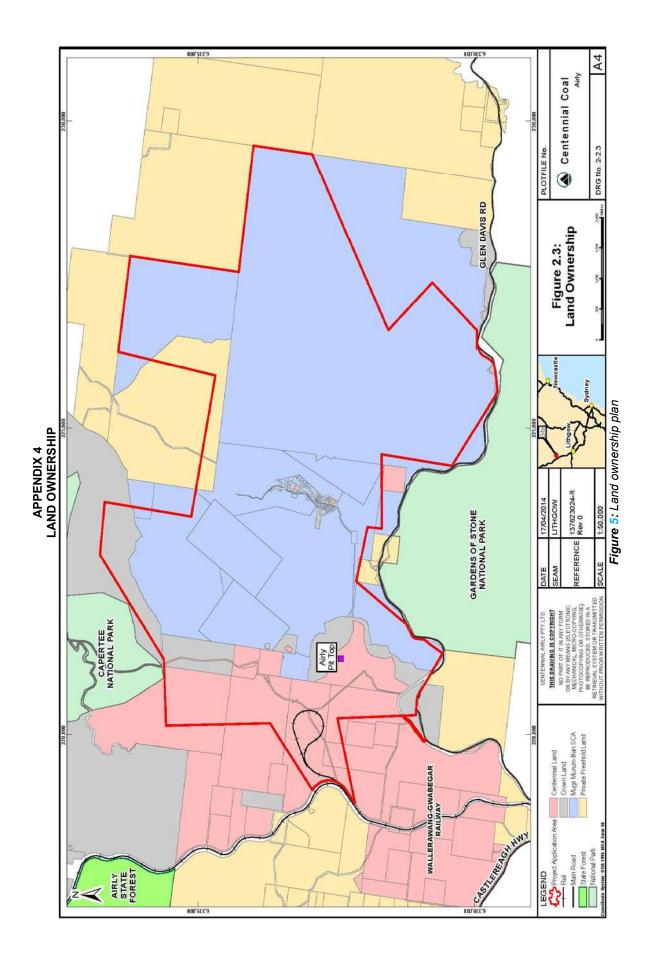


Figure 4: General layout of existing and proposed infrastructure areas



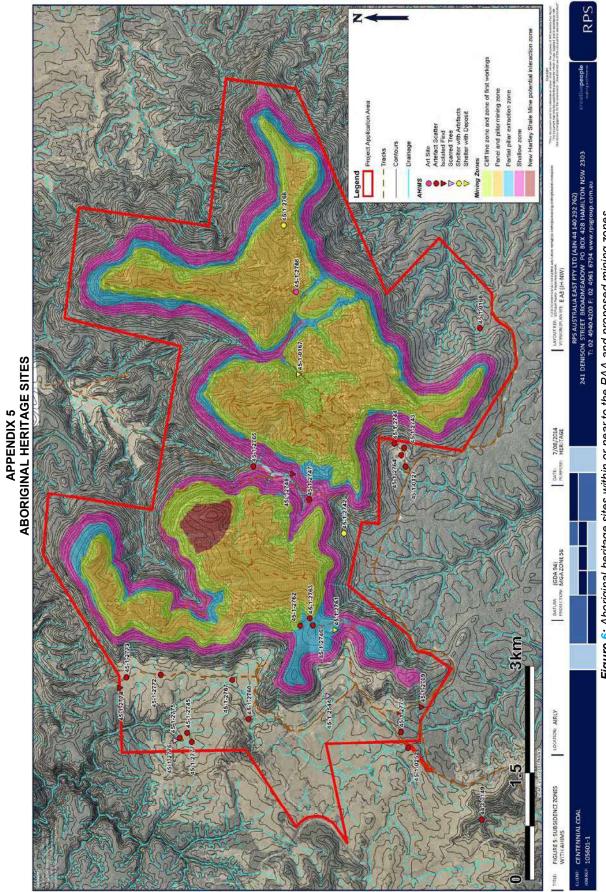
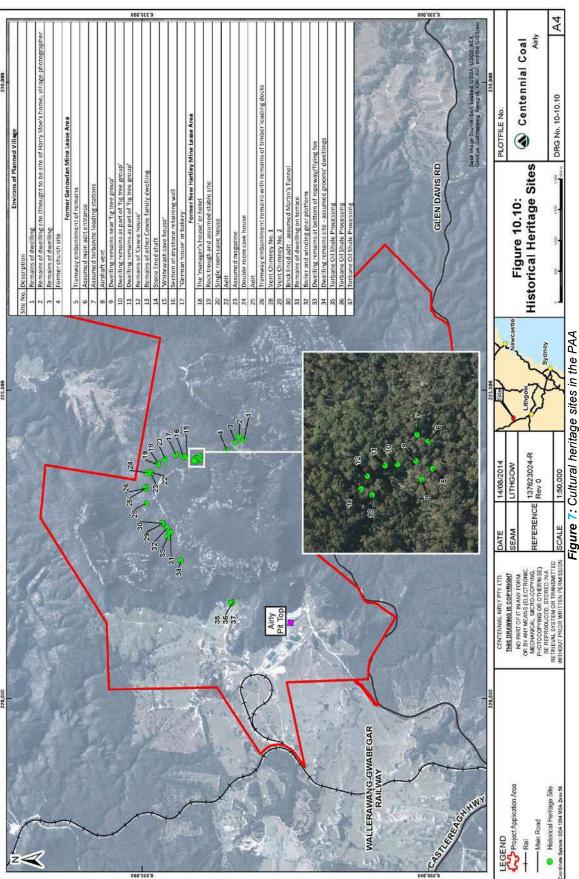
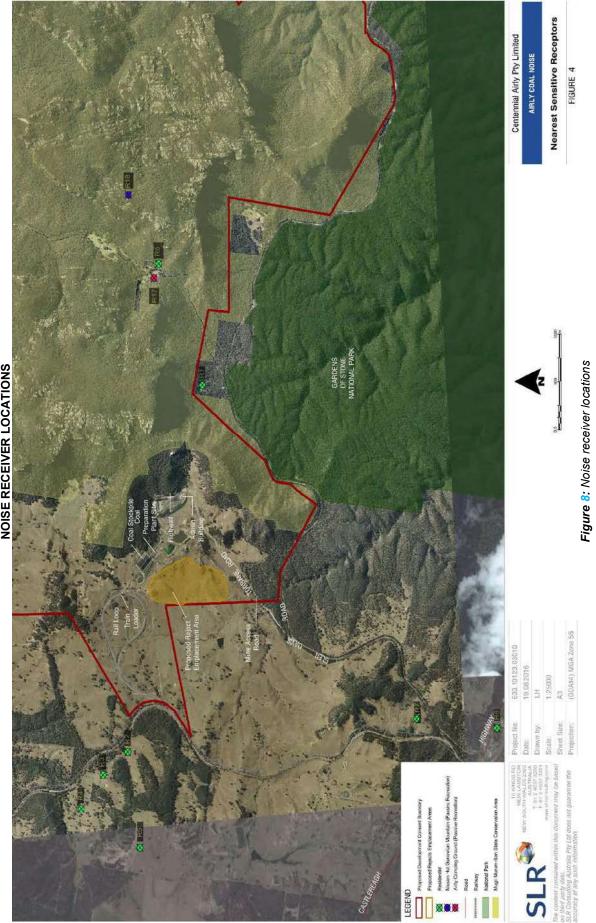


Figure 6: Aboriginal heritage sites within or near to the PAA and proposed mining zones

APPENDIX 6 NON-ABORIGINAL HERITAGE SITES





APPENDIX 7 NOISE RECEIVER LOCATIONS 37

APPENDIX 8 NOISE COMPLIANCE ASSESSMENT

Applicable Meteorological Conditions

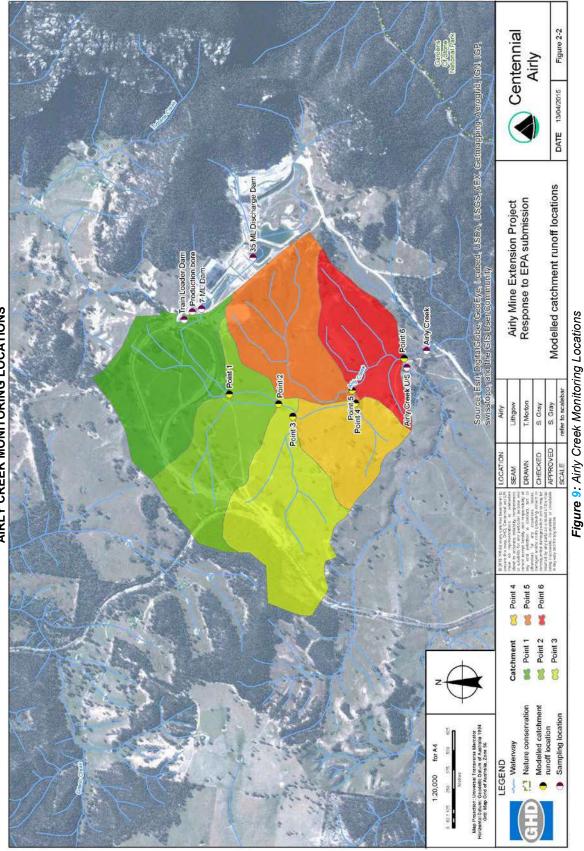
- 1. The noise criteria in Table 4 in Schedule 4 are to apply to a receiver under all meteorological conditions except under:
 - (a) wind speeds greater than 3 m/s at 10 m above ground level; or
 - (b) stability category F temperature inversions and wind speed greater than 2 m/s at 10 m above ground level; or
 - (c) stability category G temperature inversion conditions.

Determination of Meteorological Conditions

2. Except for wind speed at microphone height, the data to be used for determining meteorological conditions must be that recorded by the meteorological station required under condition 8 of Schedule 4.

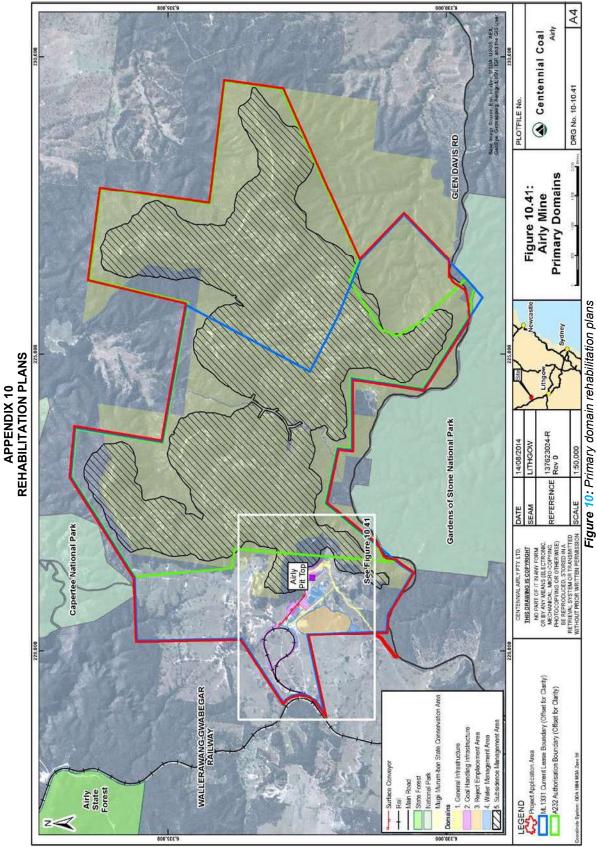
Compliance Monitoring

- 3. Attended monitoring is to be used to evaluate compliance with the relevant conditions of this consent.
- 4. Unless the Secretary agrees otherwise, this monitoring is to be carried out in accordance with the relevant requirements for reviewing performance set out in the *NSW Industrial Noise Policy* (as amended from time to time), in particular the requirements relating to:
 - (a) monitoring locations for the collection of representative noise data;
 - (b) meteorological conditions during which collection of noise data is not appropriate;
 - (c) equipment used to collect noise data, and conformity with Australian Standards relevant to such equipment; and
 - (d) modifications to noise data collected, including for the exclusion of extraneous noise and/or penalties for modifying factors apart from adjustments for duration.



AIRLY CREEK MONITORING LOCATIONS

39



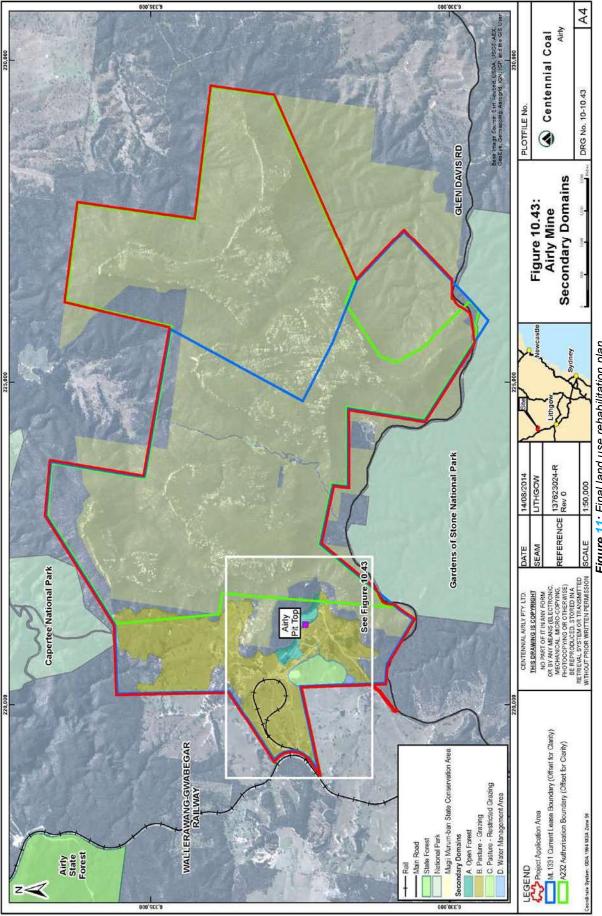


Figure 11: Final land use rehabilitation plan

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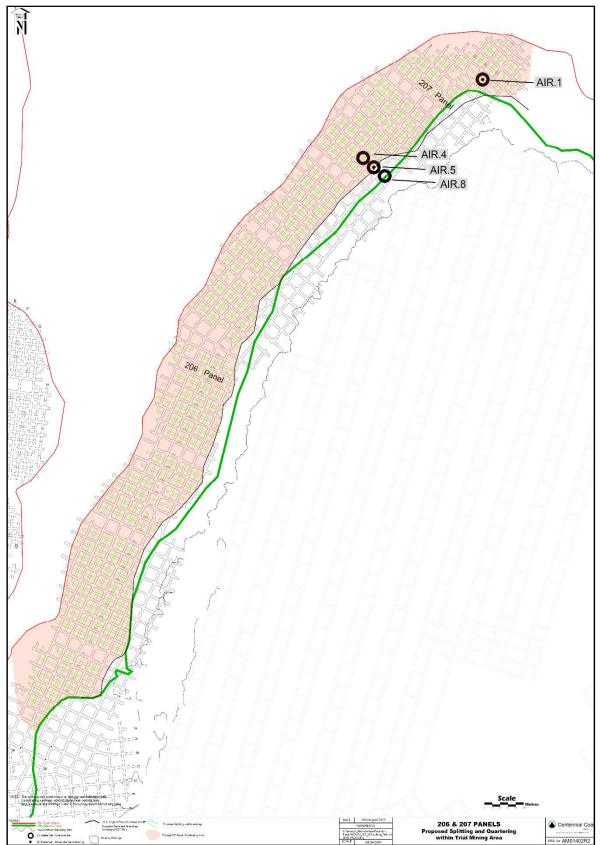


Figure 12: Trial mining area

APPENDIX 12: Water Transfer Route



Figure 13: Rail route for water transfer from Charbon Colliery to Airly Coal Mine