



WE CARE. WE DELIVER.

Environmental Management System

Rix's Creek Mine
Rix's Creek Pty Ltd.

ENVIRONMENTAL MANAGEMENT STRATEGY

Doc No: Environmental Management Strategy

Doc Owner: Environmental Advisor

Approval: Environmental Manager
The Bloomfield Group

Signed: C Knight

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Table of Contents

1	Introduction-----	4
2	Background -----	4
	2.1 History and Future Operations-----	5
	2.1.1 Rixs Creek North -----	5
	2.1.2 Rixs Creek South -----	6
3	Environmental Policy -----	6
	3.1 Objectives -----	8
4	Planning-----	8
	4.1 Legal Requirements -----	8
	4.1.1 Rixs Creek North Project Conditions -----	8
	4.1.2 Rixs Creek South Project Approval -----	12
	4.2 Management Plans -----	20
5	Stakeholders-----	21
6	Roles and Responsibilities-----	22
7	Competence, Training and Awareness-----	22
	7.1 Internal Communication -----	23
8	Documentation -----	23
	8.1 Document Control -----	23
9	Operational Control -----	24
10	Complaints Handling and Response -----	24
	10.1 Dispute Resolution -----	25
11	Emergency Preparedness and Response-----	27
12	Monitoring and Reporting Requirements -----	27
	12.1 Environmental Incident Reporting-----	28
	12.2 Environmental Reporting -----	28
	12.3 Independent Environmental Audit-----	29
	12.4 Publication of Environmental Information -----	29
13	Review-----	30
	Appendix 1- Copy of letters of approval/s from DPE.....	32

List of Figures

Figure 10-1 Independent Dispute Resolution process	26
Figure 13-1 Site Layout	31

Document Title:	Environmental Management Strategy		Document Owner:	Chris Quinn	
Prepared By:	Chris Knight	Print Date:	2-Jul-19	Version No:	1.2
Reviewed By:	Chris Quinn			Issue Date:	17/6/2019
Approved By:	Chris Knight	Review Frequency:	36 MONTHS / Or as required	Page No:	3 of 32

1 Introduction

This Environmental Management Strategy (EMS) has been developed to integrate environmental management for Rixs Creek North (RCN) and Rixs Creek South (RCS) mining operations under Rix's Creek Mine (the Mine) located at Singleton in the Hunter Valley of New South Wales. This EMS addresses environmental issues requiring management as determined by relevant authorities following *Environmental Assessments* and internal risk management processes.

This EMS outlines the actions required and persons responsible in order for the Mine to effectively manage environmental best practice and compliance through implementation of audits and reviews and the establishment of a process for continual improvement of environmental performance.

2 Background

RCN was given Project Approval under Section 75W of the *Environmental Planning and Assessment Act 1979* by the Minister for Planning on 23 August 2016 for Project 08_0102 Mod 6. This Mod 6 separated the former Integra Mine Complex approval, which was a combination of the Integra Underground Project 08_0101 and Integra Open Cut Project 08_0102 (Integra Mine Complex) as it was known then.

The former Integra Mine Complex approval consolidated the following pre-existing approvals:

- Glennies Creek Colliery (105/90);
- Camberwell Coal Project (86/2889);
- Glennies Creek Colliery Surface Facilities (06_0057);
- Glennies Creek Underground Coal Project (06_0213); and
- Glennies Creek Open Cut Coal Project (06_0073).

The Rixs Creek North Project Approval 08_0102 Mod 6 includes:

- The Camberwell Pit (old South Pit/Western Extension);
- The Falbrook Pit (old North Open Cut Pit);
- Coal Handling and Processing Plant (CHPP);
- Clean coal stockpile and rail loading facility; and
- Associated industrial areas and offices.

The Rix's Creek Coal Mine (now Rixs Creek South-RCS) was originally approved under Section 101 of the *Environmental Planning and Assessment Act 1979* by the Minister for Planning on 19 October 1989. This approval did not allow open cut mining over the entire lease area. In 1994 Development Application (DA 49/94) was made to allow open cut mining of the entire resource. This application was approved on 16 October 1995.

The Rixs Creek South Development Approval (DA 49/94 Mod 8) operation includes:

- West Open cut;
- Arties pit,
- Coal Handling and Processing Plant (CHPP);
- Clean coal stockpile and rail loading facility; and
- Associated industrial areas and offices.

Document Title:	Environmental Management Strategy		Document Owner:	Chris Quinn	
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Reviewed By:	Chris Quinn	Review Frequency:	36 MONTHS / Or as required	Issue Date:	17/6/2019
Approved By:	Chris Knight			Page No:	4 of 32

2.1 History and Future Operations

2.1.1 Rixs Creek North

Operations at the Rixs Creek North commenced in 1991 as the Camberwell Coal Project. Since then, mining has been completed in the North Pit and South Pit. The North Pit has been rehabilitated with the exception of the area required for underground access. The South Pit is progressively being rehabilitated as part of activities within the Western Extension.

The Rixs Creek North Project approval incorporates the following until 31 December 2035:

- The continued development and operation of the Falbrook Pit (North Open Cut).
- Long term use of the CHPP, train loader and associated infrastructure and facilities as they relate to the approved open cut mining activities.
- Management and disposal of tailings from the CHPP.
- Progressive reshaping and rehabilitation of mine related disturbance.
- Implementation and maintenance of environmental management systems.
- Development of the Camberwell Pit (Western Extension) either to the Full Pit Extent or Part Pit Extent, depending on whether the 'Dulwich' property is acquired or not or a suitable arrangement is made with this landholder.
- Final rehabilitation of the RCN project mining areas following the cessation of open cut mining activities and monitoring and maintenance of the rehabilitated areas until they are signed off by the relevant government agency and the relevant Mining Lease can be relinquished.

The approved activities specifically relating to the Camberwell Pit (Western Extension) include:

- The recovery of approximately 30Mt of Run-of-Mine (ROM) coal from within the Camberwell Pit (Western Extension) Mining Area. Mining would be undertaken over a period of some 9 to 12 years with coal extraction undertaken from a series of mining horizons extending from the Lower Lemington to the Hebden sequences, at an annual ROM coal production of up to 4.5 million tonnes per annum (Mtpa);
- Mining of approximately 160ha of land;
- Progressive clearing of vegetation and stripping of soil for direct placement upon completed waste rock emplacement areas or its stockpiling for future rehabilitation activities; and
- Removal of overburden and coal using truck and excavator/shovel methods, 24 hours a day, 7 days a week with an annual rate of overburden removal ranging between 12 and 26Mbcm.

Approved activities in the Falbrook Pit (North Open Cut) include:

- Extraction of coal by open cut mining methods from within a pit shell covering approximately 90ha and from three principal coal seams, namely the Middle / Lower Liddell, the Barrett and the Hebden seams.
- Transportation of run-of-mine (ROM) coal to the CHPP via a combination of internal haul routes, with and without intermediate stockpiling.
- Stockpiling of ROM coal at temporary ROM coal stockpile areas located at the top of the active open cut ramp or within the existing RL100 Stockpile Area, with subsequent transportation to the CHPP.
- Highwall / auger mining from the northern highwall for a maximum length of approximately 300m.
- Programmed placement of waste rock materials into an out-of-pit waste rock emplacement, with subsequent placement out-of-pit as well as in-pit.

Document Title:	Environmental Management Strategy		Document Owner:	Chris Quinn	
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Reviewed By:	Chris Quinn			Issue Date:	17/6/2019
Approved By:	Chris Knight	Review Frequency:	36 MONTHS / Or as required	Page No:	5 of 32

- Progressive construction of surface water control structures, including sediment containment dams.
- Storage and washing of ROM coal and dispatch of product coal from the CHPP and placement of fine tailings material within the existing tailings dams.
- Progressive reshaping and rehabilitation of all areas of mining-related disturbance.

Operations in the North Open Cut commenced on 5 May 2009.

2.1.2 Rixs Creek South

- Extraction of coal for 21 years and nine months from approval date or issue of Mining Lease 1432 to 24 March 2020.
- Production maximum total movement of materials in mining not exceeding 16.1 million bank cubic meters in any year.
- Stockpiling of ROM coal at temporary ROM coal stockpile areas, with subsequent transportation to the CHPP.

3 Environmental Policy

The Bloomfield Group, Rix's Creek Pty Ltd and Rixs Creek North has, and is committed to, an Environmental Policy which states:

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Reviewed By:	Chris Quinn	Review Frequency:	36 MONTHS / Or as required	Issue Date:	17/6/2019
Approved By:	Chris Knight			Page No:	6 of 32

OUR PURPOSE: We are a proud and successful Australian mining and engineering group.



WE CARE. WE DELIVER.

THE BLOOMFIELD GROUP ENVIRONMENT POLICY



It is the policy of the Bloomfield Group, and its subsidiary and associated companies, to strive to achieve a high standard of care for the natural environment in all of the activities in which we engage during the production of quality coal and the provision of engineering related services.

We aim to conduct our operations in an ecologically sustainable manner by:

- Identifying, monitoring and managing risks arising from our operations in accordance with the structure
- Minimising our impact on the environment through the:
 - prevention of ground and water pollution;
 - minimisation of dust which is controlled within approved limits;
 - reduction of noise associated with our activities to as low as reasonably practicable and managed within approved limits;
 - reduction of waste associated with our activities;
 - timely rehabilitation of disturbed areas; and
 - management of energy consumption and greenhouse gas production.
- Identifying, monitoring and managing risks arising from our operations in accordance with the structure of our Environment Management System, which establishes the appropriate objectives and targets related to the environmental aspects relevant to the scope of the Operation;
- Reviewing our environmental management activities and seeking to continually improve our production processes, waste management and the use of resources;
- Conducting our operations in compliance with all relevant environmental regulations, licences and legislation;
- Communicating with employees about our aim and about their individual responsibilities;
- Informing our contractors, customers and suppliers of our aim and of their environmental responsibilities in relation to our business;
- Communicating with the community and relevant government bodies with regard to our environmental performance, obligations and issues, as appropriate to their interests.

Signature 
 Name Brett Lewis
Managing Director
 Date 14th March 2019

Signature 
 Name Brendon Clements
Operations Manager, Rix's Creek
 Date 14th March 2019

OUR VISION: We seek excellence in all we do: respecting our history as we shape our future.

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Prepared By:	Chris Knight	Print Date:	2-Jul-19
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Approved By:	Chris Knight	Issue Date:	17/6/2019
		Page No:	7 of 32
		Review Frequency:	36 MONTHS / Or as required

3.1 Objectives

The EMS has been developed to:

- Facilitate the management of environmental issues;
- Ensure compliance with regulatory requirements;
- Improve environmental performance; and
- Meet stakeholder and community expectations.

4 Planning

4.1 Legal Requirements

This Strategy has been prepared in accordance with the relevant conditions in the RCN Project Approval 23 August 2016 for Project 08_0102 Mod 6, and RCS Development approval 20 December 2016 DA 49/94 N90/00356 (Mod 8), and generally conforms to the *AS/NZS ISO 14001 Environmental Management System 2004* guidelines.

All activities conducted on the mine site are governed by statutory acts and regulations of New South Wales. RCN and RCS are committed to complying with all regulatory requirements relevant to the environmental aspects of the operation and to the extent of the nature of the works being undertaken. Copies of the relevant Acts, Regulations, Standards, Licenses, Leases and Approvals are maintained by the Environmental Department at the RCN and can be readily accessed when required.

Up-to-date legal environmental information for NSW and Australia applicable to the operation are obtained on a regular basis through the internet site www.legislation.nsw.gov.au, the government gazette, information provided by the Minerals Council and various other sources.

4.1.1 Rixs Creek North Project Conditions

The relevant Project Approval requirements are included for RCN in **Table 4-1**.

Table 4-1 Legal Requirements

Legal Requirement	Relevant Condition	EMS Section
Project Approval PA 08_0102	Schedule 5 Environmental Management Environmental Management Strategy 1. If the Secretary requires, the Proponent must prepare an Environmental Management Strategy for the project to the satisfaction of the Secretary. This strategy must: (a) be submitted to the Secretary for approval; (b) provide the strategic framework for the environmental management of the project; (c) identify the statutory approvals that apply to the project; (d) describe the role, responsibility, authority and accountability of	4.1 6

Document Title:	Environmental Management Strategy	Document Owner:	Chris Quinn
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Approved By:	Chris Knight	Issue Date:	17/6/2019
	Review Frequency:		Page No: 8 of 32

**36 MONTHS /
Or as required**

	<p>all key personnel involved in the environmental management of the project;</p> <p>(e) describe the procedures that would be implemented to:</p> <ul style="list-style-type: none"> • keep the local community and relevant agencies informed about the operation and environmental performance of the project; • receive, handle, respond to, and record complaints; • resolve any disputes that may arise during the course of the project; • respond to any non-compliance; and • respond to emergencies; and <p>(f) include:</p> <ul style="list-style-type: none"> • copies of any strategies, plans and programs approved under the conditions of this approval; and • a clear plan depicting all the monitoring required to be carried out under the conditions of this approval. <p>The Proponent must implement the approved strategy as approved from time to time by the Secretary.</p> <p>Management Plan Requirements</p> <p>2. The Proponent must ensure that the management plans required under this approval are prepared in accordance with any relevant guidelines, and include:</p> <p>(a) detailed baseline data;</p> <p>(b) a description of:</p> <ul style="list-style-type: none"> • the relevant statutory requirements (including any relevant approval, licence or lease conditions); • any relevant limits or performance measures/criteria; and • the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the project or any management measures; <p>(c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;</p> <p>(d) a program to monitor and report on the:</p> <ul style="list-style-type: none"> • impacts and environmental performance of the project; and • effectiveness of any management measures (see (c) above); <p>(e) a contingency plan to manage any unpredicted impacts and their consequences;</p> <p>(f) a program to investigate and implement ways to improve the environmental performance of the project over time;</p> <p>(g) a program to regularly review management practices to align with contemporary best practice industry standards;</p> <p>(h) a protocol for managing and reporting any:</p> <ul style="list-style-type: none"> • incidents; • complaints; • non-compliances with the conditions of this approval and statutory requirements; and • exceedances of the impact assessment criteria and/or performance criteria; and <p>(i) a protocol for periodic review of the plan.</p> <p><i>Note: The Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.</i></p>	<p>5</p> <p>10</p> <p>10.1</p> <p>11</p> <p>4</p> <p>12.1</p> <p>4.2</p> <p>4.1</p> <p>12.1</p> <p>13</p>
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	<p>Preparation of Management Plans</p> <p>3. Prior to approval of management plans required under Schedule 3, all existing management plans, monitoring programs, strategies, programs, protocols, etc approved as at the date of approval of Modification 6 shall continue to have full force and effect, and may be revised under the requirements of condition 5 below as if subject to the conditions of this approval that applied prior to the approval of Modification 6, or otherwise with the approval of the Secretary.</p> <p>Relationships between Management Plans</p> <p>4. With the agreement of the Secretary, the Proponent may combine any strategy, plan or program required by this approval with any similar strategy, plan or program required for Rix's Creek.</p> <p>Revision of Strategies, Plans & Programs</p> <p>5. Within 3 months of:</p> <ul style="list-style-type: none"> (a) the submission of an incident report under condition 8 below; (b) the submission of an annual review under condition 10 below; (c) the submission of an audit report under condition 11 below, or (d) any modification of the conditions of this approval (unless the conditions require otherwise), <p>the Proponent must review, and if necessary revise, the strategies, plans, and programs required under this approval to the satisfaction of the Secretary.</p> <p><i>Note: This is to ensure the strategies, plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the project.</i></p> <p>REPORTING</p> <p>Incident Reporting</p> <p>8. The Proponent must notify the Secretary and any other relevant agencies of any incident associated with the project as soon as practicable after the Proponent becomes aware of the incident. Within 7 days of the date of the incident, the Proponent must provide the Secretary and any relevant agencies with a detailed report on the incident.</p> <p>Regular Reporting</p> <p>9. The Proponent must provide regular reporting on the environmental performance of the project on its website, in accordance with the reporting arrangements in any approved plans or programs of the conditions of this approval.</p> <p>Annual Review</p> <p>10. By the end of March each year, or other timing as may be agreed by the Secretary, the Proponent must submit a report to the Department reviewing the environmental performance of the project to the satisfaction of the Secretary. This review must:</p> <ul style="list-style-type: none"> (a) describe the works (including any rehabilitation) that were carried out during the previous calendar year, and the works that are proposed to be carried out over the current calendar year; (b) include a comprehensive review of the monitoring results and complaints records of the project over the previous calendar year, which includes a comparison of these results against the: <ul style="list-style-type: none"> · relevant statutory requirements, limits or performance 	<p>13</p> <p>12.1</p> <p>12.4</p> <p>12.2</p>
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	<p>measures/criteria;</p> <ul style="list-style-type: none"> · monitoring results of previous years; and · relevant predictions in the documents referred to in condition 2 of Schedule 2; <p>(c) identify any non-compliance over the previous calendar year, and describe what actions were (or are being) taken to ensure compliance;</p> <p>(d) identify any trends in the monitoring data over the life of the project;</p> <p>(e) identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies; and</p> <p>(f) describe what measure will be implemented over the current calendar year to improve the environmental performance of the project.</p>	
	<p>INDEPENDENT ENVIRONMENTAL AUDIT</p> <p>11. By the end of December 2011, and every 3 years thereafter, unless the Secretary directs otherwise, the Proponent must commission and pay the full cost of an Independent Environmental Audit of the project. This audit must:</p> <ul style="list-style-type: none"> (a) be conducted by suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary; (b) include consultation with the relevant agencies; (c) assess the environmental performance of the project and whether it is complying with the relevant requirements in this approval and any relevant EPL or Mining Lease (including any assessment, plan or program required under these approvals); (d) review the adequacy of any approved strategies, plans or programs required under these approvals, with particular reference to management practices to ensure that they align with contemporary best practice industry standards; (e) recommend appropriate measures or actions to improve the environmental performance of the project, and/or any assessment, strategy, plan or program required under the abovementioned approvals; and (f) be conducted and reported to the satisfaction of the Secretary. <p>Note: This audit team must be led by a suitably qualified auditor and include experts in any fields specified by the Secretary.</p> <p>12. Within 12 weeks of commissioning this audit, or as otherwise agreed by the Secretary, the Proponent must submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report.</p>	12.3
	<p>ACCESS TO INFORMATION</p> <p>13. The Proponent must:</p> <ul style="list-style-type: none"> (a) make copies of the following publicly available on its website: <ul style="list-style-type: none"> · the documents referred to in conditions 2 and 3 of Schedule 2; · all current statutory approvals for the project; · all approved strategies, plans and programs required under the conditions of this approval; · the monitoring results of the project, reported in accordance with 	12.4

	<ul style="list-style-type: none"> · the specifications in any conditions of this approval, or any approved plans or programs; · a complaints register, which is to be updated on a monthly basis; · minutes of CCC meetings; · the annual reviews over the life of the project; · any independent environmental audit, and the Proponent's response to the recommendations in any audit; and · any other matter required by the Secretary; 	
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4.1.2 Rixs Creek South Project Approval

The relevant Project Approval requirements are included for RCS in **Table 4-7**.

Table 4-7 Legal Requirements for RCS.

Legal Requirement	Relevant Condition	EMS Section
Project Approval RSS DA 49/94	<p>Environmental Management Strategy</p> <p>18. If the Secretary requires, the Applicant must prepare an Environmental Management Strategy for the project to the satisfaction of the Secretary. This strategy must:</p> <ul style="list-style-type: none"> (i) be submitted to the Secretary for approval; (ii) provide the strategic framework for the environmental management of the project; (iii) identify the statutory approvals that apply to the project; (iv) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the project; (v) describe the procedures that would be implemented to: <ul style="list-style-type: none"> <input type="checkbox"/> keep the local community and relevant agencies informed about the operation and environmental performance of the project; <input type="checkbox"/> receive, handle, respond to, and record complaints; <input type="checkbox"/> resolve any disputes that may arise during the course of the project; <input type="checkbox"/> respond to any non-compliance; and <input type="checkbox"/> respond to emergencies; and (vi) include: <ul style="list-style-type: none"> <input type="checkbox"/> copies of any strategies, plans and programs approved under the conditions of this approval; and <input type="checkbox"/> a clear plan depicting all the monitoring required to be carried out under the conditions of this approval. <p>The Applicant must implement the approved strategy as approved from time to time by the Secretary.</p>	<p>4.1</p> <p>5</p> <p>10</p> <p>10.1</p> <p>10</p> <p>11</p> <p>4</p> <p>12.1</p>
	<p>Management Plan Requirements</p> <p>18A. The Applicant must ensure that the management plans required under this approval are prepared in accordance with any relevant guidelines, and</p>	<p>4.2</p>

	<p>include:</p> <ul style="list-style-type: none"> (i) detailed baseline data; (ii) a description of: <ul style="list-style-type: none"> · the relevant statutory requirements (including any relevant approval, licence or lease conditions); · any relevant limits or performance measures/criteria; and · the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the project or any management measures; (iii) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria; (iv) a program to monitor and report on the: <ul style="list-style-type: none"> · impacts and environmental performance of the project; and · effectiveness of any management measures (see (c) above); (v) a contingency plan to manage any unpredicted impacts and their consequences; (vi) a program to investigate and implement ways to improve the environmental performance of the project over time; (vii) a program to regularly review management practices to align with contemporary best practice industry standards; (viii) a protocol for managing and reporting any: <ul style="list-style-type: none"> · incidents; · complaints; · non-compliances with the conditions of this approval and statutory requirements; and · exceedances of the impact assessment criteria and/or performance criteria; and (ix) a protocol for periodic review of the plan. <p>Note: The Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.</p> <p>Preparation of Management Plans</p> <p>18B. Prior to approval of management plans required under Schedule 2, all existing management plans, monitoring programs, strategies, programs, protocols, etc approved as at the date of approval of Modification 8 shall continue to have full force and effect.</p> <p>Relationships between Management Plans</p> <p>18C. With the agreement of the Secretary, the Applicant may combine any strategy, plan or program required by this approval with any similar strategy, plan or program required for Rixs Creek North.</p> <p>Incident Reporting</p> <p>18D The Applicant must notify the Secretary and any other relevant agencies of any incident associated with the project as soon as practicable after the Applicant becomes aware of the incident. Within 7 days of the date of the incident, the Applicant must provide the Secretary and any relevant agencies with a detailed report on the incident.</p> <p>Regular Reporting</p>	<p>12.1</p> <p>13</p> <p>12.1</p>
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	<p>18E. The Applicant must provide regular reporting on the environmental performance of the project on its website, in accordance with the reporting arrangements in any approved plans or programs of the conditions of this approval.</p> <p>ANNUAL REVIEW</p> <p>19. By the end of March each year, or other timing as may be agreed by the Secretary, the Applicant must submit a report to the Department reviewing the environmental performance of the development to the satisfaction of the Secretary. This review must:</p> <ul style="list-style-type: none"> (i) describe the development (including any rehabilitation) that was carried out in the past calendar year, and the development that is proposed to be carried out over the current calendar year; (ii) include a comprehensive review of the monitoring results and complaints records of the development over the past calendar year, which includes a comparison of these results against the: <ul style="list-style-type: none"> · relevant statutory requirements, limits or performance measures/criteria; · requirements of any plan or program required under this consent; · monitoring results of previous years; and · relevant predictions in the documents listed in condition 1 of Schedule 2; (iii) identify any non-compliance over the past calendar year, and describe what actions were (or are being) taken to ensure compliance; (iv) identify any trends in the monitoring data over the life of the development; (v) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and (vi) describe what measures will be implemented over the current calendar year to improve the environmental performance of the development. <p>INDEPENDENT ENVIRONMENTAL AUDIT</p> <p>26. By the end of December 2016, and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant must commission, commence and pay the full cost of an Independent Environmental Audit of the development. This audit must:</p> <ul style="list-style-type: none"> (i) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary; (ii) include consultation with the relevant agencies; (iii) assess the environmental performance of the development and assess whether it is complying with the requirements in this consent and any relevant EPL or Mining Lease (including any assessment, plan or program required under these approvals); (iv) review the adequacy of strategies, plans or programs required under the abovementioned approvals; (v) recommend appropriate measures or actions to improve the environmental performance of the development, and/or any assessment, strategy, plan or program required under the abovementioned approvals; and (vi) be conducted and reported to the satisfaction of the Secretary. 	<p>12.4</p> <p>12.2</p> <p>12.3</p>
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	<p>Note: This audit team must be led by a suitably qualified auditor and include experts in any field specified by the Secretary.</p> <p>26A. Within 12 weeks of commencing each audit, unless the Secretary agrees otherwise, the Applicant must submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report, and a timetable for the implementation of any measures proposed to address the recommendations.</p> <p>REVISION OF STRATEGIES, PLANS AND PROGRAMS</p> <p>28. Within 3 months of:</p> <ul style="list-style-type: none"> (i) the submission of an incident report under condition 18D above; (ii) the submission of an audit report under condition 26A above; (iii) the submission of an Annual Review under condition 19 above; and (iv) the approval of a modification to this consent, <p>the Applicant must review, and if necessary revise, the strategies, plans, and programs required under this approval to the satisfaction of the Secretary.</p> <p>Within 4 weeks of conducting any such review, the Applicant must advise the Secretary of the outcomes of the review, and provide any revised documents to the Secretary for review and approval.</p> <p>Note:</p> <ul style="list-style-type: none"> · This is to ensure the strategies, plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the project. · Revisions related to the rail loop modification must be submitted prior to commencing construction. <p>UPDATING & STAGING SUBMISSION OF STRATEGIES, PLANS OR PROGRAMS</p> <p>29. To ensure the strategies, plans or programs under this consent are updated on a regular basis, and that they incorporate any appropriate mitigation measures to improve the environmental performance of the development, the Applicant may at any time submit revised strategies, plans or programs to the Secretary for approval. With the agreement of the Secretary, the Applicant may also submit any strategy, plan or program required by this consent on a staged basis.</p> <p>With the agreement of the Secretary, the Applicant may revise any strategy, plan or program approved under this consent without consulting with all the parties nominated under the applicable conditions of consent.</p> <p>Notes:</p> <ul style="list-style-type: none"> · While any strategy, plan or program may be submitted on a progressive basis, the Applicant must ensure that the existing operations on site are covered by suitable strategies, plans or programs at all times; and · If the submission of any strategy, plan or program is to be staged, then the relevant strategy, plan or program must clearly describe the specific stage to which the strategy, plan or program applies, the relationship of this stage to any future stages, and the trigger for updating the strategy, plan or program. 	12.2
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	<p>ACCESS TO INFORMATION</p> <p>30. The Applicant must:</p> <ul style="list-style-type: none"> (i) make copies of the following publicly available on its website: <ul style="list-style-type: none"> · the documents referred to in condition 1 of Schedule 2; · all current statutory approvals for the project; · all approved strategies, plans and programs required under the conditions of this approval; · the monitoring results of the project, reported in accordance with the specifications in any conditions of this approval, or any approved plans or programs; · a complaints register, which is to be updated on a monthly basis; · minutes of CCC meetings; · the annual reviews over the life of the project; · any independent environmental audit, and the Applicant' response to the recommendations in any audit; and · other matter required by the Secretary; (ii) · keep this information up-to-date, to the satisfaction of the Secretary. 	12.4
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The relevant mining tenements for RCN and RCS are included in **Table 4.2**.

Table 4-2 Mining Tenements for RCN and RCS

Mineral Authority	Comment
	Rixs Creek North operation
Coal Lease (CL) 357	Expiry 27—03-2032
ML1725	Expiry 11-11-2033
Mining Lease (ML) 1630	Expiry 16-03-2030
ML 1648	Expires 04-02-2032
ML 1649	Expires 04-01-2032
ML 1650	Expires 04-01-2032
ML 1651	Expires 04-01-2032
A81	Authorisation Area Expires
Possum Skin Dam Concurrence	Dam life initially established by DSC as 8 years. Potential to extend life based upon surveillance monitoring
	Rixs Creek South operation
Coal Lease	Renewed 13 September 2011 expires 10 October 2031

Mineral Authority	Comment
(CL) 352	
Mining Lease (ML) 1432	Expiry 24-06-2019

Other relevant licences for Open Cut Project are included in **Table 4.3**

Table 4-3 Other Licences for RCN and RCS

Issued By	Number	Grant Date	Expiry/ Renewal/ Anniversary Date	Comment
Environment Protection Licence				
EPA	EPL3391	21/8/2000	3 rd April	For coal mining and processing at the Rixs Creek North and Rix's Creek South, on a scale of >5 million tonnes coal handled and >5 million tonnes of coal products loaded.
Dangerous Goods Licences				
WorkCover	100230-001		Ongoing	Licence to store Dangerous Goods on premises RCN
WorkCover	NDG 028098	29/10/2013	15/12/2017	Notification of Dangerous Goods on Premises (ammonium nitrate, oxidising liquid and diesel) RCN.
WorkCover	NDG032405	13/02/2015	Ongoing	Licence to store Dangerous Goods on premises RCS
WorkCover	XSTR100131		05/07/2017	WorkCover NSW Licence to Store Explosives RCS

Table 4-4 Mine Dewatering Licences for RCN and RCS

Licence Number	Date of Issue or Renewal	Expiry	Comments
20BL172249	24/07/2009	Perpetuity	North Open Cut mine groundwater (dewatering) – 100ML RCN
20BL169513	01/03/2010	28/02/2015	South Pit (incl. Extension Area) groundwater (dewatering) – 100ML RCN

20BL170863	04/11/2011	03/12/2016	RCS mine groundwater (dewatering) – 100ML
20BL170864	04/12/2006	28/02/2015	Bore Hole into underground working (dewatering) – 100ML RCS

Table 4-5 Surface Water Extraction for RCN and RCS.

Licence Number	Date of Issue / Registration	Expiry	Comments
Rixs Creek North			
WAL 484	1/07/2004	Continuing	3ML High Security (Glennies Creek)
WAL 485	1/07/2004	Continuing	99ML General Security (Glennies Creek)
WAL 627	1/07/2004	Continuing	102MK General Security (Zone 3A Glennies Creek)
WAL 797	1/07/2004	Continuing	14ML General Security (Zone 3A Glennies Creek)
WAL 833	1/07/2004	Continuing	54ML General Security (Zone 3A Glennies Creek)
WAL 874	1/07/2004	Continuing	240ML General Security (Zone 3A Glennies Creek)
WAL 10095	1/07/2004	Continuing	230ML High Security (Zone 3A Glennies Creek)
WAL 960	1/07/2004	Continuing	50ML High Security (Zone 3A Glennies Creek)
WAL 961	1/07/2004	Continuing	150ML High Security (Zone 3A Glennies Creek)
WAL 1172	1/07/2004	Continuing	3ML High Security (Zone 3A Glennies Creek)
WAL 1173	1/07/2004	Continuing	303 General Security (Zone 3A Glennies Creek)
WAL 1273	1/07/2004	Continuing	1.2ML Supplementary Water (Zone 3A Glennies Creek)
WAL 1242	1/07/2004	Continuing	13ML Supplementary Water (Zone 3A Glennies Creek)
WAL 18002	1/08/2009	Continuing	6ML Unregulated River (Martins, Blackwall and Station Creek)
Rixs Creek South			
WAL 11919		Continuing	159ML General Security (Hunter Regulated River)
WAL 11917		Continuing	49.5ML General Security (Hunter Regulated River)
WAL 11918		Continuing	49.5ML General Security (Hunter Regulated River)
WAL 9912		Continuing	24ML General Security (Hunter Regulated River)
WAL 19024		Continuing	150ML Unregulated River (Singleton)

WAL 17992		Continuing	5ML Unregulated River (Glennise)
WAL 19027		Continuing	300ML Unregulated River (Singleton)
WAL 19035		Continuing	91ML Unregulated River (Singleton)
WAL 11084		Continuing	1ML General Security (Hunter Regulated River)

Table 4-6 Groundwater Monitoring Licences for RCN and RCS

Licence Number	Date of Issue / Registration	Expiry	Monitoring Bore
Rixs Creek North			
20BL169571	7/03/2005	Perpetuity	GCP3S, GCP4S, GCP39, GCP3(d) and GCP4(d)
20BL169574	7/03/2005	Perpetuity	GCP4 and GCP4 Aluv
20BL169626	7/03/2005	Perpetuity	GCP24
20BL169628	17/03/2005	Perpetuity	GCP7, GCP13, GCP14, GCP15 and GCP16
20BL169630	17/03/2005	Perpetuity	GCP8
20BL169631	17/03/2005	Perpetuity	GCP1, GCP2, GCP5, GCP6 and GCTB
20BL167917	15/08/2000	Perpetuity	GCP11
20BL171705	17/08/2007	Perpetuity	GCP 25 and GCP 26
20BL171707	17/08/2007	Perpetuity	GCP 18
20BL171708	17/08/2007	Perpetuity	GCP9, GCP10, GCP 19 and GCP 20
20BL171720	16/01/2008	Perpetuity	GCP 30 and GCP 31
20BL171721	16/01/2008	Perpetuity	GCP 21, GCP 22 and GCP 23
20BL171722	16/01/2008	Perpetuity	GCP 28, GCP29 and GCP36
20BL171813	3/04/2008	Perpetuity	GCP17
20BL171870	15/05/2008	Perpetuity	GCP40
20BL171878	5/06/2008	Perpetuity	GCP38
20BL171879	5/06/2008	Perpetuity	GCP34
20BL171880	5/06/2008	Perpetuity	GCP32
20BL171881	5/06/2008	Perpetuity	GCP27

Rixs Creek South			
20BL172457	6/4/2010	Perpetuity	Bore 1
20BL172459	6/4/2010	Perpetuity	Bore 2
20BL172459	6/4/2010	Perpetuity	Bore 3
20BL172460	6/4/2010	Perpetuity	Bore 4
20BL172461	6/4/2010	Perpetuity	Bore 5
20BL173812	9/9/2014	Perpetuity	Bore 6
20BL173733	7/4/2014	Perpetuity	Bore 7
20BL173734	7/4/2014	Perpetuity	Bore 8

4.2 Management Plans

Management plans as required by the relevant authority for RCN and RCS have been developed and are either approved or are to be approved. Specific environmental management plans are listed in **Table 4.7**

Table 4-7 Environmental Management Plans/Standards

Approval Authority	Title
Department Planning & Environment (DPE)	RCM - Noise Management Plan
DPE	RCM- Blast Management Plan
DPE	RCM -Air Quality & Greenhouse Gas Management Plan
DPE	RCM- Water Management Plan
DPE	RCN - Biodiversity Management Plan
DPE	RCN -Heritage Management Plan
DPE	RCN -Waste Management Plan
DPE	RCS- Landscaping Plan
DPE	RCS- Transport Management Plan – Cut & Cover Tunnel
DPE	RCS - Landscape Management Plan
DPE	- Rehabilitation Management Plan
DPE	- Final Void Management Plan
DPE	- Mine Closure Plan
DRE	RCN / RCS Mining Operations Plan (MOP) which becomes the Rehabilitation Management Plan

5 Stakeholders

Rixs Creek North and Rixs Creek South has an ongoing consultation program which allows for consideration of all stakeholder views and timely feedback to any concerns raised. This program encourages a constructive and consultative approach to environmental management and active participation by all personnel in the environmental management of the operation.

Relevant stakeholders include:

- Department of Planning and Environment (DPE);
- Office of Environment and Heritage (OE&H);
- Resources Regulator (RR)
- Division of Resources & Energy (DTIRIS- DRE);
- Singleton Shire Council (SSC);
- Community Consultative Committee;
- Local Indigenous groups; and
- Local community.

Document Title:	Environmental Management Strategy		Document Owner:	Chris Quinn	
Prepared By:	Chris Knight	Print Date:	2-Jul-19	Version No:	1.2
Reviewed By:	Chris Quinn	Review Frequency:	36 MONTHS / Or as required	Issue Date:	17/6/2019
Approved By:	Chris Knight			Page No:	21 of 32

Communication and consultation strategies include:

- Rixs Creek Newsletter;
- Rix's Creek Community Hotline;
- The Bloomfield Group – Rixs Creek North and Rix's Creek website (<http://www.bloomcoll.com.au>) (includes links to regular reporting on environmental performance);
- Local landowners and residents; and
- Community participation.

6 Roles and Responsibilities

Role	Responsibilities
Manager of Mining Engineering	<ul style="list-style-type: none"> • The Manager of Mining Engineering is accountable for the overall environmental performance of RCN & RCS, including the outcomes of this Environmental Management Strategy. • Must ensure adequate resources are available to enable implementation of this Environmental Management Strategy.
Environmental Manager	<ul style="list-style-type: none"> • Accountable for ensuring all employees in the respective areas are committed to and implement the requirements of this Environmental Management Strategy.
Environmental Advisor	<ul style="list-style-type: none"> • Ensure the Environmental Management Strategy is implemented. • Responsible for providing consultative advice and facilitating training where required for the Environmental Management Strategy at RCN & RCS
All personnel	<ul style="list-style-type: none"> • To ensure that the procedures and forms are followed and recorded according to the Environmental Management System and Strategy.

It is the responsibility of the Environmental Manager to monitor changes to environmental regulatory requirements and to ensure that all site personnel are made aware of these changes. The Senior Environmental Officer also ensures the EMS is amended as required to reflect any changes in regulatory requirements.

7 Competence, Training and Awareness

All personnel are required to undergo Environmental Awareness Training as a minimum. Training is aimed at providing a minimum standard of environmental education. The level of training relates to the areas that the person requires access. The two types of Induction training include:

- Site employees; and
- Contractors.

A designated site representative is responsible for conducting this training. The Environmental Advisor it to ensure that the content of the induction adequately reflects the ongoing changes of the

Document Title:	Environmental Management Strategy		Document Owner:	Chris Quinn
Prepared By:	Chris Knight	Print Date:	2-Jul-19	Version No: 1.2
Reviewed By:	Chris Quinn			Issue Date: 17/6/2019
Approved By:	Chris Knight	Review Frequency:	36 MONTHS / Or as required	Page No: 22 of 32

operations conditions and activities in relation to managing the environment. The site supervisors are responsible for ensuring that all persons entering their work area have undergone the correct induction training.

7.1 Internal Communication

RCN & RCS encourages a constructive and consultative approach to environmental management and active participation by all personnel in the environmental management of the operation.

Internal communication strategies include:

- **Morning Production Meetings.** As implied by the title these meetings occur daily and provide a detailed presentation in regards to the previous days mine operation, this includes safety, health and environmental matters and concerns for that period;
- **Shift Changeover Meetings.** A shift meeting where all hazards and incident as well as production information for the previous shift are raised and discussed;
- **Toolbox Meetings.** Held to raise the occupational health and safety (OH&S) and environmental awareness of the workforce and to discuss identified issues in the workplace. Toolbox meetings also provide an opportunity for employees to discuss any environmental concerns/issues; and
- **Notice Boards.** Notice boards are used to display relevant Environmental and OH&S information, alerts and statistics.

8 Documentation

Environmental management plans and procedures have been developed for the EMS. These documents will:

- Describe the core element of the management system and interactions; and
- Provide direction to related documentation and other references.

The five levels of documentation within the EMS include:

- Environmental policy;
- Environmental objectives and targets;
- Environmental management system;
- Management plans;
- Procedures;
- Forms; and
- Registers.

8.1 Document Control

The document control system aims to ensure that:

- Documents are periodically reviewed and are accessible (excluding private information);
- Relevant people are informed of new documents and changes to existing documents;

Document Title:	Environmental Management Strategy		Document Owner:	Chris Quinn
Prepared By:	Chris Knight	Print Date:	2-Jul-19	Version No: 1.2
Reviewed By:	Chris Quinn			Issue Date: 17/6/2019
Approved By:	Chris Knight	Review Frequency:	36 MONTHS / Or as required	Page No: 23 of 32

- Superseded and obsolete documents are promptly removed; and
- Documents to be retained for legal purposes are identified and stored.

Controlled document tracking is minimized by having one controlled hardcopy of the EMS with a controlled 'read only' access on the site intranet.

9 Operational Control

Environmental procedures provide an outline of how activities will be carried out in a manner that minimizes potential harm to the environment. Environmental procedures are drafted for major risk activities and work areas identified in the risk assessment to help control and/or mitigate the risk.

Environmental procedures include purpose, scope, objective, definitions, references, responsibilities, procedural requirements/steps and training sections where required. These procedures provide the step-by-step process of how to carry out a specific task or provide specific or further detail for environmental requirements within the work areas.

Where procedures do not exist for a work activity, a risk assessment is required to be undertaken prior to commencement of work. Risk assessments are aimed at identifying potential risk/hazards associated with the work tasks. This includes environmental risk or hazards. Risk assessments are undertaken in accordance with the SMP Risk Assessment Management Plan.

10 Complaints Handling and Response

RCM has a 24-hour telephone hotline (02 49302665) for the members of the public to lodge complaints concerns or to raise issues associated with the operations. This service aims to promptly and effectively address community concerns and environmental matters.

The hotline number is advertised on the Bloomfield Group web site (<http://www.bloomcoll.com.au>) and members of the community are encouraged to contact the hotline if they need to highlight any environmental issues or seek information regarding environmental aspects associated with RCN & RCS.

In addition a member of the community can contact an RCM Environmental Advisor or Manager in person, by phone, fax, e-mail or letter. Any person that is likely to be in a position to receive concerns is trained to deal with complaints in a professional, private and effective manner.

All complaints received are recorded in accordance with the Privacy Act (1988) and lodged in the complaint register. The complaint register is only viewable by environmental personnel and is protected to prevent others viewing recorded information. All complainants are questioned if they would like their complaint and details recorded. Information which may be recorded includes:

- Date and time the complaint was lodged;
- Personal details provided by the complainant;
- Nature of the complaint;
- Action taken or if no action was taken, the reason why; and
- Follow up contact with the complainant following investigation.

Document Title:	Environmental Management Strategy		Document Owner:	Chris Quinn	
Prepared By:	Chris Knight	Print Date:	2-Jul-19	Version No:	1.2
Reviewed By:	Chris Quinn			Issue Date:	17/6/2019
Approved By:	Chris Knight	Review Frequency:	36 MONTHS / Or as required	Page No:	24 of 32

Only generalised, non-personal information is published in the monthly complaint register on the Company website. No personal details such as name, address, phone number are published or any other information which may allow the complainant to be identified.

10.1 Dispute Resolution

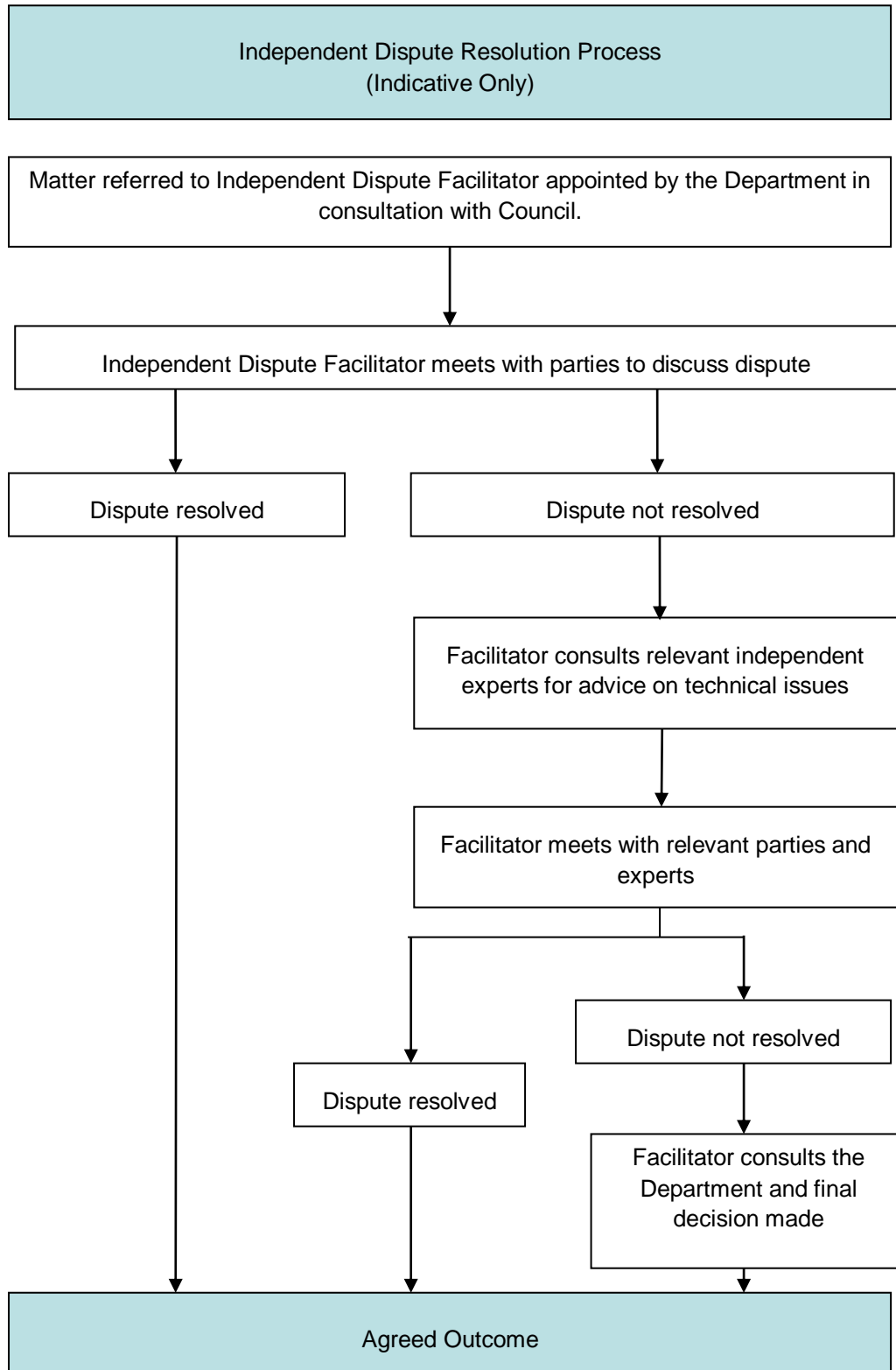
All disputes will be handled by a site Environmental Advisor and if the response of RCM is not considered to satisfactorily address the concern of the complainant, a meeting will be convened with the Mine Manager and/or the Environmental Manager together with the Environmental Advisor.

The complainant will be advised of the outcomes from the meeting and the actions to be implemented as a result. After implementation of the proposed actions the complainant will be contacted and advice sought as to the satisfaction or otherwise with the measures taken.

If no agreed outcome is determined, an Independent Review may be requested by landowners to determine if the relevant Impact Assessment Criteria of the Project is being exceeded. If determined to be warranted by the Secretary, an Independent Dispute Resolution process, outline in **(Figure 10.1)** will be implemented to achieve an agreed outcome.

Document Title:	Environmental Management Strategy		Document Owner:	Chris Quinn	
Prepared By:	Chris Knight	Print Date:	2-Jul-19	Version No:	1.2
Reviewed By:	Chris Quinn			Issue Date:	17/6/2019
Approved By:	Chris Knight	Review Frequency:	36 MONTHS / Or as required	Page No:	25 of 32

Figure 10-1 Independent Dispute Resolution process



11 Emergency Preparedness and Response

The emergency response procedure is an integral component of the Emergency Management System. The Emergency Management System encompasses environmental emergencies such as:

- Major spill of hydrocarbons or chemicals;
- Release of dirty water off-site into watercourses; and
- Bushfire events.

As a result, responses to these situations are contained within the emergency response procedure. A controlled copy of the Emergency Management System can be obtained from the Document Controller.

A Pollution Incident Response Management Plan is also in place for reporting specific incidents.

12 Monitoring and Reporting Requirements

Measuring, monitoring and evaluating are key activities that ensure the RCN & RCS are performing in accordance with the EMS Policy, objectives and targets, whilst also addressing ongoing planning.

All key characteristics of the operation that can have an impact on the environment are monitored on a regular basis in accordance with Project Approvals and those environmental licences and other statutory conditions relevant to the integration of all operations at RCN & RCS.

An overview of the environmental monitoring requirements is provided in **Table 12.1**. The relevant management plans should be referenced for full details of monitoring requirements.

Table 12-1 Monitoring Requirements

Environmental Aspect	Management Plan and Section	Parameter	Frequency
Noise	Noise Management Plan Section 4	Real time monitoring	Continuously
		Attended noise monitoring	Nightly for operational control & Monthly for compliance
Blast	Blast Management Plan Section 4	Air blast, ground vibration, observation of flyrock and dust and fume clouds	All blast events
Air Quality	Air Quality & Green House Gas Management Plan Section 4	Real-time.	Continuously
		Dust deposition	Monthly
Greenhouse	Air Quality & Green House Gas Management	Greenhouse gases	Annually

Document Title:	Environmental Management Strategy		Document Owner:	Chris Quinn
Prepared By:	Chris Knight	Print Date:	2-Jul-19	Version No: 1.2
Reviewed By:	Chris Quinn			Issue Date: 17/6/2019
Approved By:	Chris Knight	Review Frequency:	36 MONTHS / Or as required	Page No: 27 of 32

	Plan Section 4		
Surface Water	Water Management Plan Section 4	Various	Monthly
Ground Water	Water Management Plan Section 6	Various	Monthly
Biodiversity	Biodiversity Management Plan Section 5	Various	Bi-annually
Aboriginal Heritage	Heritage Management Plan		Ongoing consultation with stakeholders
European Heritage	Heritage Management Plan		
Waste	Waste Management Plan Section 4	All wastes are tracked	Annually
Rehabilitation	Rixs Creek North Mining Operations Plan & Rixs Creek South Mining Operations Plan		Annually

12.1 Environmental Incident Reporting

All personnel are required to report environmental incidents that cause potential or actual harm to the environment and/or are determined to be a non-conformance. Reportable environmental incidents are subject of a formal report to appropriate regulators. The relevant agency will be notified of reportable incidents as soon as practicable with a written report provided within seven (7) days.

The following information is provided under incident reporting:

- Time, date, location and name of person who identified the incident;
- Description of the incident and investigation;
- How and why the incident occurred;
- What were the actual and potential environmental impacts;
- Corrective actions to reduce short term recurrence and risk; and
- Preventative Actions to prevent long term recurrence of the incident.

12.2 Environmental Reporting

Environmental reporting will be undertaken as required to periodically report on environmental management and compliance.

This reporting will including but not limited to:

- an Annual Review (external);
- an Annual Environmental Protection Licence Return (external);

Document Title:	Environmental Management Strategy		Document Owner:	Chris Quinn	
Prepared By:	Chris Knight	Print Date:	2-Jul-19	Version No:	1.2
Reviewed By:	Chris Quinn			Issue Date:	17/6/2019
Approved By:	Chris Knight	Review Frequency:	36 MONTHS / Or as required	Page No:	28 of 32

- Environmental monitoring results (external) on website as required by EPL and consents - monthly.

12.3 Independent Environmental Audit

An independent environmental audit of the RCN and RCS operations will be conducted every three year and the results reported to the Secretary DPE and made available on the website.

Actions and recommendations will be communicated to senior management and actioned as necessary.

12.4 Publication of Environmental Information

Information relevant to the RCM operations will be publically available on the website <http://www.bloomcoll.com.au/>

The website will be updated with information pertaining to but not limited to:-

- Current statutory project approvals;
- Management plan and strategies;
- Monitoring results;
- Independent environmental audit reports;
- Complaints received;
- Annual review; and
- Minutes of CCC meetings.

This material will be periodically updated on the website as it becomes publically available.

Document Title:	Environmental Management Strategy		Document Owner:	Chris Quinn	
Prepared By:	Chris Knight	Print Date:	2-Jul-19	Version No:	1.2
Reviewed By:	Chris Quinn	Review Frequency:	36 MONTHS / Or as required	Issue Date:	17/6/2019
Approved By:	Chris Knight			Page No:	29 of 32

13 Review

The review of this document will be in line with the requirements of the Environmental Management System or every 3 years. The reviews will be conducted after independent environmental reviews/audits and as required by relevant consent conditions. The purpose of the review is to ensure that the Strategy remains suitable, adequate and effective. Environmental performance will also be reviewed annually within the Annual Review which is submitted to the relevant agencies and stakeholders.

Document Title:	Environmental Management Strategy		Document Owner:	Chris Quinn
Prepared By:	Chris Knight	Print Date:	2-Jul-19	Version No: 1.2
Reviewed By:	Chris Quinn	Review Frequency:	36 MONTHS / Or as required	Issue Date: 17/6/2019
Approved By:	Chris Knight			Page No: 30 of 32

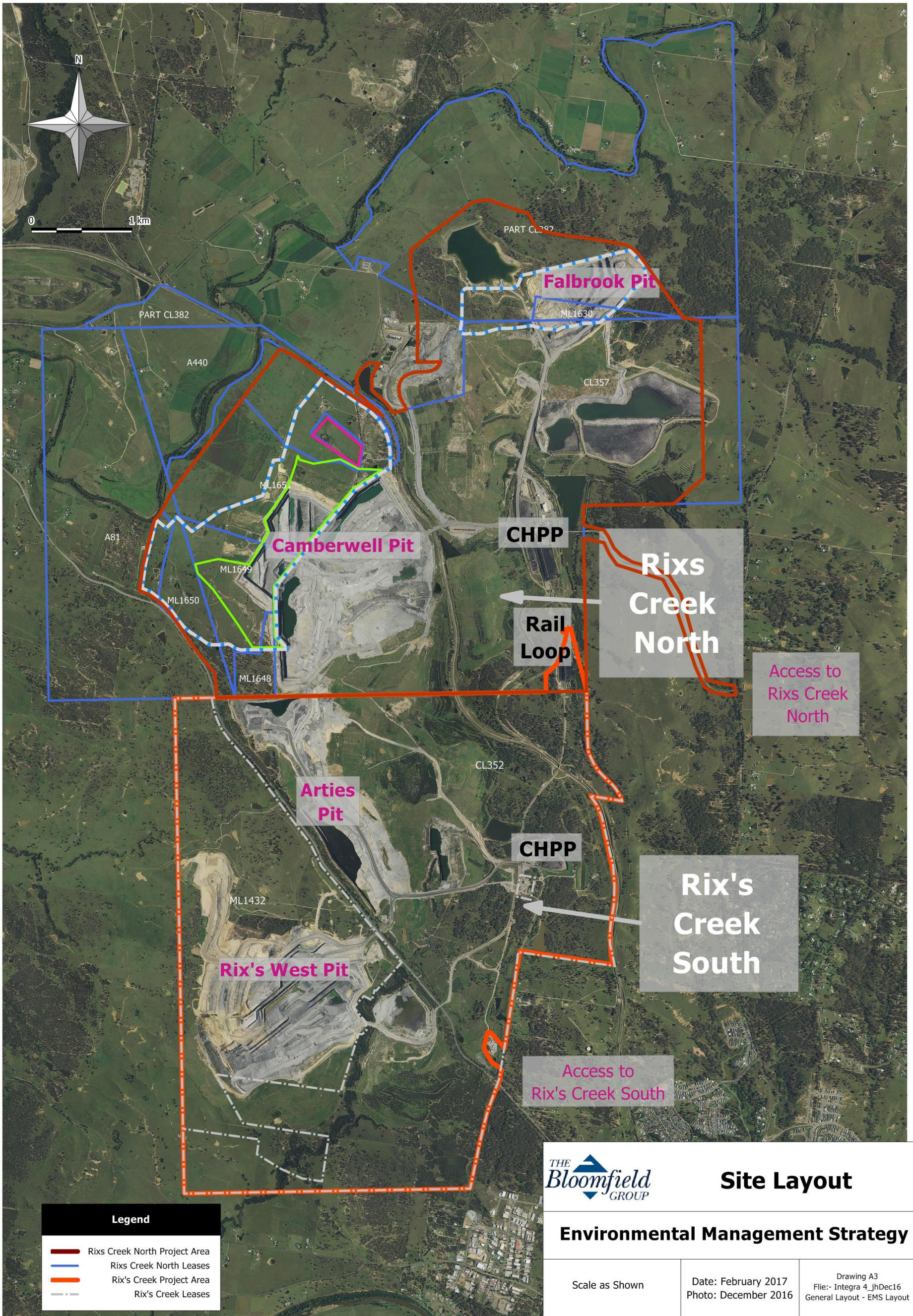


Figure 13-1 Site Layout

Document Title:	Environmental Management Strategy		Document Owner:	Chris Quinn	
Prepared By:	Chris Knight	Print Date:	2-Jul-19	Version No:	1.2
Reviewed By:	Chris Quinn	Review Frequency:	36 MONTHS / Or as required	Issue Date:	17/6/2019
Approved By:	Chris Knight			Page No:	31 of 32

Appendix 1- Copy of letters of approval/s from DPE

Document Title:	Environmental Management Strategy	Document Owner:	Chris Quinn
Prepared By:	Chris Knight	Print Date:	2-Jul-19
Reviewed By:	Chris Quinn	Version No:	1.2
Approved By:	Chris Knight	Issue Date:	17/6/2019
		Review Frequency:	36 MONTHS / Or as required
		Page No:	32 of 32



Mr John Hindmarsh
Senior Environmental Officer
Rix's Creek Mine
PO Box 4
East Maitland NSW 2323

John
Dear Mr Hindmarsh,

**Rix's Creek (DA 49/94) and Rix's Creek North (MP 08_0102)
Approval of Combined Management Plans**

I refer to your email dated 21 March 2017 seeking the Secretary's approval to combine the following management plans for Rix's Creek and Rix's Creek North coal mines:

- Air Quality & Greenhouse Gas Management Plan;
- Blast Management Plan;
- Noise Management Plan; and
- Environmental Management Strategy.

Considering the two sites are now operated by Bloomfield Collieries as an integrated complex, the Department accepts this approach. Under condition 18C of Schedule 2 of DA 49/94 and condition 4 of Schedule 5 of MP 08_0102, the Secretary agrees to your request to combine the above management plans/strategies.

If you wish to discuss this matter, please contact Megan Dawson on 9274 6391.

Yours sincerely,

Howard Reed
Howard Reed *28-3-17*
Director Resource Assessments
as nominee of the Secretary



Chris Knight
Senior Environmental Officer
Rix's Creek Mine
PO Box 4
EAST MAITLAND NSW 2323

Chris
Dear Mr Knight

**Rix's Creek Coal Complex (DA 49/94 and MP 08_0102)
Approval of Revised Environmental Management Strategy**

I refer to your email dated 24 June 2019, seeking the Secretary's approval of a revised Environmental Management Strategy for the Rix's Creek Coal Complex, in accordance with condition 1 of Schedule 5 of MP 08_0102 and condition 18 of Schedule 2 of DA 49/94.

The Department has reviewed this plan and considers that it addresses the relevant conditions of consent. As such, the Secretary has approved this plan. Please provide a final version (untracked) of this plan to the Department at your earliest convenience and place a copy on your website.

Should you have any enquiries in relation to this matter, please contact Genevieve Seed at the details above.

Yours sincerely,

Howard Reed

Howard Reed
Director
Resource Assessments
as nominee of the Planning Secretary

2-7-19