



Centennial Coal



Environmental Management Strategy

Newstan Colliery

August 2014



Table of Contents

1.	Introduction.....	1
1.1.	Background.....	1
1.2.	Scope.....	1
1.3.	Document Purpose	1
1.4.	Objectives	1
1.5.	Overall Environmental Management Structure.....	4
1.6.	Legal & Other Requirements	4
1.6.1.	Development Consent.....	4
1.6.2.	Environment Protection Licence	6
1.6.3.	Mining Operations Plan.....	6
1.6.4.	Tailings Emplacement.....	6
1.6.5.	Mining Authorisations.....	6
1.6.6.	Subleases	9
1.6.7.	Authorisations	10
1.6.8.	Water Licences	10
1.6.9.	Land Ownership and Land Use.....	11
2.	Consultation	11
2.1.	Information and Communication.....	12
3.	Risk Assessment.....	12
4.	Risk Management / Hazard Identification.....	13
5.	Information	13
5.1.	Documentation.....	13
5.2.	Centennial Coal Website	14
5.3.	External Communication.....	14
5.4.	Stakeholder Engagement Plan	14
5.4.1.	Community Complaints and Enquiries	14
5.4.2.	Conflict Resolution	15
5.4.2.1.	Noise, Vibration and Dust.....	15
5.4.2.2.	Consent Dispute Resolution	15
5.4.3.	Media Releases	15
5.4.4.	External Incident Reporting.....	15
6.	Strategies	15
6.1.	Water Catchment.....	15
6.2.	Cumulative Impacts	16
6.3.	Economic Productivity	16
6.4.	Compliance.....	17

6.4.1.	Compliance with Consent Conditions	17
6.4.2.	Compliance with Other Approvals/Licences.....	17
6.4.3.	Non Compliance.....	17
7.	Supervision.....	17
7.1.	Responsibilities.....	17
7.1.1.	Mine Manager	18
7.1.2.	Environment & Community Coordinator.....	18
7.1.3.	Other Personnel.....	19
8.	Monitoring.....	19
8.1.	Environmental Monitoring (Noise, Water, Dust, Waste)	19
8.2.	Community / Social Monitoring	19
8.3.	Inspections.....	19
8.4.	Reporting	20
8.4.1.	Annual Environmental Management Report (AEMR)	20
8.4.2.	The Annual Return.....	20
8.4.3.	Monthly Monitoring Report.....	20
8.4.4.	Community Consultative Committee.....	20
9.	Audit.....	20
9.1.	External Audits.....	21
10.	Review.....	21
10.1.	Event Based.....	21
10.2.	Time Based	21

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1. Introduction

This Environmental Management Strategy (Strategy) has been developed in accordance with Centennial Newstan's Development Consent (DA 73-11-98 Mod 6 dated 7 January 2014), as issued by the then Minister for Urban Affairs and Planning.

The Strategy is a working and practical guide, and was originally developed through a consultative process, facilitated by Newstan Management with the relevant authorities and the Community Consultative Committee.

1.1. Background

Underground coal mining has been undertaken at Newstan Colliery on the western side of Lake Macquarie since 1887. Centennial Newstan Pty Ltd currently owns and operates Newstan Colliery (Newstan). Surface facilities are located adjacent to Fassifern road, northwest of Fassifern on the western side of Lake Macquarie, NSW. These facilities include workforce amenities, mining support infrastructure, coal storage facilities, a coal preparation plant, and rail loop.

In overview, this strategy incorporates existing works and future works undertaken by Newstan Colliery including those areas covered by DA73-11-98 (Mod 6).

1.2. Scope

This Strategy applies to the Newstan premises and all work sites associated with Newstan, including all employees and contractors.

1.3. Document Purpose

The purpose of the Strategy is to provide an effective management strategy to identify and control potential environmental impacts and to achieve compliance with environmental legislation and regulatory requirements applicable to Newstan.

1.4. Objectives

Table 1 lists the overall objectives and performance outcomes during construction, mining and decommissioning of Newstan and the management plans developed to manage these key environmental elements.

Table 1. Objectives and Performance Outcomes

Key Environmental Element	Objective	Performance Outcomes	Management Plan(s)
Noise	<ul style="list-style-type: none"> • Ensure all relevant statutory requirements and standards are met. • Identify potential noise sources and their relative contribution to noise impacts from Newstan. • Manage and minimise the impact of noise from mining operations at nearby residences. • Maintain reasonable levels of amenity for surrounding residents. • Maintain an effective response mechanism to deal with issues and complaints. 	<ul style="list-style-type: none"> • Comply with applicable noise monitoring criteria in Development Consent (N91/00544) & EPL 395 • No Noise complaints 	<ul style="list-style-type: none"> • Noise Management Plan
Dust / Air Quality	<ul style="list-style-type: none"> • Manage and minimise the impact of dust from mining operations on the environment and nearby residences; • Maintain acceptable levels of amenity for surrounding residents; • Maintain an effective response mechanism to deal with issues and complaints. 	<ul style="list-style-type: none"> • Comply with applicable dust criteria in Development Consent (N91/00544) & EPL 395 • No dust complaints 	<ul style="list-style-type: none"> • Air Quality & Greenhouse Gas Management Plan
Water	<ul style="list-style-type: none"> • Maximise the separation of clean and dirty water systems; • Manage water discharge from site, in terms of volume and quality, to a level that is acceptable for environmental management and community expectations; • Minimise water discharges from the premises by maximising, where practicable, opportunities for the reuse and recycling of water on site; • Minimise discharges of dirty water from the premises, • Manage discharge to natural waterways in accordance with the EPL 395 conditions or as agreed with the EPA. • Manage water licence requirements including extraction or recharge into groundwater sources in accordance with Newstans Water Licences. 	<ul style="list-style-type: none"> • Comply with water discharge criteria in Development Consent (N91/00544) & EPL 395 • No water discharge complaints • Comply with water licence requirements 	<ul style="list-style-type: none"> • Water Management Plan • Erosion and Sediment Control Plan
Land	<ul style="list-style-type: none"> • Prevent land degradation and to 	<ul style="list-style-type: none"> • Ongoing weed and 	<ul style="list-style-type: none"> • Land

Key Environmental Element	Objective	Performance Outcomes	Management Plan(s)
	<p>rehabilitate disturbed land as soon as practicable;</p> <ul style="list-style-type: none"> • Ensure existing pastures and remnant vegetation incur minimal degradation as a result of mining operations; and • Control vermin, feral animals and noxious weeds within the Newstan site. 	<p>feral animal control onsite</p> <ul style="list-style-type: none"> • Rehabilitation / Revegetation of disturbed areas 	<p>Management Plan</p> <ul style="list-style-type: none"> • Mining Operations Plan • Erosion and Sediment Control Plan
Flora & Fauna	<ul style="list-style-type: none"> • Identify and control potential impacts on flora and fauna associated with Newstan Colliery, • Comply with environmental legislation and regulatory requirements applicable to the mine. 	<ul style="list-style-type: none"> • No Flora & Fauna disturbance complaints • Minimal impacts on Flora and Fauna 	<ul style="list-style-type: none"> • Flora & Fauna Management Plan
Landscape	<ul style="list-style-type: none"> • Maintain a satisfactory visual amenity through the establishment of vegetation, mounding or bunding. • Provide a baseline for the visual appearance of any buildings, structure, or facilities which may be constructed so as to blend as far as possible with the surrounding landscape. • Provide a maintenance program for landscape works, building materials and cladding. 	<ul style="list-style-type: none"> • Maintain a satisfactory visual amenity • No visual complaints 	<ul style="list-style-type: none"> • Landscape Management Plan
Bushfire	<ul style="list-style-type: none"> • Protection of life and property in and immediately surrounding the Newstan Property. • Management of combustible fuel levels on Newstan Property. • Provision of access to Newstan Property through a network of roads and trails to facilitate all fire and fuel mitigation works. • Minimisation of the potential for the spread of bushfires into, within and from Newstan Property. • Prescription of appropriate fire regimes in order to protect and enhance biodiversity of the Newstan Property. • Suppression of unplanned (wild) fire within the Newstan Property. 	<ul style="list-style-type: none"> • Maintenance of fuel levels • Maintenance of asset protection zones • Protection of Community infrastructure and property from fires through / from the Newstan property 	<ul style="list-style-type: none"> • Bushfire Management Plan
Cultural	<ul style="list-style-type: none"> • Identify and control potential impacts on culturally significant items associated with works completed by Newstan Colliery, • Comply with environmental legislation 	<ul style="list-style-type: none"> • Minimal impact to culturally significant items 	<ul style="list-style-type: none"> • Aboriginal Cultural Heritage Management Plan

Key Environmental Element	Objective	Performance Outcomes	Management Plan(s)
	and regulatory requirements applicable to the mine.		<ul style="list-style-type: none"> • Cultural Heritage Management Plan

1.5. Overall Environmental Management Structure

The Environmental Management Strategy is a requirement under Newstan’s Development Consent and is considered a continuation of the Newstan Colliery Environmental Management System. It forms only one part of the entire Environmental Management System, which is comprised of a series of environmental management plans, and procedures along with a variety of reference material and supporting documentation.

1.6. Legal & Other Requirements

The activities of Newstan 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 development consents, licences or mining approvals.

Newstans’ operations will be conducted in accordance with applicable State and Commonwealth environmental, planning, and natural resource legislation. Newstan Colliery will maintain a register of relevant environmental legislative and regulatory requirements as part of the Environmental Management System which will be reviewed and maintained.

Newstan Colliery operates under a number of different approvals including:

- Development Consents and approvals issued by the Department of Planning & Infrastructure (DP&I);
- Environmental Protection Licence (EPL) issued by the NSW Environment Protection Authority (EPA); and
- A Mining Operations Plan (MOP) approved by DRE;
- Mining tenements issued by the DRE;
- Tailings Emplacement Approvals issued by DRE;
- Water Licences and approvals issued by the New South Wales Office of Water (NOW).

1.6.1. Development Consent

In 1998, Powercoal Pty Limited, the (then) owners of Newstan, submitted an Environmental Impact Statement (Umwelt, 1998) (EIS) to the New South Wales Department of Planning (DoP), seeking approval for the expansion of Newstan, in an area referred to as the Life Extension Area (LEA). On the 14th May 1999, the (then) Minister for Urban Affairs and Planning, granted development consent under Part 4 of the EP&A Act for the Newstan Colliery Life Extension Area pursuant to Development Application 73-11-98 (DA 73-11-98). This development consent has since been modified on the following occasions:

- 23 September 2007 to allow the mining of LW24 and the construction of a ventilation shaft at Awaba (Mod 1),
- 1 December 2009 to allow for the Washing of Mandalong Coal (Mod 2),
- 26 November 2010 to allow for the Washing of Awaba Coal (Mod 3),
- 16 March 2012 to allow for the recommencement of first workings, bord and pillar mining in an area referred to as Main West (Mod 4), and
- 19 November 2012 to allow for washing up to 4 Mtpa of Mandalong coal, and to transport excavated material produced from the shafts at Awaba to Newstan Colliery (Mod 5).
- 7 January 2014 to adjust the approved Consolidated Consent Boundary in the Main West Mining Area to include the four excluded areas. The areas are proposed to be consolidated for administrative reasons to ensure all workings around the Main West Mining Area are regulated under Development Consent DA 73-11-98. (Mod 6)

Consent conditions provided detail of the matters which should be included in this Strategy. These matters are set out in Table 2 below, together with notation of the section of this document in which each matter is addressed.

Table 2. Development Consent Conditions

DA Condition	Section Addressed
(a) The Applicant shall prepare an Environmental Management Strategy as a continuation of the existing Newstan Colliery Environmental Management System for the DA area including within the LEA and all proposed surface facilities. The Environmental Management Strategy shall be prepared in consultation with the relevant authorities and the Community Consultative Committee and to the satisfaction of the Director-General, prior to commencement of construction of surface facilities or secondary workings, whichever is the sooner.	This document
(b) The Environmental Management Strategy shall include:	Section 1.6
(i) statutory and other obligations which the Applicant is required to fulfill during construction and mining, including all approvals and consultations and agreements required from authorities and other stakeholders, and key legislation and policies;	
(ii) definition of the role, responsibility, authority, accountability and reporting of personnel relevant to environmental management, including the Environmental Officer;	Section 7.1
(iii) overall environmental management objectives and performance outcomes, during construction, mining and decommissioning of the mine, for each of the key environmental elements for which management plans are required under this consent;	Section 1.5
(iv) overall ecological and community objectives for the water catchment, and a strategy for the restoration and management of the areas of the catchment affected by mining operations, including elements such as	Section 6.1

DA Condition	Section Addressed
(v) identification of cumulative environmental impacts and procedures for dealing with these at each stage of the development;	Section 6.2
(vi) overall objectives and strategies to protect existing economic productivity within the area affected by mining, including agricultural productivity and other businesses;	Section 6.3
(vii) steps to be taken to ensure that all approvals, plans, and procedures are being complied with;	Section 6.4
(viii) processes for conflict resolution in relation to the environmental management of the project; and	Section 5.3.2
(ix) documentation of the results of consultations undertaken in the development of the Environmental Management Strategy.	Document Details Table

1.6.2. Environment Protection Licence

Coal mining and Coal Works are “scheduled” activities under the Protection of the Environment Operations Act 1997 (POEA) and therefore is subject to the provisions of this Act. The provisions relate to control of water pollution, air pollution, noise control, waste, odour and environmental offences.

An Environment Protection Licence is required under section 43(b) of the POEA to authorise the carrying out of “scheduled” activities. Environment Protection Licence 395 is currently held for the activities of Newstan Colliery.

1.6.3. Mining Operations Plan

Newstan Colliery has an existing approved Mining Operations Plan (MOP). The current MOP is approved until 30 June 2020.

1.6.4. Tailings Emplacement

An application was made under S. 100 of the Coal Mine Health and Safety Act 2002 on 27 November 2006 to construct stages two through to five of the Southern Reject Emplacement Area (SREA) tailings storage facility. Approval was granted by the chief inspector of coal mines on 10 January 2007.

1.6.5. Mining Authorisations

Newstan Colliery mining authorisations comprises of several exploration licences, authorisations consolidated mining leases, private land leases, mining purpose leases and subleases of mining leases.

The total mineral area within the Newstan Colliery Holding is 6831.6 hectares. Surface leasehold and freehold land has an area of 2609 hectares. These areas are summarised in Tables 3, 4 & 5.

Mining operations are controlled by the conditions contained within these leases and the provisions of the Coal Mine Health & Safety Act and the Mining Act.

Table 3. Details of Mining Leases and Mining Rights for Newstan Colliery

Title	Registered Holder / Lessor	Mineral (ha)	Surface (ha)	Expiry	Brief Description of surface area
CCL727	Centennial Newstan Pty Ltd	2058.0	580.0	11/08/2027	Pit top, SREA, NREA & surrounds
MPL304	Centennial Newstan Pty Ltd	Nil	0.0699	25/03/2014 (Approval pending)	Part NREA
MPL305	Centennial Newstan Pty Ltd	Nil	0.4047	25/03/2014 (Approval pending)	Water Tanks
ML1380	Centennial Newstan Pty Ltd	78.0	Nil	18/09/2016	NA
ML1452	Centennial Newstan Pty Ltd	1587.0	Nil	06/07/2020	NA
ML1480	Centennial Newstan Pty Ltd	14.49	14.49	20/07/2023	Part NREA
CCL764	Centennial Newstan Pty Ltd	108.8	9.40	18/05/2021	Area between the rail loops and the haul roads
CCL763	Centennial Newstan Pty Ltd	190.91	74.57	09/06/2022	Parcel land south of the pit top, including Stony Creek Pipeline,
PLL497	Centennial Newstan Pty Ltd	20.23	Nil	24/08/2017	NA
CCL746	Centennial Newstan Pty Ltd	2525	1900	31/12/2028	Area above underground workings, within Crown Land.
MPL327	Centennial Newstan Pty Ltd	Nil	1.041	05/08/2015	Awaba Nitrogen Plant
MPL328	Centennial Newstan Pty Ltd	Nil	0.397	05/08/2015	Part Awaba Stockpile
ML1586	Centennial Newstan Pty Ltd	449.1	Nil	13/10/2022	NA
ML1587	Centennial Newstan Pty Ltd	3	3	23/10/2027	Surface area incl SREA.

Table 4. Details of Surface included as Freehold Titles Newstan Colliery

Title	Registered Holder / Lessor	Non Mining Lease Surface (ha)	Brief Description of surface area
Lot C DP 381399	Centennial Newstan Pty Ltd	2.959	Partial area of NREA
Lot 148 DP 728974	Centennial Newstan Pty Ltd	0.356	Partial area of NREA
Portion 36 Lot 36 DP 755207	Fassifern Colliery Pty Ltd	20.230	Parcel Land South of SREA.
Lots 17&18 DP 1031778	Fassifern Colliery Pty Ltd	0.35	Pit top entry, adjacent to Miller road (Includes potable water pipelines)

Portion 194 Lot 194 DP755207	Koompahtoo L.A.L.C / NSW Aboriginal Land Council	1.73	Ballast Borehole at Sherwood Rd Awaba
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Table 5. Holding Summary for Newstan Colliery

Description	Area (ha)
Total Mineral Area within Colliery Holding by Lease	7404.64 (includes lease overlaps)
Surface area (under mining Lease) within Colliery Holding	2583.37
Surface Area (Freehold) within Colliery Holding	25.63
Total Surface Area within Colliery Holding	2609
Total Mineral Area of Colliery Holding	6831.6 (Excludes lease overlaps)

Consolidated Coal Leases 727, 746, 763 and 764, Mining Leases 1380, 1452 1586, 1587 and 1480 and Private Lands Lease 497 held by Centennial Newstan Pty Ltd collectively provide rights to mine for Newstan Colliery.

1.6.6. Subleases

The Newstan Colliery has eight benefiting subleases with adjoining mining lease holders to mine various coal seams. Generally all mineable economic reserves subject to these subleases have been extracted. However there are mineable reserves remaining within CCL718.

All sublease agreements for Newstan Colliery are assignable. Sublease agreements for the Newstan Colliery Holding are summarised in Table 6.

Table 6. Sublease agreements for the Newstan Colliery Holding

Mining Lease	Agreement		Sublessor	Expiry Date	Description
	Type	Date			
Pt CCL 718	Sublease	2/3/81	Ocal	29/6/2014	Subsurface leases only. Subleases are historical mining areas only.
Pt CCL 718	Sublease	21/8/84	Ocal		
Pt CCL 718	Sublease	1/8/90	Ocal		
Pt CCL 774	Sublease	18/12/76	Mt Thorley Op	29/6/2014	There is no active mining within these subleases.
Pt CCL 774	Sublease	20/9/78	Mt Thorley Op		
Pt CCL 774	Sublease	10/3/80	Mt Thorley Op		
Pt CCL 774	Sublease	18/2/81	Mt Thorley Op		
Pt CCL 774	Sublease	24/10/84	Mt Thorley Op		
Note: Subleases continue with periodic renewal of headleases.					

Centennial has had discussions with relevant title holders to arrange transfers of these subleases, which will permanently eliminate sublease requirements. There is currently no active mining within these subleases.

All subleases are for underground mining. There are no surface areas included in any of the subleases.

1.6.7. Authorisations

Newstan Colliery is subject to three authorities under the Mining Act that provide for exploration activities to be carried out from the surface.

Table 7 summarises Authorisation details for these mines.

Table 7. Authorisation Details

Authorisation	Expiry	Area (ha)
A399	17/11/2012 (Renewal Lodged)	693
EL5138	09/10/2016	1793
EL6641 (Previously Part EL4443)	23/10/2017	454.1

1.6.8. Water Licences

Water licencing requirements are detailed within the Water Act 1912 and the Water Management Act 2000.

Newstan currently holds the following water licences as listed in Table 8.

Table 8. Water Licences

Description	Licence	Lot//DP	Expiry
Water Monitoring Borehole	20BL169865	4//816752	Perpetuity
Water Monitoring Borehole	20BL167832	152//755207	Perpetuity
Water Monitoring Borehole	20BL169871	221//548001	Perpetuity
Water Monitoring Borehole	20BL169863	21//532058	Perpetuity
Water Monitoring Borehole	20BL169861	143//755218	Perpetuity
Water Monitoring Borehole	20BL169870	48//755218	Perpetuity
Water Monitoring Borehole	20BL169871	221//548001	Perpetuity
Water Monitoring Borehole	20BL169871	221//548001	Perpetuity
Water Monitoring Borehole	20BL173649	101//709415	Perpetuity
Water Monitoring Borehole	20BL169867	95//755218	Perpetuity
Water Monitoring Borehole	20BL169866	2//755218	Perpetuity
Water Monitoring Borehole	20BL169870	48//755218	Perpetuity

Water Monitoring Borehole	20BL169869	18//755218	Perpetuity
Water Monitoring Borehole	20BL169870	48//755218	Perpetuity
Water Monitoring Borehole	20BL169870	48//755218	Perpetuity
Water Monitoring Borehole	20BL172209	28//755207	Perpetuity
Water Monitoring Borehole	20BL172267	94//755207	Perpetuity
Water Monitoring Borehole	20BL172266	95//755207	Perpetuity
Water Monitoring Borehole	20BL172269	Crown Land East 395//823682	Perpetuity
Water Monitoring Borehole	20BL172268	99//755218	Perpetuity
Water Monitoring Borehole	20BL172270	Crown Land Adj 7052//1057169	Perpetuity
Awaba - Artificial Recharge	20BL173232	213//755207	12/12/2017
Awaba - Artificial Recharge	20BL173232	213//755207	12/12/2017
Water Access Licence	WAL (18735)	441//583057	

Additional water licences have been applied for through the NSW Office of Water. Newstan will continue seeking approval of these licences.

1.6.9. Land Ownership and Land Use

Surface land associated with mine access and mine infrastructure is included in CCL727, CCL763, CCL 746, CCL764 and freehold land owned by Centennial Fassifern Pty Limited and freehold land leased by Centennial Newstan Pty Limited.

Centennial Fassifern Pty Limited (Centennial Fassifern) also owns and manages several parcels of land that adjoin Colliery land. These lands provide buffering for the mine's operations and are generally leased to tenants for grazing purposes. Both Centennial Newstan and Centennial Fassifern are wholly owned subsidiaries of Centennial Coal Company Limited.

2. Consultation

This Strategy was originally developed in consultation with Lake Macquarie City Council (LMCC), Environmental Protection Agency (EPA), Department of Land and Water Conservation, Department of Mineral Resources, Newstan Community Consultative Committee (CCC) and approved by the Department of Urban Affairs and Planning on 20 September 2000.

This review of the Environmental Management Strategy will be developed in consultation with the LMCC, NSW Office of Water (NOW), Department of Resources

and Energy (DRE), and the CCC, and to the satisfaction of the Department of Planning and Environment (DoP&E).

2.1. Information and Communication

The Environmental Management Strategy will be made available to LMCC, EPA, NOW, DRE, Mine Subsidence Board (MSB), and the CCC within 14 days of approval by the Director – General.

This Strategy is also to be made publicly available at LMCC within two weeks of approval and to be made publicly available through the centennial coal website in accordance with Schedule 2 Condition 9.2 of Development Consent (DA 73-11-98).

3. Risk Assessment

Newstan Colliery has adopted the Stature program which was developed to ensure consistency in all risk assessments across Centennial Coal. This Standard sets out an environmental consequences table and risk ranking matrix for managing identified risks.

Newstan Colliery will conduct regular reviews of the operational risk assessment to assess the environmental aspects and impacts of the Mine and to meet requirements of the Environmental Policy.

This assessment considers the operational activities of the Mine, identifies the potential environmental hazards associated with the activity and assesses the potential risk posed by that hazard. As part of DRE requirements and the Mine's due diligence, commitments are made for reducing unacceptable risks. The reporting process then allows for these commitments to be reviewed for action.

Generally the significant environmental elements considered are:

- Land and Landform management
- Water management
- Air quality management
- Waste Minimisation and Management
- Visual Amenity
- Culture & Heritage
- Spontaneous Combustion
- Noise management
- Pollution control
- Community impacts
- Flora, fauna and biodiversity

Some of the higher environmental risks recognised by the risk assessment at Newstan Colliery include:

- Surface water management, including exceedences of licence conditions in discharges and unlicensed discharges

- Noise emissions and impact on the community /exceedences of noise conditions and community complaints
- Hydrocarbon contamination of surface water
- Air quality and impact on the community /exceedences of air quality conditions and community complaints

All operational processes undertaken on the mine site are subject to risk assessment process prior to implementation. Potential environmental impacts are considered as part of all risk assessments utilising the stature program.

4. Risk Management / Hazard Identification

Environmental management at the Newstan Colliery is regulated by the licences, leases and approvals as shown in Section 1.6. Additionally, the Newstan Colliery Environmental Management System (EMS) provides a framework under which environmental issues are managed on site.

The EMS 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 the Newstan Colliery. The EMS incorporates a number of environmental management plans that are designed to assist in meeting community and regulatory expectations. Newstan has the following management plans:

- Newstan Stakeholder Engagement Plan
- Land Management Plan
- Centennial Northern Holdings Aboriginal Cultural Heritage Management Plan
- Landscape Management Plan
- Erosion and Sediment Control Management Plan
- Noise Management Plan
- Water Management Plan
- Flora and Fauna Management Plan
- Lord's Creek Management Plan
- Air Quality and Greenhouse Gas Management Plan
- Bushfire Management Plan
- Soil Stripping Management Plan
- Wetlands Management Plan
- Fine Rejects Management Plan

5. Information

5.1. Documentation

Where there is a risk to health and safety and/or the environment when undertaking a task, safe work procedures, Job Safety Maps, Job Safety Analysis, Standards, inspections and reports have been developed to identify hazards and the steps to control those hazards. Controlled copies of the procedures are maintained on Lotus Notes.

5.2. Centennial Coal Website

Documents will be made publicly available by being placed on the Centennial Coal website (www.centennialcoal.com.au) in accordance with the Development Consent (N91/00544) Schedule 2 Condition 9.2, EPL395 and the requirements under the Protection of the Environment Legislation Amendment Act 2011 (POELA Act).

This includes and plan, strategy or program required under the Development consent, Audits and AEMRs within 3 months of Approval.

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 and the requirements under the POELA Act.

5.3. External Communication

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.

5.4. Stakeholder Engagement Plan

Newstan Colliery will communicate to relevant stakeholders on the relevant environmental and community aspects of the Mine's operation in accordance with the "Newstan Colliery Stakeholder Engagement Plan". This plan is designed to maintain communication with external stakeholders on the Mine's operations and progress with environmental and community programs through identified forums and via nominated communication mechanisms. Details of any engagement with external stakeholders will be recorded in ECD forming part of the Stakeholder Register.

The Mine will also consult with the community as required in the Stakeholder Engagement Plan by providing information to community members through various communication mechanisms.

5.4.1. Community Complaints and Enquiries

Newstan Colliery will advertise the community inquiries/complaints hotline (1800 247 662) 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 (newstancoal@centennialcoal.com.au) is available on Centennial's web page for the community or stakeholders to register concerns or comments.

The Mine will respond to any registered community inquiries or complaints received by this number as described in the Mine's work procedure Community Complaints and Enquiries Procedure (EWP-007). It is the responsibility of the Environmental Coordinator to record any community complaints/inquiries received via this number and to investigate the nature of the complaint/inquiry.

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

5.4.2. Conflict Resolution

The Consent Conditions allow for independent resolution of conflicts in relation to the environmental management of the Colliery and future project construction. These Conditions include independent monitoring of noise, dust and vibration; establishment of a Community Consultative Committee and general disputes resolution.

Centennial Coal will address any conflict arising from the activities of the Colliery through the conflict resolution avenues outlined in the Consent Conditions. To assist in the conflict resolution process, a log is maintained in the Environment and Community Data Base to record details of all complaints received (Consent Condition 10.2).

5.4.2.1. Noise, Vibration and Dust

Consent Condition 11.2 describes the allowance for independent monitoring of noise, and or dust where necessary.

5.4.2.2. Consent Dispute Resolution

Consent Condition 11.1 (F) allows for the Director-General (DoP&E) to establish an Independent Panel to assist in the resolution of any dispute on the specification or requirements applicable under the Consent.

5.4.3. Media Releases

Environmental matters that are of significance may be published monthly in the local newspaper – The Lakes Mail.

5.4.4. External Incident Reporting

External incident reporting will be completed as per the Pollution Incident Response Management Plan. 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.

6. Strategies

6.1. Water Catchment

The overall ecological and community objectives for the water catchment include:

- To operate within legislative, statutory, approval and commitment requirements.
- Ecological and community protection and restoration.
- Identification and management of cumulative impacts

The strategies for achieving these objectives are:

- Development of detailed plans for the management and restoration of areas affected by mining operations, including aspects such as wetlands, habitat areas and drainage channels.
- Detailed monitoring of pre-mining, during and post-mining environmental conditions.
- Consultation and conflict resolution to develop and implement environmental management strategies.

The overall ecological and community objectives for the water catchment within the area affected by mining, were analysed in section 4 of the EIS.

Mitigation measures are addressed in the individual management plans.

6.2. Cumulative Impacts

Cumulative impacts for aspects such as subsidence, ground water, surface hydrology, agriculture, flora and fauna were analysed in section 8 of the EIS.

Mitigation measures for each element are addressed in individual environmental management plans.

6.3. Economic Productivity

The overall objectives and strategies to protect existing economic productivity within the area affected by mining, including agricultural productivity and other businesses include:

- To operate within legislative, statutory, approval and commitment requirements.
- Protection of existing economic productivity within the area affected by longwall mining
- Identification and management of cumulative impacts

The overall strategy for achieving these objectives are:

- Development of detailed plans for the management and restoration of areas affected by mining operations, including aspects such as agricultural land, wetlands, habitat areas, drainage channels, built structures.
- Detailed monitoring of pre-mining, during and post-mining environmental conditions.
- Consultation and conflict resolution to develop and implement environmental management strategies.
- Subsidence Management Plans to be developed for each mining area with greater than 20mm of subsidence predicted.

The overall objectives and strategies to protect existing economic productivity within the area affected by mining, including agricultural productivity and other businesses were analysed in section 7 of the EIS.

Mitigation measures are addressed in the individual management plans.

6.4. Compliance

Compliance with all statutory, legislative and approval requirements is a performance outcome for the Colliery. As such, mechanisms will be implemented to assess this performance.

6.4.1. Compliance with Consent Conditions

The Consent Conditions for the Project provide methods for monitoring compliance. These include:

- Annual Environmental Management Report (Consent Condition 9.1);
- Independent Environmental Audit (Consent Condition 8.9);
- Community Consultative Committee (Consent Condition 8.8); and
- External compliance audit.

These documents will be made available on the Centennial Coal website once approved by the relevant authority.

6.4.2. Compliance with Other Approvals/Licences

The scope of the internal and external compliance audit will be such that it may consider other matters of compliance including:

- Environment Protection Licence 395
- Current Section 138 approvals and future SMP / Extraction Plan approvals
- Mining Leases
- Water Licences
- Compliance with and implementation of Management Plans
- Environmental monitoring results
- Other issues as considered necessary

6.4.3. Non Compliance

A non compliance will be reported internally and externally to the relevant authorities as per the Centennial Coal Management Standard 012 External Environmental Reporting. A record of all non compliance reporting is to be maintained in the Environment and Community Database as well as reported in the AEMR.

A non compliance will be investigated as per the Accident / Incident Investigation procedure in the Centennial Newstan Health and Safety Management System (HSMS). A record of all non compliance investigations will be maintained in the Environment and Community Database.

7. Supervision

7.1. Responsibilities

To achieve environmental management objectives at Newstan Colliery, individuals are responsible for protecting the environment. These responsibilities relate directly to

Newstan and Centennial Policy and Objectives. While the obligation to protect the environment lies with the entire Newstan work force, management has accepted responsibility to provide the resources and training for individuals to achieve their goals.

7.1.1. Mine Manager

The Mine Manager is responsible for the overall operation and management of the Mine, including assuming responsibility for all environmental management and performance on the site. The manager is to ensure compliance with Centennial's Environmental Policy, through the implementation of Newstan's Environmental Management System.

The Mine Manager is responsible for the;

- Promoting the Environmental Policy and fulfilling the requirements of the Corporate EMS
- Considering environmental matters and effects in day to day business decisions
- Developing and implementing environmental responsibilities into key position descriptions
- Authorisation of the Site EMS and associated Management Strategies and Plans;
- Delegation of resources to ensure environmental risk mitigation strategies are implemented.
- Delegation of duties during the absence of the Environment & Community Coordinator

7.1.2. Environment & Community Coordinator

As a condition of consent (Consent Condition 3.1), a suitably qualified Environmental Officer shall be employed throughout the life of the mine. The role, responsibility and authority of the Environmental Officer is prescribed by the Consent Conditions.

The Environmental Officer is accountable to the Mine Manager. Information will be reported to the Environmental Officer from Department Managers, Operations Engineers, employees and contractors involved in the operation, for action and dissemination. The status of environmental management, advice and updates on issues and remedial actions required will be reported to the Mine Manager.

The Environment & Community Coordinator for the Newstan Colliery is responsible for;

- Development and implementation of environmental systems, plans, and procedures;
- Managing site environmental performance – compliance with development consent, EPL and other statutory licences, permits and approvals,
- Managing site monitoring and data collection
- Attend Health, Safety, Environment & Community (HSEC) and CCC Meetings
- Manage and attend any environmental incidents occurring on site anytime
- Respond to / or coordinate community complaints and Hotline issues.
- Development and implementation of environmental training and inductions;
- Monitoring and Auditing the effectiveness of the system:

7.1.3. Other Personnel

All personnel at Newstan Colliery have responsibilities to act with due diligence and to work within the environmental standards and expectations of Centennial, including the Environmental Management Strategy.

The specific roles, responsibilities, accountability and reporting for individual job roles are outlined in environmental management plans and procedures.

Any scope of works for contract work at Newstan Colliery will outline the environmental expectations for that work and the relevant personnel responsible. Contractors will undertake an induction and training program according to the requirements of the EMS.

8. Monitoring

8.1. Environmental Monitoring (Noise, Water, Dust, Waste)

Environmental Monitoring at Newstan Colliery will be conducted in accordance with the Environmental Protection Licence (EPL 365), the Development Consent, Water Licences and Environmental Management Plans (EMP's) required by the Mine's development consent.

Compliance against Newstans EPL limits in the Environmental Protection License and Development Consent conditions will be checked monthly and non compliances entered into ECD to document these in the monthly environmental and operations reports.

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 and the requirements under the POELA Act.

8.2. Community / Social Monitoring

Newstan Colliery will monitor 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 the environmental aspects of the complaint and requirement for additional controls or management strategies to limit the impacts.

8.3. Inspections

Environmental inspections will be undertaken onsite (EWP008 – Weekly Environmental Inspection) and will include inspections of the surface areas. Any non-conformances found shall be investigated and reported in ECD.

8.4. Reporting

8.4.1. Annual Environmental Management Report (AEMR)

The Annual Environmental Management Report (AEMR) is completed and distributed to the Standards of 'ES03 Mining Operations Plan Guidelines' as required by the Department of Resources and Energy and development consent conditions.

The AEMR provides a report on the monitoring conducted during the reporting year, any non-conformances and complaints received. This report is made available on the Centennial Coal website.

8.4.2. The Annual Return

An annual return stating the sites compliance with the EPL 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.

8.4.3. Monthly 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.

This document also satisfies condition 9.2 schedule 5 of Development Approval 73-11-98 by summarising the environmental monitoring results for Newstan Colliery.

8.4.4. 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
- issues arising from site inspections
- monitoring and environmental performance
- community complaints and response to complaints
- information provided to the community and any feedback

The CCC minutes will be made publicly available by being placed on the Centennial Coal website (www.centennialcoal.com.au) in accordance with the Development Consent (N91/00544) Schedule 2 Condition 8.8.

9. Audit

The objectives of an audit are to:

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

9.1. External Audits

External audits of the implementation of and compliance with the strategy will be conducted in accordance with Development Consent Schedule 2 Condition 8.9.

10. Review

Revisions are to be coordinated by the site Environment & Community Coordinator or as directed by the Mine Manager and approved by the Mine Manager.

10.1. 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 Approval, guidelines or codes of practice that require a review of the strategy
- or as otherwise directed by the Director-General.

10.2. Time Based

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



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