



Centennial Coal



Environmental Management Strategy

Airly Mine

AIR-MP- 2196

July 2018

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1 BACKGROUND

1.1 Introduction

This Environmental Management Strategy has been developed in accordance with Centennial Airly's (Airly Mine) Development Consent (SSD – 5581) as issued by the Planning Assessment Commission (PAC) on 15 December 2016.

Airly Mine operates under an Environmental Management Strategy (EMS) developed to adhere to Centennial Coal's Environmental Policy by promoting environmental awareness and commits to the strategy in the policy designed to minimise the impacts of the operation. Airly Mine accepts and has adopted the Centennial Coal Environmental Policy endorsed by the company's executives. Airly Mines staff recognises the objectives of the Centennial Environmental Policy and aim to achieve the environmental goals.

This EMS applies to all of the Airly Mines employees and contractors associated with the operations at Airly Mine. Suppliers and services providers may operate under their own EMS.

1.2 Project Description

The overall objective of the Environmental Impact Statement for the Airly Mine Extension Project was to obtain approval for the continuation of mining at Airly Mine to produce coal from the Lithgow Seam.

It is not proposed to significantly alter the nature of the existing operations at Airly Mine and will use existing and currently approved operations. Mining methods will vary from those currently approved in order to reduce subsidence impacts to not exceed 125 mm in previously unmined areas, and minimise further potential subsidence in areas where the historical New Hartley Shale Mine has already impacted the environment. SSD 5581 approves Airly to extend the mining operations to the east and build and operate new supporting infrastructure to complement existing facilities.

The EIS for Airly proposed that the operations will:

- in general, include all currently approved operations, facilities and infrastructure of Airly Mine
- continue to extract up to 1.8 Mtpa of ROM coal from the Lithgow seam underlying the Project Application Area using underground mining techniques
- extend the life of mine by 25 years from the date of consent (including rehabilitation)
- continue to extract coal using partial extraction methods within the ML1331, and extend the mining area to the east of the existing workings into the A232 area
- develop underground access roadways from the current mining area to the east to allow access to the proposed mining areas
- use various partial extraction mining methods that will manage subsidence not to exceed 125 mm in previously unmined areas and minimise further potential subsidence impacts in areas where the historical New Hartley Shale Mine has already impacted the environment
- continue to operate and maintain the existing ancillary surface infrastructure for mine access, underground ventilation, electricity, water, materials supply, and communications at the pit top, and upgrade this infrastructure as required for mining operations
- continue to handle ROM coal through a crushing and screening plant at the pit top for transfer to the existing and proposed stockpiles as required to meet market demands

- complete the construction of the coal handling and preparation plant (CHPP) through construction of a Coal Preparation Plant (CPP) and associated overland conveyors, required for the beneficiation of ROM coal
- use the existing and new overland conveyor systems for the transfer of ROM and product coal from the underground to the CPP and coal stockpiles prior to despatch to offsite locations
- construct a life of mine reject emplacement area (REA) for the co-disposal of reject materials from the CPP
- continue to use the existing water storage dams at the pit top to meet operational water demands
- construct an appropriately sized new water management dam for the proposed life of mine REA
- continue to manage non-production waste in accordance with the Airly Mine's Mining Operations plan 2013-2020
- despatch ROM and product coal off site using the existing rail load out facilities for the export and domestic markets
- continue exploration, predominantly borehole drilling, to further refine the existing geological model
- continue to undertake environmental monitoring
- review and update existing environmental management plans as required
- operate 24 hours per day and seven days per week for 52 weeks per year
- provide employment to a full time workforce of up to 135 full time employees and 20 contractors
- progressively rehabilitate exploration boreholes and disturbed areas at the pit top no longer required
- undertake life-of-mine rehabilitation at the pit top disturbance areas to create final landforms commensurate with the surrounding areas.

1.3 Objectives

The purpose of the Environmental Management Strategy is to provide an effective management framework to identify and control potential environmental impacts to achieve compliance with environmental legislation and regulatory requirement applicable to Airly mine under SSD 5581.

This Environmental Management Strategy has been developed to fulfil the requirements of Project Approval SSD 5581 Schedule 5 Condition 1.

S5-C1. 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:

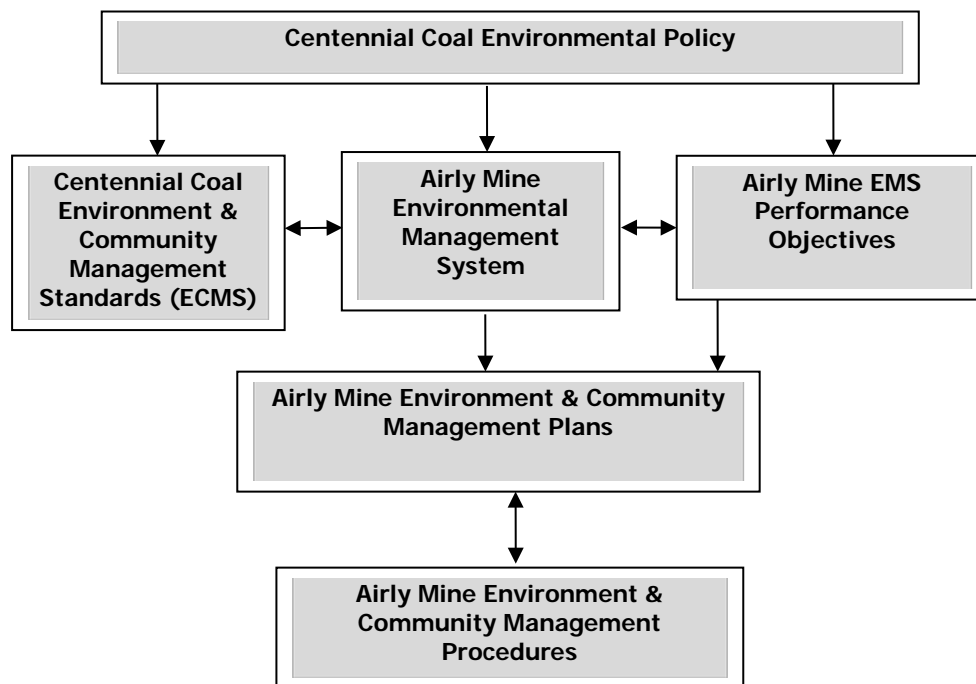
- keep the local community and relevant agencies informed about the operation and environmental performance of the mine;
 - receive, handle, respond to, and record complaints;
 - resolve any disputes that may arise during the course of the development;
 - respond to any non-compliance;
 - respond to 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 required to be carried out in relation to the development.

1.4 Environmental Management Strategy Context

The Airly Mine Environmental Management System incorporates four components (refer to **Figure 1**):

- Environmental Management Strategy Document
- Environment and Community Management Standards
- Environment and Community Management Plans
- Environmental Management Strategy Procedures

Figure 1 - EMS Framework



1.4.1 Environment and Community Management Standards (ECMS)

Centennial Coal has developed and implemented environmental and community standards that are applicable to Airly Mines operations.

1.4.2 Environment and Community Management Plans

Airly Mine has developed Environment and Community Management Plans to facilitate meeting the objectives set in this EMS and to comply with the development consent condition requirements. These programs are outlined in Section 2.4.

1.4.3 Environment Management Strategy Procedures

The EMS Procedures have been developed to ensure that effective environmental and community procedures are implemented and adhered to by personnel conducting activities at Airly Mine.

1.4.4 Relationship with Western Region Management Plans

Centennial is one of the largest underground coal producers in NSW and, as part of Banpu, a member of the largest independent pan-Asian coal group. Centennial's western region operations, located in the Lithgow and Mid-Western Local Government Areas (LGAs), include:

- Airly Mine,
- Angus Place Colliery,
- Clarence Colliery,
- Lidsdale Siding,
- Springvale Mine and
- Western Coal Services.

A 'regional' approach has been adopted by Centennial in the preparation of a number of management plans.

The aims of adopting a regional approach to the management and monitoring of environmental issues include the following:

- Provide consistent and consolidated management measures and procedures across all sites.
- Management of cumulative impacts, rather than focusing on individual operations.
- Rationalise monitoring procedures and locations with consideration of cumulative impacts.

The Western Region Management Plans outline the management and monitoring measures that will be implemented at all operations. Additionally, site specific management and monitoring measures are appended to the Western Region Management Plans where required.

1.5 Environmental Policy

Airly Mine accepts and has adopted the Centennial Coal Environmental Policy which, sets out the Company aims and values applicable to all employees and contractors. The Policy underpins Airly Mines Environmental Management Plans.

The Environmental Policy has been endorsed by the Board of Directors and the Mine Manager and is a commitment from senior management to all of Airly Mines employees.

The Environmental Policy is displayed at the Mine Pit top. The Policy is also available to all Centennial employees through the intranet and available to the public via the Centennial internet site.

The Airly Mine Manager, staff and personnel accept and are committed to fulfilling the EMS to assist in meeting the Policy objectives.

1.6 Approvals and Licensing Requirements

Airly Mine expects that activities at its operations are conducted in accordance with relevant legislation and requirements of statutory authorities. Legislative and regulatory requirements are generally recognised through the imposition of conditions on the development consent, licences or mining approvals.

Airly Mine's operations will be conducted in accordance with applicable State and Commonwealth environmental, planning, and natural resource legislation. Centennial Coal will maintain a register of relevant environmental legislative and regulatory requirements which will be reviewed and maintained.

Airly Mine operates under a number of different approvals including:

- Development Consents and approvals issued by the Department of Planning & Environment (DPE);
- Environmental Protection Licence (EPL) issued by the NSW Environment Protection Authority (EPA);
- A Mining Operations Plan (MOP) approved by the Division of Resources & Energy (DRE);
- Mining leases issued by the DRE; and
- Water Licences and approvals issued by the NSW Department of Primary Industries – Water (DPI Water).

1.6.1 Development Consents

Airly Mine is an existing underground coal mine located in the Western Coalfields, within the Sydney Basin, approximately 40 kilometres (km) north-northwest of Lithgow and approximately 171 km northwest of Sydney. The mine's current consent allows extraction of 1.8 million tonnes of coal per annum for supply to both domestic and international markets by rail. Centennial Airly Pty Limited (Centennial Airly) is the operator of Airly Mine and is a wholly owned subsidiary of Centennial Coal Company Pty Limited (Centennial Coal).

Airly Mine's development consent (DA 162/91) was granted on 14 April 1993 pursuant to Section 101 of the Environmental Planning and Assessment Act 1979 (EP&A Act) and has been subject to two modifications since. This development consent (DA 162/91) expired on 31 January 2017. Development consent was required to ensure Airly Mine is approved for operations beyond this date.

The Airly Mine Extension Project (The Project) is a State Significant Development (SSD) in accordance with Clause 8 and Schedule 1 (Item 5) of State Environmental Planning Policy (State and Regional Development) 2011. Centennial Airly, received Development Consent approval (SSD 5581) in accordance with the provisions of Part 4 Division 4.1 of the EP&A Act on 15 December 2016.

As per Schedule 2 Condition 10 of SSD-5581, 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 consent SSD-5581, the conditions of the SSD-5581 consent must prevail to the extent of any inconsistency with the conditions of those consents and approvals.

In summary the consents in force are:

1.6.1.1 Development Consent SSD-5581 for Airly Mine Extension Project

Development application SSD-5581 was lodged with the DPE in September 2014 and described in the Airly Mine Extension Project Environmental Impact Statement (Golder Associates Pty Ltd, 2014), and the Response to Submissions report (Centennial Coal Company Pty Ltd 2015).

The primary components of the project in brief, include:

- all currently approved operations, facilities and infrastructure of the Airly Mine, except as otherwise indicated in this EIS (Table 4.1)
- extension and continuation of mining for a further 20 years from the date of consent with rehabilitation to be undertaken after this period
- modifications to existing facilities and infrastructure, and construction and operation of new facilities and infrastructure, within the Project Application Area that are required to support the Project.

The Development Consent (SSD-5581) conditions provide detail of the matters which will be included in this Environmental Management Strategy. These matters are set out in **Table 1** below, together with the notation of the section of this document in which each matter is addressed.

Table 1 - Development Consent Conditions SSD-5144

Development Consent Condition	Section Addressed
S5-C1. 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:	This document
(a) be submitted to the Secretary for approval, unless otherwise agreed;	Document Control
(b) provide the strategic framework for environmental management of the development;	Section 1.4
(c) identify the statutory approvals that apply to the development;	Section 1.6
(d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development;	Section 4.1
(e) describe the procedures that would be implemented to: <ul style="list-style-type: none"> ▪ 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; and ▪ respond to emergencies; and 	<p>Section 4.2</p> <p>Section 2.5.2.4 Section 2.5.2.5.</p> <p>Section 5.2 Section 3.2</p>
(f) include: <ul style="list-style-type: none"> ▪ copies of any strategies, plans and programs approved under the conditions of this consent; and ▪ a clear plan depicting all the monitoring required to be carried out carried out in relation to the development. 	<p>Section 3.1</p> <p>Section 2.4</p>

1.6.1.2 Development Consent DA 162/91 for Airly Mine

Airly Mine's development consent (DA 162/91) was granted on 14 April 1993 pursuant to Section 101 of the Environmental Planning and Assessment Act 1979 (EP&A Act) and has been subject to six modifications since. This development consent (DA 162/91) expired on 31 January 2017.

As per Schedule 2 Condition 10 of SSD-5581, 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.

1.6.2 Other Approvals

The surface holdings at the Airly Mine are licensed for the scheduled activities of coal works & mining for coal under the Protection of the Environment Operations Act (2005) in Environmental Protection Licence EPL 12374.

1.6.3 Authorisations and Exploration Licences

Airly Mine holding comprises a number of licences and leases. Table 2 sets out the licences and leases within the Mine's Holding Boundary.

Airly Mine has a Mining Operations Plan (MOP) approved by the NSW Department of Trade and Investment – Division of Resources and Energy (DRE) until 28 February 2017. The MOP was prepared to satisfy conditions of the various mining leases covered by the MOP and prepared with reference to the Mining Operations Plan (MOP) Guidelines September 2013 (DRE, 2013).

Table 2 – Airly Mine Development Consent, Mining and Exploration Leases and Licences

Name	Description	Grant Date	Expiry Date
Mining Lease (ML) 1331	Mining lease area of approx 2745 hectares.	8/05/2014	20/10/2035
Authorisation (A) 232	Exploration Licence. Exploration area of approx 3054 hectares.	21/5/2015	20/10/2019
Development Consent SSD 5581	Permits development and works to occur as described in the EIS.	15/12/2016	15/12/2036
Development Consent DA 162/91 MOD 6	Underground mine development to extract 1.8 million tonnes per annum	14/4/1993	31/1/2017
Mining Operations Plan 2014 – Ext 2017	Summary of Mining Activities at Airly Mine	14/3/2014	31/12/2017
Environment Protection Licence 12374	Permits scheduled activities of “coal works” and “mining for coal” and discharge of water through licenced discharge points.	12/12/2005	Renewed Annually
10BL604518	Water Monitoring Bore ARP01	14/02/2011	Perpetuity
10BL604520	Water Monitoring Bore ARP02A & ARP03A	14/02/2011	Perpetuity
10BL604521	Water Monitoring Bore ARP04 & ARP05	14/02/2011	Perpetuity
10BL605352	Water Monitoring Bore ARP06, ARP07, ARP08 & ARP09	28/03/2013	Perpetuity

Name	Description	Grant Date	Expiry Date
10BL605794	Water Monitoring Bore ARP11	19/08/2016	Perpetuity
10BL605793	Water Monitoring Bore ARP12, ARP13, ARP13SP, ARP14, ARP15 & ARP15SP	17/08/2016	Perpetuity
WAL 24386	Water Access Licence Extract 158ML per annum	1/9/2014	Perpetuity
WAL 36565	Water Access Licence Extract 120ML per annum	11/2/2014	Perpetuity

2 IMPLEMENTATION

Airly Mine will implement the Centennial Coal Environmental Policy and the EMS by providing effective and adequate resources (human resources, technology and financial resources) and support mechanisms. To facilitate in the implementation of the EMS, position responsibilities as described in **Section 4.1** have been nominated for employees including the site management, staff and workforce.

2.1 Consultation

Airly Mine will consult with employees and contractors when a decision is to be made that may affect a person's health, safety or welfare and the environment. Examples of situations requiring consultation include, but are not limited to:

- Changes to work environments, work methods, work systems, equipment or substances;
- Undertaking, or reviewing risk assessments and implementing controls;
- Investigating incidents;
- Determining environmental training needs;
- Developing a scope of work; and
- Undertaking projects that require a designated project manager.

2.1.1 Information and Communication

In accordance with SSD-5581 Schedule 6 Condition 1 this Environmental Management Strategy will be developed to the satisfaction of the Secretary and submitted to the Secretary for Approval.

This Environmental Management Strategy is also to be made publicly available on the Centennial Coal website in accordance with Schedule 6 Condition 14(a) of the Development Consent SSD-5581.

2.1.2 Health Safety Environment and Community Committee

The Health and Safety, Environment and Community Committee (HSEC) meet on a quarterly basis to oversee the safety and environmental performance of Airly Mine. HSEC committee members are encouraged to communicate environmental messages, issues, concerns and performance to the employees at the operations.

2.1.3 Employees and Contractors

Shift and team briefings provide the opportunity for discussion with individuals on matters that may be of concern to them. They will be able to voice concerns regarding environmental matters during these briefings.

2.1.4 External Providers

External providers will receive relevant information which will have an influence on their organisation / personnel through their contact or supervisor at Airly Mine. If further information is required to perform a task it will be provided on request. All relevant information regarding health, safety and environment will be provided prior to work commencement.

2.2 Risk Assessment

Airly Mine has adopted the Stature Risk Assessment Program which was developed to ensure consistency in all risk assessments across the Centennial Coal operations. The Stature Risk Assessment Program sets out an environmental consequences table and risk ranking matrix for managing identified risks.

Airly Mine will conduct an annual operational risk assessment to assess the environmental aspects and impacts of the operations and to meet the requirements of the Environmental Management Strategy.

This assessment considers the operational activities of Airly Mine, identifies the potential environmental hazards associated with the activity and assesses the potential risk posed by that hazard. As part of the Division of Resources & Energy requirements and Airly Mine's due diligence, commitments are made for reducing unacceptable risks.

Generally the significant environmental elements considered are:

- Land management;
- Water management;
- Groundwater management;
- Air quality management;
- Noise and vibration management;
- Cultural heritage management;
- Community impacts;
- Subsidence management; and
- Flora, fauna and biodiversity management.

All operational processes undertaken at the Airly Mine operations are subject to the risk assessment process prior to implementation. Potential environmental impacts are considered as part of all risk assessments utilising the Stature Risk Assessment Program.

2.2.1 Risk Management / Hazard Identification

Environmental management at Airly Mine's operations is regulated by the licences, leases and approvals as shown in **Section 1.6**. Additionally, this Airly Mine Environmental Management Strategy provides a framework under which environmental issues are managed on site.

The Environmental Management Strategy has been developed and implemented to ensure the effective management of environmental issues and compliance with all regulatory requirements while providing a means for continued improvement in the environmental performance of Airly Mine. The Environmental Management Strategy incorporates a number of environmental management plans that are designed to assist in meeting community and regulatory expectations. Airly Mine already has in place, or is currently developing the following management plans as outlined in **Table 3** and illustrated in **Appendix 1**.

Table 3 – EMS Management Plans

Management Plan	SSD-5144 Schedule-Condition
Extraction Plan and associated management plans	S3-7
Noise Management Plan	S4-4
Air Quality Management Plan	S4-7
Water Management Plan	S4-15
Site Water Balance	
Surface Water Management Plan	
Groundwater Management Plan	
Biodiversity Management Plan	S4-17
Traffic Management Plan	S4-19
Heritage Management Plan	S4-21
Exploration Activities and Minor Surface Infrastructure Management Plan	S4-26
Rehabilitation Management Plan	S4-29

2.3 Environmental Management Activities and Controls

2.3.1 EMS Performance Objectives

Table 4 lists the overall objectives and performance outcomes during construction and Mining of Airly Mine's operations and the management plans developed to manage these key environmental elements.

Centennial will implement the management plans outlined in **Table 4** to ensure that there are no exceedances of the performance measures or criteria outlined in Schedule 3 and 4 of Development Consent SSD 5581.

Table 4 - EMS Performance Objectives

Key Environmental Element	Objective	Performance Outcomes	Management Plan
Noise	<p>Ensure all relevant statutory requirements and standards are met.</p> <p>Manage and minimise the impact of noise from Airly Mines operations on nearby residences.</p> <p>Maintain an effective response mechanism to deal with issues and complaints.</p>	<p>Comply with the applicable noise criteria in the Development Consent.</p> <p>Nil noise complaints.</p>	Centennial Western Region Noise Management Plan
Air Quality / Dust	<p>Ensure all relevant statutory requirements and standards are met.</p> <p>Manage and minimise the impact of dust from mining operations on the environment and nearby residences.</p> <p>Maintain acceptable levels of amenity for surrounding residents.</p> <p>Maintain an effective response mechanism to deal with issues and complaints.</p>	<p>Comply with the applicable air quality criteria in the Development Consent.</p> <p>Nil air quality complaints.</p>	Centennial Western Region Air Quality & Greenhouse Gas Management Plan

Key Environmental Element	Objective	Performance Outcomes	Management Plan
Surface Water	<p>Maximise the separation of clean and dirty water systems.</p> <p>Manage water discharge from site, in terms of volume and quality, to a level that is acceptable for environmental management and community expectations.</p> <p>Minimise water discharges from the premises by maximising, where practicable, opportunities for the reuse and recycling of water on site.</p> <p>Minimise discharges of dirty water from the premises.</p> <p>Manage discharge to natural waterways in accordance with the EPL 12374 conditions or as agreed with the EPA.</p>	<p>Comply with the applicable water discharge criteria in the Development Consent & EPL 12374.</p> <p>Nil water discharge complaints.</p>	Water Management Plan
Groundwater	To monitor and manage groundwater quality and levels to detect potential impacts on surrounding groundwater users and to ensure that relevant legislative and policy requirements are met.	Comply with the applicable conditions relevant to groundwater monitoring, management and extraction in the Development Consent & DPI Water groundwater monitoring & extraction licences.	Water Management Plan (Groundwater Management Plan)
Biodiversity / Flora & Fauna	<p>Minimise the impact of subsidence on all flora and fauna, including those species or habitats listed as endangered or threatened.</p> <p>Habitat areas and threatened flora and fauna across the mining area of impact are identified and monitoring is established prior to any disturbance where appropriate.</p> <p>Procedures are in place and appropriate training provided for personnel involved in subsidence repair works.</p>	<p>Comply with the applicable conditions relevant to flora and fauna in the Development Consent.</p> <p>Nil flora & fauna disturbance complaints</p>	<p>Biodiversity Management Plan</p> <p>Extraction Plan</p>

Key Environmental Element	Objective	Performance Outcomes	Management Plan
Land Management	<p>No greater impacts or environmental consequences than predicted in the EIS.</p> <p>Minimise the impact of subsidence identified natural features.</p>	<p>Comply with the applicable conditions relevant to Natural Features in the Development Consent and Extraction Plan approvals.</p>	Extraction Plan – Land Management Plan
Cultural Heritage	<p>Identify and control potential impacts on culturally significant items associated with works completed by Airly Mine.</p> <p>Comply with cultural heritage legislation and regulatory requirements applicable to Airly Mine.</p>	<p>Comply with the applicable conditions relevant to cultural heritage in the Development Consent.</p> <p>Minimise impact to cultural heritage items of significance.</p>	<p>Centennial Western Region Aboriginal Cultural Heritage Management Plan</p> <p>Centennial Western Region Historic Heritage Management Plan</p>
Subsidence	<p>To anticipate and monitor the effects of mining so as to prevent adverse impacts on surface improvements and natural features.</p> <p>Where potential unacceptable impacts are identified, provide measures to mitigate or remediate.</p>	<p>Comply with the applicable conditions relevant to subsidence management in the Development Consent and Extraction Plan approvals.</p>	Extraction Plan & sub plans

2.4 Environmental Monitoring Plans

A diagram showing the environmental management plans for Airly Mine included in **Appendix 1**.

2.5 Communication

2.5.1 Internal Communication

Key avenues for internal communication on environment and community issues are mainly through meetings. Additionally, Airly Mine has the following methods of communication with the workforce and employees.

2.5.1.1 Display

Displays at Airly Mine include noticeboards, work orders, electronic communication, report books and daily diaries.

2.5.1.2 Toolbox Talks

Any major environmental incidents and information will be communicated to the whole workforce via toolbox talks.

2.5.1.3 Intranet

Environmental incidents will be communicated via the intranet in the form of a HSEC alert. Other information which will be communicated on Lotus Notes includes good news stories, newsletters and articles in newspapers.

2.5.1.4 Briefings

Contractors are given information on health, safety and environmental issues in the induction prior to work commencing onsite. All contractors are managed in accordance with the Airly Mine Contractor Management Plan. Where relevant, further information will be given to the contractor prior to work commencement to ensure that they are properly informed of the issues regarding the task they are to perform.

2.5.1.5 Signage

Where it is deemed necessary, relevant signage may be used as a form of communication to the workforce and community. This may be used in instances such as environment and safety notices and for the location of equipment and for providing directions in the event of an environmental emergency.

2.5.2 External Communication

2.5.2.1 Media

External communication with the media will be conducted in accordance with the Centennial Coal “Management Standard 14 – Stakeholder Engagement”. In the event of a media enquiry all contact will be forwarded to the Group Manager – External Affairs, who is authorised to speak on behalf of the company to the Media.

2.5.2.2 Stakeholder Engagement

Airly Mine will communicate to relevant stakeholders on the relevant environmental and community aspects. Airly Mine maintains communication with external stakeholders on Airly Mines operations and progress with environmental and community programs through identified forums and via various communication mechanisms.

Details of relevant engagement with external stakeholders will be recorded in Environment & Community Database.

2.5.2.3 Community Consultative Committee (CCC)

The Airly Mine Community Consultative Committee (CCC) has been established in accordance with Development Consent SSD_5581 Schedule 6 Condition 8 to formalise consultation with the community and to build effective relationships with nominated committee and community members. The Airly Mine CCC has been established generally in accordance with the Centennial Coal guideline *E&CG-01 Community Consultative Committee Guideline* and the NSW Department of Planning, *Guidelines for Establishing and Operating Community Consultative Committees for Mining Projects* (NSW Planning, 2007).

The CCC provides a forum for community members to discuss environmental and community aspects of the operations by having these on the agenda and for Airly mine to provide information or updates to the community on these aspects. Regular meetings of the Airly Mine CCC are typically held with additional meetings available at the discretion of the Chairperson. Agenda items generally consist of, but are not limited to, confirmation of previous meeting minutes, an update on operations, subsidence and environmental monitoring results, mine planning approvals, community consultation and general business.

Meeting minutes of the Community Consultative Committee will be placed on the Centennial Airly website in accordance with Schedule 6 Condition 14.

2.5.2.4 Community Complaints and Enquiries

Airly Mine will operate a telephone complaints line in accordance with EPL12374 Condition M5, and will advertise the community information line ((02) 6359 2100) as a minimum in the local phone directory and may also consider advertising the number through local media or on newsletters. For the regional community and stakeholders an e-mail feedback link (info.airly@centennialcoal.com.au) is available on Centennial's web page for the community or stakeholders to register concerns or comments.

Airly Mine will respond to any registered community enquiries or complaints received as described in the complaints procedure in AIR-TL-2033 Airly Mine Community Concern/Complaint Register, Attachment 4 of AIR-MP-2100 Airly Mine Pollution Incident Response Management Plan. It is the responsibility of the Environment & Community Coordinator to record any community complaints / enquiries received and to investigate the nature of the complaint / enquiry. Complaints will be recorded and maintained in accordance with EPL12374 Condition M4.

A community complaints register is located on the Centennial website and is updated monthly. Personal information of the complainant will not be released. The complaints procedure is described in AIR-TL-2033 Airly Mine Community Concern/Complaint Register, Attachment 4 of AIR-MP-2100 Airly Mine Pollution Incident Response Management Plan.

Complaints will be followed up by the supervisor or Environment & Community Coordinator as soon as the outcomes of the investigation have been completed.

2.5.2.5 Dispute Resolution

If a dispute with an owner of a privately owned land is unable to be resolved by Airly Mine regarding exceeding a relevant criteria detailed in SSD 5581 Schedule 4, then Airly Mine may ask the resident to contact the Secretary in writing for an Independent review in accordance with Schedule 5 Condition 2.

S5-C2 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.*

2.5.2.6 Media Releases

Environmental matters that are of significance may be published in the local newspaper.

3 MONITORING AND RESPONSE

Environmental Monitoring at Airly Mine is undertaken in accordance with the Environmental Protection Licence (12374), Development Consent (SSD_5581), Extraction Plan approval conditions, Groundwater Monitoring & Extraction Licence conditions and requirements outlined in Environmental Management Plans at Airly Mine.

Records of all environmental monitoring and results which are undertaken in accordance with Environmental Management Plans will be kept onsite for a minimum of 4 years in accordance with condition M1.2 of EPL 12374.

3.1 Environmental Monitoring

Compliance against the Environmental Protection Licence and Development Consent will be assessed on a monthly basis and non-compliances entered into ECD to document these in the monthly environmental and operations report.

A summary of monitoring results required by the EPL and the Development Consent will also be made available on the Centennial Coal website in accordance with the Development Consent (as detailed in the management plans) and the requirements under the *Protection of the Environment Operations Act 1997*.

Airly Mine will monitor the social impacts of its operations by recording and trending complaints over time by entering these in ECD and reviewing the nature of complaints on a monthly basis. This will assist in determining any additional controls or management strategies required to limit any social or environmental impacts.

3.1.1 Inspections

Environmental inspections will be undertaken weekly and will include inspections of the surface areas. Any non-conformances identified will be investigated, reported in ECD and rectified accordingly.

3.1.2 Compliance Monitoring

Airly Mine has adopted the Centennial Coal Compliance Database which is used as the primary tool for tracking compliance with the Development Consent conditions, Licences, Leases and mining approvals. The Compliance Database lists the Conditions of Consent, EPL conditions, Exploration Licence conditions, Mining Lease conditions, Consolidated Coal Lease conditions, SMP conditions and Groundwater Monitoring & Extraction Licence conditions.

The Compliance Database also identifies responsible personnel, to whom tasks are allocated to ensure compliance with the conditions, including dates for actions to be completed. Information including evidence of compliance will be indicated alongside each requirement and reminders are set to notify the responsible person of actions that require completion. The Database is updated on an as needs basis (for example: when new approvals are received).

3.1.3 Compliance with Consent Conditions

The Development Consent Conditions for Airly Mine provide methods for monitoring compliance. These include:

- Annual Review (Schedule 6 Condition 11); and

- Independent Environmental Audit (Schedule 6 Condition 12);

The Annual Review and the Independent Environmental Audit will be made available on the Centennial Coal website once completed as required by Schedule 6 Condition 14.

3.2 Emergency Contacts and Response

3.2.1 External Incident Reporting

External incident reporting will be completed as per Schedule 6 Condition 9 of SSD 5581 and the Pollution Incident Response Management Plan (PIRMP). The specific requirements for a PIRMP are set out in Part 5.7A of the POEO Act and the Protection of the Environment Operations (General) Regulation 2009 (POEO (G) Regulation). This plan is a public document and is available on the Centennial Coal website.

External reporting of pollution incidents is to be undertaken in accordance with the Centennial Coal Management Standard-012 External Environmental Reporting.

After becoming aware of a pollution incident which causes or threatens to cause material harm to the environment, the pollution incident **must be verbally reported immediately** in accordance with the POEO Act. Written notification of a pollution incident must be provided within 7 days of the incident as per licence and Schedule 6 Condition 9 of Development Consent SSD 5581

This external reporting must be undertaken by the Mine Manager or the Environment & Community Coordinator.

The following authorities are to be notified:

- Environment Protection Authority, by telephoning the Environment Line on 131 555;
- Ministry of Health on (02) 9840 3603
- WorkCover on 13 10 50
- Lithgow City Council – (02) 6354 9999
- Fire and Rescue NSW on 1300 729 579
- The Department of Planning and Environment – (02) 4224 9478

Department of Trade & Investment – Division of Resources & Energy (DRE) are to be verbally notified, as per DRE Environmental Incident Reporting Requirements (2007), within 24 hours of becoming aware of the incident.

- DRE – (02) 4222 8327.

The following agencies may also be notified depending on the circumstances of the pollution incident:

- DPI Water – (02) 8838 7520.

Communication with the local community may also be undertaken depending on the circumstances of the pollution incident. Airly Mine would consider the following options for providing information to the community on pollution incidents:

- Direct phone contact with any local residents impacted by the pollution incident;
- Letter box drops to any local residents impacted by the pollution incident;

- The inclusion of information in local newspapers or within the Airly Mine newsletter; and
- Providing information and updates to the Airly Mine Community Consultative Committee (CCC).

4 ENVIRONMENTAL MANAGEMENT

4.1 Structure and Responsibility

As required by ISO14001, The **Group Environmental Manager** has the responsibility and appropriate authority to:

- a) ensure that environmental management system requirements are established, implemented and maintained generally in accordance with ISO14001;
- b) report on the performance of the EMS to senior management for review and as a basis for improvement of the system;
- c) update personnel on changes in environmental legislation, policy and guidelines and to notify Airly Mines management and other relevant staff of changes that may significantly affect the operations.

4.1.1 Position Responsibilities

Each employee and contractor is responsible for adhering to the Centennial Coal Environmental Policy. Whilst the obligation of complying with the Environmental Policy lies with the entire workforce, further environmental management responsibilities that are considered as a part of the normal functioning of some positions relevant to the EMS are described as follows:

Mine Manager

- Authorisation of the EMS;
- Authorisation of this strategy;
- Reporting of significant environmental incidents to external stakeholders as required;
- Promoting compliance with the Environmental Policy and fulfilling relevant requirements of the EMS;
- Compliance with the conditions of EPL 12374 and Development Consents.
- Delegation of resources to ensure environmental risk mitigation strategies are implemented; and
- Delegation of duties during the absence of the Environment & Community Coordinator.

Environment & Community Coordinator

- Compliance with the Centennial Environmental Policy;
- Reporting of environmental incidents to the Mine Manager, and as required to external stakeholders;
- Development and implementation of environmental strategies, plans, and procedures;
- Regulatory and community consultation;
- Establishment of a CCC and reporting issues or matters to Mine Manager;
- Record, investigate and respond to community complaints and develop corrective actions to respond
- Registration of community complaints and regulatory liaison in the Environment & Community Database (ECD);
- Development and implementation of environmental work procedures;
- Development and implementation of environmental training and inductions;
- Auditing the effectiveness of the EMS; and

- Compliance with all licences and approvals for environmental management of the site.
- Monitoring and auditing in accordance with approvals and management plans;

Employees and Contractors

- Compliance with the Centennial Environmental Policy, standards and procedures;
- Immediately reporting of environmental incidents and community complaints or enquiries to the Environment & Community Coordinator;
- Conducting operations in compliance with the Centennial environmental management plans and procedures; and
- Identifying and implementing appropriate controls for environmental risks from any risk assessments and job safety analysis and communicating these with responsible staff.

Health, Safety, Environment & Community Committee

- Promoting environmental awareness within the workforce and contractors; and
- Raising environmental issues and programs that will improve compliance with the Environmental Policy, standards and procedures at committee meetings for appropriate staff to consider.

Delegation of roles or responsibilities may be determined by the Mine Manager at any time.

4.2 Reporting

4.2.1 Annual Review

The Annual Review required under Schedule 6 Condition 11 of the Development Consent (SSD-5581) will be completed in accordance with the *Annual Review Guideline* (DPE, 2015).

The Annual Review will include information on the monitoring conducted during the reporting year, any non-conformances and complaints received. This report is made available on the Centennial Coal website in accordance with Schedule 6 Condition 14.

4.2.2 Annual Return

An annual return stating the sites compliance with the conditions of EPL 12374 is completed and submitted to the EPA on an annual basis. This is done in compliance with the EPL conditions and by the due date as stated in the EPL.

4.2.3 Monthly Website Environmental Monitoring Report

A monitoring report is published on the website to satisfy the requirements under the Protection of the Environment Legislation Amendment Act 2011 (POELA Act) to publish or make pollution monitoring data available to members of the public. The monthly publishing of this document also satisfies Schedule 6 Condition 14 of Development Consent SSD-5581.

4.2.4 Community Consultative Committee

The Community Consultative Committee (CCC) meets on a quarterly basis. Some of the information reported at the CCC includes:

- Progress at the mine — operational issues;

- Monitoring and environmental performance; and
- Community complaints and the response to complaints.

4.3 Environmental Training

Airly Mine will progress implementation of the Environmental Management System and the Environmental Policy by training employees and contractors in relevant areas on the Environmental Management System. Environmental and community training may include, but need not be limited to:

- Induction training;
- Environmental and community awareness training;
- Toolbox training; and
- Other specific training as required (for example environment spill control and management).

4.3.1 Induction Training

All Airly Mine employees and contractors will be inducted prior to commencing work on site. The environmental component of the new employees' induction will include:

- The importance of Centennial's Environmental Policy;
- Regulatory requirements;
- Overview of framework of Centennial's EMS;
- Roles and responsibilities;
- Significant environmental aspects, impacts and consequences; and
- Environmental procedures.

Additionally, site specific issues are incorporated into the new employee and contractor site inductions and the competency of inducted personnel assessed.

Visitors to Airly Mine operations will undertake a brief visitor induction, with an awareness section on key environment components.

4.3.2 Environment and Community Awareness Training

Environment and community awareness training will provide relevant knowledge and skills to manage environment and community issues within an individual's area of responsibility including the following:

- Describing the Environmental Policy and environmental expectations of Airly Mine;
- Eliminate practices that may result in poor environmental performance by building the environmental capacity of employees;
- Improve application of existing procedures to improve environmental performance;
- Highlight individual/job role responsibility;
- Improve environmental decision making and problem solving skills; and
- Reduce environmental risk.

Airly Mine will undertake regular environmental awareness training. Site activities and performance will influence the frequency of training, but as a minimum, refresher training for key personnel

including Management will be undertaken every three years. This training will be competency based and consider the following:

- Airly Mines environment and community context;
- Overview of role and framework of Centennial's EMS;
- Relevant legislation;
- Significant environment and community risks associated with Airly Mines operations; and
- Community relations.

4.3.3 Targeted Environmental Training

Targeted environmental training of key staff, workforce and contractors in environmental procedures and programs will also be conducted as specified but not limited to the Airly Mine business plan. Specific environmental training may be delivered in the form of toolbox talks, training and assessment packages and accredited training programs to update personnel on the Airly Mine procedures and environmental programs.

4.3.4 Environmental Training Competence

The Airly Mine induction and environmental awareness training incorporates a section to assess the competency of employees and contractors against environmental requirements.

4.4 EMS Integration

This EMS framework document and the accompanying Management Plans and Procedures are part of the Airly Mine management system. Compliance with the system's requirements is an expectation of all employees of Airly Mine.

4.5 Continual Improvement

Continual improvement will be achieved through monitoring, internal and external communication with stakeholders, implementation of corrective and preventative actions and through monitoring progress against the objectives included in the environmental management plans.

5 REVIEW

5.1 Environmental Auditing

Audits will provide an assessment of the implementation of the EMS, compliance with ISO 14001, the Environmental Policy and the EMS objectives. They also allow for continual improvement and resource allocation.

The objectives of an audit are to:

- Identify compliance with the statutory requirements;
- To identify opportunities for improvement in the strategy.

External audits of the implementation of and compliance with the strategy will be conducted in accordance with Development Consent Schedule 6 Condition 12.

5.2 Corrective Action

Development related risks will be managed to ensure that the criteria outlined in Schedule 3 and 4 of Development Consent SSD 5581 are not exceeded.

Notwithstanding this, non-compliances may become evident as a result of inspections, monitoring, through audit findings or complaints. In accordance with the requirements of Schedule 6 Condition 7 of Development Consent SSD 5581, where any exceedance or non-compliance has been identified it will be investigated and the following undertaken 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.

The implementation of corrective actions will be monitored and documented using ECD and reported in the monthly environmental performance report.

A non-compliance will be reported internally and externally to the relevant authorities as per the *Centennial Coal Management Standard 012 External Environmental Reporting* and in accordance with the Pollution Incident Response Management Plan. A record of all non-compliance reporting is to be maintained in the Environment and Community Database as well as reported in the Annual Review.

A non-compliance will be investigated as per the Accident / Incident Investigation procedure in the Airly Mines Health and Safety Management System (HSMS). A record of all non-compliance investigations will be maintained in the ECD.

5.3 EMS Review

Revisions of the Environmental Management Strategy are to be coordinated by the site Environment & Community Coordinator or as directed by the Mine Manager and approved by the Mine Manager. The revision status is contained in the controlled document within Lotus Notes.

The outcomes of a review will be documented by updating sections of these documents where required and revisions incorporated into the Environmental Management Strategy for approval by the Mine Manager. Revised documents will be approved by the Mine Manager before placing on the intranet.

5.3.1 Event Based

Events which may trigger a review of this strategy or its associated documents include:

- Modifications / improvements to the system;
- Changes in the operation;
- New approvals, guidelines or codes of practice that require a review of the strategy; and
- Or as otherwise directed by the Director-General.

5.3.2 Time Based

The Strategy is to be revised / updated every 5 years or as otherwise directed by the Director-General in consultation.

APPENDICES

Appendix 1

EMS Structure

Airly Mine

SSD 5581

