



# **Independent Environmental Audit 2020**

Werris Creek Coal Mine

22 July 2020

Project No: 0552611



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#### **Signature Page**

22 July 2020

# **Independent Environmental Audit 2020**

Werris Creek Coal Mine

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## **Independent Audit Certification Form**

Independent Audit Certification Form				
Development Name	Werris Creek Coal Mine			
Development Consent No.	PA 10_0059 Modification 2			
Description of Development	Werris Creek Coal Mine is a conventional open-cut coal mine			
Development Address	4 km south of Werris Creek, New South Wales (NSW) off Werris Creek Road			
Operator	Whitehaven Coal Limited			
Operator Address	231 Conadilly Street, Gunnedah NSW 2380 Australia			
Independent Audit				
Title of Audit	Werris Creek Conditions of Approval Independent Environmental Audit			

I certify that I have undertaken the independent audit and prepared the contents of the attached independent audit report and to the best of my knowledge:

- The audit has been undertaken in accordance with relevant approval condition(s) and in accordance with the auditing standard AS/NZS ISO 19011:2014 and Post Approval Guidelines – Independent Audits
- The findings of the audit are reported truthfully, accurately and completely;
- I have exercised due diligence and professional judgement in conducting the audit;
- I have acted professionally, in an unbiased manner and did not allow undue influence to limit or over-ride objectivity in conducting the audit;
- I am not related to any owner or operator of the development as an employer, business partner, employee, sharing a common employer, having a contractual arrangement outside the audit, spouse, partner, sibling, parent, or child;
- I do not have any pecuniary interest in the audited development, including where there is a reasonable likelihood or expectation of financial gain or loss to me or to a person to whom I am closely related (i.e. immediate family):
- Neither I nor my employer have provided consultancy services for the audited development that were subject to this audit except as otherwise declared to the lead regulator prior to the audit; and
- I have not accepted, nor intend to accept any inducement, commission, gift or any other benefit (apart from fair payment) from any owner or operator of the development, their employees or any interested party. I have not knowingly allowed, nor intend to allow my colleagues to do so.

#### Note.

- a) The Independent Audit is an 'environmental audit' for the purposes of section 122B(2) of the Environmental Planning and Assessment Act 1979. Section 122E provides that a person must not include false or misleading information (or provide information for inclusion in) an audit report produced to the Minister in connection with an environmental audit if the person knows that the information is false or misleading in a material respect. The maximum penalty is, in the case of a corporation, \$1 million and for an individual, \$250,000.
- b) The Crimes Act 1900 contains other offences relating to false and misleading information: section 192G (Intention to defraud by false or misleading statement—maximum penalty 5 years imprisonment); sections 307A, 307B and 307C (False or misleading applications/information/documents—maximum penalty 2 years imprisonment or \$22,000, or both).

Signature	R. Simble
Name of Lead / Principal Auditor	Robert Smith
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Auditor Certification (if relevant)	N/A
Date	22/07/20

#### **CONTENTS**

## **EXECUTIVE SUMMARY**

1.	INTR	RODUCTION	
	1.1	Overview of Operations and Approvals	1
		1.1.1 Description of primary processes undertaken during the audit pe	eriod1
	1.2	Audit Objectives	3
	1.3	Audit Scope	
	1.4	Audit Criteria	4
	1.5	Limitations of this Report	4
2.	AUDI	IT METHODOLOGY	5
	2.1	Methodology and Process	5
	2.2	Agency and Community Consultation	
	2.3	Classification of Audit Findings	8
3.	AUDI	IT FINDINGS	9
	3.1	Previous Audit Follow Up	9
	3.2	Complaints Summary	16
	3.3	Incident Summary	
	3.4	Environmental Monitoring Performance	
		3.4.1 Noise	16
		3.4.2 Air quality	
		3.4.3 Blasting	18
	3.5	Water Management	18
	3.6	Groundwater	18
	3.7	Management Plan Adequacy	
	3.8	Environmental Protection Licence	
	3.9	Mining Lease	
	3.10	Water Access Licences	
	3.11	Compliance with Regulatory Instruments	20
4.	CON	ICLUSION	23
ΛDE	PENDIX	( A CONDITIONS OF APPROVAL, ENVIRONMENTAL PROTEC	TION LICENCE
AI I	LINDIX	AND MINING LEASE COMPLIANCE TABLES	HON LIGENOL
APF	PENDIX	B DEPARTMENTAL CORRESPONDENCE	
	of Tabl		
		Summary of Audit Findings	
		Agency and Stakeholder Consultation Summary	
		Summary of 2017 Audit Findings	
		Summary of 2020 Audit Findings	
Tab	le 4.1 St	Summary of Audit Findings	23

#### **EXECUTIVE SUMMARY**

Environmental Resources Management Australia Pty Ltd (ERM) was commissioned to perform an Independent Environmental Audit (IEA) of the Werris Creek Coal Mine (WCC) on behalf of Whitehaven Coal Limited (WCL). The mine is located approximately 4 km south of Werris Creek, New South Wales (NSW). The primary purpose of the audit was to satisfy the Department of Planning, Industry and Environment (DPIE) Ministers' Conditions of Approval (CoA) Project Approval number PA 10\_0059 Modification 2, which requires completion of an independent audit by the end of June 2014, and every 3 years thereafter. The audit period assessed in this IEA is 1 July 2017 through 12 June 2020 (the date the site visit was completed as part of the audit).

The audit included a review of:

- Project Approval PA 10\_0059 Modification 2 (including management plans and programs);
- Environment Protection Licence EPL12290;
- Environmental Assessment (EA) Modification 2 (MOD 2) Statement of Commitments;
- Mining Leases ML 1671, ML 1672 and ML 1563; and
- Water Access Licence WAL 29506 and WAL 32224.

Whitehaven Coal has established the control systems generally required for the stage of development i.e. operational. All staff interviewed demonstrated an understanding of requirements and a commitment to the application of the requisite management systems and plans.

A qualitative risk assessment was also completed on the findings, consistent with AS/NZS 4360:2004 Risk management and HB 436:2004 Risk Management Guidelines Companion to AS/NZS 4360:2004 and as described in the Department of Planning & Environment publication "Independent Audit Guidelines" issued October 2015. The number of non-conformances with the statutory conditions and implementation of the management plans is summarised in *Table E1* below.

**Table E.1 Summary of Audit Findings** 

Review	Non-compliances (NC)	Observation (NC Obs)	Observations (C Obs)
Statutory Instruments	7	-	4
Implementation of Plans	-	-	-

Of the findings described in *Table E.1* two of the non-compliances were administrative in nature.

An action table addressing all findings of the audit has been developed by Whitehaven Coal and will be issued separately to this report.

www.erm.com Version: 1 Project No.: 0513868 Client: Whitehaven Coal Limited 22 July 2020

#### 1. INTRODUCTION

Environmental Resources Management Australia Pty Ltd (ERM) was commissioned to perform an Independent Environmental Audit (IEA) of the Werris Creek Coal Mine (WCC), on behalf of Whitehaven Coal Limited (herein referred to as 'WHC'). The mine is located approximately 4 km south of Werris Creek, New South Wales (NSW). The primary purpose of the audit was to satisfy the Department of Planning, Industry and Environment (DPIE)<sup>1</sup> Ministers' Conditions of Approval (CoA) Project Approval number PA 10\_0059 Modification 2 which requires completion of an independent audit by the end of June 2014, and every 3 years thereafter. The audit period assessed in this IEA is 1 July 2017 through 12 June 2020 (the date the site visit was completed as part of the audit). The audit must:

- (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 assess whether it is complying with the relevant requirements of this approval and any relevant mining lease or EPL (including any strategy, plan or program required under these approvals);
- (d) review the adequacy of strategies, plans or programs required under these approvals; and, if appropriate; and
- (e) recommend measures or actions to improve the environmental performance of the project, and/or any strategy, plan or program required under these approvals.

The Proponent shall submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report.

## 1.1 Overview of Operations and Approvals

The Werris Creek Coal Mine is an open pit coal mine which was originally approved by the Minister for Planning under Project Approval number PA 10\_0059 Modification 2 which limits mining until 31 December 2032. The Mining Operations Plan (MOP) covers a 7 year period from the 14 January 2016 to the 30 November 2022.

The WCC lies within the mining leases ML 1671, ML 1672 and ML 1563. WCC is owned and operated by Werris Creek Coal Pty Limited (WCC), a wholly owned subsidiary of Whitehaven Coal Limited (WHC).

The site holds Environmental Protection Licence (EPL) 12290, which was last varied on 16 January 2020.

## 1.1.1 Description of primary processes undertaken during the audit period

Current activities at the site include the following: Land preparation and clearing; Drilling; Blasting; Earthworks and associated haulage; Coal extraction; Coal stockpiling; Coal haulage; Rehabilitation including landform establishment, contouring, topsoiling and seeding; Water Management; Maintenance Facility; and Waste Management.

#### 1.1.1.1 Exploration

Exploration drilling was conducted during the audit period for coal quality, geotechnical and/or hydrogeological evaluation purposes.

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<sup>&</sup>lt;sup>1</sup> Formerly the Department of Planning and Environment (DP&E).

## 1.1.1.2 Land preparation

During the audit period, clearing of vegetation was conducted to facilitate surface drilling, and other operational works. Prior to the commencement of any clearing activities, flora and fauna pre-clearing surveys are conducted. Once cleared, soil stripping and stockpiling is conducted in the cleared areas. This is followed by the blasting of overburden and interburden material which is subsequently loaded into earthmoving trucks by excavators for hauling to the overburden dumps.

## 1.1.1.3 Mining operations & stockpile

Coal excavated from the mining pit is hauled to the Run-Of-Mine (ROM) stockpiles. Coal is segregated at the ROM stockpile based on the expected ash content of the coal. The higher ash coal products are processed through the fixed plant crusher at an average 420t/hr using a Front End Loader to feed the primary crusher (to <150mm) and subsequently processed through the secondary crusher to <50mm size for marketing as export quality coal. Low ash coal products are processed by the mobile crushers at an average 240t/hr to <50mm product and then screened.

## 1.1.1.4 Coal transport

Processed coal is carted using road trains to the Train Load Out (TLO) facility for loading on to trains. Train loading operations occur 24 hours per day, 7 days per week dependent on train scheduling. Product coal is transported by road trucks from the coal processing area to the product coal stockpile area at the train load out facility via the private coal haul road. The despatch of product coal from WCC is either transported by rail to the Port of Newcastle or by road to domestic customers.

#### 1.1.1.5 Maintenance activities

Maintenance of plant and equipment is carried out in a maintenance workshop located to the north of the main administration building. The workshop comprises a steel frame steel clad warehouse extending to approximately 1,200 square metres in area. The interior of the workshop is dedicated to small offices, workbenches, equipment and vehicle repair. Flammable substances were stored within cabinets and ERM observed adequate segregation distances between flammable and oxidising gases used for welding, cutting etc. An oil tank is located to the north-west of the warehouse, situated within a self bunded shipping container. An equipment and vehicle washbay is located to the north-west of the warehouse. Washwater from the washbay is discharged via an open pit to collect gross sediment, then to an oil/water separator system before discharge to the on-site stormwater drainage ditch network. Doorways to the workshop are protected by threshold drains which capture any spills from inside the workshop and discharge them to a nearby oil/water separator unit. Waste oil is stored under cover on the northern elevation of the workshop. On-site vehicles are fuel by three diesel above ground storage tanks (ASTs) located to the north-east of the maintenance workshop. These ASTs were self bunded. Concrete hardstand surrounded these ASTs and any spills in the area discharged via drains to the nearby oil/water interceptor. General wastes, scrap metal etc. were observed to be stored in skip bins and are reportedly removed by licenced waste contractors.

Housekeeping inside and in the vicinity of the warehouse was considered to be excellent. Minimal hydrocarbon staining was observed at the site. Hazardous substance storage arrangements were considered to be excellent.

#### 1.1.1.6 Waste management

Wastes produced at the site include general waste, scrap metal, waste sludge and hydrocarbon impacted wastes, which are removed from site as required by licenced contractors on an as needs basis (typically monthly). Waste segregation was noted to be good during the audit.

#### 1.1.1.7 Rehabilitation

Progressive rehabilitation activities have occurred during the audit period and generally comprise reshaping, topsoiling and seeding of the overburden emplacement to achieve the rehabilitation objectives of WCC.

## 1.2 Audit Objectives

The primary objectives of the audit included:

- assess the environmental performance of the project and assess whether it is complying with the requirements in the CoA and any relevant EPL, Mining Lease and Water Access Licences (including any assessment, plan or program required under these approvals);
- review the adequacy of any approved strategy, plan, or program required under the abovementioned consents/approvals; and
- recommend appropriate measures or actions to improve the environmental performance of the project, and/or any assessment, plan or program required under the abovementioned approvals.

## 1.3 Audit Scope

The scope of works in order to complete the Audit includes the following:

- the audit to be carried out in accordance with DPIE's Guidelines for Independent Audits and AS/NZS ISO 19011:2018: Guidelines for auditing management systems;
- review of compliance against the documentation identified in CoA (as it relates to the current activities at the Werris Creek Mine) which included;
  - document review of compliance against the CoA, statement of commitments, and any other relevant consents/approvals;
  - a site inspection to assess compliance against field implementation of the active CoA;
  - review of supporting plans developed as part of the CoA and assessment of their adequacy towards effective environmental performance;
- review of monitoring results and trends with comparison of monitoring results against regulatory limits and CoA limits (where applicable);
- confirmation if any additional monitoring required for identified trends;
- community complaints with review completed for any trends and identifying the source of an established trend:
- review of any regulatory actions including any letters, penalty notices and prosecutions;
- review of previous Independent Environment Report audit report to verify close-out of actions;
- consultation with the relevant agencies such as Department of Planning, Industry and Environment (DPIE) (various divisions: planning and post approvals, compliance, water, resources, biodiversity and conservation), Environment Protection Authority (EPA), Liverpool Plains Shire Council (LPSC) and Werris Creek Coal Mine Community Consultative Committee (CCC);
- draft report with results of compliance assessment to be issued for comment to Whitehaven Coal;
   and
- final report issued for submission to the DPIE.

The audit covers the period 1 July 2017 through 12 June 2020 and is limited to assessing the activities completed during the audit period.

#### 1.4 Audit Criteria

The audit covered the following specifications and standards, with a particular focus on activities associated with the current stages of operation. The documents relevant to this audit included:

- Conditions of Approval PA 10\_0059 Modification 2 including Statements of Commitments;
- Environment Protection Licence EPL12290;
- Environmental Assessment (EA) Modification 2 (MOD 2) Statement of Commitments;
- Mining Leases ML 1671, ML 1672 and ML 1563;
- Water Access Licence WA29506, WAL32224 and water works approvals 90WA822532 and 90WA828345;
- Management Plans:
  - Mining Operations Plan, December 2015
  - Water Management Plan, November 2017
  - Air Quality Greenhouse Gas Management Plan, March 2014
  - Biodiversity and Offset Management Plan, August 2013
  - Biodiversity and Offset Management Plan Submission to DPE, OEH and DoEE for approval, September 2016
  - Blast Management Plan, August 2019
  - Heritage Management Plan, July 2014
  - Noise Management Plan, April 2014
  - Pollution Incident Response Management Plan, June 2020

#### 1.5 Limitations of this Report

This disclaimer, together with any limitations specified in the report, applies to this report and its use.

This report was prepared in accordance with the contracted scope of services for the specific purpose stated and subject to the applicable cost, time and other constraints. In preparing this report, ERM relied on:

- a) client/third party information which was not verified by ERM except to the extent required by the scope of services, and ERM do not accept responsibility for omissions or inaccuracies in the client/third party information; and
- b) information taken at or under the particular times and conditions specified, and ERM do not accept responsibility for any subsequent changes.

This report has been prepared solely for use by, and is confidential to, the client and ERM accepts no responsibility for its use by other persons. This report is subject to copyright protection and the copyright owner reserves its rights. This report does not constitute legal or financial advice.

#### 2. AUDIT METHODOLOGY

## 2.1 Methodology and Process

The audit comprised a site inspection during the dates 10 to 12 June 2020, interviews with key personnel, and review of records and other related documentation.

The audit process included the following primary components:

- development of a Terms of Reference developed which included:
  - audit scope and objectives;
  - date and location of audit;
  - members of audit team;
  - list of people to be audited;
  - list of reference documents and audit criteria;
- a project inception meeting was held on 30 April 2020 to confirm details of the Terms of Reference, site inspection logistics and request for documentation required prior to the site inspection component of the audit;
- an opening meeting was held on 10 June 2020 at site to confirm the audit objectives and scope for the site inspection. Attendees included:
  - Robert Smith (ERM Lead Auditor);
  - Aaron Mckenzie (ERM Support Auditor);
  - Lynden Cini (Group Superintendent Environment);
  - Matt Hollis (Environmental Superintendent);
- Site inspections were undertaken between 10 to 12 June 2020;
- A debrief / closeout meeting was held at the site on 12 June 2020 to discuss initial findings and recommendations. Attendees were:
  - Robert Smith (ERM Lead Auditor);
  - Aaron Mckenzie (ERM Support Auditor);
  - Lynden Cini (Group Superintendent Environment);
  - Matt Hollis (Environmental Superintendent); and
- Preparation of the draft audit report (this report).

#### 2.2 Agency and Community Consultation

ERM consulted with the agencies and stakeholders as required including Department of Planning, Industry and Environment (DPIE) (including its various departments such as Compliance, Post approvals, Resources Regulator and Biodiversity and Conservation Division), CCC, New South Wales Environment Protection Authority (NSW EPA), as well as Liverpool Plains Shire Council. Emails were issued on 25 May 2020, with a follow up email submitted on 9 June 2020 to those that had not yet replied. Responses are outlined in *Table 2.1*.

**Table 2.1 Agency and Stakeholder Consultation Summary** 

Agency/Stakeholder	Method	Consultation summary	Response	Location Addressed in Report
Department of Planning, Industry and Environment (DPIE) – Planning & Assessment - Compliance	Email on 25 May 2020	Provision of Audit Terms of Reference, introduction to team, outline date of audit and provide opportunity to comment.	Response received on 25 May 2020 outlining no concerns or issues.	N/A
Natural Resource Access Regulator (Water)	Email on 25 May and 9 June 2020	Provision of Audit Terms of Reference, introduction to team, outline date of audit and provide opportunity to comment.	Response received on 10 June 2020 outlining the following areas of interest:  Assessment as to whether the project holds the required water entitlements and licences under the Water Management Act 2000;  Compliance with the conditions of any water licences/approvals held.  Identification of all water storages for the mine and identification of their licensing status being either exempt/excluded, subject to harvestable rights or regulated via a Water Access Licence.  Quantification of both active and passive take by the project from each relevant water source and a comparison against previous predictions.  Compliance with the management, monitoring and contingency requirements in the Water Management Plan for the site.  Assessment as to whether the project holds the required water entitlements and licences under the Water Management Act 2000;  Compliance with the conditions of any water licences/approvals held.  Identification of all water storages for the mine and identification of their licensing status being either exempt/excluded, subject to harvestable rights or regulated via a Water Access Licence.  Quantification of both active and passive take by the project from each relevant water source and a comparison against previous predictions.  Compliance with the management, monitoring and contingency requirements in the Water Management Plan for the site.	The department's request is addressed to the extent possible within the scope of the IEA.

Werris Creek Coal Mine

Agency/Stakeholder	Method	Consultation summary	Response	Location Addressed in Report
New South Wales Environment Protection Authority (NSW EPA)	Email on 25 May 2020 and 9 June 2020	Provision of Audit Terms of Reference, introduction to team, outline date of audit and provide opportunity to comment.	No response received.	N/A
Liverpool Plains Shire Council	Email on 25 May 2020	Provision of Audit Terms of Reference, introduction to team, outline date of audit and provide opportunity to comment.	Response received on 4 June 2020 outlining the following areas of interest:  Water and air quality management at the site remain an area of sustained and broader community interest.	The Council's request is addressed to the extent possible within the scope of the IEA.
Community Consultation Committee (CCC)	Email on 25 May 2020	Provision of Audit Terms of Reference, introduction to team, outline date of audit and provide opportunity to comment.	Response received on 1 June 2020 from the CCC chair outlining no concerns or issues. Any issues or concerns with the mine, raised by members of the Committee have always been quickly and comprehensively discussed at meetings.	N/A

In each case, an email was sent to representatives of each agency requesting feedback on those issues considered most relevant by their Department at the time of the audit. The consultation outlining the terms of reference was provided prior to the site inspection to obtain feedback and draw attention to any key issues, within the agreed scope of the audit. The Departmental correspondence is provided in *Appendix B*.

Responses received required the audit to focus on compliance against CoA as well as environmental monitoring relating to noise, dust and waste management practices. These areas are captured in the audit findings.

## 2.3 Classification of Audit Findings

Findings resulting from an assessment of audit evidence were divided into four categories as follows:

- **Compliant (C)**: the intent and all elements of the audit criteria requirements have been complied with within the scope of the audit.
- Non-Compliant (NC): Failure to meet the audit requirements, failure to achieve the field performance outcomes identified in documentation, or ineffective environmental management of the activity.
- **Not Triggered (NT)** A regulatory approval requirement has an activation or timing trigger that had not been met at the time of the audit inspection, and therefore a determination of compliance could not be made.
- **Note:** A statement or fact, where no assessment of compliance is required.

A qualitative risk assessment was also completed on the findings, consistent with AS/NZS 4360:2004 Risk management and HB 436:2004 Risk Management Guidelines Companion to AS/NZS 4360:2004 and as described in the DPIE publication "Independent Audit Guidelines" issued October 2015.

The overall level of risk was estimated by combining the likelihood of harm occurring with the estimated level of harm associated with each finding. Risk levels have been assigned as follows:

- High: Non-compliance with potential for significant environmental consequences, regardless of the likelihood of occurrence;
- Medium: Non-compliance with:
  - potential for serious environmental consequences, but is unlikely to occur; or
  - potential for moderate environmental consequences, but is likely to occur;
- Low: Non-compliance with:
  - potential for moderate environmental consequences, but is unlikely to occur; or
  - potential for low environmental consequences, but is likely to occur.

Where a finding has been considered administrative in nature (i.e. a technical non-compliance which relates to documentation rather than being related to a specific operational risk) we have described this in the comments field of the report.

## 3. AUDIT FINDINGS

## 3.1 Previous Audit Follow Up

The last audit was conducted by SLR for the period 1 July 2014 to 30 June 2017. A summary of the 2017 audit findings and their status is summarised below in *Table 3.1*.

Werris Creek Coal Mine

**Table 3.1 Summary of 2017 Audit Findings** 

Item No	Assessment Requirement	Comment	2017 Audit Classification	WCC Response/Action	2020 Status
Project Ap	proval – PA 10_0059				
Sch.2, C12	Operation of Plant and Equipment  The Proponent shall ensure that all the plant and equipment used on site, or to transport coal from the site, is:  (a) Maintained in a proper and efficient condition; and  (b) Operated in a proper and efficient manner.	Findings from Inspection and Review of Records:  Requested maintenance records were sighted at WCC. Including blasting services, water pumps and level sensors. Based on the inspection and review of records plant and equipment on site generally operated in a competent manner.  Findings from EPA:  The EPA noted that the licensee was not maintaining two sedimentation dams at the site in a proper and efficient condition, and the licensee's maintenance system was found to be not effective in ensuring maintenance issues are addressed.  The works associated with upgrading SB18 was shown to SLR during the field inspection. There is still some additional works required for SB17.	Non- Compliant (Low Risk)	Additional maintenance works are required for SB17, with WCC committing to this by 30 September 2017.	Deemed as <b>Compliant</b> during this audit.
Sch.3, C4	Operating Conditions	<ul> <li>(a) Reviewed Noise Management Plan. Evidence of decreased noise complaints over the audit period over successive Annual Review periods.</li> <li>(b) Noise Control Operators (NCOs) in operation during night-time period, evidence of revised operations during night-time period when noise issues identified.</li> <li>c) See section 8.5 &amp; 10.1 of Noise Management Plan.</li> <li>(d) Evidence of best practice through monitoring, NCO's and implementation of changes to operations based on NCO's monitoring and measurements. However, there is no evidence of reporting the progress towards the achievement of the long term noise goals in the annual review. No trending information is provided to show the long term noise levels of the project. Only exceedances of the approved are reported.</li> <li>(e) This audit. Separate Noise Report has been prepared as part of this audit.</li> <li>OCE Shift change diary detailing noise levels, shut downs etc.</li> </ul>	Administrative non-compliance	(d) it is recommended that the future Annual Reviews should present trended noise data to show how WCC is progressing towards the long term noise goal of 35 dBA. The current versions only state where noise criteria have been exceeded. It should be noted that the 2016 Annual Review was amended to reflect some commentary on historical trends in relation to the long term goal of 35 dBA. Inclusions reviewed and approved by DPE.	Deemed as Compliant during this audit.

Werris Creek Coal Mine

Item No	Assessment Requirement	Comment	2017 Audit Classification	WCC Response/Action	2020 Status
ch.3, C	Water Management Plan	Plan Preparation:	Non-	Outcomes from the multi-agency audit to be implemented as	Deemed as <b>Compliant</b> during this audit.
23	(b) a Surface Water Management Plan, that includes:	Baseline - Section 4     Section 8.1 and 8.2 outline water	Compliant (Low Risk)	per Action Plans previously submitted to the relevant Departments.	
	<ul> <li>detailed baseline data of the surface water flows and quality in the waterbodies that could be affected by the project;</li> </ul>	<ul> <li>management system.</li> <li>Storage of water - Section 8.2, including details about void water storage dams.</li> <li>Water objectives and criteria - Section 7.</li> </ul>		Additional details relating to water monitoring trends included within the updated and approved Annual Review 2016. Completed.	
	• a detailed description of the water management system on site, including the:	<ul> <li>Water objectives and criteria - Section 7.</li> <li>Drainage management in rehabilitation outlined in Section 8.3.4.</li> </ul>		·	
	- clean water diversion systems;	Monitoring outlined in Section 9.			
	- erosion and sediment controls; and	Contingency Plan - Section 14.  Implementation:  At the Training Load Out (TLO) there was one culvert (part of dirty water management system) that was blocked. During heavy rainfall this may cause disruptions at site as water may not be able to reach the main sediment dam at the TLO. Based on evidence provided from WCC this has since been cleaned out, with no further			
	- water storages;				
	a plan for identifying, extracting, handling, and the long-term storage of potentially acid forming				
	material on site;				
	detailed plans, including design objectives and performance criteria, for:				
	- design and management of the final void;	recommendation required post audit. There were 2 government audits during the IEA			
	- reinstatement of drainage lines on the rehabilitated areas of the site; and	audit period (EPA audit and multi-agency audit). The key aspects of these audits are outlined within Section 5 of the main report. Some of these non - compliances related to implementing this management plan, including:  • At time of inspection dam heights above designed capacity;  • Lack of implementing a pre-start checklist;  • Lack of calculations for sediment dams			
	- control of any potential water pollution from the rehabilitated areas of the site;				
	- a program to monitor the effectiveness of the water management system;				
	a plan to respond to any exceedances of the performance criteria, and mitigate and/or offset				
	any adverse surface water impacts of the project;	<ul> <li>within the Water Management Plan; and</li> <li>Sediment dams not fully compliant with the Blue Book designs.</li> </ul>			

Werris Creek Coal Mine

Item No	Assessment Requirement	Comment	2017 Audit Classification	WCC Response/Action	2020 Status
Sch.3, C43	43. The Proponent shall prepare and implement a Rehabilitation Management Plan for the project to the satisfaction of DRE. This plan must:  (a) be prepared in consultation with the Department,	For the next MOP update, send the key sections of the MOP document to these agencies for review/comment.	Administrative non- compliance	Noted.	Deemed as <b>Compliant</b> during this audit.
	DPI Water, OEH, Council and the CCC;				
	(b) be submitted to DRE by the end of April 2012				
	(c) be prepared in accordance with any relevant DRE guideline;				
	(d) describe how the rehabilitation of the site would be integrated with the implementation of the biodiversity offset strategy;				
	(e) include detailed performance and completion criteria for evaluating the performance of the rehabilitation of the site, and triggering remedial action (if necessary);				
	(f) describe the measures that would be implemented to ensure compliance with the conditions of this approval, and address all aspect of rehabilitation including mine closure, final landform, and final land use;				
	(g) include a program to monitor and report on the effectiveness of the measures, and progress against the detailed performance and completion criteria; and				
	(h) build to the maximum extent practicable on the other management plans required under this approval.				
Sch.5, C3	Annual Review  By the end of March each year, the Proponent shall review the environmental performance of the project to the satisfaction of the Secretary. This review must:  (a) describe the development (including any rehabilitation) that was carried out in the past year, and the development that is proposed to be carried out over the next year;  (b) include a comprehensive review of the monitoring results and complaints records of the project over the past year, which includes a comparison of these results against the:  • relevant statutory requirements, limits or performance measures/criteria; • monitoring results of previous years; and • relevant predictions in the EA;  (c) identify any non - compliance over the past year, and describe what actions were (or are being) taken to ensure compliance;  (d) identify any trends in the monitoring data over the life of the project;  (e) identify any discrepancies between the predicted and actual impacts of the project, and analyze the potential cause of any significant discrepancies; and  (f) describe what measures will be implemented over the next year to improve the environmental performance of the project.	The 2016, 2015-16 and 2014 - 15 Annual Reviews have been reviewed for this audit.  a) Outlined in Annual Reviews. Including Section 4 and 8 of 2016 Annual Review. b) Monitoring results have been reviewed for key aspects and is outlined within Section 6 of the 2016 Annual Review. c) Section 1 of Annual Review outlines the Statement of Compliance. d) NC. Annual Reviews from 2014-15 under the previous guidelines had trends for water and air. The most recent Annual Reviews from 2015 and 2016 have minimal information relating to trends or how the site performed against previous years. e) There is little information relating performance against predictions (EA predictions). f) Proposed improvements are outlined in Annual Reviews. There is minimal information relating to trends in the Annual Reviews. Additional information relating to trends should be outlined in the Annual Review. This may include aspects such as water, noise and air. Comparison of monitoring results against EA predictions. Additional information relating to groundwater quality.	Administrative non-compliance	The Werris Creek Coal Annual Review 2016 has been updated to reflect these recommendations and subsequently approved. Completed.	Deemed as Compliant during this audit

Werris Creek Coal Mine

Item No	Assessment Requirement	Comment	2017 Audit Classification	WCC Response/Action	2020 Status
Sch.5, C4	Revision of Strategies, Plans and Programs Within 3 months of:  (a) the submission of an annual review under condition 3 above; (b) the submission of an incident report under condition 6 below; (c) the submission of an audit under condition 8 below; or (d) any modification to the conditions of this approval (unless the conditions require otherwise), the Proponent shall review, and if necessary revise, the strategies, plans, and programs required under this approval to the satisfaction of the Secretary. Where this review leads to revisions of any plan then within four weeks of the review the revised document must be submitted to the Secretary and any other relevant agencies for approval. 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.	Plans have not been reviewed and revised as required annually. There are a series of plans currently sitting with DPE. Some plans were also not updated within three months of the 2014 independent environmental audit.  Continue to liaise with DPE to discuss the status of the revised management plans. Undertake management plan 'review' as per the required condition.  In the Annual Review state whether management plans need to be revised and reasons for revisions. Resubmission of management plans to DPE.	Administrative non-compliance	Noted. Included in the Annual Review 2016. Completed.	Deemed as Compliant during this audit.
Environme	nt Protection Licence – EPL 12290				
O1.1	Activities must be carried out in a competent manner 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.	Water Management: Water levels in all Void Water Dams were low at the site of the audit by SLR. However the multi agency audit noted that there the site had not been 'minimising water levels in the wastewater holding dams to prevent uncontrolled discharge'. Since the EPA and multi agency audit the site has completed several updates including:  • Bathometric survey - completed May 2017; • Review of Void Water Dams volume spreadsheet; and • Further development of strategy for alternative water use/augmented storage arrangements.  Continue to implement agreed actions relating to water management.	Non- Compliant (Low Risk)	Noted	Deemed as Compliant during this audit.
O2.1	Maintenance of plant and equipment 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.	Findings from Inspection and Review of Records:  Requested maintenance records were sighted at WCC. Including blasting services, water pumps and level sensors. Plant and equipment on site generally operated in a competent manner.  Findings from EPA:  The EPA noted that 'the licensee was not maintaining two sedimentation dams at the site in a proper and efficient condition, and the licensee's maintenance system was found to be not effective in ensuring maintenance issues are addressed'.  The works associated with upgrading SB18 was shown to SLR during the field inspection. There is still some additional works required for SB17.	Non- Compliant (Low Risk)	Completed	Deemed as Compliant during this audit.

Werris Creek Coal Mine

Item No	Assessment Requirement	Comment	2017 Audit Classification	WCC Response/Action	2020 Status
		Additional maintenance works are required for SB17, with WCC committing to this by 30 September 2017.			
O5.2	Offensive blast fume must not be emitted from the premises. Definition: Offensive blast fume means post-blast gases (whether visible or invisible, odorous or odourless) from the detonation of explosives at the premises that by reason of their nature, duration, character or quality, or the time at which they are emitted, or any other circumstances:  (i) are harmful to (or is likely to be harmful to) a person that is outside the premises from which it is emitted, or  (ii) interferes unreasonably with (or is likely to interfere unreasonably with) the comfort or repose of a person who is outside the premises from which it is emitted.	Blast fume management is required in blast design at the site.  There was one blast related non-compliance (Condition 4 – O1.1 of EPL 12290) during the period on the 2nd July 2014 generating fume that travelled off the mine site but did not result in any offsite impacts. WCC fired a production blast #45 on Wednesday 2nd July 2014 at 1:05pm (S15_B12-B16_330_EXT) with the fume cloud generated travelling north-north west above the ground surface, across Escott Road (a closed, private road owned by WCC) and off the Mine site at 1:25pm, at a height of approximately 50m above the ground surface. The blast fume cloud dispersed at 1:41pm over the "Cintra" property owned by WCC. WCC was not able to establish whether there was a definitive cause, however the "Incident Investigation Report into the Blast Related Fume Incident" prepared by Safety Wise Solutions Pty Ltd (the Investigation Report) identified some contributing factors.	Non- Compliant (Low Risk)	No further action.	Deemed as compliant during this audit.
O5.3	Pollution Incident Response Management Plan The licensee must maintain, and implement as necessary, a current Pollution Incident Response Management Plan (PIRMP) for the premises. The PIRMP must document systems and procedures to deal with all types of incidents (e.g. spills, explosions, fire) that may occur at the premises or that may be associated with activities that occur at the premises and which are likely to cause harm to the environment.	Since this was noted during the audit the PIRMP (internal and website versions) were updated by WCC. No further recommendations.	Administrative non-compliance	No further action.	Deemed as <b>Complaint</b> during this audit
M2.2	Air Monitoring Requirements  Point 28, 29, 30  Pollutant Units of measure Frequency Sampling Method PM10 micrograms per cubic metre Every 6 days AM-18 Solid Particles grams per square metre per Continuous AM-19	M2.2 requires monitoring of PM10 concentrations every 6 days at "R98" ("Kyooma"). Due to a power loss, this monitoring was not undertaken on the 28th July, 3rd and 9th of August 2015 - outlined in the 2015-16 EPL Annual Return.  TEOM suffered a series of faults in March 2015.	Non- Compliant (Low Risk)	No further action.	Deemed as <b>Complaint</b> during this audit
M3.2	Testing Methods 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.	The EPA audit found there to be a potential discrepancy relating to monitoring as per the Approved Methods Publication for analysing water samples. The EPA and WCC are still liaising regarding this finding.  Continue to liaise with the EPA regarding this aspect and implement any actions if required.	Non- Compliant (Low Risk)	Noted.	Deemed as <b>Complaint</b> during this audit

Werris Creek Coal Mine

Item No	Assessment Requirement	Comment	2017 Audit Classification	WCC Response/Action	2020 Status
M8.1	Blasting POINTS: Within 30 metres of the residences at the locations marked as "R98" ("Kyooma"), "R11" ("Glenara") and "R62" (43 Kurrara Street, Werris Creek) on Appendix 3 of Project Approval 10_0059 and within 30 metres of the location marked as "R92" in Figure 4A.5 of Environmental Assessment for Werris Creek Coal Mine, Life of Mine Project, dated December 2010 and prepared by R.W. Corkery and Co. Pty Limited.    Parameter   Units of Measure   Frequency   Sampling Method	On 3/3/ 2016 - Glenara blast monitor did not record blast vibration and air overpressure. 2015-16 Annual Review stated: Loss of communications due to changes in mobile network in local area and subsequent corruption of memory card. WCC have stated that a review of other blast monitors and past performance suggests it is highly unlikely criteria would have been exceeded. Blast monitor upgraded with 4metre directional antenna and key electronics replaced.  No further recommendations.	Non- Compliant (Low Risk)	No further action.	Deemed as <b>Complaint</b> during this audit
E1.1	E1 Three Yearly Independent Noise Audit E1.1 The licensee must provide the EPA with a copy of any Noise Audit and Independent Environmental Audit Report required by condition 4 of Schedule 3 and conditions 8 and 9 of Schedule 5 of the Werris Creek Mine Extension Project Approval (No. 10_0059). If the Noise Audit and Independent Environmental Audit Report do not incorporate the following information or assessments, then the licensee must also provide a separate report to the EPA that incorporates the following:  (a) The reports required by this condition must be submitted to the EPA's Armidale office within 6 weeks of the 30 June 2014, and every three years thereafter.	This was completed in 2014 and 2017. 2014 met this requirement. 2017 report prepared to meet these requirements.  However no evidence has been able to be provided of submission of the Three Yearly Noise Audit within 6 weeks of 30 June 2014.  Liaison with the EPA regarding the future submissions of the Three Yearly Noise Audit.	Administrative non- compliance	Noted.	Deemed as Complaint during this audit
EA Statem	ent of Commitments				
3.1	Surface Water  Construct and maintain surface water management infrastructure of the Mine in accordance with an approved Site Water Management Plan.	During the site inspection, void water dams were well below freeboard and there only minor aspects noted by the SLR audit team. SLR were provided evidence through photos on 13 July 2017 outlining this culvert had been cleaned out.  The audits from the EPA and multi agency audit noted some mitigation measures from the Water Management Plan were not fully implemented. It should be noted that the Water Management Plan has been updated and approved since the findings of the multi-agency audit.  Continue to implement agreed actions from the EPA and multi agency audit relating to water management.	Non- Compliant (Low Risk)	Noted.	Deemed as Complaint during this audit
3.2	Surface Water  Operate void water dams with sufficient freeboard to prevent discharge during high rainfall events.	During the site inspection by SLR, void water dams were well below freeboard. However the audits from the EPA and multi agency audit noted some mitigation measures from the <i>Water Management Plan</i> were not fully implemented. Continue to implement agreed actions from the EPA and multi agency audit relating to water management.	Non- Compliant (Low Risk)	Noted.	Deemed as <b>Complaint</b> during this audit

Mining Leases ML1671, ML1672, ML1563

Nil – no non-compliances

Water Access Licences – WAL 29506 and WAL 32224

Nil – no non-compliances

## 3.2 Complaints Summary

Complaints registers for the auditing period were available online and/or for review. Complaints over the reporting period include:

- A total of 13 complaints were recorded during 2017 during the period 1 July 30 December. Of these five related to blast, three related to odour, two related to odour/dust, two related to noise and one related to blast/dust.
- A total of 35 complaints were recorded during 2018. Of these 20 related to blast, seven related to odour, six related to dust, one related to vibration and one related to water.
- A total of 17 complaints were recorded during 2019. Of these 12 related to blast, three related to dust one related to odour and one related to vibration.
- A total of three complaints were recorded during 2020 up until 12 June 2020. Of these two were related to vibration and one in relation to lighting.

During the audit, ERM tested the complaints telephone number published on the Werris Creek Mine Whitehaven Coal website. The complaints number was not functional. It is noted that the complaints telephone number at the entrance to the mine was correct. ERM recommends WCC update the website complaints line number to reflect the correct phone number.

The detailed summaries as prepared by WCC are provided on the Whitehaven Coal website.

## 3.3 Incident Summary

A review of the incidents was undertaken through a review the WCC incident management system, as well as the notified exceedances. During the audit period incidents recorded were limited to the following:

- A low pH exceedance at dam EP14 occurred during a 'Special Frequency' event when rainfall exceeded 39.2mm. The exceedance was reported to the EPA as required. Investigation of this event did not identify a source and no subsequent monitoring has identified similar results. No further action was requested by the EPA; and
- An exceedance occurred from a blast undertaken on 4<sup>th</sup> May 2018, recording an overpressure greater than 120 dBL at two monitoring locations: 120.4dBL at Glenara (R11) and 120.2dBL at Kyooma (R98). WCC undertook an investigation into the incident, with appropriate notifications to the EPA and DPIE. Upon completion of the investigation, control measures were implemented to prevent or mitigate against a similar exceedance in the future.

#### 3.4 Environmental Monitoring Performance

#### 3.4.1 Noise

Monthly acoustic monitoring was undertaken in 2017 to 2019 by qualified third party contractors, this included Global Acoustics and Spectrum Acoustics.

During the audit period, there were no reported exceedances of the noise criteria for both the EPL noise limit and the long term noise goals

Attended noise monitoring was undertaken at locations labelled "R24 Hazeldene", "R12 Quipolly Railway Cottage", "R96 Talavera", "R98 Kyooma" and "R57 33 Kurrara St, Werris Ck".

EPL Monitoring reports for 2017 and 2018 are missing data for location R57 for the following months; June to December 2017, January and March 2018. Sighted acoustic reports prepared by Global Acoustics in this period indicated results for R57 were in compliance with the criteria, however the location monitoring results were missed in the EPL monitoring reports for 2017 and 2018.

Werris Creek Coal Mine

Monthly operator attended noise monitoring results have demonstrated that the noise management and mitigation strategies employed by WCC are effective in managing noise impacts from the site.

## 3.4.2 Air quality

Monthly Air Quality Monitoring was undertaken by WCC, sampling PM10 and Solid Particles. There were exceedances of the criteria during the reported audit period.

The following exceedances of assessment criteria were recorded during the reported audit period:

- 23<sup>rd</sup> June 2017: R11(Glenara) HVAS PM10 concentration of 52.4 μg/m<sup>3</sup>;
- 27<sup>th</sup> September 2017: R11(Glenara) HVAS PM10 concentration of 67.6 μg/m<sup>3</sup>;
- 18th February 2018 R11(Glenara) PM10 concentrations of 53.6 μg/m<sup>3</sup>; and
- 15<sup>th</sup> December 2018 at HVP1 (Escott) PM10 concentrations of 67.1 µg/m³.

A notification regarding the elevated results in 2017 was provided to the DPIE following receipt of the monitoring results via email on 14<sup>th</sup> July 2017 and 13<sup>th</sup> November 2017 respectively. Subsequent investigations demonstrated that WCC was not the cause of the elevated PM10 levels on both occasions, with WCC operations identified downwind of the monitor and therefore the elevated results were not non-compliances.

Subsequent investigations demonstrated that WCC was not the cause of the elevated PM10 levels in 2018 on both occasions. On the 18<sup>th</sup> February 2018, WCC operations were downwind of the monitor at the time of the exceedance with field notes from the day of sampling noting farming activity (ploughing) in the vicinity of the monitor. On the 15<sup>th</sup> December 2018 widespread high regional dust alerts were in place and WCC operations were downwind of the monitor at the time of monitoring.

The following exceedances of long term criteria was recorded during the reported audit period:

- 2017: DG22 (Mountain View) Dust Deposition maximum concentration of 8.8 μg/m³;
- 2017: DG34 (8 Kurrara Street) Dust Deposition multiple exceedances with maximum concentration of 19.5 μg/m<sup>3</sup>;
- 2018 Dust Deposition exceedance of the long-term criteria in DG2 (Cintra), which was above
  the annual average criteria for the 2018 reporting period. Located directly north of WCC
  operations, DG2 is located on a project related property; and
- An investigation of the results at dust gauge site DG34 (8 Kurrara street) and DG9 (Marengo) with elevated measurements during the reporting period showed elevated results and low deposited dust levels at nearby gauges, indicating a localised source of dust generation or contamination at both sites, unrelated to activities at WCC.

Exceedances in 2017 showed consistently high results and low deposited dust levels at nearby gauges indicating a localised source of dust generation or contamination, unrelated to activities at WCC.

The following exceedances of 24h average criteria was recorded during the reported audit period:

2018: TEOM - 7 PM10 concentrations exceedances: 15<sup>th</sup> April, 4<sup>th</sup> August, 1<sup>st</sup> September, 22<sup>nd</sup> November, 23<sup>rd</sup> November, 14<sup>th</sup> December, 15<sup>th</sup> December.

Widespread high regional dust alerts were received on all the abovementioned dates, advising elevated PM10 levels were present in the area and operations were located downwind of the TEOM location during monitoring.

Complaints registers for the auditing period were available online and/or for review. Odour complaints over the reporting period include:

The Site has received 15 odour related complaints during the audit period, primarily relating to a 'burning' smell attributed to spontaneous combustion odours. The mine has implemented procedures to minimise emissions of odour from spontaneous combustion through the use of water curtains or sprinklers to suppress hot areas; and uncovering and mining the higher risk workings quickly and soaking any hot coal immediately. It is noted that the higher risk of spontaneous combustion areas of the mine (the former underground workings) have now been mined, reducing the future odour emission risk profile of the mine.

## 3.4.3 Blasting

Blast monitoring occurred during all blast events with one recorded exceedance events reported to the Department during the audit period. Exceedance occurred from a blast undertaken on 4<sup>th</sup> May 2018, recording an overpressure greater than 120 dBL at two monitoring locations: 120.4dBL at Glenara (R11) and 120.2dBL at Kyooma (R98).

## 3.5 Water Management

#### 3.5.1.1 Surface water

Surface water management comprising a series of water storage dams used to collect, store and dispose of pumped out mine water and dirty water run-off, sediment basins, and clean / dirty surface water drains were in place and established as per the Water Management Plan (dated 2016). The dams are subject to weekly, monthly and quarterly inspections by a trained WCC employee. Annual and 5 – yearly inspections are undertaken by a Dam Engineer in accordance with the Dams Safety Act.

Licenced surface water discharge points onsite included sediment basin 2 (SB2 – EPL10), sediment basin 9 (SB9 – EPL12), sediment basin 10 (SB10 – EPL14), sediment basin 18 (SB18-EPL32).

Void Water is managed via 6 Void water dams with water recirculated on site for reuse as dust suppression. Excess void water is irrigated to the Plainview irrigation area to the south of the project via void water dam 1.

No significant issues were observed or identified with regards to erosion or sediment run off during the site inspection.

#### 3.6 Groundwater

Groundwater monitoring locations are stipulated within Table 7.4 of the approved WMP (dated November 2017). Under the WMP, depending on their location, piezometers and groundwater bores are required to be monitored on a monthly, quarterly, or annual basis. Groundwater monitoring data provided showed that monitoring is typically completed within the WMP timeframes.

#### 3.7 Management Plan Adequacy

The Management Plans for the site were reviewed and the adequacy in meeting the relevant approval requirements was assessed in view of current operations at the site. The Water Management Plan, Air Quality Greenhouse Gas Management Plan, Biodiversity and Offset Management Plan, Heritage Management Plan, Noise Management Plan have been revised and submitted to the Secretary at various times between 2014 and 2019. No management plans are currently under Department review.

In general, Management Plans were considered to be appropriate for the site's operations at the time of the site visit. The findings of the Management Plan review are outlined in *Table 3.2* and *Appendix A*.

#### 3.8 Environmental Protection Licence

The site operates under Environment Protection Licence (EPL) 12789 issued to Werris Creek Coal Operations Pty Ltd. The EPL has been varied two times during the audit period as follows:

21 March 2018; and

16 January 2020.

The site submitted Annual Returns to the EPA, as required for the audit period. The following non-compliances were noted:

#### 2017:

- O1.1 b) Finding from an EPA compliance audit undertaken on the 26 and 27 October 2016. The
  audit identified that WCC had not been minimising water levels in the void water dams (VWDs) to
  prevent uncontrolled discharges to surface waters;
- L4 Monthly attended noise monitoring undertaken for Werris Creek Coal (WCC) on Tuesday
   27th September 2016 identified a 1dB(A) noise exceedance at the Kyooma property (R98);
- O4.3 WCC PIRMP test exceeded the 12 month time period between test scenarios; and
- O2.1 a) Finding from an EPA compliance audit undertaken on the 26 and 27 October 2016. The audit identified that two sediment dams were not maintained in a proper and efficient manner.

#### 2018:

- M3.2 Methods used for analysing the concentration of pollutants discharged to a utilisation area were not all in accordance with the Approved Methods Publication and had not been approved in writing by the EPA before tests were conducted; and
- L4.1 Noise monitoring at R98 measured operational noise levels of 37 dB(A) Leq, (criteria for R98 is 38 dB(A)Leq). A low frequency penalty adjustment of 5dB(A)Leq was applied using the Industrial Noise Policy methodology, levels were 42 dB(A) Leq.

#### 2019:

- L5.1 Blast overpressure record of greater than 120 dBL at monitoring locations Glenara and Kyooma. (RL 11 Glenara – 120.4dBL and RL 98 Kyooma – 120.2dBL); and
- M3.2 Methods used for analysing the concentration of pollutants discharged to a utilisation area were not all in accordance with the Approved Methods Publication and had not been approved in writing by the EPA before tests were conducted.

The 2018 Annual Return was submitted on 31 May 2018. The due date for the submission is 30 May 2018. The late submission of an Annual Return in 2018 related to a misunderstanding at Site level regarding the submission date. Management reported that they have historically worked to an 'end of May' deadline, when the statutory submission date is on 30th May each year. Management report they have updated the Environmental Team and updated reporting calendars accordingly.

DPIE Ministers' Conditions of Approval (CoA) Project Approval number PA 10\_0059 Modification 2, requires completion of an independent audit by the end of June 2014, and every 3 years thereafter. The 2017 IEA report and RAR were due for submission on 31 August 2017 but were submitted on 29 September 2017. WCC were aware of the delay and obtained a letter approving a requested extension of the deadline to 31 August 2017.

Findings identified against the site's EPL are outlined in Table 3.2 and Appendix A.

## 3.9 Mining Lease

Werris Creek Coal Mine lies within the mining lease (ML) 1671 and ML 1672 issued to Werris Creek Coal Pty Ltd and ML 1563 issued to Creek Resources Pty Ltd and Betalpha Pty Ltd. The Mining Lease conditions and the summary of audit findings are provided in *Table 3.2* and *Appendix A*.

#### 3.10 Water Access Licences

Water Access Licence (WAL) 29506 and 32224 were reviewed as part of this audit. WCC were compliant with the conditions of the water access licences. A review of performance against the water access licences are outlined in the table below:

Access Licence	Access Licence Annual Allocation (ML)	Total Take 2017	Total Take 2018	Total Take 2019
WAL 32224	211	68.2	55	53
WAL 29506	50	0	0	0

## 3.11 Compliance with Regulatory Instruments

A compliance check of the CoA, EPL and ML conditions as well as management plan review has been completed and is provided in Appendix A. Non-compliances and observations for each component are summarised in *Table 3.2.* 

As discussed in Section 2.3, a qualitative risk assessment was also completed on the findings as follows:

- non-compliance assessed as 'high' have been colour coded red;
- non-compliance assessed as 'moderate' have been colour coded orange; and
- non-compliance assessed as 'low' have been colour coded yellow.

Werris Creek Coal Mine

## **Table 3.2 Summary of 2020 Audit Findings**

Item No	Assessment Requirement	Comment	Audit Classification	Response/Action
Minister's	s Conditions of Approval PA 10_0059 MODIFICATION 2			
Sch 3 (8)	The Proponent shall not carry out more than:  (a) 1 blast a day on site, unless an additional blast is required following a blast misfire; and  (b) 15 blasts a month on site.  This condition does not apply to blasts that generate ground vibration of 0.5 mm/s or less at any residence on privately-owned land, or blasts required to ensure the safety of the mine or its workers.  Note: For the purposes of this condition, a blast refers to a single blast event, which may involve a number of individual blasts fired in quick succession in a discrete area of the mine.	There were 365 blasts undertaken during the reported audit period. The blasting frequency was of approximately 10 blasts per month.  September 2018 had 17 blasts, two blasts over the criteria limits. Blast were divided along four receptors: R11, R98, R62 and R92.  Maximum values were above of the Blast Vibration criteria for the receptors R98 (0.93 mm/s), R62 (0.68 mm/s) and R92 (0.54 mm/s).  Average values were only slightly above the criteria for the receptor R98 (0.51 mm/s).  There were only 5 blast events that exceeded 0.5 mm/s during September 2018. Therefore condition is considered compliant.	C (Obs)	Consider implementing an alert mechanism to identify potential blast exceedances.
Sch 3 (14)	The Proponent shall ensure that no offensive odours, as defined under the POEO Act, are emitted from the site.	The Site has received 15 odour related complaints during the audit period, primarily relating to a 'burning' smell attributed to spontaneous combustion odours:  June 2017 to June 2018 – 10 complaints;  June 2018 to June 2019 – 5 complaints; and  June 2019 to June 2020 – No complaints.	NC	Although the Site did receive odour related complaints, indicating offensive odour was emitted from Site, the site has robust odour management process to mitigate odours from spontaneous combustion.  No actions required.
Statemer	nt of Commitments			
14.2	Complete and distribute regular newsletters regarding project progress and operations.	A Water Management information flyer was made publically available during the audit period (2017) and is available for any community member who raises any water related concerns. The Site regularly communicates with the community through the CCC and Annual Reporting. It is noted that the only significant change to operations which has occurred during the audit period relates to water management.	C (Obs)	It is ERM's opinion that publication of a 'regular newsletter' would duplicate effort already achieved during CCC meetings and Annual Reporting. No action deemed required.
Environn	nent Protection Licence (EPL) 12290			
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.	An uncontrolled discharge occurred from dam EPA14 commenced on 9 February 2020. The discharge event was 'Special Frequency' as rainfall exceeded 39.2mm, therefore the discharge itself was not a noncompliance. However, a low pH exceedance at EP14 occurred during this discharge event which was reported to the EPA and included in annual returns as required. Investigation of this event did not identify a source of the exceedance and no subsequent monitoring has identified similar results.	NC	Investigation indicates that the exceedance appears to be anomalous. No further action required.  Continue to monitor water quality during discharge events.
L2.2	Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.	One exceedance reported low pH 5.5 for discharge point EPL14 uncontrolled discharge, sampled on 18th February 2020.	NC (duplicate)	As above

Werris Creek Coal Mine

Item No	Assessment Requirement	Comment	Audit Classification	Response/Action
L7.1	No condition in this licence identifies a potentially offensive odour for the purposes of section 129 of the Protection of the Environment Operations Act 1997.  Note: Section 129 of the Protection of the Environment Operations Act 1997 provides that the licensee must not cause or permit the emission of any Offensive odour from the premises but provides a defence if the emission is identified in the relevant environment protection licence as a potentially offensive odour and the odour was emitted in accordance with the conditions of a licence directed at minimising odour.	The Site has received 15 odour related complaints during the audit period, primarily relating to a 'burning' smell attributed to spontaneous combustion odours:  June 2017 to June 2018 – 10 complaints;  June 2018 to June 2019 – 5 complaints; and  June 2019 to June 2020 – No complaints.  The mine has implemented procedures to minimise emissions of odour from spontaneous combustion through the use of water curtains or sprinklers to suppress hot areas; and uncovering and mining the higher risk workings quickly and soaking any hot coal immediately.  Workers utilise personal gas monitors at the boundary of the site in the direction of complaints when they occur to identify whether detectable hydrogen sulphide is present. ERM sighted photographs of multi-gas monitoring units on days when spontaneous combustions complaints had been received. No elevated gas readings were detected at the boundary.  It is noted that the higher risk of spontaneous combustion areas of the mine (the former underground workings) have now been mined, reducing the future odour emission risk profile of the mine.	NC	No actions required.  The site has robust odour management process to mitigate odours from spontaneous combustion.
O5.3	Pollution Incident Response Management Plan  The licensee must maintain, and implement as necessary, a current Pollution Incident Response Management Plan (PIRMP) for the premises. The PIRMP must document systems and procedures to deal with all types of incidents (e.g. spills, explosions, fire) that may occur at the premises or that may be associated with activities that occur at the premises and which are likely to cause harm to the environment.	The scope and content of the PIRMP complies with the requirements of this condition. It was observed that the previous Operations Manager's contact details were in the PIRMP (the change in roles has only occurred within the last few months).	C (Obs)	The operations manager's contact details should be updated in the PIRMP and amended copies issued where relevant.
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.	ERM tested the complaints number published on the Werris Creek Mine Whitehaven Coal website. The complaints number was not functional. It is noted that the complaints number on the sign at the entrance to the mine was correct.	NC	Update the website complaints line number to reflect the correct phone number.
R1.5	The Annual Return for the reporting period must be supplied to the EPA via eConnect EPA or 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').	The submission times for Annual Returns are summarised below:  • 2020 – on 29 <sup>th</sup> May 2020 (due date 30 <sup>th</sup> May 2020);  • 2019 – on 30 <sup>th</sup> May 2019 (due date 30 <sup>th</sup> May 2019); and  • 2018 – on 31 <sup>st</sup> May 2018 (due date 30 <sup>th</sup> May 2018).  The late submission of an Annual Return in 2018 related to a misunderstanding at executive level with regard to electronic signoff by Executive general Manager Management reported that they have historically worked to an 'end of May' deadline, when the statutory submission date is on 30 <sup>th</sup> May each year.	NC	Communicate with Environmental Team at Whitehaven confirming Annual Return submission date is 30 <sup>th</sup> May each year. Update calendars accordingly.
R4.1	A noise compliance assessment report must be submitted to the EPA within 30 days of the completion of the monthly monitoring. The assessment must be prepared by a suitably qualified and experienced acoustical consultant and include:  a) an assessment of compliance with noise limits presented in the Noise Limits table; and b) an outline of any management actions taken within the monitoring period to address any exceedences of the limits contained in the Noise Limits table.	Consultants are taking more than 30 days to create report.	NC	WCC should review noise monitoring supplier contract to require reporting completed within 30 days.

#### 4. CONCLUSION

An audit of CoA, Mining Lease and Environmental Protection Licence conditions has been completed as well as a check against commitments made in the management plans developed as part of CoA conditions for the site.

Overall, compliance was generally achieved with the audit documents that were reviewed. The number of non-compliances with the statutory conditions and implementation of the management plans is summarised in *Table 4.1* below.

**Table 4.1 Summary of Audit Findings** 

Review	Non-compliances (NC)	Observation (NC Obs)	Observations (C Obs)
Statutory Instruments	7	-	4
Implementation of Plans	-	-	-

Two of the non-compliances are administrative in nature. An action response table has been developed by Whitehaven Coal addressing all audit findings and will be submitted separately to this report.

Werris Creek Coal Mine	
APPENDIX A	CONDITIONS OF APPROVAL, ENVIRONMENTAL PROTECTION LICENCE AND MINING LEASE COMPLIANCE TABLES

APPENDIX A1 – PROJECT APPROVAL Compliance with Project Approval 10\_0059

Document details	
Document title	Appendix A1 – Project Approval
Document subtitle	Compliance with Project Approval 10_0059
Project No.	0552611
Date	22 July 2020
Version	1.0
Author	Robert Smith, Aaron McKenzie
Client Name	Whitehaven Coal

Client: Whitehaven Coal www.erm.com Version: 1.0 Project No.: 0552611 22 July 2020

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations	
SCHEDULE 2 – ADMINISTRATIVE CONDITIONS						
OBLIGAT	TION TO MINIMISE HARM TO THE ENVIRONMENT					
1.	The Proponent shall implement all reasonable and feasible measures to prevent and/or minimise any material harm to the environment that may result from the construction, operation or rehabilitation of the project.	Werris Creek Coal Mine, Mining Operations Plan, December 2015 Various management plans associated with water; biodiversity; greenhouse gasses; air quality; noise; blasting; vegetation; heritage etc. and observations made during the site visit	ERM's assessment of the Site's operations indicates that the Proponent has implemented all reasonable and feasible measures to prevent and/or minimise any material harm to the environment that may result from the construction, operation or rehabilitation of the project.	С		
Terms of	f Approval					
2.	The Proponent shall carry out the project:  (a) generally in accordance with the EA; (b) in accordance with the statement of commitments; and (c) in accordance with the conditions of this approval.  Notes:  The general layout of the project is shown in Appendix 2; and The statement of commitments is reproduced in Appendix 6.	Quarterly Environmental Monitoring Reports 2017 to 2020 Werris Creek Coal Mine, Mining Operations Plan, December 2015 Various management plans associated with water; biodiversity; greenhouse gasses; air quality; noise; blasting; vegetation; heritage etc. and observations made during the site visit	Based on the observations made during the Site visit; interviews with on-site and WHC corporate management; and ERM's review of relevant monitoring reports; management plans etc., it is considered that the Proponent has carried out the project:  (a) generally in accordance with the EA; (b) in accordance with the statement of commitments; and (c) in accordance with the conditions of this approval.	С		
3.	If there is any inconsistency between the above documents, the most recent document shall prevail to the extent of the inconsistency. However, the conditions of this approval shall prevail to the extent of any inconsistency.	Not applicable	No material inconsistencies which had an impact on the results of this audit were identified.	NT		
4.	The Proponent shall comply with any reasonable requirement/s of the Secretary arising from the Department's assessment of:  (a) any reports, strategies, plans, programs, reviews, audits or correspondence that are submitted in accordance with this approval; and  (b) the implementation of any actions or measures contained in these documents.	Not applicable	No such requests have been submitted by the Secretary during the audit period.	NT		
LIMITS C	DN APPROVAL					
Mining O	Operations					
5.	The Proponent may carry out mining operations on site until the end of December 2032.  Note: Under this approval, the Proponent is required to rehabilitate the site and carry out additional undertakings to the satisfaction of both the Secretary and the Executive Director, Mineral Resources in DRE. Consequently, this approval will continue to apply in all other respects other than the right to conduct mining operations until the rehabilitation of the site and those additional undertakings have been carried out satisfactorily.	Not applicable	Not Triggered.	NT		
Coal Ext	raction					
6.	The Proponent shall not extract more than 2.5 million tonnes of ROM coal from the site in a calendar year.	Werris Creek Coal Mine 2017 Annual Review Werris Creek Coal Mine 2018 Annual Review Werris Creek Coal Mine 2019 Annual Review	The Proponent has not extracted more than 2.5 million tonnes of ROM coal from the site in a calendar year during the audit period. ROM extraction values during completed calendar years within the Audit period are summarised below:  • January to December 2017 - 1,867,752 ROM Coal (t);  • January to December 2018 - 1,804,869 ROM Coal (t); and  • January to December 2019 - 1,546,118 ROM Coal (t).	С		

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
Coal Stoo	ckpiling				
7.	The Proponent shall not stockpile more than 250,000 tonnes of product coal on the site.	Annual Reviews 2017 to 2019 Storage reconciliation xls	The maximum mass of stockpiled product coal present on-site at the Train Load Out (TLO) during the audit period at any one time was ~249,500 tonnes.	С	
Coal Tran	nsport				
8.	The Proponent shall not transport:  (a) more than 50,000 tonnes of product coal from the site by public road in any calendar year;  (b) any product coal from the site by public road to the Muswellbrook, Singleton, Mid-Western Regional, Cessnock or Newcastle local government areas without the written approval of the Secretary; and  (c) any coal to the Whitehaven CHPP.	Werris Creek Coal Mine Rail and Truck Movements 2017 to 2019	The site ships less than 1,000 tonnes per anum of coal by road. Road shipments during the audit period included:  • 743 tonnes in 2017;  • 691 tonnes in 2018;  • 661 tonnes in 2019.  ERM reviewed a sample of transport dockets which confirmed that all road transport of coal by road to customers travels north from the site, therefore does not travel to the Muswellbrook, Singleton, Mid-Western	С	
			Regional, Cessnock or Newcastle local government areas.  No coal from the site is sent to the Whitehaven CHPP.		
CURREN	DED OF EVICTING DEVEL ORMENT CONSENT		No coal from the site is sent to the writtenaven Cher.		
SURREN	DER OF EXISTING DEVELOPMENT CONSENT			1	
9.	By the end of October 2012, or as otherwise agreed by the Secretary, the Proponent shall surrender the existing development consent (DA 172-7-2004) for the Werris Creek mine in accordance with section 104A of the EP&A Act.  Prior to the surrender of this development consent, the conditions of this approval shall prevail to the extent of any inconsistency with the conditions of the development consent.	Correspondence between Department of Planning and Infrastructure and WHC, dated 25 <sup>th</sup> September 2012, Reference dy06012	ERM reviewed a letter dated 25th September 2012, Reference dy06012, signed off by Danny Young of the Department of Planning and Infrastructure confirming that the Proponent had surrendered the existing development consent (DA 172-7-2004) for the Werris Creek mine in accordance with section 104A of the EP&A Act.	С	
STRUCT	JRAL ADEQUACY				
10.	The Proponent shall ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA.  Notes:  • Under Part 4A of the EP&A Act, the Proponent is required to obtain construction and occupation certificates (where necessary) for the proposed building works; and  • Part 8 of the EP&A Regulation sets out the requirements for the certification of the project.	Verbal management disclosures Google Earth Aerial Photography dated:  10/06/16; 08/05/19; and 03/02/19. Sample of occupancy and building certificates.	Site management reported that there have been no new buildings or structures constructed on-site during the audit period. ERM reviewed a sample of building certificates from 2006 confirming compliance with this condition (outside of the audit period).  ERM reviewed aerial photography from 10/06/16; 08/05/19; and 03/02/19 which confirmed that no visible new buildings had been constructed during this part of the audit period. The layout on these aerial photographs aligned with ERM's observations during the site visit.	С	
DEMOLIT	TION				
11.	The Proponent shall ensure that all demolition work on site is carried out in accordance with Australian Standard AS 2601-2001: The Demolition of Structures, or its latest version.	Verbal management disclosures Google Earth Aerial Photography dated:  10/06/16; 08/05/19; and 03/02/19.	Site management reported that there have been no buildings or structures demolished on-site during the audit period.  ERM reviewed aerial photography from 10/06/16; 08/05/19; and 03/02/19 which confirmed that no visible buildings had been demolished during this part of the audit period. The layout on these aerial photographs aligned with ERM's observations during the site visit.	NT	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
OPERATIO	ON OF PLANT AND EQUIPMENT				
12.	The Proponent shall ensure that all the plant and equipment used on site, or to transport coal from the site, is:  (a) maintained in a proper and efficient condition; and (b) operated in a proper and efficient manner.	Pulse preventative maintenance records	The preventative maintenance system utilised by the Site is called 'Pulse'. The system records all preventative maintenance tasks and creates electronic work orders for the maintenance team as required.  ERM reviewed Pulse records for a randomly selected dozer and pump system (pump 410). ERM also reviewed a sample of calibration records for blast monitors.  The work orders were detailed (including environmental noise control systems on the dozer) and included evidence that the required preventative maintenance had been completed on time.  No inspections by regulatory bodies raised preventative maintenance as a concern. ERM did not observe any examples of poorly maintained plant during the site inspection.	С	
STAGED S	SUBMISSION OF ANY STRATEGY, PLAN OR PROGRAM				
13.	With the approval of the Secretary, the Proponent may submit any strategy, plan or program required by this approval on a progressive basis.  Notes:  • While any strategy, plan or program may be submitted on a progressive basis, the Proponent will need to 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.	WHS Revision of Strategies, Plans and Programs MS Excel Register Review of selection of management plans (MOP; Water Management Plan)	The Site has developed numerous management plans and updated them progressively as the mining operation has expanded within the mining lease footprints and potential risks and interactions with the environment have evolved. Management retain a record of all updates to management plans in a WHS Revision of Strategies, Plans and Programs MS Excel Register. The register includes:  • Document review date; • A record of whether a revision was required; • The review submission date; • Review approval; • The date the document was submitted to the Secretary; and • When the document was approved by the secretary.  In all management plans, non-compliances with the relevant topic (e.g. water; blasting; biodiversity) trigger an update to the management plan. The Mining Operations Plan (2015) describes the specific stage to which the plan applies (2015 to 2022), the relationship of this stage to any future stages (all lease areas shown on multiple figures), and as above, the trigger for updating the plan would be a non-compliance occurring to which the MOP had some bearing.	C	
14.	Until they are replaced by an equivalent strategy, plan or program approved under this approval, the Proponent shall implement the existing strategies, plans or programs that apply under DA 172-7-2004.	All in scope Strategies, Plans and Programs	No evidence to suggest that approved Strategies, Plans and Programs have not been implemented in accordance with DA requirements was observed during this assessment.	С	
COMMUNI	ITY ENHANCEMENT				
15.	The Proponent shall establish and operate a Community Enhancement Fund for the project to the satisfaction of the Secretary. This fund must:  (a) be established and operated in consultation with Council and the CCC;  (b) be directed towards providing benefits to the local communities affected by the project;  (c) provide for the expenditure of at least \$300,000 (indexed to CPI) over 6 calendar years (2012 to 2017), and include at least \$200,000 of expenditure within the town of Werris Creek; and	Werris Creek Coal Mine Annual Review 2017 CCC minutes 2017	Written evidence of the requisite spend via the Community Enhancement Fund was observed during the site visit. The spend occurred during the six calendar years from 2012 to 2017 (overlapping this Audit period by six months).  Approximately \$30k was spent at Spring Ridge and \$336,000 was spent in Werris Creek.	С	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	(d) be operating from the end of April 2012, unless the Secretary agrees otherwise.		The local council (Liverpool Plains Shire Council) were the recipients of the funds for community projects and the spend was discussed in relevant CCC meetings.  Details of the projects funded were discussed in the Werris Creek Coal Mine Annual Review 2017 which is submitted to the Department.		
SCHED	ULE 3 – ENVIRONMENTAL PERFORMANCE CONDITIONS				
NOISE					
Noise Cri	teria				
1.	The Proponent shall ensure that the noise generated by the project (including noise generated on the Werris Creek Rail Spur) does not exceed the criteria in Table 1 at any residence on privately-owned land.	Annual reviews 2017 and 2018. EPL Monitoring reports 2017 to 2020.	No exceedances of noise criteria limits occurred during the reported audit period.	С	
	Table 1: Noise criteria         Location       Day       Evening & Night       Night         dB(A) LAeq(15 min)       dB(A) LAeq(15 min)       dB(A) LA1 (1 min)         R10, R11       39       39       45				
	R21 39 37 45 R12 38 38 45 R96 38 38 45				
	R7, R8, R9, R24 37 37 45 R22 36 37 45 R98 36 38 45 All other privately- owned residences 35 35 45				
	Notes:  • To interpret the locations referred to in Table 1, see the applicable figure in Appendix 3; and  • Noise generated by the project is to be measured in accordance with the relevant requirements and exemptions (including certain meteorological conditions) of the NSW Industrial Noise Policy.				
	However, these criteria do not apply if the Proponent has an agreement with the relevant owner/s of these residences/land to generate higher noise levels, and the Proponent has advised the Department in writing of the terms of this agreement.				
Noise Ac	quisition Criteria				
2.	If the noise generated by the project causes sustained exceedances of the criteria in Table 2 at any residence on privately-owned land or on more than 25 percent of any privately-owned land, then upon receiving a written request for acquisition from the landowner, the Proponent shall acquire the land in accordance with the procedures in conditions 5 - 6 of schedule 4.	FDI Manitaring reports 2017 to 2000	Not requested for acquisition from the landowner, as there were no exceedances of noise acquisition criteria during the reported audit period.	С	
	Table 1: Noise criteria  Location  Day/Evening/Night  dB(A) LAeq (15min)				
	All privately-owned land 40				
	Note: Noise generated by the project is to be measured in accordance with the relevant requirements and exemptions (including certain meteorological conditions) of the NSW Industrial Noise Policy.				
Additiona	al Noise Mitigation Measures			1	
3.	Upon receiving a written request from the owner of the land listed in Table 3, the Proponent shall implement additional noise mitigation measures (such as double glazing, insulation, and/or air conditioning) at any residence on the land in consultation with the owner. These measures must be reasonable and feasible.  If within 3 months of receiving this request from the owner, the Proponent and the owner cannot agree on the measures to be implemented, or there is a dispute about the	Annual reviews 2017 and 2018. EPL Monitoring reports 2017 to 2020.	Not requested - Advised by Site Environmental Manager.  WCC have implemented a number of mitigation strategies to minimise the effects of noise on the community, including:  Property acquisitions;	С	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	implementation of these measures, then either party may refer the matter to the Secretary for resolution.		<ul> <li>Private agreements;</li> <li>Installation and maintenance of an acoustic and visual amenity bund; and</li> </ul>		
	Table 3: Land subject to additional noise mitigation measures		• Installation and maintenance of a mine infrastructure area bund.		
	Location				
	R10, R11, R12, R21, R96				
	Note: To interpret the locations referred to in Table 3, see the applicable figure in Appendix 3.				
rating	g Conditions				
	The Proponent shall:  (a) implement best practice noise management to minimise the operational, low frequency, rail and road traffic noise of the project;  (b) regularly assess the real-time noise monitoring and meteorological forecasting data and relocate, modify, and/or stop operations on site to ensure compliance with the relevant conditions of this approval;  (c) minimise the noise impacts of the project during temperature inversions; and  (d) use its best endeavours to achieve the long-term noise goals in Table 4, where this is reasonable and feasible, and report on the progress towards achieving these goals in the annual review;  (e) carry out a comprehensive noise audit of the project in conjunction with each independent environmental audit,  to the satisfaction of the Secretary.  Table 4: Long-term noise goal  Location  Day/Evening/Night  dB(A) Laeq (15min)  35  Note: Noise generated by the project is to be measured in accordance with the relevant requirements and exemptions (including certain meteorological conditions) of the NSW Industrial Noise Policy.	Annual reviews 2017, 2018 and 2019.	<ul> <li>During the reporting period a number of operational strategies were in place to respond to potential noise impacts from mining operations including:</li> <li>Continuous noise monitoring;</li> <li>Attended noise monitoring;</li> <li>Noise control operators engaged;</li> <li>Sound filtering and interpretation to isolate the masking effects of extraneous noise sources from birds, insects, and other environmental noise sources during monitoring;</li> <li>Modification of operations, including shutting down plant items, to reduce offsite impacts; and</li> <li>Night time surface operations and dump locations planned to minimise noise where possible.</li> <li>WCC plans to construct the remainder of the visual and acoustic bund, prior to mining through Old Colliery Hill, to minimise potential noise impacts on Werris Creek residents.</li> <li>No exceedances of the long-term goal occurred during the reported audit period.</li> </ul>	C	
Ma	nagement Plan				
	The Proponent shall prepare and implement a Noise Management Plan for the project to the satisfaction of the Secretary. This plan must:  (a) be prepared in consultation with EPA by a suitably qualified expert whose appointment has been approved by the Secretary;  (b) be submitted to the Secretary for approval by the end of April 2012;  (c) describe the measures that would be implemented to ensure compliance with the relevant conditions of this approval, including:  • a real-time noise management system that employs both reactive and proactive mitigation measures; and  • rail spur management plan, that has been prepared in consultation with ARTC and the rail freight company; and  (d) include a Noise Monitoring Program that:  • uses a combination of real-time and supplementary attended noise monitoring measures to evaluate the performance of the project;  • is capable of monitoring temperature inversion strengths at an appropriate sampling rate;  • evaluates and reports on the effectiveness of the real-time noise management system;  • includes a protocol for determining exceedances of the relevant conditions of this approval.	Noise Management Plan (16 April 2014). Annual reviews 2017 and 2018.	WCC was granted Project Approval (PA 10_0059) on 25th October 2011 from DoP for the Life of Mine (LOM) extension project.  The NMP summarises the results of the predictive noise impact assessment and outlines the control measures to be implemented as a part of the continued operations at the WCC mine to minimise the potential for noise impacts on the local community and the environment. The NMP also contains an updated Noise Monitoring Program, developed to quantify the noise impacts of the operation and to assess compliance against the revised noise criteria.  Real time is based on noise control operator undertaking review of noise levels each 5minute period to determine if noise levels exceed trigger Protocol.  • Management of potential noise impacts from train movements on the Rail Spur including:Speed limit of 15km/h on the Rail Spur;  • STOP Boards located at the boundary with R20 maximising the distance that the idling train is from the residence while waiting for a rail path on the Great Northern Rail Line;  • Train movement along the Rail Spur is via push-pull locomotive at either end of the train. This procedure will be revised once the rail loop is constructed. If for	C	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
			safety it is possible to propel trains, the additional noise generated assessed in the LOM EA NIA determined that the increased distance between the rail loop and the closest Kurrara St residents in Werris Creek would not result in any additional noise impacts; and  Consultation over RSMP controls undertaken with ARTC and the two rail transport contractors that operate at WCC.  The NMP has been prepared with regards to:  the Life of Mine (LOM) Project Approval 10_0059 which was approved by the Department of Planning and Infrastructure (DoPl) on 25th October 2011 under delegation from the Minister for Planning and Infrastructure;  the Project Modification (PA 10_0059 MOD1) which was approved by DoPl on 30th August 2012 under delegation from the Minister for Planning and Infrastructure;  Environment Protection License (EPL 12290) issued by the NSW Environment Protection Authority (EPA);  the final "Environmental Assessment for Werris Creek Coal Mine Life of Mine Project" (R.W Corkery & Co, 2010); and  "Response to Submissions for the Environmental Assessment for Werris Creek Coal Mine Life of Mine Project" (R.W. Corkery & Co, 2011).		
LASTING	G				
Blasting C					
	The Proponent shall ensure that blasting on site does not cause exceedances of the criteria in Table 5.  Table 5: Blasting Criteria Location Airblast Overpressure (dB(Lin Peak))  Any residence on 115 5 5% of the total number of blasts over a period of 12 months  120 10 0%  All public - 50 0%  All public - 50 0%  However, these criteria do not apply if the Proponent has a written agreement with the relevant owner, and has advised the Department in writing of the terms of this agreement.	Annual reviews 2017 and 2018. EPL Monitoring reports 2017 to 2020.	No exceedances of ground vibration limits occurred during the reported audit period.  An exceedance of Condition 6 Schedule 3 of PA 10_0059 occurred with a blast undertaken on 4th May 2018, recording an overpressure greater than 120 dBL at two monitoring locations: 120.4dBL at Glenara (R11) and 120.2dBL at Kyooma (R98).  WCC undertook an investigation into the incident, with appropriate notifications to the EPA and DPIE.  Upon completion of the investigation, control measures have been implemented to prevent or mitigate against a similar exceedance in the future.  These included the erection of "dig fences" to prevent over digging, in the event blasts are located alongside excavation areas. In addition, face profiling will be completed after an excavator has left the area and prior to blast loading, to ensure under burden holes have been detected and addressed prior to firing.	С	WCC should continue undertaking the control measures to make sure the exceedance occurred in May 2018 is not repeated in future years. Consider a revision of plan to minimise risk of future exceedance.
Blasting F					
7.	The Proponent shall only carry out blasting on site between 9 am and 5 pm Monday to Saturday inclusive. No blasting is allowed on Sundays, public holidays, or at any other time without the written approval of the Secretary.	Annual reviews 2017 and 2018.	WCC fires all blasts in the middle of the day generally between 12:00pm and 2:00pm, when atmospheric mixing is generally highest.  Blasting records are included in data pack.	С	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
Blasting	Frequency				
8.	The Proponent shall not carry out more than:  (a) 1 blast a day on site, unless an additional blast is required following a blast misfire; and  (b) 15 blasts a month on site.  This condition does not apply to blasts that generate ground vibration of 0.5 mm/s or less at any residence on privately-owned land, or blasts required to ensure the safety of the mine or its workers.  Note: For the purposes of this condition, a blast refers to a single blast event, which may involve a number of individual blasts fired in quick succession in a discrete area of the mine.	Annual reviews 2017 and 2018. EPL Monitoring reports 2017 to 2020. Blast Management Plan.	There were 365 blasts undertaken during the reported audit period. The blasting frequency was of approximately 10 blasts per month.  September 2018 had 17 blasts, two blasts over the criteria limits.  Blast were divided along four receptors: R11, R98, R62 and R92.  Maximum values were above of the Blast Vibration criteria for the receptors R98 (0.93 mm/s), R62 (0.68 mm/s) and R92 (0.54 mm/s).  Average values were only slightly above the criteria for the receptor R98 (0.51 mm/s).  There were only 5 blast events that exceeded 0.5 mm/s during September 2018. this condition is considered compliant.	Compliant (Obs)	Consider implementing an alert mechanism to identify potential blast exceedances.
Property	Inspection				
9.	If the Proponent receives a written request from the owner of any privately-owned land within 2 kilometres of the approved open cut pit on site for a property inspection to establish the baseline condition of any buildings and/or structures on their land, or to have a previous property inspection report updated, then within 2 months of receiving this request the Proponent shall:  (a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary to:  • establish the baseline condition of the buildings and/or structures on the land or update the previous property inspection report; and  • identify any measures that should be implemented to minimise the potential blasting impacts of the projects on these buildings and/or structures; and  (b) give the landowner a copy of the new or updated property inspection report.	Annual reviews 2017 and 2018.	No requests were received from landowners during the reported audit period.  A property inspection was completed in 2012.	NT	
Property	/ Investigations				
10.	If the owner of any privately-owned land claims that the buildings and/or structures on their land have been damaged as a result of blasting on site, then within 2 months of receiving this claim the Proponent shall:  (a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to investigate the claim; and (b) give the landowner a copy of the property investigation report.  If this independent property investigation confirms the landowner's claim, and both parties agree with these findings, then the Proponent shall repair the damage to the satisfaction of the Secretary.  If the Proponent or landowner disagrees with the findings of the independent property investigation, then either party may refer the matter to the Secretary for resolution.	Annual reviews 2017 and 2018.	No claims were received from landowners during the reported audit period.	NT	
Operatin	ng Conditions			I	1
11.	The Proponent shall:  (a) implement best practice blasting management on site to:  • protect the safety of people and livestock in the surrounding area;  • protect private or public property in the surrounding area;  • minimise the dust and fume emissions of the blasting; and  (b) minimise the duration and frequency of any road closures for blasting;	Annual reviews 2017 and 2018.	A number of controls were applied to reduce the potential for impacts, including:     buffer management through acquisition of a number of adjacent properties thorough private negotiation;     blasts designed with consideration of the predicted vibration of the shot, geology, ground conditions, explosives selection, initiation sequence/timing,	С	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	(c) operate a suitable system to enable the public to get up-to-date information on the proposed blasting schedule on site, to the satisfaction of the Secretary.		powder factor, history/experience, and the sleeping time of the shot;  maintenance of the predicted blast vibration objective for Werris Creek of 0.8 mm/s;  explosive product selection and loading, to reduce the risk of auto-ignition and/or blast fume generation;  stemming height and quality monitored by, the shot-firer to minimise the risk of elevated air overpressure from rifling;  initiation sequence strategies are used to minimise vibration and air overpressure impacts;  sleeping shots minimised to avoid potential deterioration of product;  WCC aims to fire all blasts in the middle of the day generally between 12:00pm and 2:00pm, when atmospheric mixing is generally highest;  blast notification prior to every blast;  pre-blast weather assessment conducted;  road closures of the Werris Creek Road when proximity of blasts occurred within 200 meters;  blast fume rating recorded; and  structural inspections - In response to claims of property damage due to blasting operations.		
12.	The Proponent shall not carry out blasting on site that is within 500 metres of:  (a) Werris Creek Road without the approval of RMS;  (b) the Main Northern Railway without the approval of ARTC; and  (c) any land outside the site that is not owned by the Proponent unless:  • the Proponent has a written agreement with the relevant landowner to allow blasting to be carried out closer to the land, and the Proponent has advised the Secretary in writing of the terms of this agreement; or  • the Proponent has:  • demonstrated to the satisfaction of the Secretary that the blasting can be carried out closer to the land without compromising the safety of people or livestock on the land, or damaging the buildings and/or structures on the land; and  • updated the Blast Management Plan to include the specific measures that would be implemented while blasting is being carried out within 500 metres of the land.	Annual reviews 2017 and 2018. Blast Management Plan.	<ul> <li>When blasts are planned within 500m of Werris Creek Road and the Main Northern Rail Line, road and rail closures are undertaken as summarised below:</li> <li>Blasts Within 500m:</li> <li>Werris Creek Road will be closed, however, the Main Northern Rail Line will remain open;</li> <li>Signage on Werris Creek Road day of the blast;</li> <li>Notification of road closure will be provided 7 days ahead of a required road closure to Liverpool Plains Shire Council (LPSC) and local emergency services;</li> <li>Sentries will be placed on Werris Creek Road. The sentries will close the road when advised by the Shot-firer. Once the blast is completed the sentries will inspect the road for debris, remove (in the unlikely event of occurrence) and re-open the road within 15 minutes of closure; and</li> <li>If weather conditions change following road closure, such that they are no longer favourable for blasting, the road will be reopened as soon as practicable to allow stopped traffic to pass.</li> <li>Blasts Within 200m:</li> <li>Werris Creek Road and the Main Northern Rail Line will be closed;</li> <li>Closure procedures for Werris Creek Road will be as above;</li> <li>A short-notice possession of the rail line will be organised with the Australian Rail Track Corporation (ARTC) who will reschedule rail pathways around the blast; and</li> <li>ARTC recognised Protection Officers will escort WCC personnel to inspect the rail line.</li> <li>BMP update in 2019. Photos of correspondence with ARTC, and RMS did not respond to request then approved by DPIE.</li> </ul>		

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
Blast Ma	anagement Plan				
13.	The Proponent shall prepare and implement a Blast Management Plan for the project to the satisfaction of the Secretary. This plan must:  (a) be prepared in consultation with EPA, RMS and ARTC; (b) be submitted to the Secretary for approval by the end of April 2012; (c) describe the mitigation measures that would be implemented to ensure compliance with the relevant conditions of this approval; (d) describe the measures that would be implemented to ensure that the public can get up-to-date information on the proposed blasting schedule on site; and (e) include a blast monitoring program for evaluating the performance of the project, including:  • compliance with the applicable criteria; and • minimising the fume emissions from the site.	Blast Management Plan.	The Blast Management Plan (BMP) has been prepared in consultation with the relevant Government Departments, as required under Condition 13 (a), Schedule 2 of PA 10_0059.  The BMP was submitted to the Secretary on 27th April 2012.  Blasts design mitigations may include:  Reducing bench heights or ensuring adequate relief in deep holes;  Selecting explosives products appropriate to the blast design and ground conditions;  Following manufacturer's recommendations for priming, timing and sleep time of bulk explosives;  Increasing the level of control and QA/QC checks on deeper shots;  Providing appropriate separation of blast holes and explosive decks;  Reducing the powder factor or modifying the timing, depth or size of a blast; and  Reviewing forecasted weather conditions and proposed deign pattern proximity to Werris Creek Road prior to design.  Prior to every blast, the Blast Notification Webpage on the Whitehaven Coal website will be updated to include the blast date and time.  Monitoring is undertaken in accordance with Condition 3(13) (e) of the Modified PA and Condition L5.8 of EPL 12290.	С	
	ALITY & GREENHOUSE GAS				
Odour 14.	The Proponent shall ensure that no offensive odours, as defined under the POEO Act, are emitted from the site.	Annual reviews 2017 and 2018. Complaints register 2017 to 2020 Air Quality and Greenhouse Gas Management Plan.	The Site has received 15 odour related complaints during the audit period, primarily relating to a 'burning' smell attributed to spontaneous combustion odours:  • June 2017 to June 2018 – 10 complaints;  • June 2018 to June 2019 – 5 complaints; and  • June 2019 to June 2020 – No complaints.  The mine has implemented procedures to minimise emissions of odour from spontaneous combustion through the use of water curtains or sprinklers to suppress hot areas; and uncovering and mining the higher risk workings quickly and soaking any hot coal immediately.  Workers utilise personal gas monitors at the boundary of the site in the direction of complaints when they occur to identify whether detectable hydrogen sulphide is present. ERM sighted photographs of multi-gas monitoring units on days when spontaneous combustions complaints had been received. No elevated gas readings were detected at the boundary.	NC	Although the Site did receive odour related complaints, indicating offensive odour was emitted from Site, the site has robust odour management process to mitigate odours from spontaneous combustion.  No actions required.

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
			It is noted that the higher risk of spontaneous combustion areas of the mine (the former underground workings) have now been mined, reducing the future odour emission risk profile of the mine.  Air Quality Management Plan Section 8.2 WCC will ensure that no offensive odours are emitted from the LOM Project. The risk of odour generation as a result of localised spontaneous combustion from coal stockpiles or waste carbonaceous material will be identified by close monitoring for the presence of smoke and heat. If heating is detected the affected material will be dug out, spread and cooled. If localised spontaneous combustion was to be detected, the affected material will be isolated and drenched with water.		
Greenhou	ise Gas Emissions				
15.	The Proponent shall implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site to the satisfaction of the Secretary.	Air Quality and Greenhouse Gas Management Plan	<ul> <li>GHG measures that have been implemented to minimise the release of greenhouse gas emissions by WCC as part of the LOM Project:</li> <li>Relocation of the Mine Infrastructure Area (MIA) to the north to reduce the haul lengths of trucks transporting ROM Coal to the Crushing Plant. This initiative will particularly reduce haul lengths later in the life of the mine;</li> <li>Relocated Coal Crushing Plant electrical switch room will be upgraded and will include a power correction factor to improve energy efficiency of the crushing plant outside of peak crushing;</li> <li>Larger mining equipment (1 x Hitachi EX5600 replace 1 x Hitachi EX1900 and 10 x CAT XQ793 replacing 11 x CAT 785) replacing older and smaller equipment will improve productivity (bcm) for the same diesel consumption;</li> <li>Energy efficient external lighting around the MIA connected to main electricity supply replacing mobile lighting plants consuming diesel;</li> <li>New workshop with brand new compressed air system (no leaks) and new air compressor; and</li> <li>Completion of western dump extension will shorten overburden haul lengths and flatten the haul profile.</li> </ul>		
			Emission inventory reporting for GHG.		
Air Quality	y Criteria	1	1 . 5		
16.	The Proponent shall ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the project do not exceed the criteria listed in Tables 6, 7 and 8 at any residence on privately-owned land or on more than 25 percent of any privately-owned land.  Table 6: Long-term criteria for particulate matter  Pollutant  Averaging Period  Total suspended particulate  Annual  (TSP) matter  Particulate matter < 10 µm  Annual  a 30 µg/m3  (PM <sub>10</sub> )	Annual reviews 2017 and 2018. EPL Monitoring reports 2017 to 2020.	<ul> <li>The following exceedances of assessment criteria were recorded during the reported audit period:</li> <li>23rd June 2017: R11(Glenara) HVAS - PM10 concentration of 52.4 μg/m³;</li> <li>27th September 2017: R11(Glenara) HVAS - PM10 concentration of 67.6 μg/m³;</li> <li>18th February 2018 R11(Glenara) - PM10 concentrations of 53.6 μg/m³; and</li> <li>15th December 2018 at HVP1 (Escott) - PM10 concentrations of 67.1 μg/m³.</li> </ul>		
	Table 7: Short-term criterion for particulate matter  Pollutant  Particulate matter < 10 μm (PM₁0)  Table 8: Long-term criteria for deposited dust		A notification regarding the elevated results in 2017 was provided to the DPIE following receipt of the monitoring results via email on 14th July 2017 and 13th November 2017 respectively. Subsequent investigations demonstrated that WCC was not the cause of the elevated PM10 levels on both occasions,		

No	Assessment Req	uirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
lo	Pollutant c Deposited dust  Notes to Tables 6-8:  • a Total impact (ie incremental increase in concentrations concentrations due to all other sources);  • b Incremental impact (ie incremental increase in concentrations dust is to be assessed as insoluble solids a 3580.10.1:2003: Methods for Sampling and Analysis of A - Deposited Matter - Gravimetric Method.  • d Excludes extraordinary events such as bushfires, presillegal activities or any other activity agreed by the Secret	Averaging Period Annual  s due to the project plus background trations due to the project on its own); s defined by Standards Australia, AS/NZS mbient Air - Determination of Particulate Matter ccribed burning, dust storms, fire incidents,		with WCC operations identified downwind of the monitor and therefore the elevated results were not non-compliances.  Subsequent investigations demonstrated that WCC was not the cause of the elevated PM10 levels in 2018 on both occasions. On the 18th February 2018, WCC operations were downwind of the monitor at the time of the exceedance with field notes from the day of sampling noting farming activity (ploughing) in the vicinity of the monitor. On the 15th December 2018 widespread high regional dust alerts were in place and WCC operations were downwind of the monitor at the time of monitoring.  The following exceedances of long term criteria was recorded during the reported audit period:  2017: DG22 (Mountain View) Dust Deposition maximum concentration of 8.8 µg/m³;  2017: DG34 (8 Kurrara Street) Dust Deposition multiple exceedances with maximum concentration of 19.5 µg/m³;  2018 - Dust Deposition exceedance of the long-term criteria in DG2 (Cintra), which was above the annual average criteria for the 2018 reporting period. Located directly north of WCC operations, DG2 is located on a project related property; and  An investigation of the results at dust gauge site DG34 (8 Kurrara street) and DG9 (Marengo) with elevated measurements during the reporting period showed elevated results and low deposited dust levels at nearby gauges, indicating a localised source of dust generation or contamination at both sites, unrelated to activities at WCC.  Exceedances in 2017 showed consistently high results and low deposited dust levels at nearby gauges indicating a localised source of dust generation or contamination, unrelated to activities at WCC.  The following exceedances of 24h average criteria was recorded during the reported audit period:  2018: TEOM - 7 PM10 concentrations exceedances:	-	Recommendations
				<ul> <li>15th April;</li> <li>4th August;</li> <li>1st September;</li> <li>22nd November;</li> <li>23rd November;</li> <li>14th December;and</li> <li>15th December.</li> <li>Widespread high regional dust alerts were received on all the above mentioned dates, advising elevated PM10 levels were present in the area and operations were located downwind of the TEOM location during monitoring.</li> </ul>		
Qualit	ty Acquisition Criteria			mormoring.		
	If particulate matter emissions generated by the properties and 11 at any residence on privately-owned land, or privately owned land, then upon written request for Proponent shall acquire the land in accordance with schedule 4.  Table 9: Long term land acquisition criteria for particular particular acquirement of the properties of the	or on more than 25 percent of any acquisition from the landowner, the hather the procedures in conditions 5-6 of		Not applicable.	NT	

No		Assessment R	equirement		Reference/ Evidence	Comments	Compliance Status	Recommendations
	Pollutant Total suspended partic (TSP) matter	Averaging ulate Annu	<del>-</del>	d <b>Criterion</b> a 90 μg/m <sub>3</sub>				
	Particulate matter < 10 (PM <sub>10</sub> )	) μm	ıal	a 30 μg/m3				
	Table 10: Short term land	d acquisition criteria for	particulate matter					
	Pollutant	Averaging	period	da Criterion				
	Particulate matter < 10 (PM <sub>10</sub> )	μm 24 ho	ur	a 150 µg/m <sub>3</sub>				
	Particulate matter < 10 (PM <sub>10</sub> )	μm 24 ho	ur	ь 50 µg/mз				
	Table 11: Long term acq	uisition criteria for depo	sited dust					
	Pollutant	Averaging period	Maximum increase2 in deposited dust level	Maximum total₁ deposited dust level				
	c Deposited dust  Notes to Tables 9-11:  a Total impact (i.e. incremental impact (i.e. to all oth)  b Incremental impact (i.e. to Deposited dust is to be a 3580.10.1:2003: Methods for Deposited Matter - Gravim de Excludes extraordinary incidents or any other activity	her sources); incremental increase in co assessed as insoluble solid or Sampling and Analysis o netric Method; and events such as bushfires, p	ncentrations due to the ds as defined by Standa of Ambient Air - Determi prescribed burning, dusi	development on its own); rds Australia, AS/NZS nation of Particulate Matter				
Operating	g Conditions				I	T	I	
18.	fume and partic associated with (b) minimise any vi (c) minimise any su (d) regularly assess data and reloca	culate matter emissions the transport coal prod sible air pollution gener urface disturbance on sis the real-time air qualitie, modify and/or stop anditions of this approval	s of the project, incluuced on site by road atted by the project; ite; and ty monitoring and mooperations on site to	nimise the off-site odour, ding the dust emissions or rail; eteorological forecasting ensure compliance with	Annual reviews 2017 and 2018. Air Quality and Greenhouse Gas Management Plan (AQGHGMP).	<ul> <li>During the reported audit period, various controls were implemented to manage dust including:</li> <li>Use of water carts across the site with an additional contractor water cart also utilised during rehabilitation activities;</li> <li>Overburden, coal and soil loading activities are not undertaken during periods of adverse weather (high winds or dry conditions), with SMS triggers employed to provide a near-real time operational response;</li> <li>Blasting activities restricted to suitable weather conditions and include notification to key stakeholders and residents;</li> <li>All personnel are instructed that all vehicles must utilise existing tracks on-site and must be driven to the conditions to minimize trafficable dust generation;</li> <li>The extent of disturbed areas (pre-strip clearing and rehabilitation) are minimized to that required for mining operations, with these areas stabilized and revegetated as soon as practicable once no longer required for ongoing operations;</li> <li>Water sprays are used on the coal feed hopper, crusher and at all conveyor transfer and discharge points;</li> <li>A designated pump and sprinkler installed during the reporting period to minimize dust entrainment</li> </ul>	С	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
			<ul> <li>off the SAIL stockpile in adverse weather conditions;</li> <li>Water Sprinklers added to the TLO to aid in dust suppression;</li> <li>Modification of operations, including shutting down plant items, to reduce offsite impacts; and</li> <li>Installed bird deterrents were maintained on depositional dust gauges to reduce contamination.</li> <li>In management plan based on wind speed, manage operations examples of real time triggers from weather station data including txt messages provided.</li> </ul>		
Air Quali	ty and Greenhouse Gas Management Plan				
19.	The Proponent shall prepare and implement an Air Quality and Greenhouse Gas  Management Plan for the project to the satisfaction of the Secretary. This plan must:  (a) be prepared in consultation with EPA, and submitted to the Secretary by the end of April 2012;  (b) describe the measures that would be implemented to ensure compliance with the relevant conditions of this approval, including a real-time air quality management system that employs both reactive and proactive mitigation measures;  (c) describe the measures that would be implemented to minimise the release of greenhouse gas emissions from the site; and  (d) include an air quality monitoring program, that:  • uses a combination of real-time monitors and supplementary monitors, to evaluate the performance of the project;  • evaluates and reports on the effectiveness of the real-time air quality management system; and  • includes a protocol for determining any exceedances of the relevant conditions of this approval.	Air Quality and Greenhouse Gas Management Plan (AQGHGMP).	WCC submitted a draft for approval on 26 <sup>th</sup> March 2012.  The AQGHGMP summarises the results of the predictive air quality assessment and outlines the control measures to be implemented as a part of the continued operations at the mine to minimise the potential for air quality and greenhouse gas impacts on the local community and the environment. The AQGHGMP also contains an updated Air Quality Monitoring Program, developed to quantify the air quality impacts of the operation and to assess compliance against the revised air quality criteria.	С	
METEOR	DLOGICAL MONITORING				
0.	For the life of the project, the Proponent shall ensure that there is a suitable meteorological station operating in the vicinity of the site that: (a) complies with the requirements in the <i>Approved Methods for Sampling of Air Pollutants in New South Wales</i> guideline; and (b) is capable of continuous real-time measurement of temperature lapse rate, in accordance with the <i>NSW Industrial Noise Policy</i> , or as otherwise approved by EPA.	Noise Management Plan. Blast Management Plan. Air Quality and Greenhouse Gas Management Plan (AQGHGMP)	WCC maintains an on-site weather station identified as "M2" (EPL 12290 EPA ID #9) located on the top level of the overburden emplacement (at final rehabilitated landform surface RL445.5m) as well as "M3" (EPL 12290 EPA ID #31) lower level temperature sensor (base of overburden emplacement area at RL373.5m). Met station observed during site visit, position observed to meet requirements of Approved methods.	С	
SOIL AND	WATER				
lote: Und	er the Water Act 1912 and/or the Water Management Act 2000, the Proponent is required to obta	ain the necessary water licences for the p	project.		
/ater Su	pply				
21.	The Proponent shall ensure that it has sufficient water for all stages of the project, and if necessary, adjust the scale of mining operations to match its available water supply, to the satisfaction of the Secretary.	Water Management Plan.	6.3.9 Site Water Usage  The Environmental Officer will monitor void water usage based on flow meters, void water dam storage levels and water cart load counts. In addition, WCC will engage a hydrogeologist (or similar expertise) to analyse void dewatering records and rainfall levels to update the water model for WCC on an annual basis, and determine the twelve-month total incidental groundwater make for the open cut pit. This will include an assessment of the availability of surplus water for offsite agricultural use over the upcoming year, with particular reference to the security of water supply over the LOM.	С	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
			7.2 Water Usage Monitoring WCC maintains a network of inline flow meters, void water dam storage level boards and water cart fill points to record the void water transfer within the water management system onsite. Each month the Environmental Officer records the flow meters and storage levels of void water dams to determine water usage onsite. These locations are subject to change in response to mining operations and are provided as a guide only. The pit dewatering pipelines are key water inputs and dust suppression are the key output from the water management system.		
Surface \	Water Discharges				
22.	The Proponent shall ensure that all surface water discharges from the site comply with the discharge limits (both volume and quality) set for the project in any EPL.	Water Management Plan. Annual reviews 2017 and 2018.	EPL 12290 permits WCC to undertake discharges from the licensed discharge points (LDPs) of SB2 (EPL10), SB9 (EPL12), SB10 (EPL14) and SB18 (EPL32). WCC categorises two types of discharges, a discharge due to rainfall runoff and overflowing via the spillway is called a wet weather discharge, while a controlled discharge occurs when the dam water is pumped out.  WCC can exceed the Total Suspended Solid limit if over 39.2mm of rainfall is received over a 5-day period, resulting in a wet weather discharge. WCC treats dirty water when required by using polymer based flocculants to lower Total Suspended Solids, reducing turbidity and dosing dams with pool acid to maintain pH within discharge limits. A controlled discharge of settled and (if necessary) treated dirty water would be undertaken in accordance with the EPL 12290 when storage levels within respective LDPs (SB2, SB9 and SB10) are greater than 50%. This would provide the capacity to contain more rainfall events and reduce wet weather discharges.  All laboratory results undertaken prior to a controlled discharge are reviewed against exceedance criteria for compliance.  Lab reports provided, One exceedance reported low pH 5.5 for discharge point EPL14 uncontrolled discharge, sampled 18 Feb 2020. Other results indicated exceedances up /down stream during storm events (off site locations, results not correlated to discharge point results).	C	
Void Wat	er Irrigation				
22A.	The Proponent shall not provide any water for the purpose of irrigation or stock watering, unless the activity has been approved by the Secretary as part of the Water Management Plan.	Water Management Plan.	4.2 Agricultural Use of Void Water Offsite On the basis of the water balance model predictions, the volume of void water generated is predicted to exceed the capacity of the void water dams under median and high rainfall scenarios. In order to alleviate the storage capacity shortfall, the Modified PA permits WCC to make this water available to the owners or users (under lease) of land adjoining or surrounding WCCM for irrigation and/or other agricultural use (i.e. stock watering). In order to demonstrate that the void water could be utilised for agricultural purposes without adversely impacting on the local environment, SEEC (2015)	С	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
			undertook an assessment to investigate the use of excess void water from WCCM, via irrigation on agricultural land surrounding WCC. SEEC utilised the EPA endorsed Effluent Reuse Irrigation Model (ERIM) to demonstrate the feasibility of irrigating the void water to surrounding agricultural lands.  ERIM uses water and nutrient balances to calculate the amount of water and nutrients that should be applied, and at what times, to meet crop requirements whilst ensuring runoff and percolation are minimised.		
Vater Man	agement Plan				
23.	The Proponent shall prepare and implement a Water Management Plan for the project to the satisfaction of the Secretary. This plan must be prepared in consultation with DPI Water and EPA by suitably qualified and experienced persons whose appointment has been approved by the Secretary, and submitted to the Secretary by the end of April 2012. In addition to the standard requirements for management plans (see condition 2 of schedule 5), this plan must include:  (a) Site Water Balance that:  • includes details of:  • sources of water supply;  • water use on site;  • water management on site;  • reporting procedures, which provide for the update of the site water balance in each annual review; and  • describes what measures would be implemented to minimise potable water use on site;  (b) a Surface Water Management Plan, that includes:  • detailed baseline data of the surface water flows and quality in the waterbodies that could be affected by the project;  • a detailed description of the water management system on site, including the:  • clean water diversion systems;  • erosion and sediment controls; and  • water storages;  • a plan for identifying, extracting, handling, and the long-term storage of potentially acid forming material on site;  • detailed plans, including design objectives and performance criteria, for:  • design and management of the final void;  • reinstatement of drainage lines on the rehabilitated areas of the site; and	Water Management Plan (WMP). Annual reviews 2017 and 2018.	The first draft of the WMP was sent for approval on 26 <sup>th</sup> March 2012 and has been prepared in consultation with the DP&E, DPI-W, and EPA.	C	
	<ul> <li>control of any potential water pollution from the rehabilitated areas of the site;</li> <li>a program to monitor the effectiveness of the water management system;</li> <li>a plan to respond to any exceedances of the performance criteria, and mitigate and/or offset any adverse surface water impacts of the project;</li> </ul>				
	<ul> <li>(c) a Groundwater Management Plan, which includes:</li> <li>detailed baseline data of groundwater levels and quality surrounding the site;</li> <li>groundwater assessment criteria, including trigger levels for investigating any potentially adverse groundwater impacts;</li> <li>a program to monitor:</li> <li>groundwater inflows to the open cut mining operations;</li> <li>the impacts of the project on any groundwater bores on privately-owned land;</li> <li>the seepage/leachate from water storages or backfilled voids on site; and</li> <li>a program to validate the groundwater model for the project, and calibrate it to site specific conditions; and</li> <li>a plan to respond to any exceedances of the performance criteria, and mitigate and/or offset any adverse groundwater impacts of the project; and</li> </ul>				
	(d) an Irrigation Management Plan, which includes:				

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	<ul> <li>a detailed methodology for the transfer (including for pipeline and/or road transportation) and application of void water for each irrigation site;</li> <li>detailed consideration of the irrigation activities guided by the Environmental Guideline "Use of Effluent by Irrigation, DEC 2014", including site specific soil analysis and consideration of the short and long term impacts of salinity and sodicity on soils;</li> <li>parameters for the sustainable application of void water to maximise water uptake and minimise deep percolation to groundwater and/or run-off from the application site;</li> <li>identification of the appropriate approvals held under the Water Management Act 2000;</li> <li>a program to monitor void water quality and soil characteristics; and</li> <li>a description of the procedures to be implemented to measure and report on the quantity of water supplied to each individual user and the quantity of void water used against the parameters identified.</li> </ul>				
oid Wat	er Dam 1				
3a.	Within 2 months of the completion of construction works for the expanded Void Water Dam 1, the Proponent shall submit a "works as-executed" report to the Secretary and EPA, certified by a practising engineer, confirming that the expanded dam has been constructed to its design specifications.	Water Management Plan (WMP).	WMP: 6.3.6 Void Water Dam Storage Management.  Void Water Dams 1, 3 & 4 have been prescribed by the NSW Dam Safety Committee (DSC) with Significant Sunny Day and Flood Consequence categories requiring the design, construction and operation to be in accordance with DSC and ANCOLD guidelines. An independent dam engineer will be engaged on an annual basis to undertake a review of dam structure and operation of these void water dams. Any actions identified by the dam engineer will be implemented by WCC and reported in the Annual Review. Void Water Dams 1 and 2 are licenced monitoring points 16 and 27 respectively under EPL 12290.	С	
ODIVE	RSITY sity Offset Strategy				
	The Proponent shall implement the biodiversity offset strategy for the project described in the EA, summarised in Table 12, and shown conceptually on the figure in Appendix 4 to the satisfaction of the Secretary.  Table 12: Summary of the Biodiversity Offset Strategy  Offset Areas  Minimum Size (hectares)  Eurunderee 363.93 Hillview 57.32 Marengo 284.12 Railway View 243.69 Mine Site 215.86 Greenslopes/Banool 123 TOTAL Notes:  To identify the areas referred to in Table 12, see the applicable figure in Appendix 4; The strategy includes the enhancement of existing fauna habitat within these areas, and where necessary the targeted establishment of naturally scarce fauna habitat; and Greenslopes/Banool must have at least 74 hectares of Box Gum Woodland EEC.	Biodiversity and Offset Management Plan 2013 Biodiversity and Offset Management Plan 2016 (Submitted to but unapproved by DPE, OEH, DoEE) EPBC Compliance Reports 2017 to 2019	Whitehaven Coal sent a letter to DP&I on 22/6/2012 seeking approval for BOMP. The BOMP was approved by the DP&I on 30/8/2013.  Section 8.8 of the BOMP outlines the management strategy of these areas.  Section 6.4 of the Werris Creek Coal Mine Annual Reviews discusses the management of the offset areas. During the reporting period, WHC and DP&E signed the NSW Conveyancing Act 1919 Section 88E Instruments to secure the WCCM BOAs. These instruments were then registered with NSW Land Registry Services on 20th July 2018 and 2nd August 2018, which completed securement of WCC BOAs and finalises compliance with PA 10_0059 Schedule 3 Condition 27 and EPBC Act Approval 2010/5571 Condition 1.	С	
	By the end of June 2012, unless the Secretary agrees otherwise, the Proponent shall update the biodiversity offset strategy for the project, in consultation with OEH, and to the satisfaction of the Secretary. The updated strategy must include the specific details of the	Biodiversity and Offset Management Plan 2013 Biodiversity and Offset Management	The biodiversity offset strategy is discussed in the Biodiversity Offset Management Plan (BOMP). The version history on this document indicates that a Draft	С	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
		EPBC Compliance Reports 2017 to 2019	This requirement fell outside of this Audit scope timeframe. The previous IEA indicated compliance with this CoC.		
26.	The Proponent shall ensure that the biodiversity offset strategy and/or rehabilitation strategy is focused on the re-establishment and/or enhancement of: (a) the following endangered ecological communities: • White Box-Yellow Box-Blakely's Red Gum Woodland EEC; and • White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland CEEC; and (b) habitat for threatened fauna species, including the: • Regent Honeyeater, Swift Parrot, Brown Treecreeper, Hooded Robin, Little Lorikeet, and Barking Owl; and • Eastern Bent-wing Bat, Eastern False pipistrelle, Yellow-bellied Bent-wing Bat and Greater Broad-nosed Bat.	Biodiversity and Offset Management Plan 2013	Biodiversity Offset Management Plan (BOMP) scope aligns with the requirements of this Condition of Consent.	С	
_ong Tei	m Security of Offsets				
27.	The Proponent shall make suitable arrangements to provide appropriate long-term security for the offset areas (excluding the rehabilitation areas) by December 2012, or other date agreed by the Secretary, to the satisfaction of the Secretary.	Email from Whitehaven Coal confirming registrations complete for securing of Werris Creek biodiversity offset lands in accordance with EPBC 2010/5571  Letter from Land Register Services to Whitehaven Coal dated 02/08/18	Whitehaven Coal and the then DPE concluded negotiation and agreed on the wording of positive and negative covenants to be registered on individual land titles that make up the WCCM BOA. The s88E covenant instruments were signed by WHC and DPE and submitted to NSW Land and Property information for registration during 2018.	С	
Biodiver	sity Offset Management Plan				
28.	The Proponent shall prepare and implement a Biodiversity Management Plan for the project to the satisfaction of the Secretary. This plan must:  (a) be prepared in consultation with OEH, and submitted to the Secretary for approval by the end of December 2012;  (b) describe how the implementation of the biodiversity offset strategy would be integrated with the overall rehabilitation of the site;  (c) describe the short, medium, and long term measures that would be implemented to:  • manage the remnant vegetation and habitat on the site and in the offset area/s (if and when applicable); and  • implement the biodiversity offset strategy (if and when applicable), including detailed performance and completion criteria;  (d) include detailed performance and completion criteria for evaluating the performance of the biodiversity offset strategy, and triggering remedial action (if necessary);  (e) include a detailed description of the measures that would be implemented over the next 3 years, including the procedures to be implemented for:  • enhancing the quality of existing vegetation and fauna habitat;  • restoring native vegetation and fauna habitat on the biodiversity areas and rehabilitation area through focusing on assisted natural regeneration, targeted vegetation establishment and the introduction of naturally scarce fauna habitat features (where necessary);  • landscaping the land on site that faces public roads to minimise the visual and lighting impacts of the project;  • maximising the salvage of resources within the approved disturbance area including vegetative, soil and cultural heritage resources – for beneficial reuse in the enhancement of the biodiversity areas or rehabilitation area;  • collecting and propagating seed;  • minimising the impacts on fauna on site, including undertaking pre-clearance surveys;  • managing any potential conflicts between the proposed restoration works in the biodiversity areas and any Aboriginal heritage values (both cultural and archaeological);  • managing grazing and agr	Biodiversity and Offset Management Plan 2013 Biodiversity and Offset Management Plan 2016 (Submitted to but unapproved by DPE, OEH, DoEE) WCC-EPBC Compliance Report 2017 WCC-EPBC Compliance Report 2018 WCC-EPBC Compliance Report 2019 Annual Review 2017 Annual Review 2018 Annual Review 2019	The current approved Biodiversity Offset Management Plan (BOMP) is dated August 2013. The most recent Biodiversity Offset Management Plan (submitted to WHC Submission to DPE, OEH and DoEE in September 2016) has not been approved by the regulators to date. Compliance with each part of this condition of consent is described below:  a) Original submission December 2012. b) Described in Section 8.3 of the BOMP (2013) and Section 4.6 of the BOMP (2016). The MOP incorporates the requirements of a Rehabilitation Management Plan (RMP). The MOP outlines the objectives, domains, completion criteria, methodology, targets, contingency management and conceptual decommissioning relating to rehabilitation management. The rehabilitation objectives in the MOP are consistent with the BOMP and focus on the restoration of native woodland vegetation, specifically the endangered ecological community Grassy White Box Woodland. c) Described in Section 8.0, 8.5 and 7.1 of the BOMP (2013). Described in Section 6 of the BOMP (2016). d) Inspections undertaken quarterly. Section 7.1 of the BOMP (2013) and Sections 6.14, 6.15 and 6.16 of the BOMP (2016). e) Described in Section 9.0 of the BOMP (2013), Section 4 of the BOMP (2016) and Section 6.4 of the Annual Review. f) Described in Section 9.0 of the BOMP (2013) and Sections 6.14, 6.15 and 6.16 of the BOMP (2016). Section 6.4 of the Annual Review also discusses monitoring and EPBC Compliance Reports are published annually.	C	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	<ul> <li>bushfire management;</li> <li>(f) include a seasonally-based program to monitor and report on the effectiveness of these measures, and progress against the detailed performance and completion criteria;</li> <li>(g) identify the potential risks to the successful implementation of the biodiversity offset strategy, and include a description of the contingency measures that would be implemented to mitigate against these risks; and</li> <li>(h) include details of who would be responsible for monitoring, reviewing, and implementing the plan.</li> </ul>		g) Discussed in Section 6.0 of the BOMP (2013) and Section 6.16 on the BOMP (2016). h) Section 2 of the Plan. include details of who would be responsible for monitoring, reviewing, and implementing the plan. Annual Reviews detail the progressive implementation of the BOMP.		
Conserva	tion Bond				
29.	Within 6 months of the approval of the biodiversity offset strategy, the Proponent shall lodge a conservation bond with the Department to ensure that the biodiversity offset strategy is implemented in accordance with the performance and completion criteria of the Biodiversity Management Plan.  The sum of the bond shall be determined by:  (a) calculating the full cost of implementing the offset strategy (other than land acquisition costs); and  (b) employing a suitably qualified quantity surveyor to verify the calculated costs,	Not Verified by ERM in this Audit Period	The bond was lodged outside of the current Audit period. A letter from DPI was sighted in the previous 2017 IEA which confirmed that the Bond had been lodged in January 2014 and agreed on 4/2/14.	С	
	If the offset strategy is completed generally in accordance with the completion criteria in the Biodiversity Management Plan to the satisfaction of the Secretary, the Secretary will release the bond.  If the offset strategy is not completed generally in accordance with the completion criteria in the Biodiversity Management Plan, the Secretary will call in all or part of the conservation bond, and arrange for the satisfactory completion of the relevant works.  With the agreement of the Secretary, this bond may be combined with rehabilitation security deposit administered by DRE.				
HERITAG					
Historic F	leritage				
30.	By the end of April 2012, the Proponent shall:  (a) undertake primary historical investigations and provide a report prepared by an experienced heritage consultant approved by the Secretary on the archaeological potential of the former Werris Creek Colliery site, remaining buildings and surrounds;  (b) provide recommendations for the management, salvage or recording of any archaeological features on the site and a timetable for the implementation of these recommendations;  (c) include in this report detailed archival recording, including photographic recording and location plans of any structures relating to the former Werris Creek Colliery; and (d) provide a copy of this report to the Department, Heritage Council of NSW and Council,		This condition of consent was triggered outside of the current audit period.  A Report was prepared by Advitech Environmental Archaeological Investigation and Heritage. The report covered the key requirements of this condition including consultation.  Recommendations for the management, salvage or recording of any archaeological features on the site and a timetable for the implementation of these recommendations are addressed in Heritage Management Plan.	NT	
	to the satisfaction of the Secretary.				
Human R				A I T	
31.	This approval does not allow the Proponent to disturb any human remains found on the site.	Not Triggered	This requirement is considered in the heritage management plan, but has not been triggered during this Audit period.	NT	
Heritage I	Management Plan				
32.	<ul> <li>The Proponent shall prepare and implement a Heritage Management Plan for the project to the satisfaction of the Secretary. This plan must: <ul> <li>(a) be prepared by suitably qualified and experienced persons whose appointment has been endorsed by the Secretary;</li> <li>(b) be prepared in consultation with OEH and the Aboriginal stakeholders (in relation to the management of Aboriginal heritage values);</li> <li>(c) be submitted to the Secretary for approval by the end of June 2012, unless the Secretary agrees otherwise;</li> </ul> </li> </ul>	Heritage Management Plan 2014	The original Heritage Management Plan was sent to the DPE in October 2012 for approval. The Heritage Management Plan disclosed on the WHC website is dated July 2014.  a) Appendix A - endorsement of Advitech on December 2011 to prepare the Heritage MP. b) Appendix A - Consultation records from 2012.	С	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	<ul> <li>(d) include the following for the management of Aboriginal Heritage: <ul> <li>a description of the measures that would be implemented for:</li> <li>protecting, relocating, monitoring and/or managing the axe-grinding grooves known as the "Narrawolga site";</li> <li>managing the discovery of any human remains or previously unidentified Aboriginal objects on site;</li> <li>maintaining and managing reasonable access for Aboriginal stakeholders to heritage items on site and within any Aboriginal heritage conservation areas;</li> <li>ongoing consultation with the Aboriginal stakeholders in the conservation and management of Aboriginal cultural heritage both on site and within any Aboriginal heritage conservation areas; and</li> <li>ensuring any workers on site receive suitable heritage inductions and that suitable records are kept of these inductions;</li> <li>a strategy for the storage of any heritage items salvaged on site, both during the project and in the long-term;</li> <li>include the following for the management of historic heritage:</li> <li>a detailed plan for the implementation of any measures resulting from the further investigations into the former Werris Creek Colliery site and buildings;</li> <li>a description of the measures that would be implemented for:</li> <li>managing the discovery of human remains or previously unidentified heritage items on site; and</li> <li>ensuring any workers on site receive suitable heritage inductions and that suitable records are kept of these inductions.</li> </ul> </li> <li>Note: It is accepted that the detailed plan for the implementation of any measures resulting from further investigations into the former Werris Creek Colliery site will not be submitted with the initial Heritage Management Plan. They should be progressively added to the plan once they are completed.</li> </ul>		c) Original Heritage Management Plan sent to the DPE in October 2012. d) Management measures described in Section 8 and 10. e) Section 8 and Section 10. The only significant amendment to the heritage management plan between the version issued in 2012 and the current plan relate to the relocation of the Narrawolga Axe Grinding Groove Rocks to the Willow Tree Visitor Information Centre on 15th April 2015. The project involved detailed consultation with the Liverpool Plains Shire Council and Nungaroo Local Aboriginal Lands Council, with assistance provided by ageotechnical engineer and archaeologists to minimise the risk of damage to the Groove Rocks and meet regulatory and documentation requirements		
TRANSP					
Roadwor 33.	Prior to the use of the Northern Site Access Road, the Proponent shall:  (a) construct the intersection of the Northern Site Access Road (see the figure in Appendix 2) to the satisfaction of Council;  (b) tar seal Escott Road from Werris Creek Road to the coal haul road to the satisfaction of Council;  (c) upgrade the intersection of Escott Road and Werris Creek Road to a CHR type intersection to the satisfaction of RMS and Council;  (d) install appropriate rail crossings at the rail loop on Escott Road; and  (e) install appropriate advance warning signs and lighting on Escott Road and at the intersection of the Northern Site Access Road to the satisfaction of Council.	Not Triggered.	Not Triggered.	NT	
34.	Within 3 months of the commencement of coal transport from the Northern Site Access Road, the Proponent shall close the existing mine entrance on Werris Creek Road (see Figure 1 of Appendix 2) to coal transport (unless required in an emergency).	Not Triggered.	Not Triggered	NT	
Road Ma	intenance				
35.	For the life of the project, the Proponent shall continue to provide funding towards the maintenance of Taylors Lane, in accordance with the existing road maintenance contributions agreement with Council.	Not Triggered.	Not Triggered.		
Monitorir	ng of Coal Transport				
36.	The Proponent shall:  (a) keep accurate records of the amount of coal transported from the site (on a monthly basis); and  (b) make these records available on its website at the end of each calendar year.	Werris Creek Coal Mine Rail and Truck Movements 2011 to 2019	ERM sighted the basis of the coal movement records disclosed on the Werris Creek WHC website.	С	
VISUAL					
Visual Ar					
37.	The Proponent shall:  (a) implement all reasonable and feasible measures to minimise the visual and off-site lighting impacts of the project, including:	Lighting Management Procedure Complaints Register	(a) and (b) The MOP indicates that the rehabilitation of the mine and revegetation is progressing in accordance with this CoC. A > 15 metre high visual/amenity bund	С	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	<ul> <li>progressively rehabilitating overburden emplacement areas (particularly the outer batters), including partial rehabilitation of temporarily inactive areas and proposed topsoil storage stockpiles;</li> <li>constructing a 15 metre high visual/amenity bund along the northeastern perimeter of the northern extent of the open-cut pit, and</li> <li>planting trees at the foot of the overburden emplacement area along the eastern boundary of the site, in front of the visual/amenity bund, and to the north and east of the product coal stockpile and rail load-out facility;</li> <li>(b) establish and maintain an effective vegetative screen along the boundary of the site adjoining public roads;</li> <li>(c) ensure no outdoor lights shine above the horizontal; and</li> <li>(d) ensure that all external lighting associated with the development complies with Australian Standard AS4282 (INT) 1995 – Control of Obtrusive Effects of Outdoor Lighting, to the satisfaction of the Secretary.</li> </ul>	Audit of external lighting associated with the development against the Australian Standard AS4282 (INT) 1995 – Control of Obtrusive Effects of Outdoor Lighting	was observed along the northeastern perimeter of the northern extent of the open-cut pit.  (c) A magnetic lighting management procedure was observed attached to lights across the facility.  One complaint has been received regarding light emissions at nearby premise. Investigation of the complaint indicated that a light had been moved not in accordance with the Light Management Procedure. — due to movement of light. NCO noise monitors monitor lighting on visible light from the mine daily and record results.  (d) An audit against Australian Standard AS4282 (INT) 1995 — Control of Obtrusive Effects of Outdoor Lighting was sighted during the site visit. No non-compliances were observed in the audit results.		
Additiona	Il Visual Impact Mitigation				
38.	Upon receiving a written request from the owner of any residence on privately-owned land which has, or would have, significant direct views of the mining operations on site during the project, the Proponent shall implement additional visual impact mitigation measures (such as landscaping treatments or vegetation screens) to reduce the visibility of these mining operations from the residences on their properties.  These mitigation measures must be reasonable and feasible, and must be implemented within a reasonable timeframe.  If the Proponent and the owner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Secretary for resolution.  Notes:  The additional visual impact mitigation measures must be aimed at reducing the visibility of the mining operations on site from significantly affected residences, and do not require measures to reduce the visibility of the mining operations from other locations on the affected properties;  The additional visual impact mitigation measures do not necessarily have to include the implementation of measures on the affected property itself (i.e. the additional measures could involve the implementation of measures outside the affected property boundary that provide an effective reduction in visual impacts).	Not triggered.	Not triggered.	NT	
WASTE					
39.	The Proponent shall:  (a) implement all reasonable and feasible measures to minimise the waste generated by the project;  (b) ensure that the waste generated by the project is appropriately stored, handled and disposed of; and  (c) monitor and report on effectiveness of the waste minimisation and management measures in the annual review.	Annual Reviews 2017 to 2019 MOP 2015	The mine implemented recycling programmes in 2016 the efficacy of which are reported upon during each Annual Review. The overall trend of waste production is downward since the recycling programmes were implemented.  Section 2.4.11 of the MOP discusses waste management confirming that all wastes are removed by suitably licenced waste contractors. Hydrocarbon impacted soils are 'land farmed' on an on-site until they can be disposed of as general solid waste.  No evidence of inappropriately stored wastes was observed during the site visit.	C	
BUSHFIR	E MANAGEMENT				
40.	The Proponent shall:  (a) ensure that the project is suitably equipped to respond to any fires on site; and  (b) assist the Rural Fire Service and emergency services as much as possible if there is a fire in the surrounding area.	Annual Reviews 2017 to 2019 BOMP 2013 and 2016	<ul> <li>(a) Bushfire management across the site includes:</li> <li>Four water carts;</li> <li>Hydrants around the site;</li> <li>Biodiversity offset lands have fire breaks.</li> <li>Fire management is incorporated into the offset strategy.</li> <li>Emergency Response Team is trained in fire response.</li> </ul>	С	

No	Assessment	Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
			Evidence	Fuel load management and maintenance of fire breaks are discussed as performance metrics in Environmental Performance Sections of the Annual reviews  (b) Not triggered	Sidius	
HABILI	ATION					
habilitat	tion Objectives					
	The Proponent shall rehabilitate the site to the be generally consistent with the proposed rehashown conceptually in the figure in Appendix 5  Table 13: Rehabilitation objectives	abilitation strategy described in the EA (and	Annual Reviews 2017 to 2019 MOP 2015	The rehabilitation at the mine is an ongoing process, which based on ERM's observations and a review of relevant Annual Reviews from the audit period appears to be being undertaken generally in accordance with	С	
	Feature Mine Site (as a whole)	Objective		EA rehabilitation strategy; the EA Mod and the MOP.		
		<ul> <li>Safe, stable and non-polluting;</li> <li>Constructed landforms sympathetic to natural landforms (including landform micro-relief) as far as practicable;</li> <li>Final land uses compatible with surrounding land uses; and</li> <li>Minimise visual impact of final landforms as far as reasonable and feasible.</li> </ul>				
	Woodland areas and other vegetated land					
		Establishment of at least 280 hectares of White Box-Yellow Box-Blakely's Red Gum Woodland EEC; and     Restore ecosystem function, including maintaining or establishing self-sustaining ecosystems that is comprised of:     local native plant species; and - at least 180 hectares of shrubby woodland.				
	Amenity Bunds and Overburden Emplacements	Early revegetation and planting with local native woodland species; and     Free draining.				
	Final Void					
	i iiidi void	<ul> <li>Minimise the size and depth of the final void as far as is reasonable and feasible, with its floor a minimum of 5 metres above the predicted long-term groundwater level.</li> </ul>				
	Project infrastructure					
		To be decommissioned and removed, unless the Executive Director, DRE agrees otherwise.				
	Community					
	22	<ul> <li>Minimise the adverse socio-economic effects associated with mine closure.</li> </ul>				
ogressiv	ve Rehabilitation					

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
42.	The Proponent shall rehabilitate the site progressively, that is, as soon as reasonably practicable following disturbance.	MOP 2015 Site observations and management disclosures	Progressive rehabilitation is undertaken as soon as landform has met design. The site is within 3 Ha of MOP targets. Observations made during the site walkover indicated that several areas were under active rehabilitation. No materially failing sections of rehabilitation were observed during the site visit, with the exception of some drought affected trees.	С	
ehabilita	ition Management Plan		_		
3.	The Proponent shall prepare and implement a Rehabilitation Management Plan for the project to the satisfaction of DRE. This plan must:  (a) be prepared in consultation with the Department, DPI Water, OEH, Council and the CCC; (b) be submitted to DRE by the end of April 2012  (c) be prepared in accordance with any relevant DRE guideline; (d) describe how the rehabilitation of the site would be integrated with the implementation of the biodiversity offset strategy; (e) include detailed performance and completion criteria for evaluating the performance of the rehabilitation of the site, and triggering remedial action (if necessary); (f) describe the measures that would be implemented to ensure compliance with the conditions of this approval, and address all aspect of rehabilitation including mine closure, final landform, and final land use; (g) include a program to monitor and report on the effectiveness of the measures, and progress against the detailed performance and completion criteria; and (h) build to the maximum extent practicable on the other management plans required under this approval.	MOP 2015 Annual Reviews 2017 to 2019 WCC-EPBC Compliance Report 2017 WCC-EPBC Compliance Report 2018 WCC-EPBC Compliance Report 2019	The MOP has not been updated during the Audit period.  a) Consultation for most recent MOP/Rehabilitation Management Plan outlined within Section 1.5.2. b) The last MOP was submitted in December 2015 and is valid for seven years. c) The MOP was prepared in accordance with the MOP Guideline. d) Table 4.2 covers this in sufficient detail. e) Criteria outlined in Section 6. f) Section 7 of the MOP outlines Rehabilitation Implementation. Covered within multiple sections of the MOP. g) Criteria outlined in Section 6 and 8. Reporting is within the 'Rehabilitation Monitoring Reports' and there is a basic summary within the Annual Reviews. The monitoring program for rehabilitation and offset areas reviews some of the key criteria which are outlined in the MOP. h) Section 1.3 references management plans at WCC.	C	

## SCHEDULE 4 – ADDITIONAL PROCEDURES

By the end of December 2011, the Proponent shall:  (a) notify in writing the owners of:  • any residence on the land listed in Table 3 of schedule 3 that they are entitled to ask the Proponent to install additional noise mitigation measures at their residence at any stage during the project; and  • any privately-owned land within 2 kilometres of the approved open cut mining pit that they are entitled to ask the proponent for a property inspection to establish the baseline condition of any buildings or structures on their land, or to have a previous property inspection report updated; and  (b) send a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time) to the owners of any land (including mine-owned land) where the predictions in the EA identify that dust emissions generated by the project are likely to be greater than the relevant air quality criteria in schedule 3 at any time during the life of the project.	Not applicable.	This condition falls outside of the Audit period. Previous IEAs have reported this condition as compliant. ERM has not independently verified this condition.	NT
	Email to affected land holder relating to blast exceedance dated 9 <sup>th</sup> May 2018	a) One blast exceedance impacted a landholder during the audit period. ERM viewed evidence that the affected landholder had been communicated with within 5 days of the exceedance occurring. The minor delay related to the time taken for the Site to confirm that an exceedance had occurred.  b) Not triggered.	С

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
3.	If an owner of privately-owned land considers the project to be exceeding the relevant criteria in schedule 3, then he/she may ask the Secretary in writing for an independent review of the impacts of the project on his/her land.  If the Secretary is satisfied that an independent review is warranted, then within 2 months of the Secretary's decision the Proponent shall:  (a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to:  • consult with the landowner to determine his/her concerns; • conduct monitoring to determine whether the project is complying with the relevant criteria in schedule 3; and  • if the project is not complying with these criteria, then identify the measures that could be implemented to ensure compliance with the relevant criteria; and  (b) give the Secretary and landowner a copy of the independent review.	Not applicable.	Not Triggered	NT	
4.	If the independent review determines that the project is complying with the relevant criteria in schedule 3, then the Proponent may discontinue the independent review with the approval of the Secretary.  If the independent review determines that the project is not complying with the relevant criteria in schedule 3, then the Proponent shall:  (a) implement all reasonable and feasible mitigation measures, in consultation with the landowner and appointed independent person, and conduct further monitoring until the project complies with the relevant criteria; and  (b) secure a written agreement with the landowner to allow exceedances of the relevant criteria; to the satisfaction of the Secretary.  If the independent review determines that the project is not complying with the relevant acquisition criteria, and that the project is primarily responsible for this non-compliance, then upon receiving a written request from the landowner, the Proponent shall acquire all or part of the landowner's land in accordance with the procedures in condition 5-6 below.	Not applicable.	Not Triggered	NT	
LAND AC	QUISITION				
5.	Within 3 months of receiving a written request from a landowner with acquisition rights, the Proponent shall make a binding written offer to the landowner based on:  (a) the current market value of the landowner's interest in the land at the date of this written request, as if the land was unaffected by the project, having regard to the:  • existing and permissible use of the land, in accordance with the applicable planning instruments at the date of the written request; and  • presence of improvements on the land and/or any approved building or structure which has been physically commenced at the date of the landowner's written request, and is due to be completed subsequent to that date, but excluding any improvements that have resulted from the implementation of 'additional noise mitigation measures' in condition 4 of schedule 3;  (b) the reasonable costs associated with:  • relocating within the Liverpool Plains Shire local government area, or to any other local government area agreed to by the Secretary;  • obtaining legal advice and expert advice for determining the acquisition price of the land, and the terms upon which it is to be acquired; and  (c) reasonable compensation for any disturbance caused by the land acquisition process. However, if at the end of this period, the Proponent and landowner cannot agree on the acquisition price of the land and/or the terms upon which the land is to be acquired, then either party may refer the matter to the Secretary for resolution.  Upon receiving such a request, the Secretary will request the President of the NSW Division of the Australian Property Institute to appoint a qualified independent valuer to:  • consider submissions from both parties;  • determine a fair and reasonable acquisition price for the land and/or the terms upon which the land is to be acquired, having regard to the matters referred to in paragraphs (a)-(c) above;  • prepare a detailed report setting out the reasons for any determination; and  • provide a copy of the report to both parties.  W	Not applicable.	Not Triggered	NT	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	consultation with the independent valuer and both parties, the Secretary will determine a fair and reasonable acquisition price for the land, having regard to the matters referred to in paragraphs (a)-(c) above, the independent valuer's report and any other relevant submissions. Within 14 days of this determination, the Proponent shall make a binding written offer to the landowner to purchase the land at a price not less than the Secretary's determination.  If the landowner refuses to accept the Proponent's binding written offer under this condition within 6 months of the offer being made, then the Proponent's obligations to acquire the land shall cease, unless the Secretary determines otherwise.				
6.	The Proponent shall pay all reasonable costs associated with the land acquisition process described in condition 4 above, including the costs associated with obtaining Council approval for any plan of subdivision (where permissible), and registration of the plan at the Office of the Registrar-General.	Not applicable.	Not Triggered.	NT	

vironr	nental Management Strategy			
1.	The Proponent shall prepare and implement an Environmental Management Strategy for the project to the satisfaction of the Secretary. This strategy must:  (a) be submitted to the Secretary for approval by the end of April 2012;  (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 all key personnel involved in the environmental management of the project;  (e) describe the procedures that would be implemented to:  • keep the local community and relevant agencies informed about the operation and environmental performance of the 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;  • respond to emergencies; and  (f) include:  • 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.	Not applicable.	This condition was triggered outside of the audit period. The previous IEA stated that:  a) Environmental Management Strategy document has been submitted but has not been approved. First sent 30 April 2012. b) Section 8; c) Section 3; d) Section 2 e) Section 12; f) Section 8 and 9.  ERM has not independently verified this information.	NT
	nent Plan Requirements	I		0
2.	The Proponent shall ensure that the management plans required under this approval are prepared in accordance with any relevant guidelines, and include:  (a) detailed baseline data; (b) a description of:  • the relevant statutory requirements (including any relevant approval, licence or lease conditions);  • any relevant limits or performance measures/criteria;  • the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the project or any management measures; (c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria; (d) a program to monitor and report on the:  • impacts and environmental performance of the project; • effectiveness of any management measures (see (c) above); (e) a contingency plan to manage any unpredicted impacts and their consequences; (f) a protocol for managing and reporting any: • incidents; • complaints; • non-compliances with statutory requirements; and • exceedances of the impact assessment criteria and/or performance criteria; and (g) a protocol for periodic review of the plan.	Selected management plans, strategies etc. reviewed as part of the audit scope	Management plans were originally developed using data collected during the EIA and to comply with conditions of approval.  ERM's review of management plans indicate that they have generally been developed in accordance with these criteria.	C

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
Annual Re	view				
3.	By the end of March each year, the Proponent shall review the environmental performance of the project to the satisfaction of the Secretary. This review must:  (a) describe the development (including any rehabilitation) that was carried out in the past year, and the development that is proposed to be carried out over the next year;  (b) include a comprehensive review of the monitoring results and complaints records of the project over the past year, which includes a comparison of these results against the: • relevant statutory requirements, limits or performance measures/criteria;  • monitoring results of previous years; and  • relevant predictions in the EA;  (c) identify any non-compliance over the past year, and describe what actions were (or are being) taken to ensure compliance;  (d) identify any trends in the monitoring data over the life of the project;  (e) identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies; and  (f) describe what measures will be implemented over the next year to improve the environmental performance of the project.	Emails submitted to the Department with Annual Reviews attached dated 29/03/18, 29/03/19 and 29/04/20.	2017 – Submitted to the Department 29/03/18; 2018 – Submitted to the Department 29/03/19; 2019 - Submitted to the Department 29/04/20.It is noted that Werris Creek Coal were granted a 30 day extension for submission of the 2019 Annual Review. ERM sighted email correspondence confirming this. Criteria a to f are covered in the scope of the Annual Reviews.	С	
Revision o	of Strategies, Plans and Programs				
4.	Within 3 months of:  (a) the submission of an annual review under condition 3 above; (b) the submission of an incident report under condition 6 below; (c) the submission of an audit under condition 8 below; or (d) any modification to the conditions of this approval (unless the conditions require otherwise), the Proponent shall review, and if necessary revise, the strategies, plans, and programs required under this approval to the satisfaction of the Secretary. Where this review leads to revisions of any plan then within four weeks of the review the revised document must be submitted to the Secretary and any other relevant agencies for approval.  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.	Review of a selection of plans, strategies etc. Annual Reviews 2017 to 2019	All relevant strategies, plans etc. contain a trigger to review and update if required following these criteria. Each Annual Review contains an action to "Completion of review and, if necessary, revision of Environmental Management Plans".  Evidence of updated plans following non-compliances, changes to operations etc. were observed for the water management plan (2017); and PIMRP (2019) and Blast Management Plan (2019 and 2020).	С	
Communit	y Consultative Committee				
5.	The Proponent shall operate a Community Consultative Committee (CCC) for the Werris Creek Coal Mine for the life of the project, in general accordance with the <i>Guidelines for Establishing and Operating Community Consultative Committees for Mining Projects</i> (Department of Planning, 2007, or its latest version), and to the satisfaction of the Secretary. <i>Notes:</i> • The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the Proponent complies with this approval; and  • In accordance with the guideline, the Committee should be comprised of an independent chair and appropriate representation from the Proponent, Council, recognised environmental groups and the local community.	Quarterly CCC minutes 2017 to 2020	CCC minutes are available for review on the Whitehaven Coal website. The CCC has been set up to operate generally in accordance with the <i>Guidelines for Establishing and Operating Community Consultative Committees for Mining Projects</i> . The CCC has met approximately every four months during the audit period.  The original approval of the CCC occurred outside of the audit period.	С	
REPORTIN	IG				
Incident R					
6.	The Proponent shall notify, at the earliest opportunity, the Secretary and any other relevant agencies of any incident that has caused, or threatens to cause, material harm to the environment. For any other incident associated with the project, the Proponent shall notify the Secretary and any other relevant agencies as soon as practicable after the Proponent becomes aware of the incident. Within 7 days of the date of the incident, the Proponent shall provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested.	Various emails	ERM sighted correspondence to the relevant regulators relating to the dam overflow event with pH non-compliances (9/02/20) and non-compliant overpressure event (04/05/19) which occurred during the audit period. In both cases the department was notified as soon as the non-compliances were confirmed.	С	
Regular R	eporting			,	
7.	The Proponent shall provide regular reporting on the environmental performance of the project on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this approval.	Annual Reviews 2017 - 2019 Coal movement records 2017 - 2019 Monthly EPL monitoring reports 2017 - 2019 EPBC Compliance reports 2017 - 2019 Independent Environmental Audits 2017 - 2019	The following monitoring reports are published on the Whitehaven Coal Website:  • Annual Reviews;  • Coal movement records;  • Monthly EPL monitoring reports;  • EPBC Compliance reports;  • Independent Environmental Audits; and  • Specialist consultant studies.	С	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
		Specialist consultant studies 2017 - 2019			
INDEPEN	DENT ENVIRONMENTAL AUDIT				
8.	By the end of June 2014, and every 3 years thereafter, unless the Secretary directs otherwise, the Proponent shall commission and pay the full cost of an Independent Environmental Audit of the project. This audit must:  (a) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;  (b) include consultation with the relevant agencies;  (c) assess the:  • environmental performance of the project; and  • whether it is complying with the requirements in this approval, any relevant EPL or Mining Lease (including any assessment, plan or program required under these approvals); and  (d) recommend appropriate measures or actions to improve the environmental performance and rehabilitation of the project.  Note: This audit team must be led by a suitably qualified auditor and include experts in any fields specified by the Secretary.	Independent Environmental Audit, SLR, 2017	SLR completed an Independent Environmental Audit in 2017 with the site visit component occurring on 14 and 15 June 2017. The auditors were approved by the Department and the scope of the IEA aligned with the requirements of this condition.	С	
9.	Within 6 weeks of the completion of this audit, or as otherwise agreed by the Secretary, the Proponent shall submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report.	Letter from DPE to Whitehaven Coal re: extension to IEA submission date 27/7/17 Email from Whitehaven Coal to EPA and DPE 29/09/17	The site obtained a letter approving the request to extend the timing for submission of the IEA report and RAR to 31 August 2017, then another extension to submit the report until the 30 <sup>th</sup> September 2017.  The final versions of the IEA report and RAR were submitted on 29 September 2017.	С	
ACCESS '	TO INFORMATION				
10.	The Proponent shall:  (a) make copies of the following publicly available on its website:  • the EA;  • current statutory approvals for the project;  • approved strategies, plans and programs required under the conditions of this approval;  • a comprehensive summary of the monitoring results of the project, which have been reported in accordance with the conditions of this approval or any approved plans or programs;  • a complaints register, which is to be updated on a monthly basis;  • minutes of any CCC meetings;  • the last five annual reviews;  • any independent environmental audit of the project, and the Proponent's response to the recommendations in any audit;  • any other matter required by the Secretary; and  (b) keep this information up-to-date, to the satisfaction of the Secretary.	EA Current statutory approvals for the project Approved strategies, plans and programs Monitoring reports Complaints register Minutes of any CCC meetings Annual reviews IEAs	All required documentation is disclosed on the website.	С	

Document details	
Document title	Appendix A3 - EPL
Document subtitle	Compliance with Environment Protection Licence (EPL) 12290
Project No.	0552611
Date	22 July 2020
Version	1.0
Author	Robert Smith, Aaron McKenzie
Client Name	Whitehaven Coal

22 July 2020 www.erm.com Version: 1.0 Project No.: 0552611 Client: Whitehaven Coal

Item		Assessment Requireme	nt	Reference/ Evidence	Comments	Compliance	Recommendations
1 ADM	INISTRATIVE CONDITIONS						
A1 Wh	at the licence authorises and	regulates					
A1.1	A2. The activities are listed ac classification and the scale of Construct mine entrance/ acce	cording to their scheduled activity c the operation. ess/ rail load out roads; site prepara	s listed below at the premises specified in lassification, fee-based activity tion; (clearing/ soil removal) including office facility installation; install water	Site observations MOP 2015 Annual Returns 2017 to 2019	The Site is not undertaking any scheduled activities other than those permitted by its EPL.	С	
A1.2	A2. The activities are listed ac classification and the scale of Unless otherwise further restri	cording to their scheduled activity c the operation.	s listed below at the premises specified in lassification, fee-based activity he scale at which the activity is carried out	Annual Coal Movements 2017 to 2019	The site's production capacity has remained within the scheduled limits.	С	
	Scheduled Activity	Fee Based Activity	Scale				
	Coal works	Coal works	> 2,000,000 – 5,000,000 T annual handing capacity				
	Mining for coal	Mining for coal	> 2,000,000 T – 3,500,000 of annual production capacity				
A1.3	The licensee must not carry or completed, except as elsewhere	n any scheduled activities until the sere provided in this licence.	cheduled development works are	Site observations	No evidence to suggest this condition is not being complied with was observed.	С	
A2 Pre	mises or plant to which this li	cence applies					
A2.1	The licence applies to the following premises Details WERRIS CREEK CO 1435 WERRIS CREEK WERRIS CREEK NSW 2341	DAL		Mine licence plans Site observations	Mining operations are completed within the approved site boundary.	С	
		WITHIN THE "PROJECT SITE BO SCHEDULE OF LAND" OF APPE	UNDARY" IDENTIFIED IN THE MAP NDIX 1				
	SCHEDULE OF LAN (DOC16/11179).	ID OF PROJECT APPROVAL 10_0	0059, DATED 25 OCTOBER 2011				
A3 Info	ormation supplied to the EPA						
A3.1		carried out in accordance with the p	•	Site observations	No evidence to suggest this condition is not being complied with was observed.	С	
	In this condition the reference	to "the licence application" includes	a reference to:				
	(a) the applications for any lic replaces under the Protect 1998; and	<ul> <li>In this condition the reference to "the licence application" includes a reference to:</li> <li>(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</li> </ul>					
	(b) the licence information for the issuing of this licence.		PA to assist the EPA in connection with				

		Assessment	t Requirement		Reference/ Evidence	Comments	Compliance	Recommendation
1.	ARGES TO AIR	AND WATER AND APPLICATIONS	S TO LAND					
a 1	ation of monitori	ng/discharge points and areas						
			ideasCodio dei licano	for the second of	For all forms Mile to be soon Or all to EDA	Friday and the said of the sai	0	
		oints referred to in the table below are or the setting of limits for the emission			Email from Whitehaven Coal to EPA dated 21/04/20 Site observations	Evidence viewed of monitoring locations being provided to the EPA in email dated 21/04/20 with shapefiles confirming the spatial location of the discharge points. All monitoring locations	С	
ſ	EPA ID no.	Type of monitoring point	Type of discharge poin	t Location description		were present and are sign posted on-site.  No monitoring locations have moved since the		
ı	9	Ambient Weather	Type of discharge poil	Weather station located on		EPL was granted.		
	9	Monitoring		the top level of the overburden emplacement at RL 445m and identified as "EPL9" on the figure titled "EPL 12290 Licenced Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
	28	Ambient Air Monitoring/ Air Discharge Quality	Ambient Air Monitoring/ Discharge Quality	14/11/1 400 61/				
	29	Ambient Air Monitoring/ Air Discharge Quality	Ambient Air Monitoring/ Discharge Quality	Air Within 100 metres of the residence "Glenara" identified as "EPL29" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
•	30	Ambient Air Monitoring/ Air Discharge Quality	Ambient Air Monitoring/ Discharge Quality	Air Within 100m of the location known as property number 92 identified as "EPL30" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
	31	Ambient Weather Monitoring		Lower level temp. sensor at the toe of the SE rehabilitation area at RL 373.5m AHO and identified as "EPL31" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
		ints referred to in the table are identi g of limits for discharges of pollutants Water			Email from Whitehaven Coal to EPA dated 21/04/20 Site observations	Evidence viewed of monitoring locations being provided to the EPA in email dated 21/04/20 with shapefiles confirming the spatial location of the discharge points. All monitoring locations were present and are sign posted on-site.	С	
	EPA ID no.	Type of monitoring point Type	pe of discharge point	Location description		No monitoring locations have moved since the EPL was granted.		

	Asses	sment Requirement		Reference/ Evidence	Comments	Compliance	Recommendation
10	Wet Weather Discharge / Discharge Water Quality Monitoring	Wet Weather Discharge / Discharge Water Quality Monitoring	Point known as "SB2" and identified as "EPL10" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
12	Wet Weather Discharge / Discharge Water Quality Monitoring	Wet Weather Discharge / Discharge Water Quality Monitoring	Point known as "SB9" and identified as "EPL12" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
14	Wet Weather Discharge / Discharge Water Quality Monitoring	Wet Weather Discharge / Discharge Water Quality Monitoring	Point known as "SB10" and identified as "EPL14" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
16	Water Quality Monitoring		Point known as "VWD1" and identified as "EPL16" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
17	Groundwater Quality Monitoring		Point known as  "GW966036/MW1" and identified as "EPL17" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
18	Groundwater Quality Monitoring		Point known as "GW966127/MW2" and identified as "EPL18" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
19	Groundwater Quality Monitoring		Point known as "GW965729/MW3" and identified as "EPL19" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 17 December 2015 (DOC16/111380).				
20	Groundwater Quality Monitoring		Point known as "MW4b" and identified as "EPL20" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
21	Groundwater Quality Monitoring		Point known as "GW968728/MW5" and identified as "EPL21" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
22	Groundwater Quality Monitoring		Point known as "MW6" and identified as "EPL22" on the				

	Asses	sment Requirement		Reference/ Evidence	Comments	Compliance	Recommendation
			figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
23	Ambient / Discharge Water Quality Monitoring		Point known as WC-U on Werris Creek and identified as "EPL23" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
24	Ambient / Discharge Water Quality Monitoring		Point known as WC-D on Werris Creek and identified as "EPL24" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
25	Ambient / Discharge Water Quality Monitoring		Point known as QC-U on Quipolly " Creek and identified as "EPL25" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
26	Ambient / Discharge Water Quality Monitoring		Point known as QC-D on Quipolly Creek and identified as "EPL26" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
27	Water Quality Monitoring		Point known as "VWD2" and identified as "EPL27" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
32	Wet Weather Discharge / Discharge Water Quality Monitoring	Wet Weather Discharge / Discharge Water Quality Monitoring	Point known as "S818" and identified as "EPL32" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
33	Discharge Water Quality Monitoring Discharge for off-site agricultural use	Discharge Water Quality Monitoring Discharge for off-site agricultural use	Point known as "VWD1" and identified as "EPL33" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
34	Discharge Water Quality Monitoring Discharge for off-site agricultural use	Discharge Water Quality Monitoring Discharge for off-site agricultural use	Point known as "VWD3" and identified as "EPL34" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
35	Discharge Water Quality Monitoring	Discharge Water Quality Monitoring	Point known as "VWD4" and identified as "EPL35" on the figure titled "EPL 12290				

Item			Assessment	Requirement			Reference/ Evidence	Comments	Compliance	Recommendations
		Discharge for off- agricultural use		charge for off-site cultural use	received by	onitoring Points", the EPA via December 2015 380).				
3 LIMIT	CONDITIONS									
L1 Poll	ution of Waters									
L1.1	Except as may be section 120 of the			ndition of this licen rations Act 1997.	ce, the licensee m	nust comply with	Monitoring and lab report Email from Whitehaven Coal to EPA confirming non-compliance	An uncontrolled discharge occurred from dams titled EPA10 and EPA14 that commenced on 9 February 2020. The discharge events were 'Special Frequency' events as rainfall exceeded 39.2mm, therefore the discharges themselves were not non-compliances. One exceedance reported low pH 5.5 for discharge point EPL14 uncontrolled discharge, sampled on 18 <sup>th</sup> February 2020.  Event which was reported to the EPA and included in annual returns as required. Investigation of this event did not identify a source of the exceedance and no subsequent monitoring has identified similar results.	NC	Investigation indicates that the exceedance appears to be anomalous. No further action required.  Continue to monitor water quality during discharge events.
L2 Con	centration Limits						1			
L2.1	For each monitori the concentration concentration limi	of a pollutant disc	harged at that poi	nt, or applied to th			Not applicable.	Not Triggered.	NT	
L2.2	Where a pH quali specified ranges.	ty limit is specified	I in the table, the s	specified percenta	ge of samples mus	et be within the	Annual reviews 2017 and 2018.  Monitoring and lab reports	Lab reports provided - One exceedance reported low pH 5.5 for discharge point EPL14 uncontrolled discharge, sampled on 18 <sup>th</sup> February 2020. Other results indicated exceedances up /down stream during storm events (off site locations, results not correlated to discharge point results).	NC	As above.
L2.3	To avoid any dou		loes not authorise	the pollution of wa	iters by any polluta	ant other than	Not applicable.	Not Triggered.	NT	
L2.4	Water and/or Lan		imits				EPL Monitoring reports 2017 to 2020.	Monitoring data is compliant with the water and land concentration limits during the reported	С	WCC should continue monitoring with special attention
	Pollutant	Unit of measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit		audit period, with the exception of a low pH 5.5 at the point 14 in February 2020.		to pH at point 14.
	Oil and grease	Milligrams per litre	-	-	-	10				
	рН	рН	-	-	-	6.5 - 8.5				
	Total suspended solids	Milligrams per litre	20	35	-	50				

APPENDIX A3 - EPL
Compliance with Environment Protection Licence (EPL) 12290

tem			Assessment	Requirement			Reference/ Evidence	Comments	Compliance	Recommendations
	Point 33, 34, 35									
	Pollutant	Unit of measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit				
	Electrical conductivity	Microsiemens per centimetre	-	-	-	2000				
	Oil and grease	Milligrams per litre	-	-	-	10				
	pН	рН	6.5 - 8.5		-	9				
.5	millimetro (b) all praction	led from the seding narge occurs sole es over any conse cal measures have	nent basins provide ely as a result of ecutive 5 day perio	ed that: rainfall measured d immediately pri ed to dewater all s	d at the premises or to the discharge ediment dams with	that exceeds 39.2 e occurring; and nin 5 days of rainfall	EPL Monitoring reports 2017 to 2020.  Correspondence between Whitehaven Coal and EPA regarding discharge events Pre- and Post-rain inspections on dams	(a) No discharges occurred unless the 39.2mm of rain limit had been exceeded.  (b) Management plan requires that basins are flocked when rain events are coming.  ERM observed dewatering of SP2 during the field works as a result of predicted rain event due to occur on Saturday.  Site retains records of pre-rain inspections on their server. Post rain photographs are also taken showing post management actions.  Examples of photos of post rain maintenance works were also observed.  ERM tracked uncontrolled discharge photos to lab reports to confirm that testing had occurred. An exceedance of TSS was noted in the report and evidence was sighted of an email from Whitehaven Coal to the EPA with relevant lab reports attached. There had been 54mm of rain in the previous 5 days, therefore this was not recorded as a non-compliance.	C	
Was	te									
.1	The licensee mus the premises for s premises to be dis	torage, treatment	, processing, repro	cessing or dispos	sal or any waste g	enerated at the	Not applicable	Not Triggered.	NT	
.2	This condition onli premises if those				cessing or disposa	al of waste at the	Not applicable	Not Triggered.	NT	
Nois	e Limits									
.1	Noise generated f	rom the premises	must not exceed	the noise limits in	the table below.		Annual reviews 2017 and 2018.	No exceedances of noise criteria limits occurred	С	
	Locality and location	Day LAeq (1 minute)	5 Evening minute)	LAeq (15 Nigh		light LA1 (1 ninute) -	EPL Monitoring reports 2017 to 2020.	during the reported audit period.		
	The residence of the property "Talavera" marks as location "R96 Talavera" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via	ed	38	38	4	5				

		Assessment Requ	uirement		Reference/ Evidence	Comments	Compliance	Recommendations
email on 17 December 2015 (DOC16/111380).								
The residence known as Quipolly Railway Cottage" marked as location "R12 Quipolly Railway Cottage" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).	38	38	38	45				
The residence on the property "Hazeldene" marked as location "R24 Hazeldene" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).	37	37	37	45				
'The residence on the property "Kyooma" marked as location"R98 Kyooma" on the figure titled "EPL 12290 Licensed Monitoring points", received by the EPA via email on 17 December 2015 (DOC16/111380).	36	38	38	45				
Any other affected residence not owned by the licensee or its related companies.	35	35	35	45				
<ul><li>b) Evening is d</li><li>c) Night is define</li></ul>	ed as the period from the peri	om 7am to 6pm on and 6pm to 10pm on from 10pm to 7am c	any day. on any day.	led to the measurement level	Annual reviews 2017 and 2018. EPL Monitoring reports 2017 to 2020.	Not triggered	С	

Item	Assessment Requirement	Reference/ Evidence	Comments	Compliance	Recommendations
L4.3	The noise limits set out in the Noise Limits table apply under all meteorological conditions except for the following:  a) Wind speeds greater than 3 metres/second at 10 metres above ground level; or b) Temperature inversion conditions up to 12°C/100m and wind speeds greater than 2 metres/second at 10 metres above ground level; or c) Temperature inversion conditions greater than 12°C/100m.  Note: For the purposes of this condition, data recorded by the meteorological station identified as EPA Identification Point No. 9 and the lower level temperature sensor identified as EPA Identification Point No. 31 must be used to determine meteorological conditions.  Note: Temperature inversion conditions (vertical temperature gradient in degrees C/100m) are to be determined as [(TM2 - TM3 - 0.7) * 1.25], where TM2 is the temperature from sensor M2 (10m weather station at top of rehabilitated overburden emplacement) and TM3 is the temperature from sensor M3 (lower weather station at base of rehabilitated overburden emplacement). Reference: Spectrum Acoustics letter report Ref: 04035/4580 of 7 November 2012 to Werris Creek Coal.	Annual reviews 2017 and 2018.	Not triggered	С	
L4.4	Noise impacts where wind speed exceeds 3 metres per second at 10 metres above the ground must be addressed by:  a) documenting noise complaints received to identify any higher level of impacts or wind patterns;  b) where levels of noise complaints indicate a higher level of impact then actions to quantify and ameliorate any enhanced impacts where wind speed exceeds 3 metres per second at 10 metres above the ground must be developed and implemented.	Annual reviews 2017 and 2018.	Not triggered	С	
L4.5	The noise limits set by condition L4.1 of the licence do not apply where a current legally binding agreement exists between the proponent and the occupant of a residential property that:  a) agrees to an alternative noise limit for that property; or b) provides an alternative means of compensation to address noise impacts from the premises.  A copy of any agreement must be provided to the EPA before the proponent can take advantage of the agreement.	Annual reviews 2017 and 2018.	Not triggered	С	
L4.6	Determining Compliance  To determine compliance:  a) with the Leq (15 minute) noise limits in the Noise Limits table, the noise measurement equipment must be located:  i) approximately on the property boundary, where any dwelling is situated 30 metres or less from the property boundary closest to the premises; or  ii) within 30 metres of a dwelling facade, but not closer than 3m, where any dwelling on the property is situated more than 30 metres from the property boundary closest to the premises; or, where applicable  iii) within approximately 50 metres of the boundary of a National Park or a Nature Reserve.  b) with the LA 1(1 minute) noise limits in the Noise Limits table, the noise measurement equipment must be located within 1 metre of a dwelling facade.  c) With the noise limits in the Noise Limits table, the noise measurement equipment must be located:  i) At the most affected point at a location where there is no dwelling at the location; or at the most affected point within an area at a location prescribed by part (a) or part (b) of this condition.  Note: A non-compliance of the Noise Limits table will still occur where noise generated from the premises in excess of the appropriate limits measured:  i) at a location other than an area prescribed in part (a) and part (b); and/or ii) at a point other than the most affected point at a location.	Noise Management Plan. EPL Monitoring reports 2017 to 2020.	A summary of the attended noise monitoring program has been provided. All locations are monitored on a monthly basis.	C	

Item	Assessment Requirement	Reference/ Evidence	Comments	Compliance	Recommendations
L5.1	The overpressure level from blasting operations at the premises must not exceed 120dB (Lin Peak) at any time. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	Annual reviews 2017 and 2018. EPL Monitoring reports 2017 to 2020.	An exceedance of Condition 6 Schedule 3 of PA 10_0059 occurred with a blast undertaken on 4th May 2018, recording an overpressure greater than 120 dBL at two monitoring locations: 120.4dBL at Glenara (R11) and 120.2dBL at Kyooma (R98).  WCC undertook an investigation into the incident, with appropriate notifications to the EPA and DPIE.  Upon completion of the investigation, control measures have been implemented to prevent or mitigate against a similar exceedance in the future.	С	WCC should continue undertaking the control measures to make sure the exceedance occurred in May 2018 is not repeated in future years. Revision of plan to minimise risk of future exceedance.
L5.2	The airblast overpressure level from blasting operations at the premises must not exceed 115dB (Lin Peak) at any noise sensitive locations for more than five per cent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	Annual reviews 2017 and 2018. EPL Monitoring reports 2017 to 2020.	Same as L5.1 comments.	С	Same as L5.1 recommendations.
L5.3	Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 10mm/sec at any time at any noise sensitive locations. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	Annual reviews 2017 and 2018. EPL Monitoring reports 2017 to 2020.	No exceedances of ground vibration limits occurred during the reported audit period.	С	
L5.4	Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 5mm/sec at any noise sensitive locations for more than five per cent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	Annual reviews 2017 and 2018. EPL Monitoring reports 2017 to 2020.	Same as L5.3 comments.	С	
L5.5	Blasting operations at the premises may only take place between 9:00am-5:00pm Monday to Saturday. Blasting is not permitted on public holidays.  Blasting outside the hours specified above can only take place with the written approval of the EPA.	Annual reviews 2017 and 2018.	WCC fires all blasts in the middle of the day generally between 12:00pm and 2:00pm, when atmospheric mixing is generally highest.  Blasting records are included in data pack.	С	
L5.6	The hours during which blasting is permitted may be varied by the EPA upon consideration of the impact any variation may have on the amenity of the residents in the locality.	Blast Management Plan.	Not triggered	С	
L5.7	Blasting at the premises is limited to 1 blast on each day on which blasting is permitted.  Note: Additional blasts are permitted where the EPA and neighbours have been notified of the intended blast prior to the additional blast being fired; and  it is demonstrated to be necessary for safety reasons; or  the previous blast generated ground vibration levels of less than 0.5 mm per second at all non-project related residences.	Annual reviews 2017 and 2018. EPL Monitoring reports 2017 to 2020.	Not triggered	С	
L5.8	To determine compliance with condition(s) LS.1, LS.2, LS.3 and LS.4  a) Airblast overpressure and ground vibration levels must be measured and electronically recorded at any point within 30 metres of any non-project related residential building or other sensitive locations such as schools or hospitals for all blasts carried out in or on the premises; and b) Instrumentation used to measure the airblast overpressure and ground vibration must meet the requirements of Australian Standard AS 2187.2-2006.  Note: A breach of the licence will still occur where airblast overpressure or ground vibration levels from the blasting operations at the premises exceeds the limit specified in this licence at any "noise sensitive locations" other than the locations identified in the above condition.	Annual reviews 2017 and 2018. EPL Monitoring reports 2017 to 2020.	All the monitoring locations are at least 3 km distant from the properties.  7.2.1 Monitoring Locations (BMP): Four privately owned properties have been selected to monitor potential blasting impacts against compliance criteria and are representative of the most affected community locations in proximity to WCCM.  7.2.3 Blast Monitoring Equipment (BMP): The permanent blast monitors are fixed units installed at each community location and are installed in compliance with Australian Standard AS2187.2-2006. Monitoring is recorded via a website interface which enables blast results to be reported (by SMS and email), with the	С	

Item	Assessment Requirement	Reference/ Evidence	Comments	Compliance	Recommendations
			complete waveform/trace available via the website for detailed analysis) in near real time.		
6 Hou	urs of operation				
6.1	Activities at the premises, other than blasting (which is subject to the limits applied by condition LS.5), may be carried out 24 hours a day, 7 days per week.	Noted.	Noted.	С	None.
7 Pot	entially offensive odour				
-7.1	No condition in this licence identifies a potentially offensive odour for the purposes of section 129 of the Protection of the Environment Operations Act 1997.  Note: Section 129 of the Protection of the Environment Operations Act 1997 provides that the licensee must not cause or permit the emission of any Offensive odour from the premises but provides a defence if the emission is identified in the relevant environment protection licence as a potentially offensive odour and the odour was emitted in accordance with the conditions of a licence directed at minimising odour.	Complaints registers 2017 to 2019	The Site has received 15 odour related complaints during the audit period, primarily relating to a 'burning' smell attributed to spontaneous combustion odours:  June 2017 to June 2018 – 10 complaints;  June 2018 to June 2019 – 5 complaints; and  June 2019 to June 2020 – No complaints.  The mine has implemented procedures to minimise emissions of odour from spontaneous combustion through the use of water curtains or sprinklers to suppress hot areas; and uncovering and mining the higher risk workings quickly and soaking any hot coal immediately.  Workers utilise personal gas monitors at the boundary of the site in the direction of complaints when they occur to identify whether detectable hydrogen sulphide is present. ERM sighted photographs of multi-gas monitoring units on days when spontaneous combustions complaints had been received. No elevated gas readings were detected at the boundary.  It is noted that the higher risk of spontaneous combustion areas of the mine (the former underground workings) have now been mined, reducing the future odour emission risk profile of the mine.	NC	No actions required. The site has robust odour management process to mitiga odours from spontaneous combustion.
	rating conditions				
	tivities must be carried out in a competent manner				
01.1	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.	Site observations General review of management systems	No evidence to suggest that activities on-site are not being undertaken in a competent manner were observed during this assessment.	С	
O2 Act	tivities must be carried out in a competent manner				
02.1	Maintenance of plant and equipment				

Item	Assessment Requirement	Reference/ Evidence	Comments	Compliance	Recommendations
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.	Pulse preventative maintenance records	The preventative maintenance system utilised by the Site is called 'Pulse'. The system records all preventative maintenance tasks and creates electronic work orders for the maintenance team as required.  ERM reviewed Pulse records for a randomly selected dozer and pump system (pump 410). ERM also reviewed a sample of calibration records for blast monitors.  The work orders were detailed (including environmental noise control systems on the dozer) and included evidence that the required preventative maintenance had been completed on time.  No inspections by regulatory bodies raised preventative maintenance as a concern. ERM did not observe any examples of poorly maintained plant during the site inspection.	С	
O3 Du	st ·				
O3.1	All operations and activities occurring at the premises must be carried out in a manner that will minimise the emission of dust from the premises.	Air Quality and Greenhouse Gas Management Plan	According to: 8.1 Air Quality Management: In order to mitigate any potential air quality impacts from the WCC LOM Project, a number of air quality management controls will be implemented throughout the life of the operation. Particulate emission controls are detailed in Table 22.	С	
O3.2	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.	Air Quality and Greenhouse Gas Management Plan	According to: 8.1.13 Off-site Coal Transport: Coal is transported offsite to domestic and export markets by rail and road. The majority of coal is transported by trains (greater than 98%) at the Rail Load Out Facility. Coal is generally moist which mitigates dust generation. In addition, the rail load out bin is enclosed and each loaded train wagons is sprayed with water to create surface crust to minimise dust generation. In addition, the new generation wagons are designed to be taller and concave which reduces the coal surface area, thereby reducing wind erosion during rail transport.	С	
04	Effluent application to land Irrigation of Mine Void Water from Void Water Dam 1				
O4.1	Prior to the Licensee providing Irrigation water from Void Water dam 1, all necessary state and local government approvals must be obtained.	Water Management Plan (WMP).	Approval is as per WMP.  On 27 <sup>th</sup> June 2016 a water use approval was rejected to WCC from the DPI Water (photo taken). In the response from DPIE Water the letter said "The application will not be required if the amendment to the current Water Management Plan is approved"	С	

Item	Assessment Requirement	Reference/ Evidence	Comments	Compliance	Recommendations
O4.2	Pollution events associated with any aspect of the recipient's and or Licensees void water reuse program for irrigation, must be reported to the EPA in accordance with section 148 of the Act as soon as is practicable after the Licensee becomes aware of an incident.	Water Management Plan. EPL Monitoring reports 2017 to 2020.	Not Triggered	С	
O4.3	The licensee must cease the supply of void water for irrigation as soon as the licensee becomes aware of a misuse of effluent or failure to implement any aspect of the irrigation management plan.	Water Management Plan.	Not triggered.  Irrigation system is managed in a way that if water applicator is bogged it will stop. WCC has control of the discharge via inspection of discharge during pre and post irrigation.	С	
O4.4	The Licensee must review, with an annual inspection, the recipients use of the void water on an annual basis, to identify any corrective actions required to comply with or update the irrigation management plan. The supplier must keep records of sites visits, observations and corrective actions for at least four years.	Annual reviews 2017 and 2018. Water Management Plan.	Annual Reports provided on request.	С	
O4.5	The licensee must engage a suitably qualified person to make an annual assessment of the irrigation scheme and this report must be submitted to the EPA with the annual return.	Annual reviews 2017 and 2018. Water Management Plan.	Same as O4.4.	С	
O5 Oth	er operating conditions				
O5.1	Reversing beepers fitted to vehicles on the premises must be a low frequency broadband type, unless it can be demonstrated that operations will not contribute to off-site noise impacts.	Observations on-site.	Observed on-site (audible broadband reversing).	С	
O5.2	Blast Fume Offensive blast fume must not be emitted from the premises. Definition: Offensive blast fume means post-blast gases (whether visible or invisible, odorous or odourless) from the detonation of explosives at the premises that by reason of their nature, duration, character or quality, or the time at which they are emitted, or any other circumstances:  (i) are harmful to (or is likely to be harmful to) a person that is outside the premises from which it is emitted, or  (ii) interferes unreasonably with (or is likely to interfere unreasonably with) the comfort or repose of a person who is outside the premises from which it is emitted.	Audit site visit (photo)  Complaints registers 2017 to 2020.	Blast videos of all blasts, and "blast hazard analysis" undertaken for each blast (taken photo of the form).  1 complaint 2017, 2 complaints 2018 raised regarding blast dust/fume	С	
O5.3	Pollution Incident Response Management Plan  The licensee must maintain, and implement as necessary, a current Pollution Incident Response  Management Plan (PIRMP) for the premises. The PIRMP must document systems and procedures to deal  with all types of incidents (e.g. spills, explosions, fire) that may occur at the premises or that may be  associated with activities that occur at the premises and which are likely to cause harm to the environment.	PIRMP	The scope and content of the PIRMP complies with the requirements of this condition. It was observed that the previous Operations Manager's contact details were in the PIRMP (the change in roles has only occurred within the last few months).	C (Obs)	The operations manager's contact details should be updated in the PIRMP and amended copies issued where relevant.
O5.4	The licensee must keep the PIRMP on the premises at all times.	PIMRP Site Observations	Copies of the PIRMP were available for review with the Environment Manager and at the Admin office (sighted by ERM). Further copies are held at the Open Cut Examiner's office.	С	
5 Moni	toring and Recording Conditions	ı			
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.	Annual reviews 2017 and 2018. EPL Monitoring reports 2017 to 2020.	WCC retains its records.	С	None.
M1.2	All records required to be kept by this licence must be:  a) jn 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 authorise officer of the EPA who asks to see them.	Annual reviews 2017 and 2018. EPL Monitoring reports 2017 to 2020.	Air: March 2016 to May 2020 in summary HCAS & TEOM Monitoring xls. Data is legible.	С	

Item	Assessment Requirement				Reference/ Evidence	Comments	Compliance	Recommendations
						Noise: Monthly EPL Reports contain summary of noise results.  Blasting: Blast Databased 2016 -2019_May20  Water: 2016-2020_May20 Surface Water  Monitoring Results. Data is legible.  Irrigation: Irrigation monitoring 2017-20 (started 2017)		
M1.3	b) the time c) the poir d) the nar	e(s) on which the sample we(s) at which the sample went at which the sample was me of the person who colle	vas taken; as collected; a taken; and cted the sample.	ollected for the purposes of	Annual reviews 2017 and 2018. EPL Monitoring reports 2017 to 2020.	ERM reviewed a sample of CoC for water, air, groundwater in emails retained on record. Samples were compliance.	С	
	quirement to monitor cond			sint number) the liesesse				
M2.1		g and obtaining results by a must use the sampling me	analysis) the concentration	ont number), the licensee of the first of each pollutant specified and sample at the frequency,	EPL Monitoring reports 2017 to 2020.	WCC has undertaken the sampling of all the monitoring points during the reported audit period.	С	
M2.2	Air Monitoring Requirements				EPL Monitoring reports 2017 to	Same as M2.1.	С	
	POINT 28, 29, 30 Pollutant PM10 Solid particles	Units of measure micrograms per cubic metre Grams per square metre per month	Frequency Every 6 days Continuous	Sampling method AM-18 AM-19	2020.			
M2.3	POINT 10, 12, 14, 32 Pollutant Conductivity Nitrate Nitrogen (total) Oil and Grease pH Phosphorus (total) Reactive phosphorus Total suspended solids  POINT 16, 27 Pollutant Conductivity Nitrate Nitrogen (total) Oil and Grease pH Phosphorus (total) Sitrate Nitrogen (total) Oil and Grease pH Phosphorus (total) Reactive phosphorus Total suspended solids  POINT 17, 18, 19, 20, 22,	Units of measure Microsiemens per litre Milligrams per litre Milligrams per litre Milligrams per litre pH Milligrams per litre pH Milligrams per litre	Frequency Special Frequency 1  Frequency Every 3 months	Sampling method Grab sample	EPL Monitoring reports 2017 to 2020. Annual reviews 2017 and 2018.	POINT 10, 12, 14, 32  The sampling has been undertaken in a special frequency (1):  • January 2020 • February 2020 (only points 10 and 14)  POINT 16, 27  The sampling has been undertaken every 3 months approximately:  • August 2017 • December 2017 • February 2018 • November 2018 • February 2019 • May 2019 • August 2019 • November 2019 • November 2019 • February 2020	C	
	Pollutant Conductivity Nitrate Nitrogen (total)	Units of measure Microsiemens per litre Milligrams per litre Milligrams per litre	Frequency Every 6 months Every 6 months Every 6 months	Sampling method Representative sample Representative sample Representative sample		POINT 17, 18, 19, 20, 22, 21 The sampling has been undertaken every 6 months approximately:		

Assessment Requirement				Reference/ Evidence	Comments	Compliance	Recommendations
Oil and Grease pH Phosphorus (total)	Milligrams per litre pH Milligrams per litre	Every 6 months Every 6 months Every 6 months	Representative sample Representative sample Representative sample		<ul><li>September 2017</li><li>March 2018</li></ul>		
Reactive phosphorus Standing water level	Milligrams per litre Milligrams per litre	Every 6 months Every 6 months	Representative sample Representative sample		<ul><li>September 2018</li><li>March 2019</li></ul>		
POINT 23, 24, 25, 26					September 2019		
Pollutant Conductivity Nitrate Nitrogen (total)	Units of measure Microsiemens per litre Milligrams per litre Milligrams per litre	Frequency Special Frequency 2 Special Frequency 2 Special Frequency 2	Sampling method Special Method 1 Special Method 1 Special Method 1		• March 2020 POINT 23, 24, 25, 26		
Oil and Grease pH Phosphorus (total)	Milligrams per litre pH Milligrams per litre	Special Frequency 2 Special Frequency 2 Special Frequency 2	Special Method 1 Special Method 1 Special Method 1		The sampling has been undertaken in a special frequency (1):		
Reactive phosphorus Total suspended solids	Milligrams per litre	Special Frequency 2 Special Frequency 2 Special Frequency 2	Special Method 1 Special Method 1 Special Method 1		<ul><li>January 2020</li><li>February 2020</li></ul>		
POINT 33, 34, 35 Pollutant	Units of measure	Fraguency	Sampling method		POINT 33, 34, 35		
Aluminium (dissolved) Arsenic (dissolved)	Milligrams per litre Milligrams per litre	Frequency Special Frequency 3 Special Frequency 3	Sampling method Grab sample Grab sample		The sampling has been undertaken in a special frequency (3 and 4):		
Barrium (dissolved) Beryllium (dissolved)	Milligrams per litre Milligrams per litre	Special Frequency 3 Special Frequency 3	Grab sample Grab sample		<ul><li>December 2017 (only point 33)</li><li>January 2018</li></ul>		
BOD Cadmium (dissolved) Chromium (dissolved)	Milligrams per litre Milligrams per litre Milligrams per litre	Special Frequency 3 Special Frequency 3 Special Frequency 3	Grab sample Grab sample Grab sample		<ul><li>February 2018</li><li>March 2018 (only point 33)</li></ul>		
Cobalt (dissolved) Copper (dissolved) Electrical conductivity	Milligrams per litre Milligrams per litre Microsiemens per	Special Frequency 3 Special Frequency 3 Special Frequency 4	Grab sample Grab sample Grab sample Grab sample		<ul> <li>April 2018 (only point 33)</li> <li>June 2018 (only point 33)</li> </ul>		
Iron (dissolved) Lead (dissolved) Magnesium Manganese (dissolved) Oil and grease pH Potassium Selenium (dissolved) Sodium Total dissolved solids Vanadium (dissolved) Zinc (dissolved) Note: For the purposes of this storage dam(s) on the p For the purposes of this planned to be provided then sampling is not req For the purposes of this providing mine void water	centimetre Milligrams per litre Condition, Special Frecase not more than 12 hours condition, Special Frequence remises occurring. condition, Special Frequence for agricultural purposes with	Special Frequency 3 Special Frequency 4 Special Frequency 3 Special Frequency 5 Special Frequency 5 Special Frequency 6 Special Frequency 7 Special Frequency 8 Special Frequency 9 Specia	Grab sample Trab sample Grab sample Grab sample Grab sample Grab sample Trab s		<ul> <li>July 2018 (only point 33)</li> <li>August 2018 (only point 33)</li> <li>September 2018 (only point 33)</li> <li>November 2018 (only point 33)</li> <li>December 2018 (only point 33)</li> <li>January 2019 (only point 33)</li> <li>February 2019 (only point 33)</li> <li>March 2019 (only point 33)</li> <li>May 2019 (only point 33)</li> <li>June 2019 (only point 33)</li> <li>August 2019 (only point 33)</li> <li>September 2019 (only point 33)</li> <li>October 2019 (only point 33)</li> <li>December 2019 (only point 33)</li> <li>January 2020</li> </ul>		
For the purposes of this ambient/discharge wate (Werris Creek and/or Qu 32) overflowing in any ir	condition, Special Method 1 r quality monitoring points (i. uipolly Creek) as those wet vidividual discharge event.	.e. points 23-26) locate d in weather discharge points (i.	same drainage catchment e. points 10, 12, 14 and/or				

Item		As	sessment Requir	rement		Reference/	Comments	Compliance	Recommendations
M2.4				6 and 27 is not required lable to collect a sample.		EPL Monitoring reports 2017 to 2020. Annual reviews 2017 and 2018.	Not triggered	С	
M2.5				7, 18, 19, 20, 21 and 22 ater is available to collect		EPL Monitoring reports 2017 to 2020. Annual reviews 2017 and 2018.	Not triggered	С	
M3 Tes	sting methods – conc	entration 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.  Note: The Protection of the <i>Environment Operations (Clean Air) Regulation 2010</i> 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'.				for the testing of the gy which a condition of on of this licence, any at testing prior to the lires testing for certain		According to the AQGHGMP:  9. Monitoring  Monitoring is undertaken in accordance with WCC's EPL 12290 and PA 10_0059 conditions, which specify required methods of sampling, analysis and frequency of monitoring.  Air quality monitoring locations will be reviewed, and if necessary, modified in consultation with DoP and EPA over the life of the project, in response to monitoring results and changes in the mining operations.	С	
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.			Water Management Plan	WMP references approved methods.	С			
M4 We	ather monitoring								
M4.1	Weather Monitoring F	Requirements				Air Quality and Greenhouse Gas Management Plan (AQGHGMP).	According to the AQGHGMP:	С	
	Parameter	Units of Measure	Frequency	Averaging Period	Sampling method	managonioni i ian (i igonionii ).	9.5 Meteorology  WCC maintains an on-site weather station		
	Rainfaill	Millimetres per hour	Continuous	1 hour	AM-4		identified as "M2" (EPL 12290 EPA ID #9) located on the top level of the overburden		
	Wind speed @ 10 metres	Metres per second	Continuous	15 minute	AM-2 & AM-4		emplacement (at final rehabilitated landform		
	Wind direction @ 10 metres	Degrees clockwise from true north	Continuous	15 minute	AM-2 & AM-4		surface RL445.5m) as well as "M3" (EPL 12290 EPA ID #31) lower level temperature sensor (base of overburden emplacement area at		
	Temperature @ 2 metres	Degrees Celsius	Continuous	15 minute	AM-4		RL373.5m).		
	Temperature @ 10 metres	Degrees Celsius	Continuous	15 minute	AM-4		Table 27: WCC "M2" Weather Station meteorological parameters.		
	Sigma theta @ 10 metres	Degrees clockwise from true north	Continuous	15 minute	AM-2 & AM-4		This table shows all the parameters that the weather monitoring station requires.		
	Solar radiation	Watts per square metre	Continuous	15 minute	AM-4				
	Additional requirements – siting	-	-	-	AM-1, AM-4 & special method 2				
	Additional requirements - measurement	-	-	-	AM-1, AM-4 & special method 2				

Item		As	sessment Require	ement		Reference/ Evidence	Comments	Compliance	Recommendations
M4.2	POINT 31 Parameter	Units of Measure	Frequency	Averaging Period	Sampling method	Air Quality and Greenhouse Gas Management Plan (AQGHGMP).	Same as M4.1.	С	
	Temperature @ 2 metres	Degrees celcius	Continuous	15 minute	AM-4 & special method 2				
	meteorological monit maintenance/service EPA before any sam calibrated at least on equipment location, of hardware itself must provided with the mo	coring equipment and of procedures and sche pling or analysis is cauce every 12 months. Apperating and maintentalso be submitted in vinitoring data on reques	details of that equip dules must be subr rried out. The mete Any proposed chan ance/service proce vriting and approve	ethod 2 means that the lot ment, the equipment openited in writing and appropriate appropriate and method in writing equipment to the meteorological dures and schedules, or d in writing by the EPA. Office software compatib	eration and roved in writing by the uipment must be all monitoring to the monitoring The EPA is to be				
M5 Red	cording of pollution c	omplaints							
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.  The record must include details of the following:		Internal and external complaints registers 2017 to 2019	ERM sighted complaints records retained from 2005 to the present.	С				
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.			The internal complaints register included all the fields required by this condition.	С				
M5.3	The record of a comp	olaint must be kept for	at least 4 years aft	er the complaint was ma	ade.	Complaints registers 2005 to 2020	ERM sighted complaints records retained from 2005 to the present.	С	
M5.4	The record must be p	produced to any author	orised officer of the	EPA who asks to see the	em.	Not applicable	Not triggered.	NT	
M6 Tel	ephone complaints li	ne							
M6.1	receiving any compla		the public in relation	one complaints line for the contract on to activities conducted ne licence.		Website Signage	The site has a 24 hour complaints line in place to receive complaints from members of the public.	С	
M6.2			Website Signage	ERM tested the complaints number published on the Werris Creek Mine Whitehaven Coal website. The complaints number was not functional. It is noted that the complaints number on the sign at the entrance to the mine was correct.	NC	Update the website complaints line number to reflect the correct phone number.			
M6.3	The preceding two co	onditions do not apply	until 3 months afte	r: the date of the issue o	f this licence.	Not applicable.	Noted.	Noted	
M7 Red	quirement to monitor	volume or mass					I	<u> </u>	I
M7.1	For each discharge p	point or utilisation area	specified below, th	ne licensee must monitor	·.	EPL Monitoring reports 2017 to	Meters sighted.	С	
	a) the volume of liquids discharged to water or applied to the area;		2020. Annual reviews 2017 and 2018.	WCC monitors points 33, 34 and 35 in volume (mg/L) at special frequencies (3 and 4).					

ltem			Assessment	Requirement		Reference/ Evidence	Comments	Compliance	Recommendations
	POINT 33, 34, 35								
	Frequency	Ur	nits of Measu	ire	Sampling method				
	Daily during any disch	arge Ki	ilolitres per day	у	By Calculation (volume flow rate or pump capacity multiplied by operating time)				
Bla	sting	<u>'</u>							
3.1	To assess compliance with the blast limits presented at L5, blast monitoring accordance with L5 at the following locations:  Within 30 metres of the residences at the locations marked as "R98 Kyooms Kurrara St, Werris Ck", and within 30 metres of the location marked as "R92 figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA (DOC16/111380).		oma", "R11 Glenara" and "R62 43 R92 Werris Creek Middle" on the	EPL Monitoring reports 2017 to 2020. Blast Management Plan (BMP).	WCC undertakes blast monitoring at those receptors with those descriptors.	С			
	Parameter	Units of Mo	leasure	Frequency	Sampling method				
	Blast noise	dB (Lin Pea	ak)	Every blast	Type 1 Noise/Blast				
	Blast vibration	Mm/s		Every blast	Geophone logger or similar				
9.1 Repo	To assess compliance with the noise limits presented in the Noise Limits table, attended noise monitoring must be undertaken in accordance with the condition titled Determining Compliance, outlined above, and:  a) at the locations labelled "R24 Hazeldene", "R12 Quipolly Railway Cottage", "R96 Talavera", "R98 Kyooma" and "R57 33 Kurrara St, Werris Ck" (non project related residence number 57) on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380); b) occur monthly in a reporting period; i) occur during each day, evening and night period as defined in the NSW Industrial Noise Policy for a minimum of: ii) 1 hour during the day; and iii) 1 hour during the evening or night.  Note: The frequency of monitoring may be varied by the EPA once the variability of the noise impact is established.		Noise Management Plan. EPL Monitoring reports 2017 to 2020.	Data for Location R57 missing from EPL monitoring reports presented on project website, data was collected (based on review of compliance reports) Data missing for June to December 2017 and January and March 2018.  Data was collected for those receptors but it was not uploaded to the website. Data should be provided on the website during the EPL reporting according to 66 (6) of POEO: Requirements for publishing pollution monitoring data (EPA 2013) General Requirements for Publishing Monitoring Data.	C (Obs)	Ensure all data is uploaded the website.			
	Annual return docume	ents							
3.1.1	<ol> <li>a Statement of</li> <li>a Monitoring a</li> <li>a Statement of</li> </ol>	f Compliance, nd Complaints S f Compliance - L f Compliance - L f Compliance - f Compliance - R f Compliance - E rting period, the	Summary, Licence Conditi Load based Fe Requirement to Requiremental	tions, ee, . to Prepare Pollution Depuis Publish Pollution Management Syst	the approved form comprising: on Incident Response Management Monitoring Data; and ems and Practices. a copy of the form that must be	Annual Returns 2017 to 2020	Annual returns were completed in full in the approved forms during each year of the audit period.	С	

Item	Assessment Requirement	Reference/ Evidence	Comments	Compliance	Recommendations
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.	Emails confirming Annual Return Submission 2018 to 2020 Annual Returns 2017 to 2020	Annual returns were prepared and submitted in each year within the audit period.	С	
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.	Not applicable	Not Triggered	NT	
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.	Not applicable	Not Triggered	NT	
R1.5	The Annual Return for the reporting period must be supplied to the EPA via eConnect EPA or 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').	Emails confirming Annual Return Submission 2018 to 2020	The submission times for Annual Returns are summarised below:  • 2020 – on 29 <sup>th</sup> May 2020 (due date 30 <sup>th</sup> May 2020);  • 2019 – on; 30 <sup>th</sup> May 2019 (due date 30 <sup>th</sup> May 2019); and  • 2018 – on 31 <sup>st</sup> May 2018 (due date 30 <sup>th</sup> May 2018).  The late submission of an Annual Return in 2018 related to a misunderstanding at executive level with regard to electronic signoff by Executive general Manager . Management reported that they have historically worked to an 'end of May' deadline, when the statutory submission date is on 30 <sup>th</sup> May each year.	NC	Communicate with Environmental Team at Whitehaven confirming Annual Return submission date is 30 <sup>th</sup> May each year. Update calendars accordingly.
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.	Annual returns	Copies of annual returns are maintained as required.	С	
R1.7	Within the Annual Return, the Statements 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.	Annual Returns 2017 to 2020	ERM sighted copies of Annual Returns for 2017 to 2020.	С	
R2 Not	tification of environmental harm				
R2.1	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.	Annual Returns 2017 to 2020 Correspondence between Whitehaven Coal and the EPA across late February 2020	One exceedance of pH criteria occurred during an overflow event at a stormwater retention dam on 18 <sup>th</sup> February 2020 following 54mm of rain in the preceding five days. This is the only event considered to have caused environmental during the audit period. ERM sighted evidence that the Site	С	

Item	Assessment Requirement	Reference/ Evidence	Comments	Compliance	Recommendations
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.	Correspondence between Whitehaven Coal and the EPA across late February 2020	ERM sighted correspondence dated 19 <sup>th</sup> February informing the EPA of the pH exceedance described in Condition R2.1. The incident occurred on 18 <sup>th</sup> and Whitehaven Coal became aware of the exceedance on the 19 <sup>th</sup> following laboratory analysis. The EPA was informed of the incident on the same day.	С	
R3 Wr	itten 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, c) 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.	Not applicable	Not Triggered	NT	
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.	Not applicable	Not Triggered	NT	
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.	Not applicable	Not Triggered	NT	
N3.4	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.	Not applicable	Not Triggered	INT	
R4.1	A noise compliance assessment report must be submitted to the EPA within 30 days of the completion of the monthly monitoring. The assessment must be prepared by a suitably qualified and experienced acoustical consultant and include:  a) an assessment of compliance with noise limits presented in the Noise Limits table; and  b) an outline of any management actions taken within the monitoring period to address any exceedences of the limits contained in the Noise Limits table.	Noted	Consultants are taking more than 30 days to create report.	NC	WCC should review noise monitoring supplier contract to require reporting completed within 30 days.

Item		Assessment Requirement		Reference/ Evidence	Comments	Compliance	Recommendations		
R4.2	The licensee must report any exceedence of the licence blasting limits to the regional office of the EPA as soon as practicable after the exceedence becomes known to the licensee or to one of the licensee's employees or agents.			Noted	An exceedance of Condition 6 Schedule 3 of PA 10_0059 occurred with a blast undertaken on 4th May 2018, recording an overpressure greater than 120 dBL at two monitoring locations: 120.4dBL at Glenara (R11) and 120.2dBL at Kyooma (R98).  WCC undertook an investigation into the incident, with appropriate notifications to the EPA and DPIE.	С			
	eral Conditions py of licence kept at the premis	es or plant							
G1.1	A copy of this licence must be kept at the premises to which the licence applies.			EPL 12290	Copy of licence sighted with Environment Officer.	С			
G1.2	The licence must be produced to	any authorised officer of the EF	PA who asks to see it.	Not applicable	Not triggered.	NT			
G1.3	The licence must be available for inspection by any employee or agent of the licensee working at the premises.			Not applicable	Not triggered.	NT			
G2 Ot	her general conditions								
G2.1	Completed programs			Not applicable.	Noted.	NT			
	Program	Description	Completed Date						
	PRP 1: Noise Monitoring and Assessment Program	This PRP requires the licensee to undertake a noise monitoring and assessment of the impacts of typical construction and mining activities on the premises.	15-May-2008						
	PRP 2: Coal Mine Particulate Matter Control Best Practice	Requires licensee to conduct a site specific best management practice (BMP) determination to identify ways to reduce particulate emissions.	27-June-2012						
	Particulate Matter Control Best Practice Implementation - Wheel Generated Dust	Implementation of particulate matter best management practices to address wheelgenerated dust.	13-August-2014						
	Particulate Matter Control Best Practice Implementation - Disturbing and Handling Overburden under Adverse Weather Conditions	Implementation of particulate matter best management practices to address the handling of overburden during adverse weather.	13-August-2014						
	Particulate Matter Control Best Practice Implementation - Trial of Best Practice Measures for Disturbing and Handling Overburden	Investigation to establish best practice measures for the handling of overburden. Investigation to establish best practice measures for the handling of overburden.	14-April-2014						
	Coal Mine Wind Erosion of Exposed Land Assessment	Calculate the stabilised and disturbed surface areas (in	28-August-2015						

Item	Assessment Requirement	Reference/ Evidence	Comments	Compliance	Recommendations
	hectares) within the premises as of 30 June 2014, against the predictions within the licensee's Environmental Assessment or Environmental Impact Statement for the premises.				
8	Pollution Studies and Reduction Programs				
U1.1	U1 Void Water Dam 1  The Licencee must complete the following repairs and clean-up to void water dam 1:  Action 1: The dam walls at VWD 1, where heavy erosion has occurred due to a blowout of high pressure hoses, is to be repaired to ensure that dam wall stability is maintained and further erosion is prevented from occurring.  Action 2: All hydrocarbon/chemical spills on the soil, under and around the pumps and generators must be cleaned-up and remediated. The waste generated from this clean-up/remediation must be classified prior to disposal off-site and then disposed of at a lawful waste facility. Action 1 and 2 must be completed by 5pm on 21 February 2020.	Audit site visit (taken photos).  EPL Monitoring reports 2017 to 2020.	Action 1: Photographic evidence of re-instated bank 10/12/19 Action 2: Lab reports observed dated 17/12/2019 with validation sample reports showing no remaining hydrocarbons. Land farmed on-site and disposed of as GSW 11/05/20 report shows below criteria. Waste classification completed. 9.6T transported to Narrabri tip	С	
U2	Oil Water Separator U2.1  The current inground oil water separator must be decommissioned and replaced with an above ground system that;  1. Is roofed and bunded (roof can be mobile)  2. Provides for stormwater Bypass if required.  3. The type of separator selected is based volume generation needs (Coalescing plate separator or Hydrocyclone oil separator) and the best possible treatment for that volume generation available  4. Is capable of pre-treating oil, grease, silt, detergents, NFR (Suspended solids), COD (chemical oxygen demand) and pH prior to collection for disposal.  These works must be completed by 5pm on 31 July 2020. The Decommissioned inground unit must be removed and lawfully disposed of, at a lawful waste facility by 5pm on the 31 July 2020.	N/A	Outside audit period	NT	
9	Special Conditions E1 Three Yearly Independent Noise Audit				
E.1.1	The licensee must provide the EPA with a copy of any Noise Audit and Independent Environmental Audit Report required by condition 4 of Schedule 3 and conditions 8 and 9 of Schedule 5 of the Werris Creek Mine Extension Project Approval (No. 10_0059). If the Noise Audit and Independent Environmental Audit Report do not incorporate the following information or assessments, then the licensee must also provide a separate report to the EPA that incorporates the following:  (a) An assessment of noise emissions from the premises against the noise limits established by the Project Approval (No. 10_0059), as well as against the long term noise goal and noise acquisition criteria established within Project Approval No. 10_0059 that has been completed in accordance with the procedures defined in the NSW Industrial Noise Policy and any relevant Application Notes published by the EPA;  (b) An evaluation of current mine noise impacts at all non-project related receptors and the noise mitigation practices that have been implemented at the premises against the best available economically achievable technology and current best practice principles for minimising noise emissions; and  (c) Where noise impacts at any affected non-project related receptor	N/A	Noise audit reports have been submitted with the IEA as required.  Part c negotiated agreements have not been triggered.	С	

Item	Assessment Requirement	Reference/ Evidence	Comments	Compliance	Recommendations
	exceeds the long term noise goal established by condition 4 of Schedule 3 of Project Approval 10_0059, the licensee must provide documented evidence that demonstrates that reasonable attempts have been made to reach a negotiated agreement with all relevant affected receptors within the last 3 years.  The reports required by this condition must be submitted to the EPA's Armidale office within 6 weeks of the 30 June 2014, and every three years thereafter.  Note: For the purposes of this condition, a privately owned property that is subject to a current and legally biding negotiated agreement between the licensee and the relevant property owner, is considered project related, as is any property or residence held in the ownership of the licensee or its associated companies.				
E1.2	If the reports required by E1.1 above indicate that non-project related receptors continue to receive impacts that exceed the long term noise goal established by condition 4 of Schedule 3 of Project Approval 10_0059, then the licensee must provide the EPA with a report detailing the actions it will take during the next three year period, to further reduce noise impacts from the mine. The report must:	N/A	Completed outside of audit period.	NT	
	<ul> <li>a) Provide details of any trials, tests or research that it will commission in an attempt to develop new or innovative noise mitigation technologies or management practices;</li> </ul>				
	<ul> <li>Detail the nature of any works that will be carried out at the premises or at the relevant receptor locations to further reduce noise impacts;</li> </ul>				
	c) Provide timelines and provisional costings for the proposed actions or works;				
	<ul> <li>d) Provide an analysis where possible of the potential noise reductions that the proposed actions are likely to achieve; and</li> </ul>				
	<ul> <li>Define any additional noise monitoring programs that might be required to measure/validate the performance of the proposed mitigation actions.</li> </ul>				
	The report required by this condition must be submitted to the EPA by 31 August 2014 and every three years thereafter until noise emissions from the premises meet the long term noise goal established by condition 4 of Schedule 3 of Project Approval 10_0059.				

## APPENDIX A2 STATEMENT OF COMMITMENTS

Document details	
Document title	Appendix A2 Statement of Commitments
Document subtitle	Compliance with Project Approval 10_0059
Project No.	0552611
Date	22 July 2020
Version	1.0
Author	Robert Smith, Aaron McKenzie
Client Name	Whitehaven Coal Limited

## **Table A.2: Statement of Commitments**

Action No	Action	Timing	Reference/ Evidence	Comments	Compliance Status	Recommendations
1. Envi	ronmental Management System					
Desired	d Outcome: A systematic set of documents are in place to guide the planning and imple	mentation of all environmental mana	agement strategies.			
1.1	Incorporate the environmental procedures in an on-site management system.	As required.	Various management systems, plans and strategies which make up the Whitehaven Coal Environmental Management System	ERM sighted evidence that Whitehaven has developed and implemented an environmental management system that manages the key environmental aspects of the mine.	С	
1.2	Implement the following management plans;  • Mining Operations Plan (Rehabilitation Management Plan)  • Heritage Management Plan  • Site Water Management Plan  • Noise Management Plan  • Blast Management Plan  • Air Quality and Greenhouse Gas Management Plan  • Biodiversity and Offset Management Plan  • Waste and Hydrocarbon Management Plan	Ongoing	Mining Operations Plan (Rehabilitation Management Plan) Heritage Management Plan Site Water Management Plan Noise Management Plan Blast Management Plan Air Quality and Greenhouse Gas Management Plan Biodiversity and Offset Management Plan Waste and Hydrocarbon Management Plan	ERM sighted all of the plans detailed in this condition and evidence of their implementation during the site walkover.	С	
2. Grou	undwater					
Desired	d Outcome: Effective management of the potential contamination and/or reduction in ava	ailability of groundwater resources.				
2.1	Implement impact mitigation measures in accordance with an approved Site Water Management Plan.	As defined by the Site Water Management Plan.	Water Management Plan (WMP).	According to the WMP: 6.3.4 Former Underground Workings Water Management Active dewatering of the former underground workings ceased in July 2013 as mining advanced through the former dewatering bore. Dewatering of the former underground workings continues passively as seepage into the open cut pit and is managed as part of pit dewatering activities. WCC must balance dewatering of the underground to minimise the risk of in rush into the pit and boggy working conditions while maintaining water in the underground to prevent spontaneous combustion developing into underground fires. WCC actively uses water curtains and sprinklers to saturate the ground above the former underground workings to exclude oxygen and cool the ground temperature to below that which the coal seam would spontaneously combust.	С	

Action No	Action	Timing	Reference/ Evidence	Comments	Compliance Status	Recommendations
				Pit misting system utilised to manage void water volume via evaporation, observed operational during site visit.		
2.2	Undertake groundwater monitoring in accordance an approved Site Water Management Plan.	As defined by the Site Water Management Plan.	Water Management Plan.	According to the WMP: 7.4 Groundwater Monitoring Program WCC has established the groundwater- monitoring network.	С	
2.3	Implement additional assessment, land owner notification and contingency or compensatory measures in accordance with an approved Site Water Management Plan.	As defined by the Site Water Management Plan.	Not applicable.	Not Triggered	NT	
Desired	Outcome: Prevent Accumulation of void water within the final landform which may impact	ct on final land form and land use.				
2.4	Backfill overburden into the final void above the equilibrium water level.	Following the cessation of mining.	Not applicable.	There is not a final void in place at the moment. Not triggered.	NT	
3. Surfa	ce Water					
Desired	Outcome: Effective management of the potential contamination and/or reduction in avai	ability of surface water resources.				
3.1	Construct and maintain surface water management infrastructure of the Mine in accordance with an approved Site Water Management Plan.	Ongoing.	Water Management Plan.	According to WMP: 6 Management Strategies and Measures. 6.2 Surface Water Management WCC undertakes several controls and infrastructures to manage the surface water.	С	
3.2	Implement impact mitigation measures in accordance with an approved Site Water Management Plan.	As defined by the Site Water Management Plan.	Water Management Plan.	According to WMP: 6 Management Strategies and Measures. In order to mitigate any potential water impacts from the WCC LOM Project, a number of surface water and groundwater management controls will be implemented throughout the life of the operation. WCC details all the management controls in section 6.	С	
3.3	Undertake surface water monitoring in accordance an approved Site Water Management Plan.	As defined by the Site Water Management Plan.	Water Management Plan.	According to WMP: 7.1 Surface Water Management Plan. Surface water monitoring at WCC is structured for discharge monitoring (dirty water controlled or wet weather), and routine (quarterly) monitoring of clean, dirty and void water dams and offsite streams. Non-routine monitoring also occurs on an ad hoc basis to determine immediate water quality of dams onsite.	С	
Desired	Outcome: Prevention of void water discharge off site.					
3.4	Operate void water dams with sufficient freeboard to prevent discharge during high rainfall events.	Ongoing.	Water Management Plan.	According to WMP: 6.3.6 Void Water Dam Storage Management 6.3.8 High Water Level Alarms WCC currently uses four dedicated void water dams, an additional temporary storage and a former council gravel quarry pit for surface storage of void water.	С	
				There is also high water level alarms in three of the void water dams.		

Action	Timing	Reference/ Evidence	Comments	Compliance Status	Recommendations
rrigation assessment for specific irrigation campaigns in accordance irements.	Prior to commencement of off- site irrigation.	Water Management Plan. Audit site visit (taken photos)	A letter from SLR on 7 <sup>th</sup> May 2020 shows there was a final irrigation application on 18 <sup>th</sup> March 2019.	С	
rrigation assessment to the EPA for review and approval.	Prior to commencement of offsite irrigation.	Water Management Plan. Audit site visit (taken photos)	ERM sighted the irrigation assessments and EPA approval.	С	
		"" I 550 )			
minimise, mitigate or offset impacts (in that hierarchical order) on native impact avoidance, minimisation, mitigation and offset measures of	ve vegetation (including the two ider Ongoing.	ntified EECs), native fauna Biodiversity and	Whitehaven Coal sent a letter to DP&I on	С	
Biodiversity Offset Strategy and Biodiversity and Offset Plan (BOMP) for the Mine in consultation with the OEH, DPE and		Offset Management Plan 2013 Biodiversity and Offset Management Plan 2016 (Submitted to but unapproved by DPE, OEH, DoEE) EPBC Compliance Reports 2017 to 2019	22/6/2012 seeking approval for BOMP. The BOMP was approved by the DP&I on 30/8/2013. Section 6.4 of the Werris Creek Coal Mine Annual Reviews discusses the management of the offset areas.  EPBC Compliance report discuss the implantation of the Off-set strategy.		
on the following activities in the BOMP.  ification and demarcation of areas to be cleared.  ntion of felled trees for subsequent use during rehabilitation activities ification of biological resources within the disturbance area including at resources such as hollows, stag trees and coarse woody debris, he availability of endemic seed.  collection.  toring and inspection programs.  bus weed management.	As defined within the BOMP.	Biodiversity and Offset Management Plan 2013 Biodiversity and Offset Management Plan 2016 (Submitted to but unapproved by DPE, OEH, DoEE)	All items in this condition were included in the scope of the BOMP.	С	
eation of a stable final landform on the Pit Top Area (and surrounding lon.	ong-term disturbance areas, ie, ven	tilation shaft areas, Rejec	t Emplacement Area and brine storage ponds), avail	able for the propos	ed future uses(s) of agricultu
abilitation in accordance with an approved Rehabilitation Management Mining Operations Plan (MOP).	Ongoing.	MOP 2015	Observations made during the site visit and the content of the MOP indicate that the Site is being progressively rehabilitated. The site is currently within 3 hectares of the MOP targets.	С	
ain Aboriginal heritage values on site.					
Heritage Management Plan for the Mine in consultation with OEH	Ongoing.	Heritage Management Plan 2014	The original Heritage Management Plan was sent to the DPE in October 2012 for approval. The Heritage Management Plan disclosed on the WHC website is dated July 2014.  The only significant amendment to the heritage management plan between the version issued in 2012 and the current plan relate to the relocation of the Narrawolga Axe Grinding Groove Rocks to the Willow Tree Visitor Information Centre on 15th April 2015.	С	
				The only significant amendment to the heritage management plan between the version issued in 2012 and the current plan relate to the relocation of the Narrawolga Axe Grinding Groove Rocks to the Willow Tree Visitor Information Centre on	The only significant amendment to the heritage management plan between the version issued in 2012 and the current plan relate to the relocation of the Narrawolga Axe Grinding Groove Rocks to the Willow Tree Visitor Information Centre on 15th April 2015.  The project involved detailed consultation with

Action No	Action	Timing	Reference/ Evidence	Comments	Compliance Status	Recommendations
				Local Aboriginal Lands Council, with assistance provided by ageotechnical engineer and archaeologists to minimise the risk of damage to the Groove Rocks and meet regulatory and documentation requirements		
5.2	Relocate the Narrawolga Axe Grinding Grooves to the Willow Tree Visitor Information Centre (at Willow Tree), as nominated in the Mine Heritage Management Plan, and in accordance with a care agreement transferring the responsibility from Werris Creek Coal to Nungaroo LALC.	Completed 15 April 2015.	Heritage Management Plan 2014	The Narrawolga Axe Grinding Groove Rocks were relocated to the Willow Tree Visitor Information Centre on 15th April 2015.  The project involved detailed consultation with the Liverpool Plains Shire Council and Nungaroo Local Aboriginal Lands Council, with assistance provided by ageotechnical engineer and archaeologists to minimise the risk of damage to the Groove Rocks and meet regulatory and documentation requirements	С	
6. Trans	sport Aspects					
Desired	Outcome: Product haulage by public road is conducted in an appropriate and safe mann	ner.				
6.1	Adhere to the restricted hours of operation.	Ongoing.	-	Less than 1000T of coal has left the site by road per year during the audit period. No evidence to suggest that shipments have occurred outside of restricted hours was noted during this assessment.	С	
5.2	Prevent spillage from the trucks through the continuation of a 'covered load' policy.	Ongoing.	Driver Induction	Drivers who transport coal off-site are required to cover their loads. No coal loads left the site during this assessment.	С	
5.3	Consult with DPE prior to undertaking any haulage of coal to the Gunnedah CHPP (to confirm compliance with PA 10_0059).	Prior to commencement of haulage to the Gunnedah CHPP.	Not applicable	Not triggered.	NT	
7. Noise						
Desired		nina Critaria				
/esirea	Outcome: Attenuate mining noise sources to ensure compliance with Project Specific No	dise Cilleria.				
	Outcome: Attenuate mining noise sources to ensure compliance with Project Specific No  Construct an Acoustic and Visual Amenity Bund at the northern extent of mining operations.	Prior to mining through the "Old Colliery" Hill	Noise Management Plan	Bund on northern extent of Pit observed during site inspection	С	
7.1	Construct an Acoustic and Visual Amenity Bund at the northern extent of mining	Prior to mining through the "Old			С	
7.1 7.2 7.3	Construct an Acoustic and Visual Amenity Bund at the northern extent of mining operations.  Implement noise mitigation and management measures in accordance with an	Prior to mining through the "Old Colliery" Hill	Plan  Noise Management	There was no need to implement noise mitigation during the reported audit period, as		
7.1 7.2 7.3	Construct an Acoustic and Visual Amenity Bund at the northern extent of mining operations.  Implement noise mitigation and management measures in accordance with an approved Noise Management Plan (NMP).  Employ a dedicated Noise Control Operator (NCO) to continually monitor real time noise levels and inform the Open Cut Examiner (OCE) if the dominant noise	Prior to mining through the "Old Colliery" Hill Ongoing.	Plan  Noise Management Plan  Noise Management Plan (NMP).  WCC Noise Control Operation Procedure (sighted on-site)	There was no need to implement noise mitigation during the reported audit period, as there were no noise criteria exceedances.  According to the NMP a NCO commenced in March 2012. The WCC Noise Control Operation Procedure indicates a continuous noise monitoring	С	
7.1 7.2 7.3	Construct an Acoustic and Visual Amenity Bund at the northern extent of mining operations.  Implement noise mitigation and management measures in accordance with an approved Noise Management Plan (NMP).  Employ a dedicated Noise Control Operator (NCO) to continually monitor real time noise levels and inform the Open Cut Examiner (OCE) if the dominant noise source is mining.  Modify or partially suspend mining operations to achieve the nominated noise	Prior to mining through the "Old Colliery" Hill Ongoing. Ongoing.	Plan  Noise Management Plan  Noise Management Plan (NMP).  WCC Noise Control Operation Procedure (sighted on-site) (taken photos)	There was no need to implement noise mitigation during the reported audit period, as there were no noise criteria exceedances.  According to the NMP a NCO commenced in March 2012.  The WCC Noise Control Operation Procedure indicates a continuous noise monitoring proforma on 29 <sup>th</sup> April 2016.	С	

Action No	Action	Timing	Reference/ Evidence	Comments	Compliance Status	Recommendations
8. Blasti	ng					
Desired	Outcome: Minimise impacts from blasting on surrounding receptors and infrastructure.					
8.1	Undertake blasting in accordance with an approved Blast Management Plan (BMP).	Ongoing.	Blast Management Plan.	WCC has implemented noise monitoring in accordance to the BMP.	С	
3.2	Continue to monitor blasting impacts in accordance with BMP.	All blasts.	Blast Management Plan.	WCC continues monitoring blasting impacts in accordance to the BMP.	С	
9. Air Qı	ıality					
Desired	Outcome: Minimise impacts to air quality relating to the Project.					
9.1	Undertake all surface disturbance, mining, processing, transportation and other air emissions activities in accordance with an approved Air Quality and Greenhouse Gas Management Plan (AQGHGMP) for the Mine.	Ongoing.	Air Quality and Greenhouse Gas Management Plan (AQGHGMP).	WCC has undertaken all surface disturbance, mining, processing, transportation and other air emissions activities in accordance to the AQGHGMP.	С	
Desired	Outcome: Monitor and manage dust emissions generated by the LOM Project.					
9.2	Undertake air quality monitoring in accordance with an approved AQGHGMP for the Mine.	As defined within the AQGHGMP.	Air Quality and Greenhouse Gas Management Plan (AQGHGMP).	WCC has undertaken air quality monitoring in accordance to the AQGHGMP.	С	
10. Visik	ility					
Desired	Outcome: Screen the operation visually from the surrounding local area.					
	Outcome: Screen the operation visually from the surrounding local area.  Construct an Acoustic and Visual Amenity Bund at the northern extent of mining operations.	Prior to mining through the 'Old Colliery' Hill	Observations made during the site visit	A > 15 metre high visual/amenity bund was observed along the northeastern perimeter of the northern extent of the open-cut pit.	С	
10.1	Construct an Acoustic and Visual Amenity Bund at the northern extent of mining	Prior to mining through the 'Old Colliery' Hill Ongoing.		observed along the northeastern perimeter of	C C	
10.1	Construct an Acoustic and Visual Amenity Bund at the northern extent of mining operations.  Maintain screening vegetation and constructed landforms in accordance with an	Colliery' Hill	Observations made during the site visit	observed along the northeastern perimeter of the northern extent of the open-cut pit.  Maintenance of vegetation is ongoing. No		
Desired 10.1 10.2 10.3	Construct an Acoustic and Visual Amenity Bund at the northern extent of mining operations.  Maintain screening vegetation and constructed landforms in accordance with an approved RMP (or MOP).  Continue to position and direct floodlights visible offsite to not shine above horizontal and generally orientated in a westerly direction away from Werris Creek	Colliery' Hill Ongoing.	Observations made during the site visit MOP 2015  Lighting Management Procedure	observed along the northeastern perimeter of the northern extent of the open-cut pit.  Maintenance of vegetation is ongoing. No evidence of non-compliance was observed.  A magnetic lighting management procedure was observed attached to lights across the facility.  One complaint has been received regarding light emissions at nearby premise. Investigation of the complaint indicated that a light had been moved not in accordance with the Light Management Procedure. – due to movement of light. NCO noise monitors monitor visible light	С	

Action No	Action	Timing	Reference/ Evidence	Comments	Compliance Status	Recommendations
10.6	Maintain the Mine Site in a clean and tidy condition at all times.	Ongoing.	Observations made during the site visit	Housekeeping at the mine was excellent.	С	None.
11. Soils	s, Land Capability and Agricultural Suitability					
Desired	outcome: Create a final landform that is safe, stable and is amenable to a combination of	of agricultural and native flora/fauna	conservation activities.			
11.1	Undertake final landform construction and rehabilitation in accordance with an approved RMP or MOP.	Ongoing.	Observations made during the site visit MOP 2015	Final landform has not yet been achieved. Rehabilitation observed was of good quality (despite drought conditions through the last two years prior to the current).	С	None.
12. Was	te					
Desired	outcome: Manage waste appropriately on site.					
12.1	Prepare and implement waste management activities in accordance with an approved Waste and Hydrocarbon Management Plan (WHMP).	Ongoing.	Waste and Hydrocarbon Management Plan	Waste and Hydrocarbon Management Plan sighted.	С	None.
13. Haza	ards					
Desired	Outcome: Manage bushfire hazards appropriately.					
13.1	Prepare and implement fire prevention, management and suppression measures in accordance with a Fire Management Strategy which forms part of an approved BOMP.	Ongoing.	Annual Reviews 2017 to 2019 BOMP 2013 and 2016	Bushfire management across the site includes:  Four water carts; Hydrants around the site; Biodiversity offset lands have fire breaks.  Fire management is incorporated into the offset strategy.  Emergency Response Team is trained in fire response.  Fuel load management and maintenance of fire breaks are discussed as performance metrics in Environmental Performance Sections of the Annual reviews.	С	None.
Desired	Outcome: The storage and handling of hazardous materials is appropriately managed.					
13.2	Prepare and implement hydrocarbon management activities in accordance with an approved WHMP.	Ongoing.[AS1]	Waste and Hydrocarbon Management Plan	Waste and Hydrocarbon Management Plan appeared to be implemented during the audit.	С	None.
14. Com	nmunity Contributions					
Desired	Outcome: Provide for ongoing support to the Werris Creek local community and Liverpo	ol Plains Shire Council.				
14.1	Maintain the Community Consultative Committee or similar and include local community representatives.	Ongoing.	CCC minutes 2017 to present	CCC minutes have been published online throughout the audit period.	С	None.
14.2	Complete and distribute regular newsletters regarding project progress and operations.	Ongoing.	Water Management information flyer	A Water Management information flyer was made publically available during the audit period (2017) and is available for any community member who raises any water related concerns.	C (obs)	None.
14.3	Continue to provide funding towards maintenance of Taylors Lane through Section 94 contributions.	Ongoing.	Not applicable	Coal haulage tonnage has not approached 20kT trigger value. Not Triggered	NT	None.

## APPENDIX A2 STATEMENT OF COMMITMENTS Compliance with Project Approval 10\_0059

Action No	Action	Timing	Reference/ Evidence	Comments	Compliance Status	Recommendations
14.4	Implement the Community Enhancement Fund with the Liverpool Plains Shire Council and Community Consultative Committee.	Ongoing.	Werris Creek Coal Mine Annual Review 2017 CCC minutes 2017	Written evidence of the requisite spend via the Community Enhancement Fund was observed during the site visit. The spend occurred during the six calendar years from 2012 to 2017 (overlapping this Audit period by six months). Approximately \$30k was spent at Spring Ridge and \$336,000 was spent in Werris Creek. The local council (Liverpool Plains Shire Council) were the recipients of the funds for community projects and the spend was discussed in relevant CCC meetings.  Details of the projects funded were discussed in the Werris Creek Coal Mine Annual Review 2017 which is submitted to the Department.	С	None.

Document details	
Document title	Appendix A2 - EPL
Document subtitle	Compliance with Environment Protection Licence (EPL) 12290
Project No.	0552611
Date	22 July 2020
Version	1.0
Author	Robert Smith, Aaron McKenzie
Client Name	Whitehaven Coal

www.erm.com Version: 1.0 Project No.: 0552611 Client: Whitehaven Coal 22 July 2020

Item		Assessment Requireme	ent	Reference/ Evidence	Comments	Compliance	Recommendations
1 ADM	IINISTRATIVE CONDITIONS						
11 Wh	at the licence authorises and	regulates					
A1.1	A2. The activities are listed ac classification and the scale of Construct mine entrance/ acce	ccording to their scheduled activity c the operation. ess/ rail load out roads; site prepara	s listed below at the premises specified in classification, fee-based activity ation; (clearing/ soil removal) including office facility installation; install water	Site observations MOP 2015 Annual Returns 2017 to 2019	The Site is not undertaking any scheduled activities other than those permitted by its EPL.	С	
1.2	A2. The activities are listed ac classification and the scale of Unless otherwise further restri	ccording to their scheduled activity c the operation.	s listed below at the premises specified in classification, fee-based activity the scale at which the activity is carried out	Annual Coal Movements 2017 to 2019	The site's production capacity has remained within the scheduled limits.	С	
	Scheduled Activity	Fee Based Activity	Scale				
	Coal works	Coal works	> 2,000,000 – 5,000,000 T annual handing capacity				
	Mining for coal	Mining for coal	> 2,000,000 T – 3,500,000 of annual production capacity				
1.3	The licensee must not carry or completed, except as elsewhere	on any scheduled activities until the sere provided in this licence.	scheduled development works are	Site observations	No evidence to suggest this condition is not being complied with was observed.	С	
2 Pre	emises or plant to which this li	icence applies					
2.1	The licence applies to the following premises Details WERRIS CREEK CO 1435 WERRIS CREEK WERRIS CREEK NSW 2341	OAL		Mine licence plans Site observations	Mining operations are completed within the approved site boundary.	С	
	THE LAND BOUND	WITHIN THE "PROJECT SITE BO : SCHEDULE OF LAND" OF APPE	OUNDARY" IDENTIFIED IN THE MAP				
	THE LAND BOUND TITLED "FIGURE 1:		NDIX 1				
3 Info	THE LAND BOUND TITLED "FIGURE 1: SCHEDULE OF LAN	: SCHEDULE OF LAND" OF APPE ND OF PROJECT APPROVAL 10_0	NDIX 1				
	THE LAND BOUND TITLED "FIGURE 1: SCHEDULE OF LAN (DOC16/11179).  ormation supplied to the EPA  Works and activities must be defined to the supplied to the sup	: SCHEDULE OF LAND" OF APPE ND OF PROJECT APPROVAL 10_0	endix 1 0059, DATED 25 OCTOBER 2011  oroposal contained in the licence	Site observations	No evidence to suggest this condition is not being complied with was observed.	С	
	THE LAND BOUND TITLED "FIGURE 1: SCHEDULE OF LAN (DOC16/11179).  ormation supplied to the EPA  Works and activities must be application, except as express In this condition the reference	SCHEDULE OF LAND" OF APPE ND OF PROJECT APPROVAL 10_0  carried out in accordance with the p sly provided by a condition of this lic	endix 1 0059, DATED 25 OCTOBER 2011  proposal contained in the licence cence.  s a reference to:	Site observations		С	
<b>.3 Info</b> 3.1	THE LAND BOUND TITLED "FIGURE 1: SCHEDULE OF LAN (DOC16/11179).  Dormation supplied to the EPA  Works and activities must be application, except as express  In this condition the reference (a) the applications for any lice	carried out in accordance with the p sly provided by a condition of this lice to "the licence application" includes icences (including former pollution of	endix 1 0059, DATED 25 OCTOBER 2011  proposal contained in the licence cence.  s a reference to:	Site observations		C	

1		Assessmen	t Requirement		Reference/ Evidence	Comments	Compliance	Recommendations
CH	HARGES TO AIR	AND WATER AND APPLICATIONS	S TO LAND					
oca	ation of monitor	ing/discharge points and areas						
		oints referred to in the table below are or the setting of limits for the emission			Email from Whitehaven Coal to EPA dated 21/04/20 Site observations	Evidence viewed of monitoring locations being provided to the EPA in email dated 21/04/20 with shapefiles confirming the spatial location of the discharge points. All monitoring locations were present and are sign posted on-site.	С	
	EPA ID no.	Type of monitoring point	Type of discharge point	Location description		No monitoring locations have moved since the		
	9	Ambient Weather Monitoring		Weather station located on the top level of the overburden emplacement at RL 445m and identified as "EPL9" on the figure titled "EPL 12290 Licenced Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).		EPL was granted.		
	28	Ambient Air Monitoring/ Air Discharge Quality	Ambient Air Monitoring/ Ai Discharge Quality	11001 1 122 20				
	29	Ambient Air Monitoring/ Air Discharge Quality	Ambient Air Monitoring/ Ai Discharge Quality	Within 100 metres of the residence "Glenara" identified as "EPL29" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
	30	Ambient Air Monitoring/ Air Discharge Quality  Ambient Air Monitoring/ Air Discharge Quality  Ambient Air Monitoring/ Air Discharge Quality  Within 100m of the location known as property number 92 identified as "EPL30" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).						
	31	Monitoring		Lower level temp. sensor at the toe of the SE rehabilitation area at RL 373.5m AHO and identified as "EPL31" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
		oints referred to in the table are identing of limits for discharges of pollutants  Water		ourposes of the monitoring	Email from Whitehaven Coal to EPA dated 21/04/20 Site observations	Evidence viewed of monitoring locations being provided to the EPA in email dated 21/04/20 with shapefiles confirming the spatial location of the discharge points. All monitoring locations	С	
	EPA ID no.	Type of monitoring point Type	pe of discharge point	Location description		were present and are sign posted on-site.  No monitoring locations have moved since the EPL was granted.		

		Asses	ssment Requirement		Reference/ Evidence	Comments	Compliance	Recommendation
	10	Wet Weather Discharge / Discharge Water Quality Monitoring	Wet Weather Discharge / Discharge Water Quality Monitoring	Point known as "SB2" and identified as "EPL10" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
	12	Wet Weather Discharge / Discharge Water Quality Monitoring	Wet Weather Discharge / Discharge Water Quality Monitoring	Point known as "SB9" and identified as "EPL12" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
	14	Wet Weather Discharge / Discharge Water Quality Monitoring	Wet Weather Discharge / Discharge Water Quality Monitoring	Point known as "SB10" and identified as "EPL14" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
	16	Water Quality Monitoring		Point known as "VWD1" and identified as "EPL16" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
	17	Groundwater Quality Monitoring		Point known as "GW966036/MW1" and identified as "EPL17" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
	18	Groundwater Quality Monitoring		Point known as "GW966127/MW2" and identified as "EPL18" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
	19	Groundwater Quality Monitoring		Point known as "GW965729/MW3" and identified as "EPL19" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 17 December 2015 (DOC16/111380).				
	20	Groundwater Quality Monitoring		Point known as "MW4b" and identified as "EPL20" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
	21	Groundwater Quality Monitoring		Point known as "GW968728/MW5" and identified as "EPL21" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
-	22	Groundwater Quality Monitoring		Point known as "MW6" and identified as "EPL22" on the				

	Assess	sment Requirement		Reference/ Evidence	Comments	Compliance	Recommendation
			figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
23	Ambient / Discharge Water Quality Monitoring		Point known as WC-U on Werris Creek and identified as "EPL23" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
24	Ambient / Discharge Water Quality Monitoring		Point known as WC-D on Werris Creek and identified as "EPL24" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
25	Ambient / Discharge Water Quality Monitoring		Point known as QC-U on Quipolly " Creek and identified as "EPL25" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
26	Ambient / Discharge Water Quality Monitoring		Point known as QC-D on Quipolly Creek and identified as "EPL26" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
27	Water Quality Monitoring		Point known as "VWD2" and identified as "EPL27" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
32	Wet Weather Discharge / Discharge Water Quality Monitoring	Wet Weather Discharge / Discharge Water Quality Monitoring	Point known as "S818" and identified as "EPL32" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
33	Discharge Water Quality Monitoring Discharge for off-site agricultural use	Discharge Water Quality Monitoring Discharge for off-site agricultural use	Point known as "VWD1" and identified as "EPL33" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
34	Discharge Water Quality Monitoring Discharge for off-site agricultural use	Discharge Water Quality Monitoring Discharge for off-site agricultural use	Point known as "VWD3" and identified as "EPL34" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).				
35	Discharge Water Quality Monitoring	Discharge Water Quality Monitoring	Point known as "VWD4" and identified as "EPL35" on the figure titled "EPL 12290				

Item			Assessment	Requirement			Reference/ Evidence	Comments	Compliance	Recommendations
		Discharge for off- agricultural use		charge for off-site cultural use	received by	onitoring Points", the EPA via December 2015 (380).				
3 LIMIT	CONDITIONS									
L1 Poll	ution of Waters									
L1.1	Except as may be section 120 of the			ndition of this licen rations Act 1997.	ce, the licensee m	nust comply with	Monitoring and lab report Email from Whitehaven Coal to EPA confirming non-compliance	An uncontrolled discharge occurred from dams titled EPA10 and EPA14 that commenced on 9 February 2020. The discharge events were 'Special Frequency' events as rainfall exceeded 39.2mm, therefore the discharges themselves were not non-compliances. One exceedance reported low pH 5.5 for discharge point EPL14 uncontrolled discharge, sampled on 18 <sup>th</sup> February 2020.  Event which was reported to the EPA and included in annual returns as required. Investigation of this event did not identify a source of the exceedance and no subsequent monitoring has identified similar results.	NC	Investigation indicates that the exceedance appears to be anomalous. No further action required.  Continue to monitor water quality during discharge events
L2 Con	centration Limits									
L2.1	For each monitori the concentration concentration limi	of a pollutant disc	harged at that poi	nt, or applied to th			Not applicable.	Not Triggered.	NT	
L2.2	Where a pH quali specified ranges.	ty limit is specified	I in the table, the s	pecified percentag	ge of samples mus	et be within the	Annual reviews 2017 and 2018.  Monitoring and lab reports	Lab reports provided - One exceedance reported low pH 5.5 for discharge point EPL14 uncontrolled discharge, sampled on 18 <sup>th</sup> February 2020. Other results indicated exceedances up /down stream during storm events (off site locations, results not correlated to discharge point results).	NC	As above.
L2.3	To avoid any doul those specified in		loes not authorise	the pollution of wa	ters by any polluta	ant other than	Not applicable.	Not Triggered.	NT	
L2.4	Water and/or Land		imits				EPL Monitoring reports 2017 to 2020.	Monitoring data is compliant with the water and land concentration limits during the reported	С	WCC should continue monitoring with special attention
	Pollutant	Unit of measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit		audit period, with the exception of a low pH 5.5 at the point 14 in February 2020.		to pH at point 14.
	Oil and grease	Milligrams per litre	-	-	-	10				
	pH	рН	-	-	-	6.5 - 8.5				
	Total suspended solids	Milligrams per litre	20	35	-	50				

APPENDIX A2 - EPL Compliance with Environment Protection Licence (EPL) 12290

em			Assessment	Requirement			Reference/ Evidence	Comments	Compliance	Recommendations
	Point 33, 34, 35									
	Pollutant	Unit of measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit				
	Electrical conductivity	Microsiemens per centimetre	-	-	-	2000				
	Oil and grease	Milligrams per litre	-	-	-	10				
	pН	pН	6.5 - 8.5		-	9				
5	The Total Suspended Solids concentration limits specified for Points 10, 12, 14 and 32 may be exceeded or water discharged from the sediment basins provided that:  (a) the discharge occurs solely as a result of rainfall measured at the premises that exceeds 39.2						EPL Monitoring reports 2017 to 2020.	(a) No discharges occurred unless the 39.2mm of rain limit had been exceeded.	С	
	millimetre (b) all praction	es over any conse al measures have	cutive 5 day perio	d immediately priced to dewater all se	or to the discharge ediment dams with	e occurring; and nin 5 days of rainfall	Correspondence between Whitehaven Coal and EPA regarding discharge events Pre- and Post-rain inspections on dams	(b) Management plan requires that basins are flocked when rain events are coming. ERM observed dewatering of SP2 during the field works as a result of predicted rain event due to occur on Saturday.		
								Site retains records of pre-rain inspections on their server. Post rain photographs are also taken showing post management actions.  Examples of photos of post rain maintenance		
								works were also observed.  ERM tracked uncontrolled discharge photos to		
								lab reports to confirm that testing had occurred. An exceedance of TSS was noted in the report and evidence was sighted of an email from Whitehaven Coal to the EPA with relevant lab reports attached. There had been 54mm of rain in the previous 5 days, therefore this was not recorded as a non-compliance		
Nas	te						I			
•	The licensee must the premises for s premises to be dis	torage, treatment	, processing, repro	cessing or dispos	sal or any waste g	enerated at the	Not applicable	Not Triggered.	NT	
2	This condition only premises if those				cessing or dispose	al of waste at the	Not applicable	Not Triggered.	NT	
Nois	e Limits									
1	Noise generated f	rom the premises	must not exceed	the noise limits in	the table below.		Annual reviews 2017 and 2018.	No exceedances of noise criteria limits occurred	С	
	Locality and location	Day LAeq (1 minute)			t LAeq (15	Night LA1 (1 ninute) -	EPL Monitoring reports 2017 to 2020.	during the reported audit period.		
	The residence of the property "Talavera" marke as location "R96 Talavera" on the figure titled "EPL 12290 Licensed Monitoring	ed	38	38		15				

			Assessment Requ	irement		Reference/ Evidence	Comments	Compliance	Recommendations
	on 17 aber 2015 6/111380).								
Railway marked location Quipolly Cottage figure til 12290 L Monitori Points", by the E email or Decemb	as Quipolly y Cottage" d as n "R12 ly Railway e" on the titled "EPL Licensed ring ', received EPA via	38	38	38	45				
the prop "Hazeld marked location Hazelde figure tit 12290 L Monitori Points", by the E email or	dene" d as n "R24 lene" on the itled "EPL Licensed ring ', received EPA via on 17	37	37	37	45				
'The res the prop "Kyoom as locat Kyooma figure tif 12290 L Monitori received EPA via 17 Dece 2015	the property "Kyooma" marked as location"R98 Kyooma" on the figure titled "EPL 12290 Licensed Monitoring points", received by the EPA via email on 17 December	36	38	38	45				
	her affected nce not by the ee or its	35	35	35	45				
a) b) c)	Day is define Evening is de Night is defin	efined as the per ned as the period	rom 7am to 6pm on a iod 6pm to 10pm on a from 10pm to 7am o	any day. n any day.	led to the measurement level	Annual reviews 2017 and 2018. EPL Monitoring reports 2017 to 2020.	Not triggered	С	

Item	Assessment Requirement	Reference/ Evidence	Comments	Compliance	Recommendations
L4.3	The noise limits set out in the Noise Limits table apply under all meteorological conditions except for the following:  a) Wind speeds greater than 3 metres/second at 10 metres above ground level; or b) Temperature inversion conditions up to 12°C/100m and wind speeds greater than 2 metres/second at 10 metres above ground level; or c) Temperature inversion conditions greater than 12°C/100m.  Note: For the purposes of this condition, data recorded by the meteorological station identified as EPA Identification Point No. 9 and the lower level temperature sensor identified as EPA Identification Point No. 31 must be used to determine meteorological conditions.  Note: Temperature inversion conditions (vertical temperature gradient in degrees C/100m) are to be determined as [(TM2 - TM3 - 0.7) * 1.25], where TM2 is the temperature from sensor M2 (10m weather station at top of rehabilitated overburden emplacement) and TM3 is the temperature from sensor M3 (lower weather station at base of rehabilitated overburden emplacement). Reference: Spectrum Acoustics letter report Ref: 04035/4580 of 7 November 2012 to Werris Creek Coal.	Annual reviews 2017 and 2018.	Not triggered	С	
L4.4	Noise impacts where wind speed exceeds 3 metres per second at 10 metres above the ground must be addressed by:  a) documenting noise complaints received to identify any higher level of impacts or wind patterns;  b) where levels of noise complaints indicate a higher level of impact then actions to quantify and ameliorate any enhanced impacts where wind speed exceeds 3 metres per second at 10 metres above the ground must be developed and implemented.	Annual reviews 2017 and 2018.	Not triggered	С	
L4.5	The noise limits set by condition L4.1 of the licence do not apply where a current legally binding agreement exists between the proponent and the occupant of a residential property that:  a) agrees to an alternative noise limit for that property; or b) provides an alternative means of compensation to address noise impacts from the premises.  A copy of any agreement must be provided to the EPA before the proponent can take	Annual reviews 2017 and 2018.	Not triggered	С	
	advantage of the agreement.				
L4.6	Determining Compliance  To determine compliance:  a) with the Leq (15 minute) noise limits in the Noise Limits table, the noise measurement equipment must be located:  i) approximately on the property boundary, where any dwelling is situated 30 metres or less from the property boundary closest to the premises; or  ii) within 30 metres of a dwelling facade, but not closer than 3m, where any dwelling on the property is situated more than 30 metres from the property boundary closest to the premises; or, where applicable  iii) within approximately 50 metres of the boundary of a National Park or a Nature Reserve.  b) with the LA 1(1 minute) noise limits in the Noise Limits table, the noise measurement equipment must be located within 1 metre of a dwelling facade.  c) With the noise limits in the Noise Limits table, the noise measurement equipment must be located:  i) At the most affected point at a location where there is no dwelling at the location; or at the most affected point within an area at a location prescribed by part (a) or part (b) of this condition.  Note: A non-compliance of the Noise Limits table will still occur where noise generated from the premises in excess of the appropriate limits measured:  i) at a location other than an area prescribed in part (a) and part (b); and/or	Noise Management Plan. EPL Monitoring reports 2017 to 2020.	A summary of the attended noise monitoring program has been provided. All locations are monitored on a monthly basis.	C	
	ii) at a point other than the most affected point at a location.				

## L5 Blasting

Item	Assessment Requirement	Reference/ Evidence	Comments	Compliance	Recommendations
L5.1	The overpressure level from blasting operations at the premises must not exceed 120dB (Lin Peak) at any time. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	Annual reviews 2017 and 2018. EPL Monitoring reports 2017 to 2020.	An exceedance of Condition 6 Schedule 3 of PA 10_0059 occurred with a blast undertaken on 4th May 2018, recording an overpressure greater than 120 dBL at two monitoring locations: 120.4dBL at Glenara (R11) and 120.2dBL at Kyooma (R98).  WCC undertook an investigation into the incident, with appropriate notifications to the EPA and DPIE.  Upon completion of the investigation, control measures have been implemented to prevent or mitigate against a similar exceedance in the future.	C	WCC should continue undertaking the control measures to make sure the exceedance occurred in May 2018 is not repeated in future years. Revision of plan to minimise risk of future exceedance.
L5.2	The airblast overpressure level from blasting operations at the premises must not exceed 115dB (Lin Peak) at any noise sensitive locations for more than five per cent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	Annual reviews 2017 and 2018. EPL Monitoring reports 2017 to 2020.	Same as L5.1 comments.	С	Same as L5.1 recommendations.
L5.3	Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 10mm/sec at any time at any noise sensitive locations. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	Annual reviews 2017 and 2018. EPL Monitoring reports 2017 to 2020.	No exceedances of ground vibration limits occurred during the reported audit period.	С	
L5.4	Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 5mm/sec at any noise sensitive locations for more than five per cent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	Annual reviews 2017 and 2018. EPL Monitoring reports 2017 to 2020.	Same as L5.3 comments.	С	
L5.5	Blasting operations at the premises may only take place between 9:00am-5:00pm Monday to Saturday. Blasting is not permitted on public holidays.  Blasting outside the hours specified above can only take place with the written approval of the EPA.	Annual reviews 2017 and 2018.	WCC fires all blasts in the middle of the day generally between 12:00pm and 2:00pm, when atmospheric mixing is generally highest.  Blasting records are included in data pack.	С	
L5.6	The hours during which blasting is permitted may be varied by the EPA upon consideration of the impact any variation may have on the amenity of the residents in the locality.	Blast Management Plan.	Not triggered	С	
L5.7	Blasting at the premises is limited to 1 blast on each day on which blasting is permitted.  Note: Additional blasts are permitted where the EPA and neighbours have been notified of the intended blast prior to the additional blast being fired; and  it is demonstrated to be necessary for safety reasons; or  the previous blast generated ground vibration levels of less than 0.5 mm per second at all non-project related residences.	Annual reviews 2017 and 2018. EPL Monitoring reports 2017 to 2020.	Not triggered	С	
L5.8	To determine compliance with condition(s) LS.1, LS.2, LS.3 and LS.4  a) Airblast overpressure and ground vibration levels must be measured and electronically recorded at any point within 30 metres of any non-project related residential building or other sensitive locations such as schools or hospitals for all blasts carried out in or on the premises; and  b) Instrumentation used to measure the airblast overpressure and ground vibration must meet the requirements of Australian Standard AS 2187.2-2006.  Note: A breach of the licence will still occur where airblast overpressure or ground vibration levels from the blasting operations at the premises exceeds the limit specified in this licence at any "noise sensitive locations" other than the locations identified in the above condition.	Annual reviews 2017 and 2018. EPL Monitoring reports 2017 to 2020.	All the monitoring locations are at least 3 km distant from the properties.  7.2.1 Monitoring Locations (BMP): Four privately owned properties have been selected to monitor potential blasting impacts against compliance criteria and are representative of the most affected community locations in proximity to WCCM.  7.2.3 Blast Monitoring Equipment (BMP): The permanent blast monitors are fixed units installed at each community location and are installed in compliance with Australian Standard AS2187.2-2006. Monitoring is recorded via a website interface which enables blast results to be reported (by SMS and email), with the	С	

ltem	Assessment Requirement	Reference/ Evidence	Comments	Compliance	Recommendations
			complete waveform/trace available via the website for detailed analysis) in near real time.		
6 Но	urs of operation				1
6.1	Activities at the premises, other than blasting (which is subject to the limits applied by condition LS.5), may be carried out 24 hours a day, 7 days per week.	Noted.	Noted.	С	None.
7 Po	tentially offensive odour				
.7.1	No condition in this licence identifies a potentially offensive odour for the purposes of section 129 of the Protection of the Environment Operations Act 1997.  Note: Section 129 of the Protection of the Environment Operations Act 1997 provides that the licensee must not cause or permit the emission of any Offensive odour from the premises but provides a defence if the emission is identified in the relevant environment protection licence as a potentially offensive odour and the odour was emitted in accordance with the conditions of a licence directed at minimising odour.	Complaints registers 2017 to 2019	The Site has received 15 odour related complaints during the audit period, primarily relating to a 'burning' smell attributed to spontaneous combustion odours:  June 2017 to June 2018 – 10 complaints;  June 2018 to June 2019 – 5 complaints; and  June 2019 to June 2020 – No complaints.  The mine has implemented procedures to minimise emissions of odour from spontaneous combustion through the use of water curtains or sprinklers to suppress hot areas; and uncovering and mining the higher risk workings quickly and soaking any hot coal immediately.  Workers utilise personal gas monitors at the boundary of the site in the direction of complaints when they occur to identify whether detectable hydrogen sulphide is present. ERM sighted photographs of multi-gas monitoring units on days when spontaneous combustions complaints had been received. No elevated gas readings were detected at the boundary.  It is noted that the higher risk of spontaneous combustion areas of the mine (the former underground workings) have now been mined, reducing the future odour emission risk profile of the mine.	NC	No actions required. The site has robust odour management process to mitig odours from spontaneous combustion.
	rating conditions				
	tivities must be carried out in a competent manner	Site observations	No ovidence to ourgreat that activities are site and	0	
)1.1	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	Site observations  General review of management systems	No evidence to suggest that activities on-site are not being undertaken in a competent manner were observed during this assessment.	С	
	<ul> <li>b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.</li> </ul>				
)2 Ac	tivities must be carried out in a competent manner	ı		I .	1

Item	Assessment Requirement	Reference/ Evidence	Comments	Compliance	Recommendations
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.	Pulse preventative maintenance records	The preventative maintenance system utilised by the Site is called 'Pulse'. The system records all preventative maintenance tasks and creates electronic work orders for the maintenance team as required.  ERM reviewed Pulse records for a randomly selected dozer and pump system (pump 410). ERM also reviewed a sample of calibration records for blast monitors.  The work orders were detailed (including environmental noise control systems on the dozer) and included evidence that the required preventative maintenance had been completed on time.  No inspections by regulatory bodies raised preventative maintenance as a concern. ERM did not observe any examples of poorly maintained plant during the site inspection.	C	
O3 Du	st				
O3.1	All operations and activities occurring at the premises must be carried out in a manner that will minimise the emission of dust from the premises.	Air Quality and Greenhouse Gas Management Plan	According to: 8.1 Air Quality Management: In order to mitigate any potential air quality impacts from the WCC LOM Project, a number of air quality management controls will be implemented throughout the life of the operation. Particulate emission controls are detailed in Table 22.	С	
O3.2	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.	Air Quality and Greenhouse Gas Management Plan	According to: 8.1.13 Off-site Coal Transport: Coal is transported offsite to domestic and export markets by rail and road. The majority of coal is transported by trains (greater than 98%) at the Rail Load Out Facility. Coal is generally moist which mitigates dust generation. In addition, the rail load out bin is enclosed and each loaded train wagons is sprayed with water to create surface crust to minimise dust generation. In addition, the new generation wagons are designed to be taller and concave which reduces the coal surface area, thereby reducing wind erosion during rail transport.	С	
O4	Effluent application to land Irrigation of Mine Void Water from Void Water Dam 1				
O4.1	Prior to the Licensee providing Irrigation water from Void Water dam 1, all necessary state and local government approvals must be obtained.	Water Management Plan (WMP).	Approval is as per WMP.  On 27 <sup>th</sup> June 2016 a water use approval was rejected to WCC from the DPI Water (photo taken). In the response from DPIE Water the letter said "The application will not be required if the amendment to the current Water Management Plan is approved"	С	

APPENDIX A2 - EPL
Compliance with Environment Protection Licence (EPL) 12290

Item	Assessment Requirement	Reference/ Evidence	Comments	Compliance	Recommendations
O4.2	Pollution events associated with any aspect of the recipient's and or Licensees void water reuse program for irrigation, must be reported to the EPA in accordance with section 148 of the Act as soon as is practicable after the Licensee becomes aware of an incident.	Water Management Plan. EPL Monitoring reports 2017 to 2020.	Not Triggered	С	
O4.3	The licensee must cease the supply of void water for irrigation as soon as the licensee becomes aware of a misuse of effluent or failure to implement any aspect of the irrigation management plan.	Water Management Plan.	Not triggered.  Irrigation system is managed in a way that if water applicator is bogged it will stop. WCC has control of the discharge via inspection of discharge during pre and post irrigation.	С	
O4.4	The Licensee must review, with an annual inspection, the recipients use of the void water on an annual basis, to identify any corrective actions required to comply with or update the irrigation management plan. The supplier must keep records of sites visits, observations and corrective actions for at least four years.	Annual reviews 2017 and 2018. Water Management Plan.	Annual Reports provided on request.	С	
O4.5	The licensee must engage a suitably qualified person to make an annual assessment of the irrigation scheme and this report must be submitted to the EPA with the annual return.	Annual reviews 2017 and 2018. Water Management Plan.	Same as O4.4.	С	
O5 Oth	er operating conditions				
O5.1	Reversing beepers fitted to vehicles on the premises must be a low frequency broadband type, unless it can be demonstrated that operations will not contribute to off-site noise impacts.	Observations on-site.	Observed on-site (audible broadband reversing).	С	
O5.2	Blast Fume Offensive blast fume must not be emitted from the premises. Definition: Offensive blast fume means post-blast gases (whether visible or invisible, odorous or odourless) from the detonation of explosives at the premises that by reason of their nature, duration, character or quality, or the time at which they are emitted, or any other circumstances:  (i) are harmful to (or is likely to be harmful to) a person that is outside the premises from which it is emitted, or  (ii) interferes unreasonably with (or is likely to interfere unreasonably with) the comfort or repose of a person who is outside the premises from which it is emitted.	Audit site visit (photo)  Complaints registers 2017 to 2020.	blast videos of all blasts, and "blast hazard analysis" undertaken for each blast (taken photo of the form).  1 complaint 2017, 2 complaints 2018 raised re blast dust/fume	С	
O5.3	Pollution Incident Response Management Plan The licensee must maintain, and implement as necessary, a current Pollution Incident Response Management Plan (PIRMP) for the premises. The PIRMP must document systems and procedures to deal with all types of incidents (e.g. spills, explosions, fire) that may occur at the premises or that may be associated with activities that occur at the premises and which are likely to cause harm to the environment.	PIRMP	The scope and content of the PIRMP complies with the requirements of this condition. It was observed that the previous Operations Manager's contact details were in the PIRMP (the change in roles has only occurred within the last few months).	C (Obs)	The operations manager's contact details should be updated in the PIRMP and amended copies issued where relevant.
O5.4	The licensee must keep the PIRMP on the premises at all times.	PIMRP Site Observations	Copies of the PIRMP were available for review with the Environment Manager and at the Admin office (sighted by ERM). Further copies are held at the Open Cut Examiner's office.	С	
5 Mon	toring and Recording Conditions	I			
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.	Annual reviews 2017 and 2018. EPL Monitoring reports 2017 to 2020.	WCC retains its records.	С	None.
M1.2	All records required to be kept by this licence must be:  a) jn 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 authorise officer of the EPA who asks to see them.	Annual reviews 2017 and 2018. EPL Monitoring reports 2017 to 2020.	Air: March 2016 to May 2020 in summary HCAS & TEOM Monitoring xls. Data is legible.	С	

Item		Assessmen	t Requirement		Reference/ Evidence	Comments	Compliance	Recommendations
						Noise: Monthly EPL Reports contain summary of noise results.  Blasting: Blast Databased 2016 -2019_May20  Water: 2016-2020_May20 Surface Water  Monitoring Results. Data is legible  Irrigation: Irrigation monitoring 2017-20 (started 2017)		
M1.3	b) the time c) the poir d) the nan	e(s) on which the sample we(s) at which the sample we that at which the sample was ne of the person who colle	vas taken; vas collected; s taken; and cted the sample.	ollected for the purposes of	Annual reviews 2017 and 2018. EPL Monitoring reports 2017 to 2020.	ERM reviewed a sample of CoC for water, air, groundwater in emails retained on record.  Samples were compliance.	С	
	quirement to monitor conc			int according to the linear con-				
M2.1		g and obtaining results by a must use the sampling me	analysis) the concentration	ont number), the licensee of each pollutant specified and sample at the frequency,	EPL Monitoring reports 2017 to 2020.	WCC has undertaken the sampling of all the monitoring points during the reported audit period.	С	
M2.2	Air Monitoring Requiremen	nts			EPL Monitoring reports 2017 to	Same as M2.1.	С	
	POINT 28, 29, 30 Pollutant PM10 Solid particles	Units of measure micrograms per cubic metre Grams per square metre per month	Frequency Every 6 days Continuous	Sampling method AM-18 AM-19	2020.			
Л2.3	POINT 10, 12, 14, 32 Pollutant Conductivity Nitrate Nitrogen (total) Oil and Grease pH Phosphorus (total) Reactive phosphorus Total suspended solids  POINT 16, 27 Pollutant Conductivity Nitrate Nitrogen (total) Oil and Grease pH Phosphorus (total) Total suspended solids  POINT 17, 18, 19, 20, 22,	Units of measure Microsiemens per litre Milligrams per litre Milligrams per litre Milligrams per litre pH Milligrams per litre pH Milligrams per litre	Frequency Special Frequency 1  Frequency Every 3 months	Sampling method Grab sample	EPL Monitoring reports 2017 to 2020. Annual reviews 2017 and 2018.	POINT 10, 12, 14, 32  The sampling has been undertaken in a special frequency (1):  • January 2020 • February 2020 (only points 10 and 14)  POINT 16, 27  The sampling has been undertaken every 3 months approximately:  • August 2017 • December 2017 • February 2018 • November 2018 • February 2019 • May 2019 • August 2019 • November 2019 • February 2020	C	
	Pollutant Conductivity Nitrate Nitrogen (total)	Units of measure Microsiemens per litre Milligrams per litre Milligrams per litre	Frequency Every 6 months Every 6 months Every 6 months	Sampling method Representative sample Representative sample Representative sample		POINT 17, 18, 19, 20, 22, 21 The sampling has been undertaken every 6 months approximately:		

	Assessmen	nt Requirement		Reference/ Evidence	Comments	Compliance	Recommendations
Oil and Grease pH Phosphorus (total) Reactive phosphorus Standing water level  POINT 23, 24, 25, 26 Pollutant Conductivity Nitrate Nitrogen (total)	Milligrams per litre pH Milligrams per litre Milligrams per litre Milligrams per litre  Units of measure Microsiemens per litre Milligrams per litre Milligrams per litre Milligrams per litre	Every 6 months  Frequency Special Frequency 2 Special Frequency 2 Special Frequency 2 Special Frequency 2	Representative sample Sampling method Special Method 1 Special Method 1 Special Method 1		<ul> <li>September 2017</li> <li>March 2018</li> <li>September 2018</li> <li>March 2019</li> <li>September 2019</li> <li>March 2020</li> </ul> POINT 23, 24, 25, 26		
Oil and Grease pH Phosphorus (total) Reactive phosphorus Total suspended solids	Milligrams per litre pH Milligrams per litre Milligrams per litre Milligrams per litre	Special Frequency 2 Special Frequency 2 Special Frequency 2 Special Frequency 2 Special Frequency 2	Special Method 1		The sampling has been undertaken in a special frequency (1):  • January 2020  • February 2020		
commences and in any care For the purposes of this care storage dam(s) on the present the purposes of this care planned to be provided for then sampling is not requal For the purposes of this care providing mine void water ceases. Samples are only agricultural purposes. For the purposes of this care ambient/discharge water (Werris Creek and/or Quij 32) overflowing in any individe: The frequency of missing storage water (Werris Creek and/or Quij 32).	ase not more than 12 hours condition, Special Frequence emises occurring. Condition, Special Frequence or agricultural purposes with fired. Condition, Special Frequence for agricultural purposes at a required to be taken from condition, Special Method 1 quality monitoring points (i. polly Creek) as those wet wilividual discharge event.	s after any overflow comme by 2 means within 12 hours by 3 means every three mornin the three months following 4 mean prior to, but not not and then weekly thereafter, the void water dam that is means that grab samples i.e. points 23-26) locate d in weather discharge points (i.e.	after any overflow from a  oths. If no mine void water is ng scheduled sampling,  nore than 24 hours prior to until the provision of water supplying water for  must be taken from those same drainage catchment e. points 10, 12, 14 and/or		POINT 33, 34, 35 The sampling has been undertaken in a special frequency (3 and 4):  December 2017 (only point 33) January 2018 February 2018 March 2018 (only point 33) June 2018 (only point 33) July 2018 (only point 33) August 2018 (only point 33) September 2018 (only point 33) November 2018 (only point 33) Pecember 2018 (only point 33) Perbruary 2019 (only point 33) February 2019 (only point 33) March 2019 (only point 33) May 2019 (only point 33) September 2019 (only point 33) September 2019 (only point 33) October 2019 (only point 33) December 2019 (only point 33) January 2020		

APPENDIX A2 - EPL Compliance with Environment Protection Licence (EPL) 12290

		As	sessment Requir	rement		Reference/ Evidence	Comments	Compliance	Recommendations
M2.4				6 and 27 is not required lable to collect a sample.	in the three month	EPL Monitoring reports 2017 to 2020. Annual reviews 2017 and 2018.	Not triggered	С	
M2.5				7, 18, 19, 20, 21 and 22 ater is available to collect		EPL Monitoring reports 2017 to 2020. Annual reviews 2017 and 2018.	Not triggered	С	
M3 Te	ting methods – conc	entration limits							
M3.1	Monitoring for the co		ant emitted to the a	air required to be conduct	ed by this licence	Air Quality and Greenhouse Gas Management Plan (AQGHGMP).	According to the AQGHGMP:	С	
	, .	•••		nder the Act to be used	for the testing of the	wanagement i an (Agerrewii ).	9. Monitoring		
	b) if no : this I	icence requires to be t	posed by or under used for that testing	r the Act, any methodolog g; or er the Act or by a condition			Monitoring is undertaken in accordance with WCC's EPL 12290 and PA 10_0059 conditions, which specify required methods of sampling, analysis and frequency of monitoring.		
		nodology approved in ng taking place.	writing by the EP	A for the purposes of the	at testing prior to the		Air quality monitoring locations will be		
		· · · · · · · · · · · · · · · · · · ·	perations (Clean A	Air) Regulation 2010 requ	ires testing for certain		reviewed, and if necessary, modified in		
	purposes to be cond	ucted in accordance w	ith test methods o	ontained in the publicatio			consultation with DoP and EPA over the life of		
	for the Sampling and Analysis of Air Pollutants in NSW'.						the project, in response to monitoring results and changes in the mining operations.		
M3.2	pollutant discharged	to waters or applied to Publication unless anot	a utilisation area	e, monitoring for the cond must be done in accordate een approved by the EPA	nce with the	Water Management Plan	WMP references approved methods.	С	
	pollutant discharged Approved Methods F	to waters or applied to Publication unless anot	a utilisation area	must be done in accorda	nce with the	Water Management Plan	WMP references approved methods.	С	
M4 We	pollutant discharged Approved Methods F tests are conducted.	to waters or applied to Publication unless anot	a utilisation area	must be done in accorda	nce with the	Water Management Plan  Air Quality and Greenhouse Gas	WMP references approved methods.  According to the AQGHGMP:	С	
/14 W€	pollutant discharged Approved Methods F tests are conducted. ather monitoring	to waters or applied to Publication unless anot	o a utilisation area ther method has be	must be done in accordareen approved by the EPA	nce with the a in writing before any				
M4 We	pollutant discharged Approved Methods F tests are conducted.  ather monitoring  Weather Monitoring  POINT 9:  Parameter	to waters or applied to Publication unless and Requirements  Units of Measure	a utilisation area	must be done in accorda	nce with the in writing before any	Air Quality and Greenhouse Gas	According to the AQGHGMP: 9.5 Meteorology WCC maintains an on-site weather station		
M4 We	pollutant discharged Approved Methods F tests are conducted.  ather monitoring  Weather Monitoring  POINT 9:	to waters or applied to Publication unless and Requirements  Units of Measure  Millimetres per	o a utilisation area ther method has be	must be done in accordareen approved by the EPA	nce with the a in writing before any	Air Quality and Greenhouse Gas	According to the AQGHGMP: 9.5 Meteorology WCC maintains an on-site weather station identified as "M2" (EPL 12290 EPA ID #9)		
M4 We	pollutant discharged Approved Methods F tests are conducted.  ather monitoring  Weather Monitoring  POINT 9: Parameter  Rainfaill  Wind speed @ 10	to waters or applied to Publication unless and Requirements  Units of Measure	Frequency  Continuous	must be done in accordance approved by the EPA  Averaging Period	sampling method	Air Quality and Greenhouse Gas	According to the AQGHGMP:  9.5 Meteorology  WCC maintains an on-site weather station identified as "M2" (EPL 12290 EPA ID #9) located on the top level of the overburden emplacement (at final rehabilitated landform		
M4 We	pollutant discharged Approved Methods F tests are conducted.  ather monitoring  Weather Monitoring  POINT 9: Parameter  Rainfaill	to waters or applied to Publication unless and Publication unless an	Frequency  Continuous	must be done in accordance approved by the EPA  Averaging Period  1 hour	Sampling method  AM-4	Air Quality and Greenhouse Gas	According to the AQGHGMP:  9.5 Meteorology  WCC maintains an on-site weather station identified as "M2" (EPL 12290 EPA ID #9) located on the top level of the overburden emplacement (at final rehabilitated landform surface RL445.5m) as well as "M3" (EPL 12290 EPA ID #31) lower level temperature sensor		
M4 We	pollutant discharged Approved Methods F tests are conducted.  ather monitoring  Weather Monitoring  POINT 9: Parameter  Rainfaill  Wind speed @ 10 metres  Wind direction @ 10 metres  Temperature @ 2	to waters or applied to Publication unless and Publication unless and Requirements    Units of Measure	Frequency Continuous Continuous	Averaging Period  1 hour  15 minute	Sampling method AM-2 & AM-4	Air Quality and Greenhouse Gas	According to the AQGHGMP:  9.5 Meteorology  WCC maintains an on-site weather station identified as "M2" (EPL 12290 EPA ID #9) located on the top level of the overburden emplacement (at final rehabilitated landform surface RL445.5m) as well as "M3" (EPL 12290		
M4 We	pollutant discharged Approved Methods F tests are conducted.  ather monitoring  Weather Monitoring  POINT 9: Parameter  Rainfaill  Wind speed @ 10 metres  Wind direction @ 10 metres  Temperature @ 2 metres  Temperature @ 10 metres	to waters or applied to Publication unless and Publication unless an	Frequency Continuous Continuous Continuous Continuous Continuous Continuous Continuous	Averaging Period  1 hour  15 minute  15 minute  15 minute	Sampling method AM-2 & AM-4 AM-2 & AM-4 AM-4 AM-4 AM-4 AM-4	Air Quality and Greenhouse Gas	According to the AQGHGMP:  9.5 Meteorology  WCC maintains an on-site weather station identified as "M2" (EPL 12290 EPA ID #9) located on the top level of the overburden emplacement (at final rehabilitated landform surface RL445.5m) as well as "M3" (EPL 12290 EPA ID #31) lower level temperature sensor (base of overburden emplacement area at		
M4 We	pollutant discharged Approved Methods F tests are conducted.  ather monitoring  Weather Monitoring  POINT 9:  Parameter  Rainfaill  Wind speed @ 10 metres  Wind direction @ 10 metres  Temperature @ 2 metres  Temperature @ 2 metres	to waters or applied to Publication unless and Publication unless an	Frequency Continuous Continuous Continuous Continuous	Averaging Period  1 hour  15 minute  15 minute	Sampling method AM-2 & AM-4 AM-2 & AM-4 AM-4 AM-4	Air Quality and Greenhouse Gas	According to the AQGHGMP:  9.5 Meteorology  WCC maintains an on-site weather station identified as "M2" (EPL 12290 EPA ID #9) located on the top level of the overburden emplacement (at final rehabilitated landform surface RL445.5m) as well as "M3" (EPL 12290 EPA ID #31) lower level temperature sensor (base of overburden emplacement area at RL373.5m).  Table 27: WCC "M2" Weather Station		
M4 We	pollutant discharged Approved Methods F tests are conducted.  ather monitoring  Weather Monitoring  POINT 9:  Parameter  Rainfaill  Wind speed @ 10 metres  Wind direction @ 10 metres  Temperature @ 2 metres  Temperature @ 10 metres  Sigma theta @ 10	to waters or applied to Publication unless and Publication unless an	Frequency Continuous Continuous Continuous Continuous Continuous Continuous Continuous	Averaging Period  1 hour  15 minute  15 minute  15 minute	Sampling method AM-2 & AM-4 AM-2 & AM-4 AM-4 AM-4 AM-4 AM-4	Air Quality and Greenhouse Gas	According to the AQGHGMP:  9.5 Meteorology  WCC maintains an on-site weather station identified as "M2" (EPL 12290 EPA ID #9) located on the top level of the overburden emplacement (at final rehabilitated landform surface RL445.5m) as well as "M3" (EPL 12290 EPA ID #31) lower level temperature sensor (base of overburden emplacement area at RL373.5m).  Table 27: WCC "M2" Weather Station meteorological parameters  This table shows all the parameters that the		
M4 We	pollutant discharged Approved Methods F tests are conducted.  ather monitoring  Weather Monitoring  POINT 9: Parameter  Rainfaill  Wind speed @ 10 metres  Wind direction @ 10 metres  Temperature @ 2 metres  Temperature @ 10 metres  Sigma theta @ 10 metres  Solar radiation  Additional requirements —	to waters or applied to Publication unless and Publication unless an	Frequency Continuous Continuous Continuous Continuous Continuous Continuous Continuous Continuous	Averaging Period  1 hour  15 minute  15 minute  15 minute  15 minute  15 minute	Sampling method AM-4 AM-2 & AM-4 AM-4 AM-4 AM-4 AM-4 AM-4 AM-4 AM-4	Air Quality and Greenhouse Gas	According to the AQGHGMP:  9.5 Meteorology  WCC maintains an on-site weather station identified as "M2" (EPL 12290 EPA ID #9) located on the top level of the overburden emplacement (at final rehabilitated landform surface RL445.5m) as well as "M3" (EPL 12290 EPA ID #31) lower level temperature sensor (base of overburden emplacement area at RL373.5m).  Table 27: WCC "M2" Weather Station meteorological parameters  This table shows all the parameters that the		
M4 We	pollutant discharged Approved Methods F tests are conducted.  ather monitoring  Weather Monitoring  POINT 9: Parameter  Rainfaill  Wind speed @ 10 metres  Wind direction @ 10 metres  Temperature @ 2 metres  Temperature @ 10 metres  Sigma theta @ 10 metres  Solar radiation  Additional	to waters or applied to Publication unless and Publication unless an	Frequency Continuous Continuous Continuous Continuous Continuous Continuous Continuous Continuous	Averaging Period  1 hour  15 minute  15 minute  15 minute  15 minute  15 minute	Sampling method AM-4 AM-2 & AM-4 AM-4 AM-4 AM-4 AM-4 AM-4 AM-4 AM-4	Air Quality and Greenhouse Gas	According to the AQGHGMP:  9.5 Meteorology  WCC maintains an on-site weather station identified as "M2" (EPL 12290 EPA ID #9) located on the top level of the overburden emplacement (at final rehabilitated landform surface RL445.5m) as well as "M3" (EPL 12290 EPA ID #31) lower level temperature sensor (base of overburden emplacement area at RL373.5m).  Table 27: WCC "M2" Weather Station meteorological parameters  This table shows all the parameters that the		

Item		As	sessment Require	ement		Reference/ Evidence	Comments	Compliance	Recommendations
M4.2	POINT 31 Parameter	Units of Measure	Frequency	Averaging Period	Sampling method	Air Quality and Greenhouse Gas Management Plan (AQGHGMP).	Same as M4.1.	С	
	Temperature @ 2 metres	Degrees celcius	Continuous	15 minute	AM-4 & special method 2	managomont riam (riagorionim ).			
	Note: For the purposes of conditions M4.1 & M4.2, Special Method 2 means that the location of the meteorological monitoring equipment and details of that equipment, the equipment operation and maintenance/service procedures and schedules must be submitted in writing and approved in writing by the EPA before any sampling or analysis is carried out. The meteorological monitoring equipment must be calibrated at least once every 12 months. Any proposed changes to the meteorological monitoring equipment location, operating and maintenance/service procedures and schedules, or to the monitoring hardware itself must also be submitted in writing and approved in writing by the EPA. The EPA is to be provided with the monitoring data on request in a Microsoft® Office software compatible format.								
M5 Red	cording of pollution o	complaints							
M5.1				le to the licensee or any which this licence applies		Internal and external complaints registers 2017 to 2019	ERM sighted complaints records retained from 2005 to the present.	С	
M5.2	<ul> <li>a) the date and time of the complaint;</li> <li>b) the method by which the complaint was made;</li> <li>c) any personal details of the complainant which were provided by the complainant or, if no such details</li> </ul>		Internal and external complaints registers 2017 to 2019	The internal complaints register included all the fields required by this condition.	С				
	d) the nature of the action to complain an	aken by the licensee ir t; and	relation to the com	nplaint, including any follo <i>I</i> hy no action was taken.	w-up contact with the				
M5.3	The record of a com	plaint must be kept for	at least 4 years aft	er the complaint was ma	de.	Complaints registers 2005 to 2020	ERM sighted complaints records retained from 2005 to the present.	С	
M5.4	The record must be	produced to any autho	rised officer of the	EPA who asks to see the	m.	Not applicable	Not triggered.	NT	
M6 Tel	ephone complaints li	ne							
M6.1	receiving any compla		the public in relation	one complaints line for the ton to activities conducted ne licence.		Website Signage	The site has a 24 hour complaints line in place to receive complaints from members of the public.	С	
M6.2		otify the public of the c at the impacted comm		ohone number and the fa o make a complaint.	ct that it is a	Website Signage	ERM tested the complaints number published on the Werris Creek Mine Whitehaven Coal website. The complaints number was not functional. It is noted that the complaints number on the sign at the entrance to the mine was correct.	NC	Update the website complaints line number to reflect the correct phone number.
M6.3	The preceding two co	onditions do not apply	until 3 months afte	r: the date of the issue of	this licence.	Not applicable.	Noted.	Noted	
M7 Red	quirement to monitor	volume or mass				ı		1	
M7.1	For each discharge p	point or utilisation area	specified below, th	ne licensee must monitor		EPL Monitoring reports 2017 to	Meters sighted.	С	
	b) the mass of	of liquids discharged.t f solids applied to the a f pollutants emitted to	area;	to the area;		2020. Annual reviews 2017 and 2018.	WCC monitors points 33, 34 and 35 in volume (mg/L) at special frequencies (3 and 4).		
	at the frequency and	using the method and	I units of measure,	specified below.					

Item		Assessm	nent Requirement		Reference/ Evidence	Comments	Compliance	Recommendations
	POINT 33, 34, 35							
	Frequency Units of Measure		asure	Sampling method				
	Daily during any discharge Kilolitres per day		By Calculation (volume flow rate or pump capacity multiplied by operating time)					
M8 Blas	sting							
M8.1		with the blast limits presenthe following locations:	ted at L5, blast monito	oring must be undertaken in	EPL Monitoring reports 2017 to 2020.	WCC undertakes blast monitoring at those receptors with those descriptors.	С	
	Within 30 metres of the residences at the locations marked as "R98 Kyooma", "R11 Glenara" and "R62 43 Kurrara St, Werris Ck", and within 30 metres of the location marked as "R92 Werris Creek Middle" on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380).			'R92 Werris Creek Middle" on the	Blast Management Plan (BMP).			
	Parameter	Units of Measure	Frequency	Sampling method				
	Blast noise	dB (Lin Peak)	Every blast	Type 1 Noise/Blast				
	Blast vibration	Mm/s	Every blast	Geophone logger or similar				
6 Repo	To assess compliance with the noise limits presented in the Noise Limits table, attended noise monitoring must be undertaken in accordance with the condition titled Determining Compliance, outlined above, and:  a) at the locations labelled "R24 Hazeldene", "R12 Quipolly Railway Cottage", "R96 Talavera", "R98 Kyooma" and "R57 33 Kurrara St, Werris Ck" (non project related residence number 57) on the figure titled "EPL 12290 Licensed Monitoring Points", received by the EPA via email on 17 December 2015 (DOC16/111380); b) occur monthly in a reporting period; i) occur during each day, evening and night period as defined in the NSW Industrial Noise Policy for a minimum of: ii) 1 hour during the day; and iii) 1 hour during the evening or night.  Note: The frequency of monitoring may be varied by the EPA once the variability of the noise impact is established.					monitoring reports presented on project website, data was collected (based on review of compliance reports) Data missing for June to December 2017 and January and March 2018.		EPA.
R1	Annual return docun	nents						
R.1.1	The licensee must cor  1. a Statement 2. a Monitoring 3. a Statement 4. a Statement 5. a Statement Plan, 6. a Statement 7. a Statement	nplete and supply to the EP of Compliance, and Complaints Summary, of Compliance - Licence Co of Compliance - Load based of Compliance - Requirement of Compliance - Requirement Compliance - Environment orting period, the EPA will processors.	onditions, d Fee, . ent to Prepare Pollution ent to Publish Pollution ntal Management Syst		Annual Returns 2017 to 2020	Annual returns were completed in full in the approved forms during each year of the audit period.	С	

Item	Assessment Requirement	Reference/ Evidence	Comments	Compliance	Recommendations
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.	Emails confirming Annual Return Submission 2018 to 2020 Annual Returns 2017 to 2020	Annual returns were prepared and submitted in each year within the audit period.	С	
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.	Not applicable	Not Triggered	NT	
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.	Not applicable	Not Triggered	NT	
R1.5	The Annual Return for the reporting period must be supplied to the EPA via eConnect EPA or 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').	Emails confirming Annual Return Submission 2018 to 2020	The submission times for Annual Returns are summarised below:  • 2020 – on 29 <sup>th</sup> May 2020 (due date 30 <sup>th</sup> May 2020);  • 2019 – on; 30 <sup>th</sup> May 2019 (due date 30 <sup>th</sup> May 2019); and  • 2018 – on 31 <sup>st</sup> May 2018 (due date 30 <sup>th</sup> May 2018).  The late submission of an Annual Return in 2018 related to a misunderstanding at Site level regarding the submission date. Management reported that they have historically worked to an 'end of May' deadline, when the statutory submission date is on 30 <sup>th</sup> May each year.	NC	Communicate with Environmental Team at Whitehaven confirming Annual Return submission date is 30 <sup>th</sup> May each year. Update calendars accordingly.
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.	Annual returns	Copies of annual returns are maintained as required.	С	
R1.7	Within the Annual Return, the Statements 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.	Annual Returns 2017 to 2020	ERM sighted copies of Annual Returns for 2017 to 2020. Only the Annual Return provided for 2020 was signed by the General Manager	C (Obs)	Ensure a signed copy of the annual return is maintained for records.
R2 No	tification of environmental harm				
R2.1	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.	Annual Returns 2017 to 2020 Correspondence between Whitehaven Coal and the EPA across late February 2020	One exceedance of pH criteria occurred during an overflow event at a stormwater retention dam on 18th February 2020 following 54mm of rain in the preceding five days. This is the only event considered to have caused environmental during the audit period. ERM sighted evidence that the Site	С	

Item	Assessment Requirement	Reference/ Evidence	Comments	Compliance	Recommendations
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.	Correspondence between Whitehaven Coal and the EPA across late February 2020	ERM sighted correspondence dated 19 <sup>th</sup> February informing the EPA of the pH exceedance described in Condition R2.1. The incident occurred on 18 <sup>th</sup> and Whitehaven Coal became aware of the exceedance on the 19 <sup>th</sup> following laboratory analysis. The EPA was informed of the incident on the same day.	С	
R3 Wri	tten Report			1	
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, c) 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.	Not applicable	Not Triggered	NT	
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.	Not applicable	Not Triggered	NT	
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	Not applicable	Not Triggered	NT	
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.	Not applicable	Not Triggered	NT	
R4.1	A noise compliance assessment report must be submitted to the EPA within 30 days of the completion of the monthly monitoring. The assessment must be prepared by a suitably qualified and experienced acoustical consultant and include:  a) an assessment of compliance with noise limits presented in the Noise Limits table; and  b) an outline of any management actions taken within the monitoring period to address any exceedences of the limits contained in the Noise Limits table.	Noted	Consultants are taking more than 30 days to create report.	NC	WCC should review noise monitoring supplier contract to require reporting completed within 30 days.

Item		Assessment Requirement		Reference/ Evidence	Comments	Compliance	Recommendations
R4.2	The licensee must report any exceethe EPA as soon as practicable after of the licensee's employees or ager	r the exceedence becomes known		Noted	An exceedance of Condition 6 Schedule 3 of PA 10_0059 occurred with a blast undertaken on 4th May 2018, recording an overpressure greater than 120 dBL at two monitoring locations: 120.4dBL at Glenara (R11) and 120.2dBL at Kyooma (R98).  WCC undertook an investigation into the incident, with appropriate notifications to the	С	
7 Gen	eral Conditions				EPA and DPIE.		
	ppy of licence kept at the premis	es or plant					
G1.1	A copy of this licence must be kept at the premises to which the licence applies.		EPL 12290	Copy of licence sighted with Environment Officer.	С		
G1.2	The licence must be produced to	any authorised officer of the EF	PA who asks to see it.	Not applicable	Not triggered.	NT	
G1.3	The licence must be available fo the premises.	r inspection by any employee or	agent of the licensee working at	Not applicable	Not triggered.	NT	
G2 Ot	her general conditions						
G2.1	Completed programs		Not applicable.	Noted.	Note		
	Program	Description	Completed Date				
	PRP 1: Noise Monitoring and Assessment Program	This PRP requires the licensee to undertake a noise monitoring and assessment of the impacts of typical construction and mining activities on the premises.	15-May-2008				
	PRP 2: Coal Mine Particulate Matter Control Best Practice	Requires licensee to conduct a site specific best management practice (BMP) determination to identify ways to reduce particulate emissions.	27-June-2012				
	Particulate Matter Control Best Practice Implementation - Wheel Generated Dust	Implementation of particulate matter best management practices to address wheelgenerated dust.	13-August-2014				
	Particulate Matter Control Best Practice Implementation - Disturbing and Handling Overburden under Adverse Weather Conditions	Implementation of particulate matter best management practices to address the handling of overburden during adverse weather.	13-August-2014				
	Particulate Matter Control Best Practice Implementation - Trial of Best Practice Measures for Disturbing and Handling Overburden	Investigation to establish best practice measures for the handling of overburden. Investigation to establish best practice measures for the handling of overburden.	14-April-2014				
	Coal Mine Wind Erosion of Exposed Land Assessment	Calculate the stabilised and disturbed surface areas (in	28-August-2015				

Item	Assessment Requirement	Reference/ Evidence	Comments	Compliance	Recommendations
	hectares) within the premises as of 30 June 2014, against the predictions within the licensee's Environmental Assessment or Environmental Impact Statement for the premises.				
8	Pollution Studies and Reduction Programs				
U1.1	U1 Void Water Dam 1  The Licencee must complete the following repairs and clean-up to void water dam 1:  Action 1: The dam walls at VWD 1, where heavy erosion has occurred due to a blowout of high pressure hoses, is to be repaired to ensure that dam wall stability is maintained and further erosion is prevented from occurring.  Action 2: All hydrocarbon/chemical spills on the soil, under and around the pumps and generators must be cleaned-up and remediated. The waste generated from this clean-up/remediation must be classified prior to disposal off-site and then disposed of at a lawful waste facility. Action 1 and 2 must be completed by 5pm on 21 February 2020.	Audit site visit (taken photos). EPL Monitoring reports 2017 to 2020.	Action 1: Photographic evidence of re-instated bank 10/12/19 Action 2: Lab reports observed dated 17/12/2019 with validation sample reports showing no remaining hydrocarbons. Land farmed on-site and disposed of as GSW 11/05/20 report shows below criteria. Waste classification completed. 9.6T transported to Narrabri tip	С	
U2	Oil Water Separator U2.1  The current inground oil water separator must be decommissioned and replaced with an above ground system that;  1. Is roofed and bunded (roof can be mobile)  2. Provides for stormwater Bypass if required.  3. The type of separator selected is based volume generation needs (Coalescing plate separator or Hydrocyclone oil separator) and the best possible treatment for that volume generation available  4. Is capable of pre-treating oil, grease, silt, detergents, NFR (Suspended solids), COD (chemical oxygen demand) and pH prior to collection for disposal.  These works must be completed by 5pm on 31 July 2020. The Decommissioned inground unit must be removed and lawfully disposed of, at a lawful waste facility by 5pm on the 31 July 2020.	N/A	Outside audit period	NT	
9	Special Conditions E1 Three Yearly Independent Noise Audit				
E.1.1	The licensee must provide the EPA with a copy of any Noise Audit and Independent Environmental Audit Report required by condition 4 of Schedule 3 and conditions 8 and 9 of Schedule 5 of the Werris Creek Mine Extension Project Approval (No. 10_0059). If the Noise Audit and Independent Environmental Audit Report do not incorporate the following information or assessments, then the licensee must also provide a separate report to the EPA that incorporates the following:  (a) An assessment of noise emissions from the premises against the noise limits established by the Project Approval (No. 10_0059), as well as against the long term noise goal and noise acquisition criteria established within Project Approval No. 10_0059 that has been completed in accordance with the procedures defined in the NSW Industrial Noise Policy and any relevant Application Notes published by the EPA; (b) An evaluation of current mine noise impacts at all non-project related receptors and the noise mitigation practices that have been implemented at the premises against the best available economically achievable technology and current best practice principles for minimising noise emissions; and (c) Where noise impacts at any affected non-project related receptor	N/A	Noise audit reports have been submitted with the IEA as required.  Part c negotiated agreements have not been triggered.	С	

Item	Assessment Requirement	Reference/ Evidence	Comments	Compliance	Recommendations
	exceeds the long term noise goal established by condition 4 of Schedule 3 of Project Approval 10_0059, the licensee must provide documented evidence that demonstrates that reasonable attempts have been made to reach a negotiated agreement with all relevant affected receptors within the last 3 years.  The reports required by this condition must be submitted to the EPA's Armidale office within 6 weeks of the 30 June 2014, and every three years thereafter.  Note: For the purposes of this condition, a privately owned property that is subject to a current and legally biding negotiated agreement between the licensee and the relevant property owner, is considered project related, as is any property or residence held in the ownership of the licensee or its associated companies.				
E1.2	If the reports required by E1.1 above indicate that non-project related receptors continue to receive impacts that exceed the long term noise goal established by condition 4 of Schedule 3 of Project Approval 10_0059, then the licensee must provide the EPA with a report detailing the actions it will take during the next three year period, to further reduce noise impacts from the mine. The report must:	N/A	Completed outside of audit period.	NT	
	<ul> <li>a) Provide details of any trials, tests or research that it will commission in an attempt to develop new or innovative noise mitigation technologies or management practices;</li> </ul>				
	<ul> <li>Detail the nature of any works that will be carried out at the premises or at the relevant receptor locations to further reduce noise impacts;</li> </ul>				
	c) Provide timelines and provisional costings for the proposed actions or works;				
	<ul> <li>d) Provide an analysis where possible of the potential noise reductions that the proposed actions are likely to achieve; and</li> </ul>				
	<ul> <li>e) Define any additional noise monitoring programs that might be required to measure/validate the performance of the proposed mitigation actions.</li> </ul>				
	The report required by this condition must be submitted to the EPA by 31 August 2014 and every three years thereafter until noise emissions from the premises meet the long term noise goal established by condition 4 of Schedule 3 of Project Approval 10_0059.				

Document details	
Document title	Appendix A4 – Mining Lease 1563
Document subtitle	Compliance with Mining Lease 1563
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Client Name	Whitehaven Coal

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No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
Mini	ing Lease Conditions 2004				
Voti	ce to Landholders				
1.	Within a period of three months from the date of grant of this lease or within such further time as the Minister may allow the lease holder must serve on each landholder of the land a notice in writing indicating that this lease has been granted and whether the lease includes the surface. An adequate plan and description of the lease area must accompany the notice.  If there are ten or more landholders affected, the lease holder may serve the notice by publication in a newspaper circulating in the region where the lease area is situated. The notice must indicate that this lease has been granted; state whether the lease includes the surface and must contain an adequate plan and description of the lease area.	Not applicable	Whitehaven Coal owns all land within the mining lease area.	С	
Mini	ng, Rehabilitation, Environmental Management Process	(MREMP)			
Mini	ng Operations (MOP)				
2.	(1) Mining operations, including mining purposes, must be conducted in accordance with a Mining Operations Plan (the Plan) satisfactory to the Director- General. The Plan together with environmental conditions of development consent and other approvals will form the basis for:  (a) ongoing mining operations and environmental management; and (b) ongoing monitoring of the project.  (2) The Plan must be prepared in accordance with the Director-General's guidelines current at the time of lodgement.	MOP 2015 MOP Approval Letter	<ol> <li>An approved MOP (2015 to 2022) has been developed and implemented;</li> <li>The MOP has been developed in accordance with the requirements in this condition as far as those requirements still apply</li> <li>The MOP has not been updated during the Audit period;</li> <li>Noted;</li> <li>Noted;</li> </ol>	С	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	(3) A Plan must be lodged with the Director-General:- (a) prior to the commencement of mining operations (including mining purposes); (b) subsequently as appropriate prior to the expiry of any current Plan; and (c) in accordance with any direction issued by the Director-General.		(6) Noted; (7) Noted; (8) Noted.		
	(4) The Plan must present a schedule of proposed mine development for a period of up to seven (7) years and contain diagrams and documentation which identify:-  (a) area(s) proposed to be disturbed under the Plan; (b) mining and rehabilitation method(s) to be used and their sequence; (c) areas to be used for disposal of tailings /waste; (d) existing and proposed surface infrastructure; (e) existing flora and fauna on the site; (f) progressive rehabilitation schedules; (g) areas of particular environmental, ecological and cultural sensitivity and measures to protect these areas; (h) water management systems (including erosion and sediment controls); (i) proposed resource recovery; and (j) where the mine will cease extraction during the term of the Plan, a closure plan including final rehabilitation objectives/methods and post mining landuse/vegetation.				
	<ul><li>(5) The Plan when lodged will be reviewed by the Department.</li><li>(6) The Director-General may within two (2) months of the lodgement of a Plan, require modification and</li></ul>				

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	re-lodgement.  (7) If a requirement in accordance with clause (6) is not issued within two (2) months of the lodgement of a Plan, the lease holder may proceed with implementation of the Plan.  (8) During the life of the Mining Operations Plan, proposed modifications to the Plan must be lodged with the Director-General and will be subject to the review process outlined in clauses (5) - (7) above.				
Ann	ual Environmental Management Report (AEMR)				
3.	(1) Within 12 months of the commencement of mining operations and thereafter annually or, at such other times as may be allowed by the Director-General, the lease holder must lodge an Annual Environmental Management Report (AEMR) with the Director-General.  (2) The AEMR must be prepared in accordance with the Director-General's Guidelines current at the time of reporting and contain a review and forecast of performance for the preceding and ensuing twelve months in terms of:  (a) the accepted Mining Operations Plan; (b) development consent requirements and conditions; (c) Department of Environment and Conservation and Department of Infrastructure, Planning and Natural Resources licences and approvals; (d) any other statutory environmental requirements; (e) details of any variations to environmental approvals applicable to the lease area; and (f) where relevant, progress towards final rehabilitation objectives.  (3) After considering an AEMR the Director-General may, by notice in writing, direct the lease holder to undertake operations, remedial actions or supplementary studies in the manner and within the	Annual Reviews 2017 to 2019	Annual reviews have been submitted to the DPIE each year of the Audit period. The Annual Review scope includes the requirements outlined in this condition.	С	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	on the lease area are conducted in accordance with sound mining and environmental practice.				
	(4) The lease holder shall as and when directed by the Minister, co-operate with the Director-General to conduct and facilitate review of the AEMR involving other government agencies and the local council.				
Sub	sidence Management				
4.	(a) The lease holder shall prepare a Subsidence Management Plan prior to commencing any underground mining operations which will potentially lead to subsidence of the land surface.	Not applicable	Verified by previous audits.	NT	
	(b) Underground mining operations which will potentially lead to subsidence include secondary extraction panels such as longwalls or miniwalls, associated first workings (gateroads, installation roads and associated main headings, etc), and pillar extractions, and are otherwise defined by the Guideline for Applications for Subsidence Management Approvals.				
	(c) The lease holder must not commence or undertake underground mining operations that will potentially lead to subsidence other than in accordance with a Subsidence Management Plan approved by the Director-General, an approval under the Coal Mines Regulation Act 1982, or the document New Subsidence Management Plan Approval Process - Transitional Provisions.				
	(d) Subsidence Management Plans are to be prepared in accordance with the <i>Guideline for Applications for Subsidence Management Approvals</i> .				
	(e) Subsidence Management Plans as approved shall form part of the Mining Operations Plan				

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	required under Condition 2 and will be subject to the Annual Environmental Management Report process as set out under Condition 3. The SMP is also subject to the requirements for subsidence monitoring and reporting set out In the document New Approval Process for Management of Coal Mining Subsidence - Policy.				
Wor	king Requirement		,		
5.	The lease holder must:  (a) ensure that at least 28 competent people are efficiently employed on the lease area on each week day except Saturday or any week day that is a public holiday,  OR  (b) expend on operations carried out in the course of prospecting or mining the lease area, an amount of not less than \$490,000.00 per annum whilst the lease is in force.  The Minister may at any time or times, by instrument in writing served on the lease holder, increase or decrease the expenditure required or the number of people to be employed.	Instrument of Variation, dated 10 September 2018	As per the Instrument of Variation, dated 10 September 2018, issued by a delegate for the Minister for Resources, this condition is omitted from the conditions of Mining Lease 1563. This variation was effective from 8 October 2018.	С	
Con	trol of Operations				
6.	(a) If an Environmental Officer of the Department believes that the lease holder is not complying with any provision of the Act or any condition of this lease relating to the working of the lease, he may direct the lease holder to:- (i) cease working the lease; or (ii) cease that part of the operation not complying with the Act or conditions; until in the opinion of the	Not applicable	Not triggered	NT	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	Environmental Officer the situation is rectified.				
	<ul> <li>(b) The lease holder must comply with any direction given. The Director-General may confirm, vary or revoke any such direction.</li> <li>(c) A direction referred to in this condition may be served on the Mine Manager.</li> </ul>				
Rep	orts				
7.	The lease holder must provide an exploration report, within a period of twenty-eight days after each anniversary of the date this lease has effect or at such other date as the Director-General may stipulate, of each year. The report must be to the satisfaction of the Director-General and contain the following:  (a) Full particulars, including results, interpretation and conclusions, of all exploration conducted during the twelve months period;  (b) Details of expenditure incurred in conducting that exploration;  (c) A summary of all geological findings acquired through mining or development evaluation activities;  (d) Particulars of exploration proposed to be conducted in the next twelve months period;  (e) All plans, maps, sections and other data necessary to satisfactorily interpret the report.		Reports are completed as per this condition.	С	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
8.	(a) The lease holder grants to the Minister, by way of a non-exclusive licence, the right in copyright to publish, print, adapt and reproduce all exploration reports lodged in any form and for the full duration of copyright.	Note	Noted	Note	
	(b) The non-exclusive licence will operate as a consent for the purposes of section 365 of the Mining Act 1992.				
Con	fidentiality				
9.	(a) All exploration reports submitted in accordance with the conditions of this lease will be kept confidential while the lease is in force, except in cases where:  (i) the lease holder has agreed that specified reports may be made non-confidential.  (ii) reports deal with exploration conducted exclusively on areas that have ceased to be part of the lease.  (b) Confidentiality will be continued beyond the termination of a lease where an application for a flow-on title was lodged during the currency of the lease. The confidentiality will last until that flow-on title or any subsequent flow-on title, has terminated.  (c) The Director-General may extend the period of confidentiality.	Note	Noted	Note	
Tern	ns of the non-exclusive licence			1	
10.	The terms of the non-exclusive copyright licence granted under condition 8 (a) are:  (a) the Minister may sub-licence others to publish, print, adapt and reproduce but not on-licence reports.	Not applicable	Noted	Note	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
(b)	the Minister and any sub-licensee will acknowledge the lease holder's and any identifiable consultant's ownership of copyright in any reproduction of the reports, including storage of reports onto an electronic database.				
(c)	the lease holder does not warrant ownership of all copyright works in any report and, the lease holder will use best endeavours to identify those parts of the report for which the lease holder owns the copyright.				
(d)	there is no royalty payable by the Minister for the				
(e)	licence.  if the lease holder has reasonable grounds to believe that the Minister has exercised his rights under the non-exclusive copyright licence in a manner which adversely affects the operations of the lease holder, that licence is revocable on the giving of a period of not less than three months' notice.				
Blasting					
The vibra blast mm/ more period premothe	Ground Vibration  I lease holder must ensure that the ground ation peak particle velocity generated by any sting within the lease area does not exceed 10 /second and does not exceed 5 mm/second in re than 5% of the total number of blasts over a od of 12 months at any dwelling or occupied mises as the case may be, unless determined erwise by the Department of Environment and inservation.	Annual Reviews 2017 to 2018  EPL Monitoring Reports 2017 to 2020	(a) No exceedances of ground vibration limits occurred during the reported audit period  (b) An exceedance of Condition 6 Schedule 3 of PA 10_0059 occurred with a blast undertaken on 4th May 2018, recording an overpressure greater than 120 dBL at two monitoring locations:	С	WCC should continue undertaking the control measures to make sure the exceedance occurred in May 2018 is not repeated in future years.

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	(b) Blast Overpressure  The lease holder must ensure that the blast overpressure noise level generated by any blasting within the lease area does not exceed 120 dB (linear) and does not exceed 115 dB (linear) in more than 5% of the total number of blasts over a period of 12 months, at any dwelling or occupied premises, as the case may be, unless determined otherwise by the Department of Environment and Conservation.		120.4dBL at Glenara (R11) and 120.2dBL at Kyooma (R98).  WCC undertook an investigation into the incident, with appropriate notifications to the EPA and DPIE. Upon completion of the investigation, control measures have been implemented to prevent or mitigate against a similar exceedance in the future.  These included the erection of "dig fences" to prevent over digging, in the event blasts are located alongside excavation areas. In addition, face profiling will be completed after an excavator has left the area and prior to blast loading, to ensure under burden holes have been detected and addressed prior to firing.		
12.	Operations must be carried out in a manner that ensures the safety of persons or stock in the vicinity of the operations. All drill holes shafts and excavations must be appropriately protected, to the satisfaction of the Director-General, to ensure that access to them by persons and stock is restricted. Abandoned shafts and excavations opened up or used by the lease holder must be filled in or otherwise rendered safe to a standard acceptable to the Director-General.	Not applicable	This condition appears to refer to the exploration phase of the mine's life and as such is not applicable to the current audit period.  Regardless, Whitehaven Coal has developed and implemented a robust safety management system which considers fall from height etc.	С	

## Rehabilitation

No	Assessment Requirement	Assessment Requirement Reference/ Comments Evidence		Compliance Status	Recommendations
13.	<ul> <li>(a) Land disturbed must be rehabilitated to a stable and permanent form suitable for a subsequent land use acceptable to the Director-General and in accordance with the Mining Operations Plan so that: <ul> <li>there is no adverse environmental effect outside the disturbed area and that the land is properly drained and protected from soil erosion.</li> <li>the state of the land is compatible with the surrounding land and land use requirements.</li> <li>the landforms, soils, hydrology and flora require no greater maintenance than that in the surrounding land.</li> <li>in cases where revegetation is required and native vegetation has been removed or damaged, the original species must be re-established with close reference to the flora survey included in the Mining Operations Plan. If the original vegetation was not native, any re-established vegetation must be appropriate to the area and at an acceptable density.</li> <li>The land does not pose a threat to public safety.</li> </ul> </li> <li>(b) Any topsoil that is removed must be stored and maintained in a manner acceptable to the Director-General.</li> </ul>	MOP 2015	<ul> <li>(a) MOP 2015 discusses topsoil storage requirements. MOP was approved by the Director.</li> <li>(b) Page 14 of the MOP discusses topsoil storage arrangements</li> </ul>	C	
14.	The lease holder must comply with any direction given by the Director-General regarding the stabilisation and revegetation of any mine residues, tailings or overburden dumps situated on the lease area.	Not applicable	Not triggered	NT	

No		Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
Ехр	loratory Drilling					
15.	commencemer holder must no Infrastructure, regional hydrog exploratory dril	wenty eight days prior to  nt of drilling operations the lease tify the relevant Department of Planning and Natural Resources geologist of the intention to drill Il holes together with information on the proposed holes.	Not applicable	This condition appears to refer to the exploration phase of the mine's life and as such is not applicable to the current audit period.	NT	
		holder drills exploratory drill holes he e Director- General that:- all cored holes are accurately surveyed and permanently marked in accordance with Departmental guidelines so that their location can be easily established;				
	(b)	all holes cored or otherwise are sealed to prevent the collapse of the surrounding surface;				
	(c)	all drill holes are permanently sealed with cement plugs to prevent surface discharge of groundwaters;				
	(d)	if any drill hole meets natural or noxious gases it is plugged or sealed to prevent their escape;				
	(e)	if any drill hole meets an artesian or sub-artesian flow it is effectively sealed to prevent contamination of				

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	aquifers.				
	(f) once any drill hole ceases to be used the hole must be sealed in accordance with Departmental guidelines. Alternatively, the hole must be sealed as instructed by the Director-General.				
	(g) once any drill hole ceases to be used the land and its immediate vicinity is left in a clean, tidy and stable condition.				
Prev	rention of Soil Erosion and Pollution				
16.	Operations must be carried out in a manner that does not cause or aggravate air pollution, water pollution (including sedimentation) or soil contamination or erosion, unless otherwise authorised by a relevant approval, and in accordance with an accepted Mining Operations Plan. For the purpose of this condition, water shall be taken to include any watercourse, waterbody or groundwaters. The lease holder must observe and perform any instructions given by the Director-General in this regard.	MOP 2015  Management Plans and Strategies	The Site has implemented a wide range of measures, monitoring, procedures etc. to minimise the mine's impact on the environment, as per the MOP 2015 and related management plans and strategies. On this basis, the Site is considered to have implemented practicable measures to prevent and/or minimise environmental harm.	С	
Tran	nsmission lines, communication lines and pipelines				
17.	Operations must not interfere with or impair the stability or efficiency of any transmission line, communication line, pipeline or any other utility on the lease area without the prior written approval of the Director-General and subject to any conditions he may stipulate.	Not applicable	Not triggered	NT	

No	Assessment Requirement Reference/ Evidence		Comments	Compliance Status	Recommendations
Fend	ces, Gates	1			
18.	<ul> <li>(a) Activities on the lease must not interfere with or damage fences without the prior written approval of the owner thereof or the Minister and subject to any conditions the Minister may stipulate.</li> <li>(b) Gates within the lease area must be closed or left open in accordance with the requirements of the landholder.</li> </ul>	Not applicable	Not triggered	NT	
Roa	ds and Tracks			,	
19.	(a) Operations must not affect any road unless in accordance with an accepted Mining Operations Plan or with the prior written approval of the Director-General and subject to any conditions he may stipulate.  (b) The lease holder must pay to the designated authority in control of the road (generally the local council or the Roads and Traffic Authority) the cost incurred in fixing any damage to roads caused by operations carried out under the lease, less any amount paid or payable from the Mine Subsidence Compensation Fund.	Not applicable	Not triggered	NT	
20.	Access tracks must be kept to a minimum and be positioned so that they do not cause any unnecessary damage to the land. Temporary access tracks must be ripped, topsoiled and revegetated as soon as possible after they are no longer required for mining operations. The design and construction of access tracks must be in accordance with specifications fixed by the Department of Infrastructure, Planning and Natural Resources.	Not applicable	Not triggered	NT	
Tree	es and Timber				
21.	(a) The lease holder must not fell trees, strip bark or cut timber on the lease without the consent of the landholder	Not applicable	(a) Not triggered.	NT	

No	Assessment Requirement	Assessment Requirement Reference/ Comments Evidence		Compliance Status	Recommendations
	who is entitled to the use of the timber, or if such a landholder refuses consent or attaches unreasonable conditions to the consent, without the approval of a warden.  (b) The lease holder must not cut, destroy, ringbark or remove any timber or other vegetative cover on the lease area except such as directly obstructs or prevents the carrying on of operations. Any clearing not authorised under the Mining Act 1992 must comply with the provisions of the Native Vegetation Conservation Act 1997.  (c) The lease holder must obtain all necessary approvals or licences before using timber from any Crown land within the lease area.		<ul><li>(b) Clearing is not completed in the non-operational areas of the site.</li><li>(c) Not triggered</li></ul>		
Res	ource Recovery				
23.	(a) Not withstanding any description of mining methods and their sequence or of proposed resource recovery contained within the Mining Operations Plan, if at any time the Director-General is of the opinion that minerals which the lease entitles the lease holder to mine and which are economically recoverable at the time are not being recovered from the lease area, or that any such minerals which are being recovered are not being recovered to the extent which should be economically possible or which for environmental reasons are necessary to be recovered, he may give notice in writing to the lease holder requiring the holder to recover such minerals.  (b) The notice shall specify the minerals to be recovered and the extent to which they are to be recovered, or the objectives in regard to resource recovery, but shall not specify the processes the lease holder shall use to achieve the specified recovery.  The lease holder must, when requested by the	Not applicable	Not triggered.	NT	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	Director-General, provide such information as the Director-General may specify about the recovery of the mineral resources of the lease area.				
	(c) The lease holder must, when requested by the Director-General, provide such information as the Director-General may specify about the recovery of the mineral resources of the lease area.				
	(d) The Director-General shall issue no such notice unless the matter has firstly been thoroughly discussed with and a report to the Director- General has incorporated the views of the lease holder.				
	(e) The lease holder may object to the requirements of any notice issued under this condition and on receipt of such an objection the Minister shall refer it to a Warden for inquiry and report under Section 334 of the Mining Act, 1992.				
	(f) After considering the Warden's report the Minister shall decide whether to withdraw, modify or maintain the requirements specified in the original notice and shall give the lease holder written notice of the decision. The lease holder must comply with the requirements of this notice.				
Inde	mnity				
24.	The lease holder must indemnify and keep indemnified the Crown from and against all actions, suits, claims and demands of whatsoever nature and all costs, charges and expenses which may be brought against the lease holder or which the lease	Not applicable	Noted	NT	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	holder may incur in respect of any accident or injury to any person or property which may arise out of the construction, maintenance or working of any workings now existing or to be made by the lease holder within the lease area or in connection with any of the operations notwithstanding that all other conditions of this lease shall in all respects have been observed by the lease holder or that any such accident or injury shall arise from any act or thing which the lease holder may be licensed or compelled to do.				
Seci	urity				
25.	<ul> <li>(a) A security in the sum of \$50,000.00 must be given and maintained with the Minister by the lease holder for the purpose of ensuring the fulfilment by the lease holder of obligations under this lease. If the lease holder fails to fulfil any one or more of such obligations the said sum may be applied at the discretion of the Minister towards the cost of fulfilling such obligations. For the purpose of this clause the lease holder shall be deemed to have failed to fulfil the obligations of this lease if the lease holder fails to comply with any condition or provision hereof, any provision of the Act or regulations made thereunder or any condition or direction imposed or given pursuant to a condition or provision hereof or of any provision of the Act or regulations made thereunder.</li> <li>(b) The lease holder must provide the security required by sub-clause (a) in one of the following forms:</li> <li>(i) cash;</li> <li>(ii) a security certificate in a form approved by the Minister and issued by an authorised deposit-</li> </ul>		Verified by previous audits	C	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations					
	taking institution.									
Barr	iers									
29.	(a) Unless with the consent of the Minister first had and obtained and subject to such further conditions as he may impose, the lease holder shall not mine within a barrier of 50 metres in width against the underground workings of the former Werris Creek Colliery as referred to in the Environmental Impact Statement entitled "Werris Creek Coal Pty Limited - ABN 69 107 169 103 - Environmental Impact Statement for the Proposed Werris Creek Coal Mine" dated August 2004.  (b) The lease holder must, prior to seeking the Ministers consent under this condition, complete a risk assessment to determine hazards and develop management controls. This risk assessment is to be subject to any amendments as may be required by the Director General.	MOP 2015	Through MOD2 and the MOP the site has obtained approval.	С						
Spec	cial Conditions									
30.	The lease holder shall ensure that operations on the lease area are conducted in a manner consistent with the Environmental Impact Statement, except were no longer applicable due to subsequent approval, conditioning or exemption.	Not applicable	Noted	Note						
31.	The lease holder shall ensure that 53 hectares of the rehabilitated landform is revegetated with species from the White Box Yellow Box Blakley 's Red Gum Endangered Ecological Community, and stock are excluded from the 200 hectares as shown in Figure 4.15 of the Environmental Impact Statement.	Not applicable	Verified in previous audits	С						

## APPENDIX A4 – MINING LEASE 1672

Compliance with Mining Lease 1672

Document details	
Document title	Appendix A4 – Mining Lease 1672
Document subtitle	Compliance with Mining Lease 1672
Project No.	0552611
Date	22 July 2020
Version	1.0
Author	Robert Smith, Aaron McKenzie
Client Name	Whitehaven Coal

www.erm.com Version: 1.0 Project No.: 0552611 Client: Whitehaven Coal 22 July 2020

No		Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
Mining	Lease C	Conditions 2004				
1.	Notice	to Landholders				
	(a) (b)	Within a period of three months from the date of grant/renewal of this lease or within such further time as the Minister may allow, the lease holder must serve on each landholder of the land a notice in writing indicating that this lease has been granted/renewed and whether the lease includes the surface. An adequate plan and description of the lease area must accompany the notice. If there are ten or more landholders affected, the lease holder may serve the notice by publication in a newspaper circulating in the region where the lease area is situated. The notice must indicate that this lease has been granted/renewed; state whether the lease includes the surface and must contain an adequate plan and description of the lease area.	Not applicable	Whitehaven Coal owns all land within the mining lease area.	С	
2.	Enviro	nmental Harm				
	(a) (b)	The lease holder must implement all practicable measures to prevent and/or minimise any harm to the environment that may result from the construction, operation or rehabilitation of any activities under this lease. For the purposes of this condition:  (i) environment means components of the earth, including:  (A) land, air and water, and	MOP 2015 Management Plans and Strategies	As discussed throughout the EPL and Project Approval sections of this report, the Site has implemented a wide range of measures, monitoring, procedures etc. to minimise the mine's impact on the environment.  The Site's management systems have been designed to comply with the	С	
		<ul><li>(B) any layer of the atmosphere, and</li><li>(C) any organic or inorganic matter and any</li></ul>		requirements of the project		

No		Assessment Requirement		Reference/ Evidence		Comments	Compliance Status	Recommendations	
	living organism, and  (D) human-made or modified structures and areas,  and includes interacting natural ecosystems that include components referred to in paragraphs (A)-(C).  (ii) harm to the environment includes any direct or indirect alteration of the environment that has the effect of degrading the environment and, without limiting the generality of the above, includes any act or omission that results in pollution, contributes to the extinction or degradation of any threatened species, populations or ecological communities and their habitats and causes impacts to places, objects and features of significance to Aboriginal people.			approval, environmental protection licence etc.  On this basis, the Site is considered to have implemented practicable measures to prevent and/or minimise environmental harm.					
3.	Mining	Operation	ons Plan						
	(a) Mining operations must not be carried out otherwise than in accordance with a Mining Operations Plan (MOP) which has been approved by the Director-General.		MOP 2015 MOP Approval Letter	(a)	An approved MOP (2015 to 2022) has been developed and implemented;	С			
	(b)	The M	IOP must			(b)	The MOP has been		
		(i)	identify operation	areas that will be disturbed by mining ons;			developed in accordance with the requirements in		
		(ii)	detail th	ne staging of specific mining operations;			this condition as far as those requirements still		
		(iii)	identify closure	how the mine will be managed to allow mine;		(c)	apply The MOP has not been		
		(iv)	identify	how mining operations will be carried		(-/	updated during the Audit		
			out in o	rder to prevent and or minimise harm to		(d)	period; Noted;		

No		Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
		the environment;		(e) Noted.		
		(v) reflect the conditions of approval under:				
		• the Environmental Planning and Assessment Act 1979				
		<ul> <li>the Protection of the Environment Operations Act 1997</li> </ul>				
		<ul> <li>and any other approvals relevant to the development including the conditions of this lease; and</li> </ul>				
		<ul> <li>have regard to any relevant guidelines adopted by the Director-General.</li> </ul>				
	(c)	The leaseholder may apply to the Director-General to				
		amend an approved MOP at any time.				
	(d)	It is not a breach of this condition if:				
		(i) the operations constituting the breach were				
		necessary to comply with a lawful order or				
		direction given under the Mining Act 1992, the				
		Environmental Planning and Assessment Act				
		1979, Protection of the Environment				
		Operations Act 1997, Mine Health and Safety				
		Act 20041Coal Mine Health and Safety Act				
		2002 and Mine Health and Safety Regulation				
		2007 I Coal Mine Health and Safety Regulation				
		2006 or the Occupational Health and Safety				
		Act 2000; and				
		(ii) the Director-General had been notified in writing				
		of the terms of the order or direction prior to the				

No		Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	(e)	operations constituting the breach being carried out.  A MOP ceases to have effect 7 years after date of approval or other such period as identified by the Director-General.				
4.	Envir	onment Management Report				
	(a)	The lease helder must ledge Environmental	Annual Reviews 2017 to 2019	Annual reviews have been submitted to the DPIE each year of the Audit period. The Annual Review scope includes the requirements outlined in this condition.	С	
5.	Envir	onmental Incident Report				
	(a)	The lease holder must report any environmental incidents. The report must:  (i) be prepared according to any relevant Departmental guidelines;	Incident correspondence between Whitehaven Coal and regulatory authorities	(a) Environmental incidents are reported to the relevant government agencies. They are contacted immediately following an incident (taking into account	С	

No			Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	(b)	inclu (i) (ii) (iii) (iv) For t	the purposes of this condition, environmental incident des:  any incident causing or threatening material harm to the environment  any breach of Conditions 1 to 9 and 11 to 24;  any breach of environment protection legislation; or,  a serious complaint from landholders or the public.  the purposes of this condition, harm to the environment is erialif:  ii involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial, or  it results in actual or potential loss or property damage of an amount, or  amounts in aggregate, exceeding \$10,000, where loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment.		laboratory processing time for water exceedances). This is a component of the Pollution Incident Response Management Plan; (b) Noted; (c) Noted.		
6.	Addit	ional E	Environmental Reports				
	as di		nvironmental reports may be required from time to time in writing by the Director-General and must be lodged d.	Not applicable	Noted	NT	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
7.	Rehabilitation				
	Any disturbance as a result of activities under this lease must be rehabilitated to the satisfaction of the Director-General.	Not applicable	The MOP 2015 and Annual Reviews detail the rehabilitation of the mine on a progressive basis. These documents are sent to the DPIE.  No significant issues relating to rehabilitation have been raised by the DPIE or other regulatory bodies during the audit period.	С	
8.	Subsidence Management				
	<ul> <li>(a) The lease holder shall prepare a Subsidence Management Plan prior to commencing any underground mining operations which will potentially lead to subsidence of the land surface.</li> <li>(b) Underground mining operations which will potentially lead to subsidence include secondary extraction panels such as longwalls or miniwalls, associated first workings (gateroads, installation roads and associated main headings, etc), and pillar extractions, and are otherwise defined by the Applications for Subsidence Management Approvals guidelines (EDG17)</li> </ul>	Not applicable	Not triggered	NT	
	(c) The lease holder must not commence or undertake underground mining operations that will potentially lead to				

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	subsidence other than in accordance with a Subsidence Management Plan approved by the Director-General, an approval under the Coal Mine Health & Safety Act 2002, or the document New Subsidence Management Plan Approval Process - Transitional Provisions (EDP09).  (d) Subsidence Management Plans are to be prepared in accordance with the Guideline for Applications for Subsidence Management Approvals.  (e) Subsidence Management Plans as approved shall form part of the Mining Operations Plan required under Condition 3 and will be subject to the Environmental Management Report process as set out under Condition 4. The SMP is also subject to the requirements for subsidence monitoring and reporting set out in the document New Approval Process for Management of Coal Mining Subsidence - Policy.				
9.	. Working Requirement				
	The lease holder must:  (a) ensure that at least six (6) competent people are efficiently employed in relation to the mining process or mining operations on the lease area  OR  (b) expend on operations carried out in the course of prospecting or mining the lease area, an amount of not less than \$105,000 per annum whilst the lease is in force.	Instrument of Variation, dated 10 September 2018	As per the Instrument of Variation, dated 10 September 2018, issued by a delegate for the Minister for Resources, this condition is omitted from the conditions of Mining Lease 1672. This variation was effective from 8 October 2018.	С	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	The Minister may at any time or times, by instrument in writing serventhe lease holder, increase or decrease the expenditure require or the number of people to be employed.				
10	D. Blasting				
	(a) Ground Vibration  The lease holder must ensure that the ground vibration peak particle velocity generated by any blasting within the lease area does not exceed 10 mm/second and does not exceed 5 mm/second in more than 5% of the total number of blasts over a period of 12 months at any dwelling or occupied premises as the case may be, unless determined otherwise by the Department of Environment, Climate Change and Water.	Annual Reviews 2017 to 2018 EPL Monitoring Reports 2017 to 2020	(a) No exceedances of ground vibration limits occurred during the reported audit period  (b) An exceedance of Condition 6 Schedule 3 of PA 10_0059 occurred with a blast undertaken on 4th May 2018, recording an overpressure greater than 120 dBL at two monitoring locations: 120.4dBL at Glenara (R11) and 120.2dBL at Kyooma (R98).	С	WCC should continue undertaking the control measures to make sure the exceedance occurred in May 2018 is not repeated in future years.
	The lease holder must ensure that the blast overpressu noise level generated by any blasting within the lease area does not exceed 120 dB (linear) and does not exceed 115 dB (linear) in more than 5% of the total number of blasts over a period of 12 months, at any dwelling or occupied premises, as the case may be, unless determined otherwise by the Department of Environment, Climate Change and Water.	re	WCC undertook an investigation into the incident, with appropriate notifications to the EPA and DPIE.  Upon completion of the investigation, control measures have been implemented to prevent or mitigate against a similar exceedance in the future.  These included the erection of "dig fences" to prevent over digging, in the event blasts are located alongside		

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
			excavation areas. In addition, face profiling will be completed after an excavator has left the area and prior to blast loading, to ensure under burden holes have been detected and addressed prior to firing.		
11.	. Safety				
	Operations must be carried out in a manner that ensures the safety of persons or stock in the vicinity of the operations. All drill holes shafts and excavations must be appropriately protected, to the satisfaction of the Director-General, to ensure that access to them by persons and stock is restricted. Abandoned shafts and excavations opened up or used by the lease holder must be notified in writing to the Department and filled in or otherwise rendered safe to a standard acceptable to the Director-General.	Not applicable	This condition appears to refer to the exploration phase of the mine's life and as such is not applicable to the current audit period.  Regardless, Whitehaven Coal has developed and implemented a robust safety management system which considers fall from height etc.	NT	
12	Prevention of soil erosion and pollution				
	Prospecting operations must be carried out in a manner that does not cause or aggravate air pollution, water (including groundwater) pollution, soil contamination or erosion, unless otherwise authorised by a relevant approval, and in accordance with an accepted Mining Operations Plan.	Not applicable	Not triggered (no prospecting during the audit period).	NT	

No		Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	efficien or any	ions must not interfere with or impair the stability or cy of any transmission line, communication line, pipeline other utility on the lease area without the prior written al of the Director-General and subject to any conditions led.	Not applicable	Not triggered (no prospecting during the audit period).	NT	
14	. Roads	and Tracks				
	(a) (b) (c)	The lease holder must pay to the relevant roads authority in control of the road or track the reasonable costs incurred by the roads authority in making good any damage to roads or tracks caused by operations carried out under this lease less any amount paid or payable from the Mine Subsidence Compensation Fund.  During wet weather the use of any road or track must be restricted so as to prevent damage to the road or track.  Existing access tracks should be used for all operations where reasonably practicable. New access tracks must be kept to a minimum and be positioned in order to minimise damage to the land, watercourses or vegetation.  Temporary access tracks must be rehabilitated and revegetated to the satisfaction of the Director-General as soon as reasonably practicable after they are no longer required under this lease.	Not applicable	Whitehaven Coal owns the land that the lease is located upon.	NT	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
15	Trees and Vegetation				
	<ul> <li>(a) The lease holder must not fell trees, strip bark or cut timber on any land subjectof this lease without the consent of the landholder who is entitled to the use of the timber.</li> <li>(b) The lease holder must contact Forests NSW and obtain any required permit, licence or approval before taking timber from any Crown land within the lease area.</li> <li>Note: Any clearing not authorised under the Act must comply with the_ requirements of the Native Vegetation Act 2003. Any clearing or taking of timber on Crown land is subject to the requirements of the Forestry Act 1916.</li> </ul>	Not applicable	(a) Not triggered.  (b) Clearing is not completed in the nonoperational areas of the site.  Felling of trees is completed in accordance with the preclearance permit (sighted) and is within the approved disturbance area.  Trees are not sold, and are used in rehabilitation.	NT	
17.	Resource Recovery				
	(a) Notwithstanding any description of mining methods and their sequence or of proposed resource recovery contained within the Mining Operations Plan, if at any time the Director-General is of the opinion that minerals which the lease entitles the lease holder to mine and which are economically recoverable at the time are not being recovered from the lease area, or that any such minerals which are being recovered are not being recovered to the	Not applicable	Not triggered.	NT	

No		Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
		extent which should be economically possible or which for				
		environmental reasons are necessary to be recovered,				
		notice in writing to the lease holder may be given requiring				
		the holder to recover such minerals.				
	(b)	The notice shall specify the minerals to be recovered				
		and the extent to which they are to be recovered, or the				
		objectives in regard to resource recovery, but shall not				
		specify the processes the lease holder shall use to				
		achieve the specified recovery.				
	(c)	The lease holder must, when requested by the				
		Director-General, provide such information as the				
		Director-General may specify about the recovery of the				
		mineral resources of the lease area.				
18	3. Indemn	nity				
	The le	ease holder must indemnify and keep indemnified the Crown	Noted	Noted	NT	
		and against all actions, suits, claims and demands of				
	whatse	oever nature and all costs, charges and expenses which				
	may b	be brought against the lease holder or which the lease holder				
	may ir	ncur in respect of any accident or injury to any person or				
	propei	rty which may arise out of the construction, maintenance or				
		ng of any workings now existing or to be made by the lease				
	workir					
		r within the lease area or in connection with any of the				
	holder					

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	that any such accident or injury shall arise from any act or thing				
	which the lease holder may be licensed or compelled to do.				
20. Sir	ngle Security				
	A single security in the sum of <b>\$4,062,000</b> must be given and maintained with the Minister by the lease holder for the purpose of ensuring the fulfilment by the lease holder of obligations under each Mining Lease 1563 (Act 1992) and any lease granted in satisfaction of Mining Lease Applications 407, 408 and 409 (Act 1992).	Correspondence between DPIE and Whitehaven dated 14/02/20 confirming Security bonds.	A security deposit has been completed for the whole of the WCC operation (sighted) and has been completed in accordance with the DRG closure tool.	С	
23. Su	spension of Mining Operations				
	The holder of a mining lease may not suspend mining operations in the mining area other than in accordance with the consent of the Minister.	Noted	Noted	NT	
24. Co	operation Agreement				
	The lease holder must make every reasonable attempt, and be able to demonstrate their attempts, to enter into a cooperation agreement with the holder(s) of any overlapping title(s). The cooperation agreement should address but not be limited to issues such as:  • access arrangements	Not applicable	Not triggered. Whitehaven Coal owns the lease area.	NT	
	operational interaction procedures				

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	dispute resolution information exchange well location timing of drilling potential resource extraction conflicts and rehabilitation issues.				
Note	Exploration Reports (Geological and Geophysical)  The lease holder must lodge reports to the satisfaction of the Director-General in accordance with section 163C of the Mining Act 1992 and in accordance with clause 57 of the Mining Regulation 2010.  Reports must be prepared in accordance with Exploration Reporting: A guide for reporting on exploration and prospecting in New South Wales (Department of Trade and Investment; Regional Infrastructure and Services 2010).				

Document details	
Document title	Appendix A4 – Mining Lease 1671
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Author	Robert Smith, Aaron McKenzie
Client Name	Whitehaven Coal

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No		Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
Minin	ng Lease	Conditions 2004				
1	. Notic	e to Landholders				
	(a) (b)	Within a period of three months from the date of grant/renewal of this lease or within such further time as the Minister may allow, the lease holder must serve on each landholder of the land a notice in writing indicating that this lease has been granted/renewed and whether the lease includes the surface. An adequate plan and description of the lease area must accompany the notice. If there are ten or more landholders affected, the lease holder may serve the notice by publication in a newspaper circulating in the region where the lease area is situated. The notice must indicate that this lease has been granted/renewed; state whether the lease includes the surface and must contain an adequate plan and description of the lease area.	Not applicable	Whitehaven Coal owns all land within the mining lease area.	С	
2	. Envir	onmental Harm				
2.	(a) (b)	The lease holder must implement all practicable measures to prevent and/or minimise any harm to the environment that may result from the construction, operation or rehabilitation of any activities under this lease.  For the purposes of this condition:	MOP 2015 Management Plans and Strategies	As discussed throughout the EPL and Project Approval sections of this report, the Site has implemented a wide range of measures, monitoring, procedures etc. to minimise the mine's impact on the environment.	С	

No		Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	(ii)	environment means components of the earth, including:  (A) land, air and water, and (B) any layer of the atmosphere, and (C) any organic or inorganic matter and any living organism, and (D) human-made or modified structures and areas, and includes interacting natural ecosystems that include components referred to in paragraphs (A)-(C). harm to the environment includes any direct or indirect alteration of the environment that has the effect of degrading the environment and, without limiting the generality of the above, includes any act or omission that results in pollution, contributes to the extinction or degradation of any threatened species, populations or ecological communities and their habitats and causes impacts to places, objects and features of significance to Aboriginal people.		The Site's management systems have been designed to comply with the requirements of the project approval, environmental protection licence etc.  On this basis, the Site is considered to have implemented practicable measures to prevent and/or minimise environmental harm.		
3. Min	ing Opera	tions Plan				
(a) (b)	than i (MOF Gene	g operations must not be carried out otherwise n accordance with a Mining Operations Plan ) which has been approved by the Director- ral. IOP must:	MOP 2015 MOP Approval Letter	<ul> <li>(a) An approved MOP (2015 to 2022) has been developed and implemented;</li> <li>(b) The MOP has been developed in accordance with the requirements in</li> </ul>	С	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
ame	mineclosure;  identify how mining operations will be carried out in order to prevent and or minimise harm to the environment;		this condition as far as those requirements still apply (c) The MOP has not been updated during the Audit period; (d) Noted; (e) Noted.		

No			Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
			Regulation 2006 or the Occupational Health and Safety Act 2000; and				
		(ii)	the Director-Generalhad been notified in writing of the terms of the order or				
			direction prior to the operations constituting the breach being carried out.				
	(e)	appro	P ceases to have effect 7 years after date of val or other such periodas identified by the or-General.				
4	. Envi	ronment N	Management Report				
4.	(a)	Manag annual Genera	ase holder must lodge Environmental lement Reports (EMR) with the Director-General ly or at dates otherwise directed by the Directoral.  MR must:  report against compliance with the MOP;  report on progress in respect of rehabilitation completion criteria;  report on the extent of compliance with regulatory requirements; and  have regard to any relevant guidelines adopted by the Director-General;	Annual Reviews 2017 to 2019	Annual reviews have been submitted to the DPIE each year of the Audit period. The Annual Review scope includes the requirements outlined in this condition.	С	
5	. Envi	ronmenta	Incident Report				
	(a)	report m		between	(a) Environmental incidents are reported to the relevant government agencies.	С	
			e prepared according to any relevant Departmental uidelines;	Whitehaven Coal and	They are contacted immediately following an		

No			Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
		(ii)	be submitted within 24 hours of the environmental incident occurring:	regulatory authorities	incident (taking into account laboratory processing time for water		
	(b)	For the	he purposes of this condition, environmental incident des:		exceedances). This is a component of the Pollution		
		(i)	any incident causing or threatening material harm to the environment		Management Plan; (b) Noted;		
		(ii)	any breach of Conditions 1 to 9 and 11 to 24;		(c) Noted.		
		(iii)	any breach of environment protection legislation; or,				
		(iv)	a serious complaint from landholders or the public.				
	(c)		he purposes of this condition, harm to the environment is rial if:				
		(i)	it involves actual or potential harm to the health or				
			safety of human beings or to ecosystems that is not				
			trivial, or				
		(ii)	it results in actual or potential loss or property damage of an amount, or				
			amounts in aggregate, exceeding \$10,000, where loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment.				
6.	Add	itional	Environmental Reports				
	as di		nvironmental reports may be required from time to time in writing by the Director-General and must be lodged d.	Not applicable	Noted	С	

No		Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
-	7. Reha	bilitation				
	1	disturbance as a result of activities under this lease must be oilitated to the satisfaction of the Director-General.	Not applicable	The MOP 2015 and Annual Reviews detail the rehabilitation of the mine on a progressive basis. These documents are sent to the DPIE.  No significant issues relating to rehabilitation have been raised by the DPIE or other regulatory bodies during the audit period.	С	
	10. Blas	ting				
	(a)	Ground Vibration  The lease holder must ensure that the ground vibration peak particle velocity generated by any blasting within the lease area does not exceed 10 mm/second and does not exceed 5 mm/second in more than 5% of the total number of blasts over a period of 12 months at any dwelling or occupied premises as the case may be, unless determined otherwise by the Department of Environment, Climate Change and Water.	Annual Reviews 2017 to 2018 EPL Monitoring Reports 2017 to 2020	(a) No exceedances of ground vibration limits occurred during the reported audit period  (b) An exceedance of Condition 6 Schedule 3 of PA 10_0059 occurred with a blast undertaken on 4th May 2018, recording an overpressure greater than 120 dBL at two monitoring locations: 120.4dBL at Glenara (R11) and 120.2dBL at Kyooma (R98).	С	WCC should continue undertaking the control measures to make sure the exceedance occurred in May 2018 is not repeated in future years.
	(b)	Blast Overpressure  The lease holder must ensure that the blast overpressure noise level generated by any blasting within the lease area does not exceed 120 dB (linear) and does not exceed 115 dB (linear) in more than 5% of the total number of blasts over a period of 12 months, at any		WCC undertook an investigation into the incident, with appropriate notifications to the EPA and DPIE.  Upon completion of the investigation, control measures have been implemented to prevent or mitigate against a		

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
11. Sa	dwelling or occupied premises, as the case may be, unless determined otherwise by the Department of Environment, Climate Change and Water.		similar exceedance in the future.  These included the erection of "dig fences" to prevent over digging, in the event blasts are located alongside excavation areas. In addition, face profiling will be completed after an excavator has left the area and prior to blast loading, to ensure under burden holes have been detected and addressed prior to firing.		
	Operations must be carried out in a manner that ensures the safety of persons or stock in the vicinity of the operations. All drill holes shafts and excavations must be appropriately protected, to the satisfaction of the Director-General, to ensure that access to them by persons and stock is restricted. Abandoned shafts and excavations opened up or used by the lease holder must be notified in writing to the Department and filled in or otherwise rendered safe to a standard acceptable to the Director-General.	Not applicable	This condition appears to refer to the exploration phase of the mine's life and as such is not applicable to the current audit period.  Regardless, Whitehaven Coal has developed and implemented a robust safety management system which considers fall from height etc.	NT	
12. Pr	Prospecting operations must be carried out in a manner that does not cause or aggravate air pollution, water (including groundwater) pollution, soil contamination or erosion, unless otherwise	Not applicable.	Not triggered (no prospecting during the audit period).	NT	

No		Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	auth	orised by a relevant approval, and in accordance with an				
	acce	pted Mining Operations Plan.				
13. Tr	ansmis	sion lines				
	effici any d	rations must not interfere with or impair the stability or ency of any transmission line, communication line, pipeline or other utility on the lease area without the prior written oval of the Director-General and subject to any conditions lated.	Not applicable.	Not triggered (no prospecting during the audit period).	NT	
14. Ro	oads an	nd Tracks				
12.	(a)	The lease holder must pay to the relevant roads authority in control of the road or track the reasonable costs incurred by the roads authority in making good any damage to roads or tracks caused by operations carried out under this lease less any amount paid or payable from the Mine Subsidence Compensation Fund.  During wet weather the use of any road or track must be restricted so as to prevent damage to the road or track.	Not applicable.	Whitehaven Coal owns the land that the lease is located upon.	NT	
	(c)	Existing access tracks should be used for all operations where reasonably practicable. New access tracks must be kept to a minimum and be positioned in order to minimise damage to the land,				

No		Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	(d)	watercourses or vegetation.  Temporary access tracks must be rehabilitated and revegetated to thesatisfaction of the Director-General as soon as reasonably practicable after they are no longer required under this lease.				
15. T	rees and	d vegetation				
14.	(a)	The lease holder must not fell trees, strip bark or cut timber on any land subject of this lease without the consent of the landholder who is entitled to the use of the timber.  The lease holder must contact Forests NSW and obtain any required permit, licence or approval before taking timber from any Crown land within the lease area.	Not applicable	(a) Not Triggered. (b) Clearing is not completed in the non-operational areas of the site. Felling of trees is completed in accordance with the pre clearance permit (sighted) and is within the approved disturbance area. Trees are not sold, and are used in rehabilitation.	NT	
18. ln	demnit	у				
	Crow what may holde perso main	ease holder must indemnify and keep indemnified the on from and against all actions, suits, claims and demands of soever nature and all costs, charges and expenses which be brought against the lease holder or which the lease er may incur in respect of any accident or injury to any on or property which may arise out of the construction, tenance or working of any workings now existing or to be to by the lease holder within the lease area or in connection	Noted	Noted	NT	

No	Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	with any of the operations notwithstanding that all other conditions of this lease shall in all respects have been observed by the lease holder or that any such accident or injury shall arise from any act or thing which the lease holder may be licensed or compelled to do.				
20. Si	ngle Security				
	A single security in the sum of \$4,062,000 must be given and maintained with the Minister by the lease holder for the purpose of ensuring the fulfilment by the lease holder of obligations under each Mining Lease 1563 (Act 1992) and any lease granted in satisfaction of Mining Lease Applications 407,408 and 409 (Act 1992).	Correspondence between DPIE and Whitehaven dated 14/02/20 confirming Security bonds.	A security deposit has been completed for the whole of the WCC operation (sighted) and has been completed in accordance with the DRG closure tool.	С	
24. C	ooperation Agreement				
	The lease holder must make every reasonable attempt, and be able to demonstrate their attempts, to enter into a cooperation agreement with the holder(s) of any overlapping title(s). The cooperation agreement should address but not be limited to issues such as:  • access arrangements • operational interaction procedures • dispute resolution	Not applicable	Not triggered. Whitehaven Coal owns the lease area.	NT	

No		Assessment Requirement	Reference/ Evidence	Comments	Compliance Status	Recommendations
	•	information exchange				
	•	well location				
	•	timing of drilling				
	•	potential resource extraction conflicts and				
	•	rehabilitation issues.				
	Note:	Exploration Reports (Geological and Geophysical)				
		The lease holder must lodge reports to the satisfaction of the Director-General in accordance with section 163G of the Mining Act 1992 and in accordance with clause 57 of the Mining Regulation 2010.				
		Reports must be prepared in accordance with <u>Exploration Reporting: A guide for reporting on</u> <u>exploration and prospecting in New South Wales</u> (Department of Trade and Investment; Regional Infrastructure and Services 2010).				

INDEPENDENT ENVIRONMENTAL AUDIT 2020		
Werris Creek Coal Mine		
APPENDIX B	DEPARTMENTAL CORRESPONDENCE	
ALL ENDIA D	DEI ARTIMERTAL GORREGI GROENGE	

From: Donna Ausling
To: Heather McKay

Subject: RE: Whitehaven Coal Werris Creek Mine - Independent Environmental Audit 2020 > response 04 June 2020

**Date:** Thursday, 4 June 2020 8:31:57 AM

Attachments: <u>image008.png</u>

image003.jpg image011.png image012.png image013.jpg

### Good morning Heather

Thank you for your recent email. In response, Council does not have any specific items to raise at this time.

Please be advised that water and air quality management at the site remain an area of sustained and broader community interest. I would envisage, however, that these particular items will be addressed as standard items in your programmed audit.

Happy to provide any additional information as required.

Thank you for the opportunity to provide comment.

### Kind regards

## **Donna Ausling**

Director of Environmental and Economic Development Services |

Donna.Ausling@lpsc.nsw.gov.au

**Liverpool Plains Shire Council** 

PO Box 152 | Quirindi | NSW | 2343

T 02 6746 1755 | M 0427 237 874 | F 02 6746 3255



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**From:** Heather McKay [mailto:Heather.McKay@erm.com]

Sent: Monday, 25 May 2020 8:43 AM

To: Donna Ausling

Cc: Matt Hollis; Lynden Cini (LCini@whitehavencoal.com.au); Robert Smith; Oliver Moore; Aaron

Mckenzie

Subject: Whitehaven Coal Werris Creek Mine - Independent Environmental Audit 2020

Dear Donna,

I am currently completing the Independent Environmental Audit (IEA) on the Conditions of Approval issued to Whitehaven Coal Werris Creek mine, PA 10\_0059.

One of the requirements of the audit is that it is to be undertaken in consultation with relevant agencies. To that end, this email invites you to raise any questions or concerns regarding this project from an environmental management aspect.

The attached Terms of Reference outlines the audit process, and also introduces the approved team of suitably qualified, experienced and independent experts who will be undertaking the audit. The site inspection will be completed over the period 11-12 June 2020, therefore it would be appreciated if there are any concerns, areas of focus etc., they are raised by 8 June 2020.

I can be contacted at the details outlined below to discuss further.

Kind regards, Heather

Heather McKay Senior Environmental and Social Governance Consultant

#### **ERM**

M +61 (0)420 532 113

E Heather.McKay@erm.com\W www.erm.com



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From: <u>Gae Swain</u>
To: <u>Heather McKay</u>

Subject: RE: Whitehaven Coal Werris Creek Mine - Independent Environmental Audit 2020

**Date:** Monday, 1 June 2020 11:57:09 AM

Attachments: <u>image002.jpg</u>

#### Hi Heather.

Thank you for contacting me re Whitehaven Coal Werris Creek mine and your company's role.

I have chaired the CCC for the mine for several years and at all times have been confident with their environmental reports which are prepared for the Committee.

Any issues or concerns with the mine, raised by members of the Committee have always been quickly and comprehensively discussed at our meetings. I have no concerns or issues with the mine.

Thank you for the opportunity to comment.

Kind regards, Gae Swain.

**From:** Heather McKay [mailto:Heather.McKay@erm.com]

Sent: Monday, 25 May 2020 8:43 AM

To: gaeswain4@gmail.com

**Cc:** Matt Hollis <MHollis@whitehavencoal.com.au>; Lynden Cini (LCini@whitehavencoal.com.au) <LCini@whitehavencoal.com.au>; Robert Smith <Robert.Smith@erm.com>; Oliver Moore <Oliver.Moore@erm.com>; Aaron Mckenzie <Aaron.Mckenzie@erm.com>

Subject: Whitehaven Coal Werris Creek Mine - Independent Environmental Audit 2020

Dear Gae,

I am currently completing the Independent Environmental Audit (IEA) on the Conditions of Approval issued to Whitehaven Coal Werris Creek mine, PA 10\_0059.

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I can be contacted at the details outlined below to discuss further.

Kind regards, Heather

### Heather McKay Senior Environmental and Social Governance Consultant

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From: Ann Hagerthy
To: Heather McKay

Subject: RE: Whitehaven Coal Werris Creek Mine - Independent Environmental Audit 2020

**Date:** Monday, 25 May 2020 12:21:47 PM

Attachments: image001.jpg

image002.jpg

Hi Heather,

Nothing additional at this time, that hasn't already been communicated to Whitehaven.

Thank you,

# Ann Hagerthy Senior Compliance Officer

(Mon-Thu)

Planning & Assessment - Compliance | Department of Planning, Industry and Environment **T** 02 6575 3407 | **M** 0428 976 540| **E** ann.hagerthy@planning.nsw.gov.au
PO Box 3145 | Singleton NSW 2330

Please direct all email correspondence to <a href="mailto:compliance@planning.nsw.gov.au">compliance@planning.nsw.gov.au</a>

www.dpie.nsw.gov.au



The Department of Planning, Industry and Environment acknowledges that it stands on Aboriginal land. We acknowledge the traditional custodians of the land and we show our respect for elders past, present and emerging through thoughtful and collaborative approaches to our work, seeking to demonstrate our ongoing commitment to providing places in which Aboriginal people are included socially, culturally and economically.

From: Heather McKay < Heather. McKay@erm.com>

Sent: Monday, 25 May 2020 8:43 AM

**To:** Ann Hagerthy <Ann.Hagerthy@planning.nsw.gov.au>

**Cc:** Matt Hollis <MHollis@whitehavencoal.com.au>; Lynden Cini (LCini@whitehavencoal.com.au) <LCini@whitehavencoal.com.au>; Robert Smith <Robert.Smith@erm.com>; Oliver Moore

<Oliver.Moore@erm.com>; Aaron Mckenzie <Aaron.Mckenzie@erm.com>

Subject: Whitehaven Coal Werris Creek Mine - Independent Environmental Audit 2020

Dear Ann,

I am currently completing the Independent Environmental Audit (IEA) on the Conditions of Approval issued to Whitehaven Coal Werris Creek mine, PA 10\_0059.

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team of suitably qualified, experienced and independent experts who will be undertaking the audit. The site inspection will be completed over the period 11-12 June 2020, therefore it would be appreciated if there are any concerns, areas of focus etc., they are raised by 8 June 2020.

I can be contacted at the details outlined below to discuss further.

Kind regards, Heather

Heather McKay Senior Environmental and Social Governance Consultant

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From: <u>Timothy Baker</u>
To: <u>Heather McKay</u>

Subject: RE: Whitehaven Coal Werris Creek Mine - Independent Environmental Audit 2020

**Date:** Wednesday, 10 June 2020 7:27:27 AM

Attachments: <u>image001.jpg</u>

NRAR Comment 2020 Audit Requirements Werris Creek Coal.pdf

Hi Heather,

Please see attached response providing comments to consider as part of your Independent Audit. Should you require further information please let me know.

Regards

Tim

Tim Baker | Senior Water Regulation Officer Natural Resources Access Regulator Department of Planning, Industry & Environment M: 0428 162 097 | E: <u>Tim.Baker@nrar.nsw.gov.au</u>

W: www.industry.nsw.gov.au

From: Heather McKay < Heather. McKay@erm.com>

**Sent:** Tuesday, 9 June 2020 4:01 PM **To:** tim.baker@dpi.nsw.gov.au

Subject: FW: Whitehaven Coal Werris Creek Mine - Independent Environmental Audit 2020

Hi Tim,

I wanted to provide a reminder of my email below. If you could provide a response by 12 June that would be appreciated.

Kind regards, Heather

From: Heather McKay

Sent: Monday, May 25, 2020 8:43 AM

**To:** 'tim.baker@dpi.nsw.gov.au' < tim.baker@dpi.nsw.gov.au>

**Cc:** Matt Hollis < MHollis@whitehavencoal.com.au >; Lynden Cini (LCini@whitehavencoal.com.au) < LCini@whitehavencoal.com.au >; Robert Smith < Robert.Smith@erm.com >; Oliver Moore < Oliver.Moore@erm.com >; Aaron Mckenzie < Aaron.Mckenzie@erm.com >

Subject: Whitehaven Coal Werris Creek Mine - Independent Environmental Audit 2020

Dear Tim,

I am currently completing the Independent Environmental Audit (IEA) on the Conditions of Approval issued to Whitehaven Coal Werris Creek mine, PA 10\_0059.

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agencies. To that end, this email invites you to raise any questions or concerns regarding this project from an environmental management aspect.

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I can be contacted at the details outlined below to discuss further.

Kind regards, Heather

Heather McKay Senior Environmental and Social Governance Consultant

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Mr Lynden Cini Group Superintendent - Environment Whitehaven Coal Limited

Via Email Only: LCini@whitehavencoal.com.au

20/04/2020

Dear Mr Cini

# Werris Creek Mine Extension Project (MP 10\_0059) 2020 Independent Environmental Audit Team

I refer to your request (reference MP10\_0059-PA-23) seeking endorsement of the proposed audit team for the upcoming Independent Environmental Audit (IEA) required by Schedule 5, Condition 8 of project approval MP 10\_0059 (the approval) for the Werris Creek Mine Extension Project (the site).

The Secretary has considered Werris Creek Coal's request and endorses the following audit team from Environmental Resources Management Australia Pty Ltd (ERM) for the 2020 IEA:

- Ms Heather McKay Lead auditor;
- Mr Oliver Moore Technical oversight and reviews;
- Mr Aaron McKenzie Support and Acoustics Auditor; and
- Mr Wijnand Gemson Water/groundwater specialist.

The IEA is to be conducted in accordance with the conditions of the approval, and the Department's *Independent Audit Guideline* (October 2015). Further, the Secretary requests that in undertaking the IEA, the Auditor:

• Only use the compliance status descriptors "compliant", "non-compliant" or "not triggered". The terms "partial compliance", "partial non-compliance", "not verified" or other similar terms are not to be used.

The IEA period shall be from 16 June 2017 to the IEA audit inspection date, which shall coincide with the end of the audit period, and be completed no later than 16 June 2020, unless otherwise agreed by the Secretary.

The IEA report together with responses to any recommendations (RAR) contained in the IEA report should be submitted to the Department by 28 July 2020.

If you wish to discuss the matter further, please contact Ann Hagerthy on 02 6575 3407 or email to <a href="mailto:compliance@planning.nsw.gov.au">compliance@planning.nsw.gov.au</a>

Yours sincerely

Heidi Watters

Team Leader Northern

Compliance

As nominee of the Planning Secretary



Level 15, 309 Kent Street Sydney NSW 2000 Telephone: +61 (0)2 8584 8888 Fax: +61 (0)2 8584 8800

www.erm.com

Lynden Cini Group Superintendent – Environment Whitehaven Coal Limited 231 Conadilly Street Gunnedah NSW 2380



22 May 2020

Reference: 0552611

Dear Lynden

Subject: Werris Creek Independent Environmental Audit 2020

With regard to the completion the Independent Environmental Audit (IEA) of the Werris Creek mine, due to the continued travel restrictions imposed in response to the Covid-19 pandemic, ERM is seeking to substitute the approved lead auditor, Heather McKay, with Robert Smith, Principal Consultant, a previously approved lead auditor. The rest of the audit team will remain as approved.

I trust this is acceptable. Should you have any further queries, please do not hesitate to contact me.

Yours sincerely,

Oliver Moore

Partner



Mr Lynden Cini Group Superintendent - Environment Whitehaven Coal Limited 231 Conadilly Street GUNNEDAH NSW 2380

Via Email Only: LCini@whitehavencoal.com.au

10/06/2020

Dear Mr Cini

# Werris Creek Mine Extension Project (MP 10\_0059) 2020 Independent Environmental Audit Team

Reference is made to previous correspondence from the Department of Planning, Industry and Environment (the Department) to Whitehaven Coal Limited (Whitehaven) dated 20 April 2020, endorsing the ERM team for the upcoming Independent Environmental Audit (IEA) required by Schedule 5, Condition 8 of project approval MP 10\_0059 (the approval) for the Werris Creek Mine Extension Project (the site).

Reference is also made to correspondence from Whitehaven on 1 June 2020, requesting the Secretary endorse an alternative Lead Auditor, because due to COVID-19 travel restrictions, Ms Heather McKay is no longer available.

The Secretary has considered Whitehaven's request and endorses the following alternative team member from ERM for the 2020 IEA:

• Mr Robert Smith – Lead Auditor

If you wish to discuss the matter further, please contact Ms Ann Hagerthy, Senior Compliance Officer, on 02 6575 3407.

Yours sincerely

Heidi Watters

Team Leader Northern

Compliance

As nominee of the Planning Secretary

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### **ERM's Sydney Office**

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