Environmental Management Strategy

Angus Place Colliery

March 2014
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<tr>
<th>Title</th>
<th>Date Effective</th>
<th>Revision Status</th>
<th>Planned Review</th>
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<td>Environmental Management Strategy</td>
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</table>
# TABLE OF CONTENTS

1. **INTRODUCTION** ................................................................................................................. 6
   1.1. Background ..................................................................................................................... 6
   1.2. Purpose ........................................................................................................................... 7
   1.3. Objectives ....................................................................................................................... 7

2. **ENVIRONMENTAL POLICY** .......................................................................................... 10

3. **CONTEXT** .......................................................................................................................... 10
   3.1. Structure .......................................................................................................................... 10
   3.2. Ecologically Sustainable Development ........................................................................ 11
       3.2.1. Precautionary Principle ........................................................................................... 12
       3.2.2. Intergenerational Equity .......................................................................................... 12
       3.2.3. Conservation of Biological Diversity and Ecological Integrity ................................ 13
       3.2.4. Improved Valuation and Pricing of Environmental Resources ................................ 13

4. **PLANNING** ....................................................................................................................... 13
   4.1. Environmental Aspects .................................................................................................. 13
   4.2. Legal and other Requirements ....................................................................................... 14
   4.3. Requirements Register .................................................................................................. 14
   4.4. Amendments and Updates of Environmental Legislation .......................................... 14
   4.5. Authority Requirements ............................................................................................... 15
   4.6. Relevant Guidelines and Standards .............................................................................. 15
   4.7. Standard Environmental Conditions (Contractors and Sub Contractors) .................... 15
   4.8. Objectives, Targets and Programs ............................................................................... 15
   4.9. Statutory Approvals ..................................................................................................... 15
   12 September 1983 .............................................................................................................. 16
   24 November 2024 ................................................................................................................ 16
   4.10. Project Approval Conditions ....................................................................................... 17
   4.11. Guidelines ................................................................................................................... 19
   4.12. Consultation ................................................................................................................ 19

5. **IMPLEMENTATION AND OPERATION – STRATEGIC FRAMEWORK** ......................... 20
   5.1. Strategic Context for Environmental Management .................................................... 20
   5.2. Environmental Management Plans and Monitoring Programs .................................... 20
   5.3. Environmental Inspections and Impact Verification ..................................................... 21
   5.4. Resources, Roles, Responsibility, Authority and Accountability .................................. 22
   5.5. Competence, Training and Awareness ....................................................................... 23
   5.6. Communication ............................................................................................................ 23
   5.7. Personnel ..................................................................................................................... 23
   5.8. Community ................................................................................................................... 24
       5.8.1. Community Consultative Committee .................................................................... 24
       5.8.2. Liaison with Aboriginal Community ...................................................................... 24
   5.9. Government and other Agencies .................................................................................. 25
   5.10. Complaints Handling and Dispute Resolution ........................................................... 25
   5.11. Documentation .......................................................................................................... 29
5.12. Control of Documents ................................................................. 29
5.13. Emergency Preparedness and Response ........................................ 29
6. CHECKING ......................................................................................... 30
  6.1. Monitoring and Measurement .......................................................... 30
    6.1.1. Surface Water ........................................................................... 30
    6.1.2. Groundwater ............................................................................ 30
    6.1.3. Air Quality ................................................................................ 30
    6.1.4. Noise Monitoring ...................................................................... 31
    6.1.5. Flora and Fauna Monitoring ....................................................... 31
  6.2. Cumulative Impact Assessment ......................................................... 31
  6.3. Evaluation of Compliance .................................................................. 32
  6.4. Non-Compliance, Corrective and Preventative Action ......................... 32
  6.5. Internal Audit Reports ..................................................................... 32
7. MANAGEMENT REVIEW ....................................................................... 33

Tables
Table 1. Summary of Leases ...................................................................... 16
Table 2. Summary of other Approvals, Titles, Licences and Permits ............... 16
Table 3. Relevant Project Approval Conditions ........................................... 18
Table 4. Relevant Statement of Commitments .............................................. 18
Table 5. Commitment Made by Angus Place .............................................. 19
Table 6. Key Personnel and Accountability .................................................. 23
Table 7. Community Complaints Reporting Requirements .......................... 27

Figures
Figure 1 Locality Plan .............................................................................. 8
Figure 2 Angus Place Workings and Ventilation Facility Project .................. 9
Figure 3 Procedure for Community Initiated Contact .................................. 26
Figure 4 Independent Dispute Resolution Process ..................................... 28

Appendices
Appendix 1 Centennial Coal Environmental and Community Policy
Appendix 2 Environmental Protection Licence 467
# Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tbody>
<tr>
<td>AEMR</td>
<td>Annual Environmental Management Report <em>(now known as Annual Review)</em></td>
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<tr>
<td>CCC</td>
<td>Community Consultative Committee</td>
</tr>
<tr>
<td>CCL</td>
<td>Consolidated Coal Lease</td>
</tr>
<tr>
<td>DECCW</td>
<td>Former NSW Department of Environment, Climate Change and Water</td>
</tr>
<tr>
<td>DoP</td>
<td>Former NSW Department of Planning</td>
</tr>
<tr>
<td>DP&amp;I</td>
<td>NSW Department of Planning and Infrastructure</td>
</tr>
<tr>
<td>DRE</td>
<td>NSW Department of Trade and Investment, Regional Infrastructure and Services – Division of Resources and Energy</td>
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<tr>
<td>EA</td>
<td>Environmental Assessment</td>
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<td>EPA</td>
<td>Environment Protection Authority</td>
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<td>EMP</td>
<td>Environmental Management Plan</td>
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<td>EMS</td>
<td>Environmental Management System</td>
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<td>EPL</td>
<td>Environmental Protection Licence</td>
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<td>ESD</td>
<td>Ecologically Sustainable Development</td>
</tr>
<tr>
<td>ML</td>
<td>Mining Lease</td>
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<tr>
<td>MOP</td>
<td>Mine Operations Plan</td>
</tr>
<tr>
<td>Mtpa</td>
<td>Million Tonnes per Annum</td>
</tr>
<tr>
<td>NOW</td>
<td>NSW Office of Water</td>
</tr>
<tr>
<td>NPI</td>
<td>National Pollutant Inventory</td>
</tr>
<tr>
<td>NSESd</td>
<td>National Strategy for Ecologically Sustainable Development</td>
</tr>
<tr>
<td>PM$_{10}$</td>
<td>Particulate matter less than 10 µm in diameter</td>
</tr>
<tr>
<td>ROM</td>
<td>Run of Mine</td>
</tr>
<tr>
<td>RTA</td>
<td>Roads and Traffic Authority</td>
</tr>
<tr>
<td>RFS</td>
<td>Rural Fire Service</td>
</tr>
<tr>
<td>SEWPaC</td>
<td>Commonwealth Department of Sustainability, Environment, Water, Population and Communities</td>
</tr>
<tr>
<td>SMP</td>
<td>Subsidence Management Plan</td>
</tr>
<tr>
<td>TSP</td>
<td>Total Suspended Particulates</td>
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1. INTRODUCTION

Angus Place Colliery (Angus Place) is an underground coal mining operation located approximately 5 kilometres north of the village of Lidsdale, 8 kilometres northeast of the township of Wallerawang and approximately 15 kilometres northwest of the city of Lithgow in the Blue Mountains region of NSW. It is bordered by Springvale Colliery to the south, Ivanhoe Colliery to the northwest and the Wolgan Valley and Newnes Plateau to the north and east respectively. The locality of Angus Place is shown on Figure 1.

Angus Place has been in operation since 1979 and is operated by Centennial Angus Place Pty Ltd, a joint venture company owned in equal share between the Centennial Coal Company Ltd and SK Kores of Korea. Coal extraction utilising the longwall method of mining is currently undertaken within Mining Lease (ML) 1424 and Consolidated Coal Lease (CCL) 704. Project Approval (PA) 06_0021 was granted by the former NSW Department of Planning (now known as the NSW Department of Planning and Infrastructure (DP&I)) on 13 September 2006 for continuation of mining. The PA covers the extension of underground mine workings associated with Angus Place and the increase in annual production from 2.5 to 3.5 Mtpa. Modified PA conditions were issued to Angus Place by the DP&I on 29 August 2011 to increase the annual production to 4 Mtpa. A second modification to the Project Approval was received in April 2013 for the Ventilation Facility Project.

Angus Place currently operates 7 days a week, 24 hours per day, extracting on average 3 million tonnes per annum (Mtpa) of run of mine (ROM) coal from the Lithgow Seam. Mined coal is conveyed to the surface from a stackout/reclaim stockpile, which is equipped with underground feeders, enabling coal to be loaded onto the reclaim conveyor. Coal is then conveyed to the coal handling plant where it is crushed and sized, prior to delivery to the truck loading hoppers by conveyor. Angus Place holds coal supply contracts with Delta Electricity, therefore loaded trucks transport the coal to Mount Piper or Wallerawang power stations via private haul roads.

This Environmental Management Strategy (herein referred to as the Strategy) has been prepared in response to Angus Place PA 06_0021 as received 13 September 2006. This Strategy has been reviewed and updated for compliance with the following:

- Schedule 5, Condition 1 of PA 06_0021 (as modified); and
- Mod 1 Statement of Commitment 4.1.

This strategy provides details of the overall environmental management for the project and should be read in conjunction with the site specific Environmental Management Plans and Environmental Monitoring Programs.

1.1. Background

PA 06_0021 was granted by the Minister for Planning on 13 September 2006 for the expansion of underground mining operations at Angus Place by seven longwall panels, increasing the coal production limit from 2.3Mtpa to 3.5Mtpa.

On the 29th August 2011 approval to modify PA 06_0021 was granted to Angus Place. Modifications to the PA included the development and extraction of two additional longwall panels (Longwall 910 and 900W), increasing the coal production limit from 3.5Mtpa to 4 Mtpa and modifications for the improvement of the dirty water management system at the pit top.

On the 22nd of April 2013 a second approval to modify PA06_0021 was granted to Angus Place. The approval allows for the development of underground roadways and a Ventilation Facility with associated infrastructure to the east of the existing Angus Place Colliery.
Modification 3 (Mod 3) was approved in December 2013 and allows for the extension in length of Longwalls 980 and 900W by 43.4 metres (m) and 104.8 m, respectively, and an increase to the maximum extraction height of Longwalls 980, 900W and 910 from 3.25 m to 3.425 m.

1.2. Purpose

This Strategy provides guidance and direction to mine management and incorporates environmental policies and procedures, as well as relevant legislation, guidelines, standards and policies to ensure best practice environmental management on the site.

The Strategy is applicable to all persons employed by Angus Place at the site as well as all contractors and visitors to the site. Where contractors may be responsible for the management and/or maintenance of a specific site operation, they may be required to prepare and implement their own Strategy in addition to complying with the requirements of this Strategy. Where this is required, the contractor will be provided with detail of the required content and format by Angus Place.

The Strategy is continually changing, responding to changes in the operation, changes in legislation and the results of environmental audits, and is updated to reflect changes as part of the management review and continuous improvement process.

The primary purpose of this Strategy is to:

- Provide all employees and contractors of Angus Place with a clear description and understanding of responsibilities and requirements regarding environmental management at Angus Place;
- Comply with all guidelines and legislative requirements relevant to this Strategy;
- Address the relevant conditions of PA 06_0021; and
- Address relevant commitments made in the Statement of Commitments.

1.3. Objectives

The primary objectives of this Strategy are to outline everyone's responsibility for environmental management at Angus Place and to demonstrate compliance with PA 06_0021 requirements.
Figure 1  Locality Plan
2. ENVIRONMENTAL POLICY

Inherent in the design, operation and management of all of Centennial Coal’s collieries is the goal of achieving viable mines while maintaining the highest level of environmental performance. Centennial’s Environmental Policy objectives are achieved by:

- Ongoing implementation of an Environmental Management System (EMS) that integrates environmental management into the business;
- Complying with all statutory requirements as a minimum;
- Recognising stakeholders and maintaining an effective working relationship with them;
- Ensuring that all employees and contractors are aware of their environmental responsibilities and receive the necessary training;
- Measuring, auditing and reporting environmental performance and implementing improvement actions where needed; and
- Using resources efficiently and minimising waste.

The policy is communicated to all employees working for or on behalf of the organisation through staff and contractor inductions, and is displayed in the buildings that Angus Place operates from. It is also available on the organisation’s intranet.

In addition, the policy is made available to the public on the Centennial Coal website at: www.centennialcoal.com.au. A copy is attached as Appendix 1.

3. CONTEXT

This Strategy provides the framework for environmental management of the project, limiting and mitigating the impacts on the surrounding environment both in the present and the future, and outlines methods for demonstrating compliance with conditions of project approval and relevant legislation.

3.1. Structure

The principal components of this Strategy’s framework are:

- This Environmental Management Strategy document – This document describes the components of the overall environmental management system to be operated at Angus Place;
- Environmental Management Plans – These documents include the individual plans covering (but not limited to) Site Water Management (including Erosion and Sedimentation Control), Air Quality, Noise and Flora and Fauna; and
- Environmental Monitoring Program – This document provides details of monitoring work and reporting functions in response to the various management plans. The purpose of environmental monitoring is to gather data on the performance of the operation and determine the need for improvements or additional mitigation measures in order to achieve the assessment criteria for the operation.

The assessment criteria have been established under the Project Approval, the Environmental Assessment (EA) and Environment Protection Licence (EPL) 467, details of which are provided in the various Environmental Management Plans.

In addition to the criteria in these documents, Angus Place has a Subsidence Management Plan (SMP) for Longwalls 930 – 980 that was prepared in consultation with relevant stakeholders and is approved by the NSW Department of Trade and Investment, Regional Infrastructure and Services – Division of Resources and Energy (DRE). The SMP requires various management plans and
monitoring programs including an Environmental Monitoring Program approved by the DRE. A list of approved management plans/programs under the SMP is provided in Section 5.2.

Angus Place prepared and submitted the Longwalls 900W and 910 Integrated SMP/Extraction Plan for approval to DP&I and DRE in November 2013 to satisfy the requirements of PA 06_0021 (as modified) and relevant mining tenements. Subject to approval of the Integrated SMP/Extraction Plan the management of subsidence associated with Longwalls 900W and 910 will be undertaken in accordance with the list of management plans/programs provided in Section 5.2.

Centennial has also developed a similar process for all its operations in line with its Environmental Policy. Centennial has a number of corporate goals which seek a balance between project objectives and environment impacts, the principles of Ecologically Sustainable Development and compliance with statutory requirements.

3.2. Ecologically Sustainable Development

Ecologically sustainable development (ESD) may be regarded as development that meets the needs of the present without compromising the ability of future generations to meet their own needs. It calls for a balance between conservation and development and is related to using resources in a manner that provides quality of life, equity, biodiversity and maintenance of ecological processes.

Sustainability is essentially about developing a system which is not self-destructive and does not take from the world’s future, but which takes account of social, environmental and economic factors in the decision making process. By integrating conservation practices and principles into the development process, a sustainable balance can be achieved between environmental and economic objectives.

The National Strategy for Ecologically Sustainable Development (NSESD) was adopted by all levels of Australian government in 1992. The NSESD provides broad strategic direction and framework for governments to direct policy and decision-making.

The NSESD provides a goal and core objectives relating to ESD.

The Goal

- Development that improves the total quality of life, both now and in the future, in a way that maintains the ecological processes on which life depends.

The Core Objectives

- To enhance individual and community well being and welfare by following a path of economic development that safeguards the welfare of future generations;
- To provide for equity within and between generations; and
- To protect biological diversity and maintain essential ecological processes and life-support systems.

The NSESD also contains three objectives specific to mining, these are:

- To ensure sound environmental practices throughout the mining industry;
- To provide appropriate community returns from mineral resource developments; and
- To improve community consultation and information, and to improve performance in occupational health and safety.

The ability to mine resources for the generation of electricity is essential to many facets of human life and well being. The benefits extend to all sections of the community and improve quality of life both now and in the future.
Angus Place will maintain biological diversity and essential ecological processes by identifying environmental aspects, assessing potential impacts and where necessary restricting development or applying appropriate mitigation measures. Disturbance by the project is minimal with extension of existing underground mining areas not increasing overall production nor requiring additional surface infrastructure.

Community consultation and information commenced in the approval process and will continue throughout the project. A Community Consultative Committee (CCC) has been established to provide a forum of exchange of information between the community and the Colliery and is discussed further in Section 5.8.1.

This Strategy, the Environmental Management Plans, documents under the SMP and Environmental Policy of Angus Place have been developed to enable the extraction of the coal resource in an environmentally responsible manner and in accordance with the goal and objectives of the NSESD.

3.2.1. Precautionary Principle

The precautionary principle, as defined by the Environmental Planning and Assessment Regulation 2000 (EP&A Regulation) (incorporating the Intergovernmental Agreement on the Environment and NSESD (Commonwealth of Australia, 1992) definition), dictates:

“.....that if there are threats of serious or irreversible environmental damage, lack of full scientific certainty should not be used as a reason for postponing measures to prevent environmental degradation.”

Application of the precautionary principle to mining developments involves careful evaluation of the project to enable accurate decision making for the development. This procedure has been examined in the EA document for the Project. Assessment of potential impacts and necessary management procedures has been addressed in the EA, the results of which are reflected in the Environmental Management Plans covering the operation.

3.2.2. Intergenerational Equity

Under the EP&A Regulation, the principle of intergenerational equity requires:

“...that the present generation should ensure that the health, diversity and productivity of the environment is maintained or enhanced for the benefit of future generations.”

The Rio Declaration on Environment and Development (Agenda 21) also adopted the principle that:

“...the right to development must be fulfilled so as to equitably meet developmental and environmental needs of present and future generations.”

The principle of intergenerational equity identifies a need to ensure that the requirements of the present generation can be met without precluding options for future generations. Whilst mining requires removal of a natural resource, the benefits from electricity generation improve the quality of life of present and future generations.

Mitigation measures to manage the environmental impacts associated with the operation are also required under the principle of intergenerational equity. Protection of the air, water, biological and noise environment of the area will contribute to meeting the requirements of intergenerational equity, protecting the quality of the environment for both the existing and future generations.
3.2.3. Conservation of Biological Diversity and Ecological Integrity

There is a need to maintain the biological diversity and ecological integrity of the region within which the operation is located. Conservation of ecological integrity requires that natural processes in the area continue to function. Angus Place has developed a comprehensive Flora and Fauna Monitoring Program which has been designed to effectively monitor any potential impacts from mining. The SMP and site EA’s outline mitigation measures to be implemented to prevent/minimise mining related impacts to flora and fauna at Angus Place. Additionally, management measures are outlined should any mining related impacts be detected. All mitigation and management measures pertaining to flora and fauna have been incorporated in the Flora and Fauna Management Plan and Environmental Monitoring Program prepared under PA 06_0021 (as modified).

3.2.4. Improved Valuation and Pricing of Environmental Resources

The goal of improved valuation of natural capital has been included in Agenda 21 of Australia’s Intergovernmental Agreement on the Environment. The principle of improved valuation and pricing refers to the need to determine proper values of services provided by the natural environment.

Angus Place will improve the valuation and pricing of the resources by:

- Optimising available use of the resource and minimising resource sterilisation;
- Allowing a valuable resource to be mined without permanent degradation of existing environmental resources; and
- Cost effective use of a potential resource.

The environmental costs of the project are borne by government and the local community. The costs to the community include increased water, noise and dust emissions, increased visual impacts and the potential for surface disturbance from subsidence. Potential subsidence effects have been examined in detail through both the SMP and site EA’s. Potential subsidence related impacts have been outlined during consultation with relevant government agencies. All impacts will be mitigated, but there are always residual implications. This is the case with all mining and extractive industries and not exclusive to Angus Place.

Angus Place has been active in offsetting these impacts by local investment and employment. The community as a whole benefits from the proposal by increased royalties and charges and economic flow on effects from employment and investment.

4. PLANNING

4.1. Environmental Aspects

To assist in developing relevant procedures to guide environmental management on the site, the main activities undertaken by Angus Place have been identified along with any associated potential environmental impacts. These are contained in an Environmental Risk Register, a component of the Angus Place EMS, which details environmental aspects with the associated risk rankings for all Colliery activities, along with the residual risks once appropriate controls have been employed.

The process of identifying Angus Place’s environmental aspects involves the following to assist in capturing any actual and/or potential environmental impacts:

- Systematic identification of all activities undertaken by Angus Place. Activities include those that are infrequent, supporting activities such as administration and maintenance, and services provided by contractors;
- Identification of the ways those activities can interact with the environment;
- Identification of the environmental impacts associated with the environmental aspects;
• Analysis of the risks to determine risk levels; and
• Evaluation of the risks to determine which environmental aspects and impacts are significant risks to the environment and/or Angus Place.

4.2. Legal and other Requirements

All activities at the site are conducted in accordance with relevant NSW and Commonwealth legislation, the commitments made in site EA’s and in compliance with PA 06-0021 (as modified). The Protection of the Environment Operations (POEO) Act 1997 is the primary legislation in NSW that regulates pollution. Angus Place operates in accordance with the criteria outlined within EPL 467, issued under Section 55 of this Act (Appendix 2).

4.3. Requirements Register

A register of the legal requirements will be maintained on site as part of this Strategy document. The requirements register includes, but is not limited to, Commonwealth and State legislation, Industry Codes of Practice, agreements with other stakeholders and industry guidelines. While every attempt has been made to include all relevant information, the register is dynamic.

Additional requirements will be added to the register as identified by the Mine Manager or Regional Environmental Coordinator.

4.4. Amendments and Updates of Environmental Legislation

Amendments and updates to relevant legal and the other relevant documentation will be recorded and maintained by a variety of methods including, but not limited to:

Separate advice received from (Commonwealth, State and Local) government bodies, including:

• Commonwealth Department of Sustainability, Environment, Water, Population and Communities (SEWPaC);
• DRE;
• NSW Office of Water (NOW);
• NSW Environment Protection Authority (EPA);
• NSW Roads and Maritime Services (RMS);
• Greater Lithgow City Council; and
• Forestry Corporation of NSW (FCNSW).

Websites and e-mail updates from the various government agencies. This may include, but not be limited to, the following websites:

• www.environment.gov.au (SEWPaC website);
• http://www.resources.nsw.gov.au/ (DRE website);
• www.water.nsw.gov.au (NOW website);
• www.environment.nsw.gov.au (EPA website);
• www.rms.nsw.gov.au (RMS website); and
• www.rfs.nsw.gov.au (Rural Fire Service (RFS) website).

Direct access to the relevant Commonwealth and State legislation on the internet at www.austlii.edu.au.

Further information will be received by Angus Place from releases and notification from relevant industry/mining organisations and professional bodies (e.g. NSW Minerals Council); from advice received from Angus Place internal legal advisors; and from a subscription to Australian Standards (where available).
4.5. Authority Requirements

The Mine Manager is responsible for ensuring that the conditions contained within the EPL are met, and where required that the EPA is notified of any change that may result in the licence needing to be reviewed or amended. The general requirements of the EPL are incorporated in Angus Place’s environmental procedures. Copies of the EPL are held at the Colliery.

4.6. Relevant Guidelines and Standards

Various standards and guidelines that apply to mining activities are recorded to ensure best practice methods are employed at the site. Applicable guidelines and standards are held at Angus Place.

4.7. Standard Environmental Conditions (Contractors and Sub Contractors)

All contractors and subcontractors working on site are required to undertake their work in accordance with Angus Place’s Environment Policy, EMS, Environmental Management Plans and various policies and procedures. These documents are designed to comply with all applicable laws and regulations. Wherever conflict exists between the PA and any existing documents, the PA will prevail.

4.8. Objectives, Targets and Programs

Consistent with Angus Place’s environmental policy, measurable objectives and targets are set each year for their significant environmental aspects and recorded in a Register of Environmental Objectives and Targets. The register also lists action plans, improvement programs and controls for achieving those objectives and targets, as well as key performance indicators (KPIs) to monitor progress in achieving the objectives and targets. The register is revised in the management review and the extent to which objectives and targets have been met.

4.9. Statutory Approvals

In accordance with the requirements of Schedule 2, Condition 7 of PA 06_0021, Angus Place has surrendered all previous development consents associated with mining operations. Leases held by Angus Place are summarised in Table 1.
### Table 1. Summary of Leases

<table>
<thead>
<tr>
<th>Lease Type</th>
<th>Number</th>
<th>Approval Date</th>
<th>Expiry</th>
<th>Covering</th>
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<tbody>
<tr>
<td>Consolidated Coal Lease</td>
<td>702</td>
<td>12 September 1983</td>
<td>24 November 2024</td>
<td>Portion held by Angus Place Colliery via sublease agreement with Coalpac Pty Ltd. Renewed 12 May 2005.</td>
</tr>
<tr>
<td>Mining Lease</td>
<td>1326</td>
<td>28 September 1993</td>
<td>18 August 2024</td>
<td>Part lease transfer from Springvale to Angus Place for Longwall 900W.</td>
</tr>
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</table>

Source: Mod 2 of Project Approval 06_0021 EA (RPS Australia 2012)

Further to this, Table 2 presents a summary of other approvals, titles, licences and permits currently held for Angus Place.

### Table 2. Summary of other Approvals, Titles, Licences and Permits

<table>
<thead>
<tr>
<th>Approval/Lease/Licence/Permit</th>
<th>Description</th>
<th>Details/Status</th>
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<tbody>
<tr>
<td>Approval</td>
<td>Project Approval (06_0021) – increase mining area and annual production.</td>
<td>A Statement of Commitments was established with the Project Approval. This outlines the ongoing community commitments and consultation measures, environmental management, mitigation, monitoring and reporting measures that will be implemented with the approved mining operations.</td>
</tr>
<tr>
<td>Approval</td>
<td>Section 75W Modification of Project Approval 06_0021 – longwalls 910 and 900W and increase in annual production.</td>
<td>The notice of modification includes amended conditions and Modification 1 Statement of Commitments.</td>
</tr>
<tr>
<td>Approval</td>
<td>Modification 2 of PA 06_0021 - Development of underground roadways and the construction and operation of a Ventilation Facility and supporting infrastructure.</td>
<td>The notice of modification includes amended conditions and Modification 2 Statement of Commitments.</td>
</tr>
<tr>
<td>Approval</td>
<td>Modification 3 of PA 06_0021 - Extending the length of Longwalls 980 and 900W, and an increase to the maximum extraction height of Longwalls 980, 900W and 910.</td>
<td>The notice of modification includes amended conditions.</td>
</tr>
<tr>
<td>Approval/Lease/Licence/Permit</td>
<td>Description</td>
<td>Details/Status</td>
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<td>-------------------------------</td>
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</tr>
<tr>
<td>Approval</td>
<td>Haul Road</td>
<td>Consent 105/92 from the Council of the City of Greater Lithgow to Coal Link Pty Ltd.</td>
</tr>
<tr>
<td>Approval</td>
<td>Subsidence Management Plan Approval</td>
<td>Subsidence management approval for longwalls 930 to 980.</td>
</tr>
<tr>
<td>Approval</td>
<td>EPBC Act approval for longwalls 910 and 900W and increase in annual production.</td>
<td>Approval with conditions issued April 2012.</td>
</tr>
<tr>
<td>Licence</td>
<td>Exploration licences</td>
<td>Exploration Licences EL6856, EL6293 and EL8188 are held by Angus Place Colliery.</td>
</tr>
<tr>
<td>Licence</td>
<td>EPL</td>
<td>EPL No. 467 covers the pit top area, Kerosene Vale operations and Newnes Plateau (emergency discharge point). Five utilisation/discharge points are authorised under the licence and the annual renewal date of the licence is 1 January.</td>
</tr>
<tr>
<td>Licence</td>
<td>Groundwater Licences</td>
<td>Groundwater licences approved under the Water Act 1912 are held for the 930 (10BL60185210WA118750) (decommissioned) and 940 (10BL601855110WA118750) dewatering boreholes in addition to the groundwater collection system (10BL60183810WA118748). Groundwater monitoring licences approved under the Water Act 1912 are held for a series of shallow and deep groundwater monitoring piezometers. The piezometers measure groundwater behaviour levels across the Mining Lease area. The objective of these monitoring installations is to establish a baseline data set.</td>
</tr>
<tr>
<td>Licence</td>
<td>Radiation Licences</td>
<td>Radiation licence (registration number RR11830) for the fixed radiation gauge that measures the ash content of the coal product, as well as a licence to possess and sell radioactive substances (29229).</td>
</tr>
</tbody>
</table>

### 4.10. Project Approval Conditions

The granting of Approval for the project imposed a number of conditions. These conditions include assessment criteria covering air, water and noise emissions, environmental management planning and reporting requirements. This document specifically addresses conditions listed in Schedule 5 Condition 1 as summarised in Table 3.
### Table 3. Relevant Project Approval Conditions

<table>
<thead>
<tr>
<th>Condition</th>
<th>Condition Requirement</th>
<th>Section Addressed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schedule 5, Condition 1</td>
<td>Prepare and subsequently implement an Environmental Management Strategy for the project. This strategy must:</td>
<td>This document.</td>
</tr>
<tr>
<td>(a)</td>
<td>be submitted for approval to the Director-General within 6 months of this approval;</td>
<td>1.1</td>
</tr>
<tr>
<td>(b)</td>
<td>Provide the strategic framework for the environmental management of the project;</td>
<td>5</td>
</tr>
<tr>
<td>(c)</td>
<td>Identify the statutory approvals that apply to the project;</td>
<td>4.9</td>
</tr>
<tr>
<td>(d)</td>
<td>Describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the project;</td>
<td>5.4</td>
</tr>
<tr>
<td>(e)</td>
<td>Describe the procedures that would be implemented to:</td>
<td>5.8</td>
</tr>
<tr>
<td></td>
<td>• Keep the local community and relevant agencies informed about the operation and environmental performance of the project;</td>
<td>5.10</td>
</tr>
<tr>
<td></td>
<td>• Receive, handle, respond to, and record complaints;</td>
<td>5.10</td>
</tr>
<tr>
<td></td>
<td>• Resolve any disputes that may arise during the course of the project;</td>
<td>6.4, 5.13</td>
</tr>
<tr>
<td></td>
<td>• Respond to any non-compliance; and</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Respond to emergencies.</td>
<td></td>
</tr>
<tr>
<td>(f)</td>
<td>Include:</td>
<td>5.2</td>
</tr>
<tr>
<td></td>
<td>• Copies of any strategies, plans and programs approved under the conditions of this approval; and</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• A clear plan depicting all the monitoring required to be carried out under the conditions of this approval.</td>
<td></td>
</tr>
</tbody>
</table>

*Note: *Refers to Table 8.1 of the EA (RPS Australia 2010)*

Table 4 provides details of relevant commitments made by Angus Place in the Statement of Commitments as appended to the PA. The table also details where the commitment has been addressed within this management plan.

### Table 4. Relevant Statement of Commitments

<table>
<thead>
<tr>
<th>Condition</th>
<th>Commitment</th>
<th>Section Addressed</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.1</td>
<td>Within 6 months of obtaining approval relevant management plans (Table 6.1*) will be reviewed and updated as required.</td>
<td>5.8.2</td>
</tr>
</tbody>
</table>

Note: *Refers to Table 8.1 of the EA (RPS Australia 2010)*
Table 8.1 of the EA outlines Angus Place management plans, strategies and programs that require to be revised for consistency with the EA (RPS Australia 2010). Table 5 outlines the revision required to the Strategy by this table and Statement of Commitment 4.1.

<table>
<thead>
<tr>
<th>Title</th>
<th>Objective/Purpose</th>
<th>Review Required Following Approval</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental Management Strategy</td>
<td>This describes the overall management strategy at Angus Place Colliery.</td>
<td>Yes – revise to include the maintenance of liaison with the Aboriginal Community as per the DECCW Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010 during the proposed works, should any matters relating to Aboriginal heritage occur.</td>
</tr>
</tbody>
</table>

Source: Modification of Project Approval 06_0021 EA (RPS Australia 2010)

4.11. Guidelines

Various policies, guidelines and plans are applicable to Angus Place’s operations and should be recorded to ensure best practice methods are employed at the site.

Key guidelines and standards used in the preparation of this Strategy include the following:
- Environmental Management System Tool by SEWPaC,
- Project Conditions of Consent;
- PA Statement of Commitments; and
- EPL 467.

4.12. Consultation

Angus Place is aware of its community obligations and the need to keep lines of communication open. To this end, Angus Place will endeavour to keep the local community affected by its operation informed of its direction, plans and environmental performance. This is achieved by the following activities:

- Establishment of a Community Consultative Committee (CCC) (see Section 5.8.1);
- Community Newsletters;
- Advise of 24 hour telephone complaints line; and
- Engage in informal discussions with local residents as required.

Extensive consultation was undertaken during the preparation of the Modification of Project Approval 06_0021 the relevant Environmental Assessments which supported applications to modify PA 06_0021. This included a program of community and government consultation to ensure that potential impacts and environmental issues were identified and to raise awareness amongst the relevant stakeholders. Relevant stakeholders included the following:

- Angus Place CCC;
- Bathurst Local Aboriginal Land Council;
- Commonwealth Department of Environment, Water, Heritage and the Arts;
- Department of Environment, Climate Change and Water NSW (now EPA);
- FCNSW;
- Gundungurra Tribal Council Aboriginal Corporation;
- DRE;
- Greater Lithgow City Council;
- Mine Subsidence Board;
- Mingaan Aboriginal Corporation;
Community consultation will continue throughout future operations at the site. Consultation is described in detail in the relevant EA’s, and ongoing consultation is addressed later in this Strategy.

5. IMPLEMENTATION AND OPERATION – STRATEGIC FRAMEWORK

5.1. Strategic Context for Environmental Management

Environmental management at the colliery is implemented through a process of identifying and evaluating environmental aspects, potential impacts and developing mitigation measures to minimise potential impacts. An inspection and monitoring program is used to assess the effectiveness of environmental management and procedures have been developed to respond to any non-compliances or emergencies.

An Annual Environmental Management Report (AEMR) (now known as an Annual Review) is prepared on an annual basis and lodged with the DRE. Copies are provided to relevant agencies including the DP&I and EPA. The AEMR/Annual Review describes the overall management system for the operation and specifically reports on the progress made in implementing any specific initiatives noted in the overall Mine Operations Plan (MOP), previous AEMR’s or matters raised by the DRE and DP&I. The AEMR/Annual review also sets out the program for the coming reporting period, results of environmental monitoring undertaken and assesses the environmental performance of the operation.

5.2. Environmental Management Plans and Monitoring Programs

Consistent with our Environmental Policy, Angus Place Colliery has developed a number of documents to guide environmental management. These documents, including environmental management plans, strategies and programs identify potential environmental impacts and mitigation measures. These plans include the following:

- Site Water Management Plan including:
  - A Water Balance;
  - An Erosion and Sediment Control Plan;
  - A Surface Water Monitoring Program;
  - A Ground Water Monitoring Program; and
  - A Surface and Ground Water Response Plan.
- Air Quality Monitoring Program;
- Noise Monitoring Program;
- Flora and Fauna Management Plan;
- Landscape Plan;
- Ventilation Facility Rehabilitation Management Plan;
- Construction Environmental Management Plan; and
- Rehabilitation Management Plan.

Each document provides the strategy whereby potential impacts are identified, mitigation measures applied and assessment criteria developed to provide an acceptable level of performance. The plans will be reviewed on an annual basis and modified as required according to monitoring results, environmental performance and any changes in assessment criteria or government requirements.
Under the SMP for Longwalls 930 – 980, Angus Place also has the following documents as approved by DRE:

- Subsidence Monitoring Program;
- Environmental Monitoring Program;
- Newnes Plateau Shrub Swamp Management Plan;
- Kangaroo Creek Management Plan;
- Subsidence Community Consultation Process; and
- Roads and Infrastructure Management Plan.

The Longwalls 900W and 910 Integrated SMP/Extraction Plan was submitted on 27 November 2013 and following approval, management of subsidence impacts resulting from the secondary extraction of these panels will be undertaken in accordance with the following:

- Site Water Management Plan;
- Flora and Fauna Management Plan;
- Longwalls 900W and 910 Heritage Management Plan;
- Longwall 900W Powerlines Management Plan;
- Longwalls 900W and 910 Built Features Management Plan;
- Longwalls 900W and 910 Land Management Plan;
- Longwalls 900W and 910 Rehabilitation Management Plan;
- Longwalls 900W and 910 Subsidence Monitoring and Reporting Program;
- Longwalls 900W and 910 Public Safety Management Plan;
- Longwalls 900W and 910 Kangaroo Creek Management Plan;
- Longwalls 900W and 910 Subsidence Community Consultation Process; and

5.3. Environmental Inspections and Impact Verification

A program of inspections is carried out at Angus Place by both on site personnel and external contractors. The purpose of these inspections is to verify that procedures listed in the environmental management plans are being successfully implemented to limit the impact on the environment. They are also important in identifying any areas where environmental works require upgrading, and are proactive in detecting and preventing potential environmental incidences.

Inspections include all water management and erosion control structures, dust management, noise management, coal handling areas, storage areas and rehabilitation areas. In summary, the inspection regime includes:

- Weekly inspections by the Site Foreman for the Sewage Treatment Plant, hardstand areas, coal handling areas general housekeeping, water management (including licensed discharge points and sediment control structures), dust management and noise management;
- Following heavy rainfall events inspections are undertaken by the Environment and Community Coordinator (E&C Coordinator) for all water management and sediment control structures; and
- Monthly inspections are undertaken by the E&C Coordinator for all items detailed above.

In addition to inspections by site personnel, Angus Place use contractors to inspect and replace straw bales, oil booms and to provide routine cleaning and maintenance services.

Routine inspections on the Newnes Plateau, including photographic monitoring, are undertaken as requirements of the SMP and are detailed in the Environmental Monitoring Program.
5.4. Resources, Roles, Responsibility, Authority and Accountability

Various positions in the organisation have roles, responsibilities and authorities for managing environmental aspects, action plans, programs and controls. All employees and contractors of Angus Place are responsible for environmental management at the Colliery.

Notwithstanding, contact details for key site personnel and responsibilities associated with the Strategy are provided in Table 6.
Table 6. Key Personnel and Accountability

<table>
<thead>
<tr>
<th>Position</th>
<th>Responsibility</th>
<th>Contact Number</th>
</tr>
</thead>
</table>
| Mine Manager                     | - Overall responsibility for environmental compliance with Mining Lease, EPA Licence, Project Approval and mining approvals;  
                                    |   - Planning for adequate resources to implement this Strategy;  
                                    |   - Approving revised versions of this Strategy; and  
                                    |   - Investigating community complaints and or enquiries in consultation with the E&C Coordinator.                                                                                                       | (02) 6354 8721 |
| Environment and Community        | - Co ordinate environmental monitoring, reporting, inspections, environmental training, authority liaison, maintaining complaints register, rehabilitation planning, representation on Consultative Committee, community liaison;  
                                    |   - Allocation of resources within area of responsibility and budget;  
                                    |   - The implementation and adherence to this Strategy;  
                                    |   - Providing adequate training to employees and contractors regarding their requirements under this Strategy;  
                                    |   - Contractor management; and  
                                    |   - Delegating tasks associated with this Strategy when responsible personnel are absent.                                                                                                                    | (02) 6354 8938 |
| Coordinator                      |                                                                                                                                             |                |
| Centennial Group Environmental   | - Co-ordination of external audits, corporate reporting and management.                                                                                                                                     | (02) 4935 8924 |
| Manager                          |                                                                                                                                             |                |

The Mine Manager is ultimately responsible for adherence to any conditions attached to these approvals and instruments.

5.5. Competence, Training and Awareness

Competence refers to the knowledge, understanding, skills or abilities required for a person to effectively and efficiently carry out the position or role. Competence can be determined through appropriate education, training, experience and assessment.

General awareness of the organisation’s Strategy is propagated through an EMS training package provided during induction of staff and contractors, as well as in refresher sessions. General EMS awareness is assessed following the induction and refresher sessions, and records of assessment are maintained on site.

More specific training on Angus Place’s Strategy is provided in operational procedures and emergency preparedness and response documentation as required.

5.6. Communication

Angus Place communicates with a diversity of people from a range of locations on environmental matters, from site personnel and contractors, to community members, to government agencies and departments.

5.7. Personnel

Each employee and contractor is responsible for adhering to the Angus Place Environmental Policy. Angus Place provides training on the EMS and the Environmental Policy to employees and
contractors in their relevant area. Environmental information and training is typically communicated via:

- New staff, contractor and visitor induction training;
- Environmental and community awareness training;
- Toolbox training; and
- Other specific training as required (e.g. Due diligence training for Line Management).

Further information about the organisation’s environmental aspects and this strategy is contained in the site EMS.

5.8. Community

Angus Place is aware of its community obligations and the importance of open communication with the community. Angus Place will endeavour to keep the local community affected by its operation informed of its direction, plans and environmental performance. This is achieved by the following activities:

- The CCC;
- Holding Open Days and Displays at local Shows;
- A 24 hour telephone complaints line; and
- Engaging in informal discussions with local residents as required.

5.8.1. Community Consultative Committee

In accordance with Condition 8 of Schedule 5 of the PA, a CCC has been established to monitor the project and provide a forum whereby the community can communicate with the mine operators and be kept up to date with the progress of the mine. The committee is composed of:

- An independent chairperson;
- Two representatives from Centennial Coal, including the Environmental Coordinator;
- One representative from Council;
- One representative from FCNSW; and
- At least three representatives from the local community.

The appointment of committee members was approved by the Director-General in consultation with Council. CCC meetings are held at least twice per year in accordance with the requirements of the PA.

5.8.2. Liaison with Aboriginal Community

In accordance with Statement of Commitment 4.1 in the Project Approval, ongoing liaison with the Aboriginal community will be undertaken during the proposed works should any matters relating to Aboriginal heritage occur. This consultation will be undertaken in accordance with the EPA Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010.

A Longwalls 900W and 910 Heritage Management Plan has been prepared in accordance with Schedule 3, Condition 3C(h) of PA 06_0021 (as modified). This plan was prepared in consultation with OEH and relevant Aboriginal stakeholders and outlines the monitoring and management measures to be implemented to manage potential environmental consequences of proposed secondary extraction of Longwalls 900W and 910 upon Aboriginal heritage sites or values. This plan was submitted to the DTIRIS and DP&I for approval in November 2013 as a component of the Integrated SMP/Extraction Plan.
5.9. Government and other Agencies

Angus Place regularly engages with various government and other agencies to report on its environmental performance. This is facilitated through a number of means including:

- Council representation on the CCC;
- CCC report and AEMR/Annual Review to the DP&I;
- Liaison with and reporting to EPA on any exceedance of EPL conditions;
- Provision of the AEMR/Annual Review to DRE and other relevant Government agencies;
- Provision of the Annual Licence Return to EPA; and
- Provision of the National Pollution Inventory (NPI) to SEWPaC via EPA.

5.10. Complaints Handling and Dispute Resolution

A complaints line currently exists at the mine to receive calls from the local community. Angus Place’s complaints line (02 6354 8700) operates 24 hours a day, 7 days a week. The phone number is listed in the local directory for easy access and all residents are encouraged to contact the site regarding any issue of concern. All complaints are logged on a complaints form, which forms part of the Register of Complaints that is maintained in accordance with the requirements of EPL 467. The complaints form includes the following details:

- Date and time of the complaint;
- Complainant details;
- Details of the issue or complaint;
- Actions taken to remediate the issue;
- Follow up actions required;
- Details of further liaison with complainant; and
- Closure of the issue.

Angus Place’s Standard Work Procedure (SWP0229) ‘T032 Response – Community Complaints and Requested For Information’ outlines that the person receiving the call/ email/ personal communication/ letter has the responsibility to correctly follow the steps of the Standard Work Procedure when an initial response to an complaint is being undertaken, when an investigation into a complaint is being undertaken or when a request for information has been made by the community. Additionally, Angus Place are to follow the chart for community initiated contact (Figure 3) when receiving a complaint. Details pertaining to community complaints reporting requirements are outlined in Table 7.

If a complaint escalates into a dispute, associated issues will be handled by mine management. If a dispute cannot be resolved through typical processes, an independent dispute resolution process will be initiated as shown in Figure 4.
Environmental Management Strategy

**Procedure for Community Initiated Contact**

Contact received by mine personnel. If enquiry/complaint is of environmental nature, contact the Environment and Community Coordinator and/or the Mine Manager. If this is not possible take particulars of the enquiry/complaint, including details of the issue and contact details. Give the contact person your name.

**Can the issue be resolved by the person receiving the contact?**

- **No**
  - Explain that the issue will be passed onto the Environment and Community Coordinator and give a timeframe for response.

- **Yes**
  - Resolve issue and record details of information provided.

Pass record sheet onto Environment and Community Coordinator.

*Figure 3  Procedure for Community Initiated Contact*
Table 7. Community Complaints Reporting Requirements

<table>
<thead>
<tr>
<th>Report to</th>
<th>Report Mechanism</th>
<th>Reported By</th>
<th>Report Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPA</td>
<td>Annual Return from Licence</td>
<td>Two Company Directors with a statement from Mine Manager based on info from E&amp;C Coordinator.</td>
<td>Received by Company Directors 4 weeks before report due.</td>
</tr>
<tr>
<td></td>
<td>Reporting of Exceedence</td>
<td>E&amp;C Coordinator.</td>
<td>Varies according to severity/duration of non-compliance – usually as soon as possible</td>
</tr>
<tr>
<td>DP&amp;I</td>
<td>Annual Report to Director-General</td>
<td>CCC Chairperson E&amp;C Coordinator</td>
<td>Annually</td>
</tr>
<tr>
<td></td>
<td>Biannual Meetings (CCC)</td>
<td>E&amp;C Coordinator.</td>
<td>At meetings plus documented in minutes</td>
</tr>
<tr>
<td>Mine Manager</td>
<td>Verbal/weekly report</td>
<td>E&amp;C Coordinator.</td>
<td>Within 1 working day of advice</td>
</tr>
<tr>
<td>Mine Manager</td>
<td>Monthly Operational Report</td>
<td>E&amp;C Coordinator.</td>
<td>Within 2 working days of month end</td>
</tr>
<tr>
<td>Community Consultative Committee</td>
<td>Report to Biannual meetings</td>
<td>E&amp;C Coordinator.</td>
<td>At meetings plus documented in minutes</td>
</tr>
<tr>
<td>Centennial Board</td>
<td>Monthly Environment Report</td>
<td>Operations Manager (with information provided by Group Environmental Manager)</td>
<td>Relevant Board report/meeting</td>
</tr>
<tr>
<td>Group Environmental Manager</td>
<td>Monthly Report</td>
<td>E&amp;C Coordinator.</td>
<td>End of month</td>
</tr>
</tbody>
</table>
Matter referred to Independent Dispute Facilitator appointed by the Department in consultation with Council

Individual Dispute Facilitator meets with parties and discusses dispute

Dispute resolved

Dispute not resolved

Facilitator consults relevant independent experts for advice on technical issues

Facilitator meets with relevant parties and experts

Dispute resolved

Dispute not resolved

Facilitator consults the Department and final decision made

Agreed outcome

Figure 4 Independent Dispute Resolution Process
5.11. Documentation

The Mine Manager is responsible for documentation and document control, specifically for ensuring that the Strategy is controlled in accordance with set procedures. To ensure that document control procedures are maintained and effective in enabling documents to be located, reviewed and revised as necessary, and for current and obsolete documents to be easily identified, the Mine Manager will conduct a document audit as part of the management review process.

5.12. Control of Documents

This Strategy will be retained in a controlled format at Angus Place by the Mine Manager. Management, retention, revision and superseding of environmental documentation are the responsibility of the Mine Manager.

The purpose of establishing and maintaining procedures for controlling all Strategy documentation is to ensure that all documents can be located, reviewed and revised as necessary and current and obsolete documents easily identified. The Mine Manager is responsible for ensuring that the Strategy is controlled in accordance with these procedures.

If any part of the document is revised and changed, replacement versions are to be sent out to all personnel registered as holding a controlled copy of the Strategy. All copies of the old version are to be destroyed, and the old master copy to be marked ‘Superseded’ and filed in the central filing system. Copies of all environmental documentation referenced in the Strategy are kept in the main office filing system.

To ensure that document control procedures are maintained and effective in enabling documents to be located, reviewed and revised as necessary and for current and obsolete documents to be easily identified, the Mine Manager will conduct a document audit as part of the management review process.

5.13. Emergency Preparedness and Response

Emergency and accident situations with the potential to have an impact on the environment are identified by Angus Place when considering environmental aspects. Environmental emergencies and accidents are therefore subject to a risk analysis and determination of environmental significance and handled accordingly in the site’s EMS. Objectives and targets are identified to mitigate or prevent impacts arising from environmental emergencies and accidents, and an emergency response plan is established to achieve the objectives and targets.

The specific requirements for Pollution Incident Response Management Plans (PIRMP) are set out in Part 5.7A of the Protection of the Environment Operations Act 1997 (POEO Act) and the Protection of the Environment Operations (General) Regulation 2009 (POEO(G) Regulation). Accordingly Angus Place has prepared a Pollution Incident Response Management Plan to assist in preparedness and response to environmental incidents.

Angus Place also has developed a site Emergency Management System as part of the Safety Management System. The Environmental Management System is embedded within the Emergency Management System. The Environmental Management System adequately addresses any significant environmental emergencies, and ensures that an effective response is initiated to minimise any potential environmental impact should the unlikely event of an environmental emergency occur. A procedure for external environmental incident reporting (SWP0229 T031) is contained within the Environmental Management System. In addition, Angus Place will ensure that all employees and contractors at the Colliery are aware of the Emergency Management System through inductions and regular toolbox talks.
The Emergency Management System will be periodically tested on site. Planned tests will be recorded in a Register of Emergency Response Tests. Angus Place’s emergency preparedness and response will be reviewed after every test and after the occurrence of each environmental emergency and accident. The aspect identification and significant impact determination of an environmental emergency or accident, and Angus Place’s Emergency Management System will be revised where appropriate after a review.

Environmental emergencies and accidents are regarded as environmental non-compliances. Accordingly, in the event of an occurrence, immediate action is taken to mitigate the environmental impact, followed by corrective action to avoid a recurrence.

6. CHECKING

6.1. Monitoring and Measurement

In order to verify the degree of impact the operation is having on the environment and the success of mitigation measures employed, a detailed monitoring program covers all Angus Place operations. Details of the monitoring program including water, noise, dust, flora and fauna are contained in a separate document titled “Angus Place Colliery – Environmental Monitoring Program”. A summary of the proposed monitoring program is provided below. Any changes to monitoring will trigger an update of the Environmental Monitoring Program and relevant management plans and not an update of this Strategy.

6.1.1. Surface Water

Monitoring of discharges from the site occur in accordance with the current EPL 467. Angus Place currently has five EPA licensed discharge points. No additional discharges will occur as a result of the extension of underground mining.

The monitoring program will be reviewed on an annual basis and at each stage of the project to ensure that mine management, government authorities and the local community are provided with a complete and accurate picture of the environmental effects and emission from the mine. Regular review of the effectiveness of the monitoring will allow Angus Place to expand or alter the monitoring program as required.

6.1.2. Groundwater

A comprehensive groundwater monitoring program will be used to monitor the potential impacts on both groundwater baseflow and surface water flows in water bodies above the mine. These flows are critical to the protection of upland swamps and wetlands above the mine. The proposed groundwater monitoring program includes water level at 12 locations (with groundwater quality at 4 of these) and surface water quality and flow at 4 locations.

6.1.3. Air Quality

A network of eight dust deposition gauges have been used to measure dust fallout from the site. These gauges have been operational for over 10 years and will continue to be used to assess any potential air quality impacts from site operations.

A high volume air sampling unit was installed in May 2009 to measure Total Suspended Particulates (TSP) and Particulate Matter less than 10 µm in diameter (PM_{10}) leaving the site. The monitoring equipment operates on a one in six day cycle to record ambient concentrations of TSP and PM_{10}.

The air quality monitoring measures any potential impact on nearby residences from operations at Angus Place.
A weather station operates on the site. Data on windspeed and direction, temperature, rainfall and relative humidity is recorded. This data is compared with air quality monitoring results to determine any trends and contributions from site activities or other surrounding landuses.

### 6.1.4. Noise Monitoring

Angus Place will conduct noise monitoring on a quarterly basis. Attended monitoring will occur adjacent to 3 nearby residences and unattended monitoring at the Pit Top.

Any exceedance of the assessment criteria or receipt of a noise complaint will trigger further monitoring.

### 6.1.5. Flora and Fauna Monitoring

The proposed flora and fauna monitoring program includes flora monitoring at 42-21 locations and fauna monitoring at 4-7 locations (including an additional three flora and fauna monitoring sites above Longwalls 900W and 910). Flora and fauna monitoring will occur in Summer, Autumn and Spring.

The following parameters are measured at each quadrat during each monitoring period:

- Species composition and cover/abundance;
- Condition of Swamps and Associated vegetation;
- Plant species diversity (including the presence of exotic species);
- Photographic monitoring at each quadrat;
- Discussion on comparative monitoring results; and
- Condition of key species within swamps.

Monitoring is carried out by way of a manual inspection of each quadrat. Species identified are recorded and the data analysed. Photographs of each quadrat are taken during each monitoring period and these accompany the monitoring reports. Inspections are carried out by a qualified, experienced and recognised flora consultant. Angus Place engages specialists to undertake the monitoring detailed in this Section.

### 6.2. Cumulative Impact Assessment

Within the local area there are a number of industries with the potential to have an environmental impact, including Angus Place, two Power Stations (and associated ash placement areas) and underground and open cut coal mines. While each of these individual entities may themselves comply with environmental standards and legislation, the combined effect of these operations may result in environmental limits and criteria being exceeded at surrounding properties.

In order to deal with existing potential cumulative impacts, Angus Place undertake dust monitoring in the surrounding area and analyse the data for trends in dust deposition and correlate them with weather data to determine and quantify where possible, contributions from other dust generators. In the event that the cumulative impact is unacceptable, discussions will be arranged with other dust generators to produce a combined effort to reduce the overall dust impact on the surrounding environment.

Similarly, noise monitoring is undertaken to identify noise sources in the local area, other than Angus Place, and their contribution to background noise levels. Discussion will be held when necessary to ensure that noise criteria are met at surrounding properties through a combined effort from dominant noise sources.
Groundwater monitoring is based around the measurement of groundwater levels above areas potentially affected by mining. Any measured impact will actually be a cumulative impact and include any influence from surrounding industries.

6.3. Evaluation of Compliance

Once a year, a compliance audit is conducted to evaluate compliance with legal requirements applicable to Angus Place and other requirements to which Angus Place subscribes. This is undertaken by completing the columns identified in the Register of Legal and Other Requirements as ‘Evidence required for compliance’ and ‘Evaluation of compliance (yes/no)’.

The register that is completed in this compliance audit becomes a record of the evaluation of compliance. Where non-compliance is detected, this is followed up with corrective action.

6.4. Non-Compliance, Corrective and Preventative Action

There are three categories of non-compliance, each having a different response. These are Technical Non-Compliance, Exceedance of Environmental Criteria and Pollution Events.

Technical non-compliance issues relate to on site procedures and management practices, which do not give rise to potential harm to the environment or could otherwise be detected in the environmental monitoring program. Such incidents do not require remediation but may result in changes in the management plans for the operation. Examples would include sedimentation ponds being found to have more than 30% silt build up, drums left outside designated areas or actions taken in response to community complaints despite compliance being demonstrated. These issues do not require notification of any government agencies.

The monitoring program for Angus Place is collected and analysed by an external accredited laboratory. Monitoring results are sent to both the Mine Manager and E&C Coordinator on a monthly basis, usually within two weeks of collection. Should the monitoring program detect an exceedance in licence or PA criteria but there is no actual or potential material harm to the environment, then the EPA and/or DP&I as relevant will be informed in writing. Information to be provided will include an analysis of the data, potential causes of the exceedance and additional control procedures to be implemented.

All non-compliances are reported in the AEMR/Annual Review and Pollution Control Licence returns. The individual management plans have reporting requirements for exceedances in developed assessment criteria.

Amendments to Section 148 the POEO Act effective as of 6 February 2012 require that holders of an EPL must report incidents that are a risk of material harm to the environment or health, as soon as practicable. Licensees must notify all relevant authorities about incidents including the following:

- The appropriate regulatory authority (ARA);
- The Environmental Protection Authority (EPA) (if not the ARA);
- The Ministry of Health;
- The WorkCover Authority;
- The local authority (if not the ARA): and
- Local emergency services.

6.5. Internal Audit Reports

The purpose of establishing and maintaining programs and procedures for periodic audits and inspections of the Strategy is to determine the level of:
• Compliance with environmental conditions of licences including the EPL, mining lease and development consent conditions; and
• On-site implementation and maintenance of the EMS.

During normal operations the Mine Manager will undertake routine inspections of activities around the mine. Areas of non-compliance will be immediately brought to the attention of the employees so that they can be rectified to reduce the likelihood of an environmental incident occurring.

Representatives from various regulatory agencies such as EPA and the Greater Lithgow City Council, may undertake routine environmental compliance audits and site inspections as part of the regulatory assessment for annual reporting and licencing requirements. Audits and inspections are typically pre-arranged between both parties, however regulatory agencies have the discretion of undertaking these unannounced.

In addition to this, Angus Place will engage the services of a suitably qualified auditor to undertake compliance audits in accordance with relevant conditions and reporting requirements for the AEMR/Annual Review, and where required, any additional requirements by relevant stakeholders.

7. MANAGEMENT REVIEW

Regular review of the Strategy is required to ensure that the document remains relevant to the objectives of the Centennial’s Environmental Policy.

The purpose of management review of the Strategy will be to identify any weaknesses or out of date procedures. The aim is to maintain the Strategy in line with current industry and Australian standards and changes to environmental legislation.

Angus Place Management will review and update the Strategy within 3 months of the completion of each Independent Environmental Audit as required by Schedule 5, Condition 4 of the PA.

Should inadequacies in the Strategy be identified prior to the Independent Environmental Audit, Angus Place Management will update the Strategy at this time.

The management review will address the possible need for changes to plans and environmental management systems, in light of environmental management system audit results, changing circumstances and the commitment to continual improvement.
Environment and Community Policy

Our Vision

To conduct our business in an efficient and environmentally responsible manner, that is compatible with the expectations of our shareholders, government, employees and the community.

Beliefs

- Everyone has a responsibility for minimising impact to the environment.
- Environmental performance can always be improved.
- Respecting our stakeholders is essential to business success.

Guiding Principles

P1 Appropriate decisions are made.
P2 Risk management strategies are implemented based on clear science and valid data.
P3 Stakeholders are identified and respected.
P4 Environmental impacts are recognised and minimised.
P5 Legal obligations are known and respected.
P6 Environmental management is integrated into our business.
P7 Environmental performance is continually improved.
P8 Natural resources are used efficiently.
P9 Performance is assessed and reported.

David Moult
Managing Director & CEO
Date: 12 April 2012
**Environment Protection Licence**

**Licence Details**
- Number: 467
- Anniversary Date: 01-January

**Licensee**
- SPRINGVALE SK KORES PTY LIMITED
- CENTENNIAL SPRINGVALE PTY LIMITED
- PO BOX 42
- WALLERAWANG NSW 2845

**Premises**
- ANGUS PLACE COLLIER
- WOLGAN ROAD
- LIDSDALE NSW 2790

**Scheduled Activity**
- Coal Works
- Mining for Coal

**Fee Based Activity**

<table>
<thead>
<tr>
<th>Activity</th>
<th>Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coal works</td>
<td>&gt; 2000000-5000000 T handled</td>
</tr>
<tr>
<td>Mining for coal</td>
<td>&gt; 3500000-5000000 T produced</td>
</tr>
</tbody>
</table>

**Region**
- South - Bathurst
- Lvl 2, 203-209 Russell Street
- BATHURST NSW 2795
- Phone: (02) 6332 7600
- Fax: (02) 6332 7630
- PO Box 1388 BATHURST
- NSW 2795
# Environment Protection Licence

**INFORMATION ABOUT THIS LICENCE**

- Dictionary
- Responsibilities of licensee
- Duration of licence
- Licence review
- Fees and annual return to be sent to the EPA
- Transfer of licence
- Public register and access to monitoring data

## 1 ADMINISTRATIVE CONDITIONS

- **A1** What the licence authorises and regulates
- **A2** Premises or plant to which this licence applies
- **A3** Information supplied to the EPA

## 2 DISCHARGES TO AIR AND WATER AND APPLICATIONS TO LAND

- **P1** Location of monitoring/discharge points and areas

## 3 LIMIT CONDITIONS

- **L1** Pollution of waters
- **L2** Concentration limits
- **L3** Volume and mass limits
- **L4** Noise limits

## 4 OPERATING CONDITIONS

- **O1** Activities must be carried out in a competent manner
- **O2** Maintenance of plant and equipment
- **O3** Dust
- **O4** Effluent application to land
- **O5** Other operating conditions

## 5 MONITORING AND RECORDING CONDITIONS

- **M1** Monitoring records
- **M2** Requirement to monitor concentration of pollutants discharged
- **M3** Testing methods - concentration limits
- **M4** Weather monitoring
- **M5** Recording of pollution complaints
- **M6** Telephone complaints line
- **M7** Requirement to monitor volume or mass

## 6 REPORTING CONDITIONS
<table>
<thead>
<tr>
<th></th>
<th>Requirement</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>R1</td>
<td>Annual return documents</td>
<td>16</td>
</tr>
<tr>
<td>R2</td>
<td>Notification of environmental harm</td>
<td>17</td>
</tr>
<tr>
<td>R3</td>
<td>Written report</td>
<td>17</td>
</tr>
<tr>
<td>7</td>
<td>GENERAL CONDITIONS</td>
<td>18</td>
</tr>
<tr>
<td>G1</td>
<td>Copy of licence kept at the premises or plant</td>
<td>18</td>
</tr>
<tr>
<td>8</td>
<td>POLLUTION STUDIES AND REDUCTION PROGRAMS</td>
<td>18</td>
</tr>
<tr>
<td>U1</td>
<td>Control of water discharged via LDP1</td>
<td>18</td>
</tr>
<tr>
<td>DICTIONARY</td>
<td></td>
<td>19</td>
</tr>
<tr>
<td></td>
<td>General Dictionary</td>
<td>19</td>
</tr>
</tbody>
</table>
Information about this licence

Dictionary
A definition of terms used in the licence can be found in the dictionary at the end of this licence.

Responsibilities of licensee
Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 ("the Act") and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act); and
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

Variation of licence conditions
The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

Duration of licence
This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

Licence review
The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

Fees and annual return to be sent to the EPA
For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).
The EPA publication “A Guide to Licensing” contains information about how to calculate your licence fees. The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

**Transfer of licence**

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

**Public register and access to monitoring data**

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

**This licence is issued to:**

<table>
<thead>
<tr>
<th>SPRINGVALE SK KORES PTY LIMITED</th>
</tr>
</thead>
<tbody>
<tr>
<td>CENTENNIAL SPRINGVALE PTY LIMITED</td>
</tr>
<tr>
<td>PO BOX 42</td>
</tr>
<tr>
<td>WALLERAWANG NSW 2845</td>
</tr>
</tbody>
</table>

subject to the conditions which follow.
1 Administrative Conditions

A1 What the licence authorises and regulates

A1.1 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

<table>
<thead>
<tr>
<th>Scheduled Activity</th>
<th>Fee Based Activity</th>
<th>Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coal Works</td>
<td>Coal works</td>
<td>&gt; 2000000 - 5000000 T handled</td>
</tr>
<tr>
<td>Mining for Coal</td>
<td>Mining for coal</td>
<td>&gt; 3500000 - 5000000 T produced</td>
</tr>
</tbody>
</table>

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

<table>
<thead>
<tr>
<th>Premises Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANGUS PLACE COLLIERY</td>
</tr>
<tr>
<td>WOLGAN ROAD</td>
</tr>
<tr>
<td>LIDSDALE</td>
</tr>
<tr>
<td>NSW 2790</td>
</tr>
<tr>
<td>ANGUS PLACE COLLIERY HOLDING AS IDENTIFIED ON PLAN TITLED 'FIGURE 2: ANGUS PLACE</td>
</tr>
<tr>
<td>COLLIERY - MINING AREA' SUBMITTED TO THE EPA ON 17 AUGUST 2009</td>
</tr>
</tbody>
</table>

A3 Information supplied to the EPA

A3.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

In this condition the reference to “the licence application” includes a reference to:

a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and

b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.
2 Discharges to Air and Water and Applications to Land

P1 Location of monitoring/discharge points and areas

P1.1 The following points referred to in the table below are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point.

**Air**

<table>
<thead>
<tr>
<th>EPA identification no.</th>
<th>Type of Monitoring Point</th>
<th>Type of Discharge Point</th>
<th>Location Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>Dust Monitoring</td>
<td></td>
<td>Point labelled Dust Gauge 1 - Figure 1 of Angus Place Colliery Air Quality Monitoring Program, March 2007.</td>
</tr>
<tr>
<td>8</td>
<td>Dust Monitoring</td>
<td></td>
<td>Point labelled Dust Gauge 2 - Figure 1 of Angus Place Colliery Air Quality Monitoring Program, March 2007.</td>
</tr>
<tr>
<td>9</td>
<td>Dust Monitoring</td>
<td></td>
<td>Point labelled Dust Gauge 3 - Figure 1 of Angus Place Colliery Air Quality Monitoring Program, March 2007.</td>
</tr>
<tr>
<td>10</td>
<td>Dust Monitoring</td>
<td></td>
<td>Point labelled Dust Gauge 4 - Figure 1 of Angus Place Colliery Air Quality Monitoring Program, March 2007.</td>
</tr>
<tr>
<td>11</td>
<td>Dust Monitoring</td>
<td></td>
<td>Point labelled Dust Gauge 5 - Figure 1 of Angus Place Colliery Air Quality Monitoring Program, March 2007.</td>
</tr>
<tr>
<td>12</td>
<td>Dust Monitoring</td>
<td></td>
<td>Point labelled Dust Gauge 6 - Figure 1 of Angus Place Colliery Air Quality Monitoring Program, March 2007.</td>
</tr>
<tr>
<td>13</td>
<td>Dust Monitoring</td>
<td></td>
<td>Point labelled Dust Gauge 7 - Figure 1 of Angus Place Colliery Air Quality Monitoring Program, March 2007.</td>
</tr>
<tr>
<td>14</td>
<td>Dust Monitoring</td>
<td></td>
<td>Point labelled Dust Gauge 8 - Figure 1 of Angus Place Colliery Air Quality Monitoring Program, March 2007.</td>
</tr>
<tr>
<td>15</td>
<td>PM10 and TSP Monitoring</td>
<td></td>
<td>In paddock in vicinity of Dust Gauge No. 5 (licence point No. 11)</td>
</tr>
</tbody>
</table>

P1.2 The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.

P1.3 The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.

**Water and land**

<table>
<thead>
<tr>
<th>EPA Identification no.</th>
<th>Type of Monitoring Point</th>
<th>Type of Discharge Point</th>
<th>Location Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Discharge to waters</td>
<td></td>
<td>V notch weir structure labelled &quot;001&quot; on plan titled &quot;Figure 1 Aerial Photo of Angus Place Workings. Location of Colliery Licenced Dischargw Discharge Points&quot; dated 9 November 2011.</td>
</tr>
<tr>
<td></td>
<td>Discharge quality</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>monitoring</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Volume monitoring</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Discharge quality</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>monitoring</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Volume monitoring</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
3 Limit Conditions

L1 Pollution of waters

L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.

L2 Concentration limits

L2.1 For each monitoring/discharge point or utilisation area specified in the table\'s below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.

L2.2 Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.

L2.3 To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table\'s.

L2.4 Water and/or Land Concentration Limits

### POINT 1

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Units of Measure</th>
<th>50 percentile concentration limit</th>
<th>90 percentile concentration limit</th>
<th>3DGM concentration limit</th>
<th>100 percentile concentration limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil and Grease</td>
<td>milligrams per litre</td>
<td></td>
<td></td>
<td></td>
<td>10</td>
</tr>
</tbody>
</table>
### Section 55 Protection of the Environment Operations Act 1997

#### Environment Protection Licence

**Licence** - 467

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Units of Measure</th>
<th>50 percentile concentration limit</th>
<th>90 percentile concentration limit</th>
<th>3DGM concentration limit</th>
<th>100 percentile concentration limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil and Grease</td>
<td>milligrams per litre</td>
<td></td>
<td></td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>pH</td>
<td>pH</td>
<td>6.5-8.5</td>
<td></td>
<td>6.5-9.0</td>
<td></td>
</tr>
<tr>
<td>Total suspended solids</td>
<td>milligrams per litre</td>
<td></td>
<td></td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

**POINT 2**

### POINT 3

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Units of Measure</th>
<th>50 percentile concentration limit</th>
<th>90 percentile concentration limit</th>
<th>3DGM concentration limit</th>
<th>100 percentile concentration limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil and Grease</td>
<td>milligrams per litre</td>
<td></td>
<td></td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>pH</td>
<td>pH</td>
<td></td>
<td></td>
<td>6.5-8.5</td>
<td></td>
</tr>
<tr>
<td>Total suspended solids</td>
<td>milligrams per litre</td>
<td></td>
<td>30</td>
<td></td>
<td>50</td>
</tr>
<tr>
<td>Turbidity</td>
<td>nephelometric turbidity units</td>
<td></td>
<td></td>
<td></td>
<td>50</td>
</tr>
</tbody>
</table>

L2.5  The limits specified under Condition L2.4 for the sediment basin identified as EPA licence discharge points 2 and 3 do not apply when the discharge occurs within five (5) days after a rainfall event measured at the premises which exceeds:

- a total of 44 millimetre of rainfall over any consecutive 5 day period.

Note: A 44mm rainfall depth is defined by the publication "Managing Urban Stormwater: Soils and Construction" (Landcom 2006) as the rainfall depth in millimetres for a 95th percentile 5 day rainfall event for the Central Tablelands consistent with the storage capacity (recommended minimum design criteria) for Type D sediment retention basins for mines and quarries (Vol 2E of Landcom 2008).

L2.6  The concentration limit for Total Suspended Solids (TSS) under condition L2.4 is deemed not to have been breached where:
1. the sample complies with the turbidity limit at the time of the discharge, and
2. the EPA is advised within 3 working days of completion of the TSS testing, of any TSS results above the licence limit.

Note: The purpose of this condition is to expedite the assessment and subsequent discharge of the clarified water from the sediment basins. The correlation between TSS and turbidity will be subject to ongoing review based on the test results.

### L3 Volume and mass limits

L3.1 For each discharge point or utilisation area specified below (by a point number), the volume/mass of:
   a) liquids discharged to water; or;
   b) solids or liquids applied to the area;
must not exceed the volume/mass limit specified for that discharge point or area.

<table>
<thead>
<tr>
<th>Point</th>
<th>Unit of Measure</th>
<th>Volume/Mass Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>kilolitres per day</td>
<td>2000</td>
</tr>
</tbody>
</table>

### L4 Noise limits

Note: The above noise limits were established under project approval 06_0021 by the Department of Planning.

L4.1 Noise from the premises must not exceed:
   a) 42 dB(A) LAeq(15 minute) during the day (7am to 6pm); and
   b) 38 dB(A) LAeq(15 minute) during the evening (6pm to 10pm); and
   c) at all other times 36 dB(A) LAeq (15 minute), except as expressly provided by this licence at the Sharpe residence;
   d) 41 dB(A) LAeq(15 minute) during the day (7am to 6pm); and
   e) 37 dB(A) LAeq(15 minute) during the evening (6pm to 10pm); and
   f) at all other times 35 dB(A) LAeq (15 minute), except as expressly provided by this licence at the Mason (west) residence and other Wolgan road properties; and
   g) 44 dB(A) LAeq(15 minute) during the day (7am to 6pm); and
   h) 40 dB(A) LAeq(15 minute) during the evening (6pm to 10pm); and
   i) at all other times 35 dB(A) LAeq (15 minute), except as expressly provided by this licence at Lidsdale village residences.

Where LAeq means the equivalent continuous noise level – the level of noise equivalent to the energy-average of noise levels occurring over a measurement period.

L4.2 Noise from the premises is to be measured at the most affected point or within the residential boundary, or at the most affected point within 30 m of a dwelling (rural situations) where the dwelling is more than 30 m from the boundary, to determine compliance with condition L6.1.
The modification factors in Section 4 of the NSW Industrial Noise Policy shall also be applied to the measured noise levels where applicable.

Where it can be demonstrated that direct measurement of noise from the premises is impractical, the EPA may accept alternative means of determining compliance (see Chapter 11 of the NSW Industrial Noise Policy).

L4.3 The noise emission limits identified in this licence apply under meteorological conditions of:
   a) wind speeds of up to 3 m/s at 10 metres above ground level; or
   b) temperature inversion conditions of up to 3°C/100m, and wind speeds of up to 2 m/s at 10 metres above ground level.

4 Operating Conditions

O1 Activities must be carried out in a competent manner

O1.1 Licensed activities must be carried out in a competent manner. This includes:
   a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and
   b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.

O2 Maintenance of plant and equipment

O2.1 All plant and equipment installed at the premises or used in connection with the licensed activity:
   a) must be maintained in a proper and efficient condition; and
   b) must be operated in a proper and efficient manner.

O3 Dust

O3.1 The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.

O4 Effluent application to land

O4.1 The quantity of effluent applied to the utilisation area(s) must not exceed the capacity of the utilisation area(s) to effectively utilise the effluent.

   For the purpose of this condition, “effectively utilise” includes the ability of the soil to absorb the nutrient, salt and hydraulic loads and the applied organic material without causing harm to the environment.

O4.2 Effluent application to the utilisation area(s) must not occur in a manner that causes surface run-off from the utilisation area(s).
O4.3 Spray from effluent application to the utilisation area(s) must not drift beyond the boundary of the utilisation area(s) to which it has been applied.

O5 Other operating conditions

O5.1 The transport of coal from the premises is to be only undertaken via the roads identified as “Wallerawang Coal Haul Road” and Mount Piper Coal Haul Road” as identified on the plan titled “Figure 9: Location Of Areas Disturbed By Mine Operations” attached to the Licence Information Form submitted to the EPA dated 14 November 1999.

O5.2 In the event that condition O5.1 is not complied with, the Licensee must notify the Bathurst Office of the EPA as soon as practicable after becoming aware that condition O5.1 is not being complied with and provide:

a) The reason(s) as to why condition O5.1 could not be complied with;
b) Details of the alternative coal transport route(s), and;
c) The anticipated length of time before compliance with condition O5.1 is achieved.

O5.3 The sediment basins identified as EPA identification no. (licence discharge points) 2 and 3 under condition P1.2 must be drained or pumped out within 5 days following rainfall in order to maintain each basin's design storage capacity.

O5.4 Water discharged to comply with condition O5.3 may only be discharge from sediment basins to waters via licence discharge points 2 and 3 where the water complies with the discharge limit specified under condition L2.4 for licence discharge points 2 and 3.

O5.5 The licensee must undertake maintenance to desilt all sediment basins to retain their design storage capacities.

5 Monitoring and Recording Conditions

M1 Monitoring records

M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.

M1.2 All records required to be kept by this licence must be:

a) in a legible form, or in a form that can readily be reduced to a legible form;
b) kept for at least 4 years after the monitoring or event to which they relate took place; and
c) produced in a legible form to any authorised officer of the EPA who asks to see them.

M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:

a) the date(s) on which the sample was taken;
b) the time(s) at which the sample was collected;
c) the point at which the sample was taken; and

the name of the person who collected the sample.
M2 Requirement to monitor concentration of pollutants discharged

M2.1 For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:

M2.2 Air Monitoring Requirements

<table>
<thead>
<tr>
<th>POINT</th>
<th>Sampling Method</th>
<th>Frequency</th>
<th>Units of measure</th>
<th>Pollutant</th>
</tr>
</thead>
<tbody>
<tr>
<td>7,8,9,10,11,12,13,14</td>
<td>Special Method 1</td>
<td>Monthly</td>
<td>grams per square metre per month</td>
<td>Particulates - Deposited Matter</td>
</tr>
<tr>
<td>15</td>
<td>AS/NZS 3580.9.6:2003</td>
<td>Special Frequency 1</td>
<td>micrograms per cubic metre</td>
<td>PM10</td>
</tr>
<tr>
<td></td>
<td>AS/NZS 3580.9.3:2003</td>
<td>Special Frequency 1</td>
<td>micrograms per cubic metre</td>
<td>Total suspended particles</td>
</tr>
</tbody>
</table>

M2.3 Water and/or Land Monitoring Requirements

<table>
<thead>
<tr>
<th>POINT</th>
<th>Sampling Method</th>
<th>Frequency</th>
<th>Units of measure</th>
<th>Pollutant</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Grab sample</td>
<td>Once a month (min. of 4 weeks)</td>
<td>microsiemens per centimetre</td>
<td>Conductivity</td>
</tr>
<tr>
<td></td>
<td>Grab sample</td>
<td>Once a month (min. of 4 weeks)</td>
<td>milligrams per litre</td>
<td>Oil and Grease</td>
</tr>
<tr>
<td></td>
<td>Grab sample</td>
<td>Once a month (min. of 4 weeks)</td>
<td>pH</td>
<td>pH</td>
</tr>
<tr>
<td></td>
<td>Grab sample</td>
<td>Once a month (min. of 4 weeks)</td>
<td>milligrams per litre</td>
<td>Total suspended solids</td>
</tr>
<tr>
<td></td>
<td>Grab sample</td>
<td>Once a month (min. of 4 weeks)</td>
<td>nephelometric turbidity units</td>
<td>Turbidity</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>POINT</th>
<th>Sampling Method</th>
<th>Frequency</th>
<th>Units of measure</th>
<th>Pollutant</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Grab sample</td>
<td>Monthly during discharge</td>
<td>microsiemens per centimetre</td>
<td>Conductivity</td>
</tr>
</tbody>
</table>
### Pollutant Concentration Monitoring

**Table: Pollutant, Units of Measure, Frequency, Sampling Method**

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Units of Measure</th>
<th>Frequency</th>
<th>Sampling Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil and Grease</td>
<td>milligrams per litre</td>
<td>Monthly during discharge</td>
<td>Grab sample</td>
</tr>
<tr>
<td>pH</td>
<td>pH</td>
<td>Monthly during discharge</td>
<td>Grab sample</td>
</tr>
<tr>
<td>Total suspended solids</td>
<td>milligrams per litre</td>
<td>Monthly during discharge</td>
<td>Grab sample</td>
</tr>
<tr>
<td>Turbidity</td>
<td>nephelometric turbidity units</td>
<td>Monthly during discharge</td>
<td>Grab sample</td>
</tr>
</tbody>
</table>

**M2.4** For the purposes of the table(s) above Special Method 1 means Australian Standard 3580.10.1.2003.

**M2.5** For the purposes of the table(s) above Special Frequency 1 means the collection of samples over 2 months per year (a total of 10 x 6 day sampling periods).

### Testing Methods - Concentration Limits

**M3.1** Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with:

- a) any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or
- b) if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or
- c) if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.

**M3.2** Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.

**Note:** The *Protection of the Environment Operations (Clean Air) Regulation 2010* requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "Approved Methods for the Sampling and Analysis of Air Pollutants in NSW".
M4  Weather monitoring
M4.1 Rainfall at the premises must be measured and recorded in millimetres per 24 hour period at the same time each day.

M5  Recording of pollution complaints
M5.1 The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.

M5.2 The record must include details of the following:
   a) the date and time of the complaint;
   b) the method by which the complaint was made;
   c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
   d) the nature of the complaint;
   e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and
   f) if no action was taken by the licensee, the reasons why no action was taken.

M5.3 The record of a complaint must be kept for at least 4 years after the complaint was made.

M5.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M6  Telephone complaints line
M6.1 The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.

M6.2 The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.

M6.3 The preceding two conditions do not apply until 3 months after:
   a) the date of the issue of this licence or
   b) if this licence is a replacement licence within the meaning of the Protection of the Environment Operations (Savings and Transitional) Regulation 1998, the date on which a copy of the licence was served on the licensee under clause 10 of that regulation.

M7  Requirement to monitor volume or mass
M7.1 For each discharge point or utilisation area specified below, the licensee must monitor:
   a) the volume of liquids discharged to water or applied to the area;
   b) the mass of solids applied to the area;
c) the mass of pollutants emitted to the air; at the frequency and using the method and units of measure, specified below.

**POINT 1**

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Unit of Measure</th>
<th>Sampling Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daily</td>
<td>kilolitres per day</td>
<td>Weir structure and level sensor</td>
</tr>
</tbody>
</table>

**POINT 5**

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Unit of Measure</th>
<th>Sampling Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weekly during any discharge</td>
<td>kilolitres per week</td>
<td>By Calculation (volume flow rate or pump capacity multiplied by operating time)</td>
</tr>
</tbody>
</table>

**Note:** In the event of failure of the sampling method specified for LDP001, the licensee must continue to undertake monitoring using the sampling method specified for LDP005 and LDP016.

## 6 Reporting Conditions

### R1 Annual return documents

**R1.1** The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:

a) a Statement of Compliance; and

b) a Monitoring and Complaints Summary.

At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.

**R1.2** An Annual Return must be prepared in respect of each reporting period, except as provided below.

**Note:** The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.

**R1.3** Where this licence is transferred from the licensee to a new licensee:

a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and

b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.

**Note:** An application to transfer a licence must be made in the approved form for this purpose.

**R1.4** Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on:

a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or

b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.

**R1.5** The Annual Return for the reporting period must be supplied to the EPA by registered post not later than
60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the ‘due date’).

R1.6 The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.

R1.7 Within the Annual Return, the Statement of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:
   a) the licence holder; or
   b) by a person approved in writing by the EPA to sign on behalf of the licence holder.

R1.8 A person who has been given written approval to certify a certificate of compliance under a licence issued under the Pollution Control Act 1970 is taken to be approved for the purpose of this condition until the date of first review of this licence.

R2 Notification of environmental harm

Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.

R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.

R3 Written report

R3.1 Where an authorised officer of the EPA suspects on reasonable grounds that:
   a) where this licence applies to premises, an event has occurred at the premises; or
   b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence, and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.

R3.2 The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.

R3.3 The request may require a report which includes any or all of the following information:
   a) the cause, time and duration of the event;
   b) the type, volume and concentration of every pollutant discharged as a result of the event;
   c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event;
   d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort;
   e) action taken by the licensee in relation to the event, including any follow-up contact with any
complainants;
f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and
g) any other relevant matters.

R3.4 The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.

7 General Conditions

G1 Copy of licence kept at the premises or plant

G1.1 A copy of this licence must be kept at the premises to which the licence applies.

G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.

G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

8 Pollution Studies and Reduction Programs

U1 Control of water discharged via LDP1

U1.1 • The licensee must prepare and submit to the EPA for review, a report identifying all reasonable and feasible options for either the cessation of the discharge of groundwater generated by the licensee (as a result of mine dewatering activities) to the environment or, for treating the groundwater generated by the licensee (as a result of mine dewatering activities) prior to discharge to the environment.
• The objective of the option study is to reduce salinity levels and salt load discharged into the Coxs River Catchment by the licensee. Any option(s) identified for treating groundwater prior to discharge to the Coxs River Catchment must be capable of treating all mine water generated by the premises (ground and surface water) to achieve an electrical conductivity (EC) of 350 microsiemens per centimetre in the treated water prior to the treated water being discharged to the Coxs River or any of its tributaries. Where appropriate, the treatment of other pollutants in the discharge must be assessed.
• The licensee must identify the preferred option and detail a timetable for the implementation of this option in this report.
• Where the option study proposes a water treatment option that involves another party, such as the owner of the Wallerawang Power Station, the option must be developed in consultation and agreement with that party.

Completion Date: This report must be submitted to the Central West (Bathurst) Office of the EPA by 1 July 2014.
### Dictionary

#### General Dictionary

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>3DGM [in relation to a concentration limit]</strong></td>
<td>Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples.</td>
</tr>
<tr>
<td><strong>Act</strong></td>
<td>Means the Protection of the Environment Operations Act 1997</td>
</tr>
<tr>
<td><strong>activity</strong></td>
<td>Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997</td>
</tr>
<tr>
<td><strong>actual load</strong></td>
<td>Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009</td>
</tr>
<tr>
<td><strong>AM</strong></td>
<td>Together with a number, means an ambient air monitoring method of that number prescribed by the Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales.</td>
</tr>
<tr>
<td><strong>AMG</strong></td>
<td>Australian Map Grid</td>
</tr>
<tr>
<td><strong>anniversary date</strong></td>
<td>The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.</td>
</tr>
<tr>
<td><strong>annual return</strong></td>
<td>Is defined in R1.1</td>
</tr>
<tr>
<td><strong>Approved Methods Publication</strong></td>
<td>Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009</td>
</tr>
<tr>
<td><strong>assessable pollutants</strong></td>
<td>Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009</td>
</tr>
<tr>
<td><strong>BOD</strong></td>
<td>Means biochemical oxygen demand</td>
</tr>
<tr>
<td><strong>CEM</strong></td>
<td>Together with a number, means a continuous emission monitoring method of that number prescribed by the Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales.</td>
</tr>
<tr>
<td><strong>COD</strong></td>
<td>Means chemical oxygen demand</td>
</tr>
<tr>
<td><strong>composite sample</strong></td>
<td>Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.</td>
</tr>
<tr>
<td><strong>cond.</strong></td>
<td>Means conductivity</td>
</tr>
<tr>
<td><strong>environment</strong></td>
<td>Has the same meaning as in the Protection of the Environment Operations Act 1997</td>
</tr>
<tr>
<td><strong>environment protection legislation</strong></td>
<td>Has the same meaning as in the Protection of the Environment Administration Act 1991</td>
</tr>
<tr>
<td><strong>EPA</strong></td>
<td>Means Environment Protection Authority of New South Wales.</td>
</tr>
<tr>
<td><strong>general solid waste (non-putrescible)</strong></td>
<td>Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997</td>
</tr>
<tr>
<td>Term</td>
<td>Definition</td>
</tr>
<tr>
<td>---------------------------------------------------</td>
<td>-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>flow weighted composite sample</td>
<td>Means a sample whose composites are sized in proportion to the flow at each composites time of collection.</td>
</tr>
<tr>
<td>general solid waste (putrescible)</td>
<td>Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997</td>
</tr>
<tr>
<td>grab sample</td>
<td>Means a single sample taken at a point at a single time</td>
</tr>
<tr>
<td>hazardous waste</td>
<td>Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997</td>
</tr>
<tr>
<td>licensee</td>
<td>Means the licence holder described at the front of this licence</td>
</tr>
<tr>
<td>load calculation protocol</td>
<td>Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009</td>
</tr>
<tr>
<td>local authority</td>
<td>Has the same meaning as in the Protection of the Environment Operations Act 1997</td>
</tr>
<tr>
<td>material harm</td>
<td>Has the same meaning as in section 147 Protection of the Environment Operations Act 1997</td>
</tr>
<tr>
<td>MBAS</td>
<td>Means methylene blue active substances</td>
</tr>
<tr>
<td>Minister</td>
<td>Means the Minister administering the Protection of the Environment Operations Act 1997</td>
</tr>
<tr>
<td>mobile plant</td>
<td>Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997</td>
</tr>
<tr>
<td>motor vehicle</td>
<td>Has the same meaning as in the Protection of the Environment Operations Act 1997</td>
</tr>
<tr>
<td>O&amp;G</td>
<td>Means oil and grease</td>
</tr>
<tr>
<td>percentile [in relation to a concentration limit of a sample]</td>
<td>Means that percentage [eg. 50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.</td>
</tr>
<tr>
<td>plant</td>
<td>Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.</td>
</tr>
<tr>
<td>pollution of waters [or water pollution]</td>
<td>Has the same meaning as in the Protection of the Environment Operations Act 1997</td>
</tr>
<tr>
<td>premises</td>
<td>Means the premises described in condition A2.1</td>
</tr>
<tr>
<td>public authority</td>
<td>Has the same meaning as in the Protection of the Environment Operations Act 1997</td>
</tr>
<tr>
<td>regional office</td>
<td>Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence</td>
</tr>
<tr>
<td>reporting period</td>
<td>For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.</td>
</tr>
<tr>
<td>restricted solid waste</td>
<td>Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997</td>
</tr>
<tr>
<td>scheduled activity</td>
<td>Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997</td>
</tr>
<tr>
<td>special waste</td>
<td>Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997</td>
</tr>
<tr>
<td>TM</td>
<td>Together with a number, means a test method of that number prescribed by the Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales.</td>
</tr>
</tbody>
</table>
**Environment Protection Licence**

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSP</td>
<td>Means total suspended particles</td>
</tr>
<tr>
<td>TSS</td>
<td>Means total suspended solids</td>
</tr>
<tr>
<td>Type 1 substance</td>
<td>Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements</td>
</tr>
<tr>
<td>Type 2 substance</td>
<td>Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements</td>
</tr>
<tr>
<td>utilisation area</td>
<td>Means any area shown as a utilisation area on a map submitted with the application for this licence</td>
</tr>
<tr>
<td>waste</td>
<td>Has the same meaning as in the Protection of the Environment Operations Act 1997</td>
</tr>
<tr>
<td>waste type</td>
<td>Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non-putrescible), special waste or hazardous waste</td>
</tr>
</tbody>
</table>

Ms Debbie Maddison

Environment Protection Authority

(By Delegation)

Date of this edition: 23-February-2000
End Notes

<table>
<thead>
<tr>
<th></th>
<th>Licence varied by notice V/M upgrade, issued on 08-Jul-2000, which came into effect on 08-Jul-2000.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Licence varied by notice 1010099, issued on 24-Jul-2001, which came into effect on 18-Aug-2001.</td>
</tr>
<tr>
<td>3</td>
<td>Licence varied by notice 1013571, issued on 05-Apr-2002, which came into effect on 05-Apr-2002.</td>
</tr>
<tr>
<td>4</td>
<td>Licence varied by Change of contact details, issued on 16-Apr-2002, which came into effect on 16-Apr-2002.</td>
</tr>
<tr>
<td>5</td>
<td>Licence varied by notice 1017483, issued on 16-May-2002, which came into effect on 29-May-2002.</td>
</tr>
<tr>
<td>6</td>
<td>Licence transferred through application 141589, approved on 21-Nov-2002, which came into effect on 07-Aug-2002.</td>
</tr>
<tr>
<td>7</td>
<td>Licence varied by notice 1046436, issued on 03-May-2005, which came into effect on 28-May-2005.</td>
</tr>
<tr>
<td>8</td>
<td>Licence varied by notice 1063850, issued on 31-Aug-2006, which came into effect on 31-Aug-2006.</td>
</tr>
<tr>
<td>12</td>
<td>Condition A1.3 Not applicable varied by notice issued on &lt;issue date&gt; which came into effect on &lt;effective date&gt;</td>
</tr>
<tr>
<td>13</td>
<td>Licence varied by notice 1103003, issued on 09-Sep-2009, which came into effect on 09-Sep-2009.</td>
</tr>
<tr>
<td>14</td>
<td>Licence varied by notice 1109300, issued on 17-Feb-2010, which came into effect on 17-Feb-2010.</td>
</tr>
<tr>
<td>15</td>
<td>Licence varied by notice 1124602, issued on 09-May-2011, which came into effect on 09-May-2011.</td>
</tr>
<tr>
<td>16</td>
<td>Licence varied by notice 1501017 issued on 23-Aug-2011</td>
</tr>
<tr>
<td>17</td>
<td>Licence varied by notice 1501416 issued on 19-Dec-2011</td>
</tr>
<tr>
<td>18</td>
<td>Licence varied by notice 1504860 issued on 20-Mar-2012</td>
</tr>
<tr>
<td>19</td>
<td>Licence varied by notice 1512943 issued on 21-May-2013</td>
</tr>
<tr>
<td></td>
<td>Licence varied by notice</td>
</tr>
</tbody>
</table>